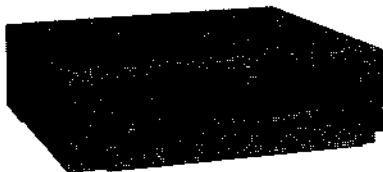


EVO-9500A

SERVICE MANUAL

US Model
Canadian Model



SPECIFICATIONS

System	
Video recording system	Rotary two-head flying erase head Helical scanning FM system
Audio recording system	Standard: Rotary head FM system (monaural) PCM: PCM system (2 channels)
Video signal	NTSC color, EIA standards
Usable cassettes	8 mm format video cassettes
Tape speed	Approx. 1.43cm/sec. (SP mode)
Maximum recording/playback time	2 hours (SP mode) (with Sony P6-120MP 8mm video cassette)
Fast-forward and rewind time	Approx. 3 min. (with Sony P6-90MP 8mm video cassette)

Inputs and Outputs

Video input	VIDEO IN (1) BNC connector Input signal: 1 Vp-p, 75 ohms, unbalanced, sync negative
S VIDEO Input	S VIDEO IN (1) 4-pin mini-DIN Luminance signal: 1 Vp-p, 75 ohms, unbalanced, sync negative Chrominance signal: 0.286 Vp-p, 75 ohms, unbalanced

Video output	VIDEO OUT, BNC connector (1), phono jack (1) Output signal: 1 Vp-p, 75 ohms, unbalanced, sync negative
S VIDEO output	S VIDEO OUT (1) 4-pin, mini-DIN Luminance signal: 1 Vp-p, 75 ohms, unbalanced, sync negative Chrominance signal: 0.286 Vp-p, 75 ohms, unbalanced Standard system 240 lines (SP color mode) Hi8 system: 400 lines More than 45 dB (Color mode)
Horizontal resolution	75 lines, unbalanced
Video S/N	Standard system 240 lines (SP color mode)
Audio Input	Hi8 system: 400 lines More than 45 dB (Color mode) AUDIO IN (2) phono jack Input level: -7.5 dBs (dBa = -0.775 Vrms) Input impedance: more than 47 kilohms
Audio output	AUDIO OUT Stereo output: phono jack (2) Standard impedance: -7.5 dBs at load impedance 47 kilohms monaural output: phono jack (1) Standard impedance: -5 dBs at load impedance 47 kilohms Output impedance: less than 2.2 kilohms

- Continued on next page -

Hi8 VIDEO CASSETTE RECORDER
SONY



Frequency response	Standard track: 30Hz-15kHz PCM track: 20Hz-15kHz
Audio S/N	More than 60 dB (SP mode)
Microphone input (monaural)	MIC (1) minijack -65 dBs, for low-impedance microphone
Headphones output	HEADPHONES (1) stereo minijack for headphones
External sync input	VIDEO IN (BNC connector, used also as a video input) Input signal: 1 Vp-p, video signal
CONTROL P input	Phono jack (1) Input impedance: 47 kilohms
CONTROL P output	Phono jack (1)

General

Power requirement	AC 120V, 60Hz
AC outlet	Total 400 W max. (unswitched)
Power consumption	25 W
Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Dimensions	Approx. 365 x 116 x 387 mm (width) (14 x 4 $\frac{1}{2}$ x 15 $\frac{1}{2}$ inches)
Weight	Approx. 6.5 kg (14 lb 5 oz)
Supplied accessory	Cleaning cassette (1)

Accessories not supplied

Remote Commander RM-552 (wireless)
Remote control unit RM-518 (wired)
Connecting cables
RFU adaptor RFU-09UCKA

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
6. Check the B+ voltage to see it is at the values specified.
7. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 micromperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

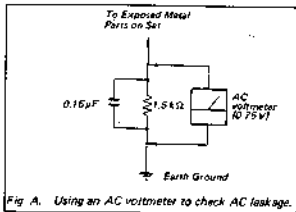


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED LINE WITH MARK Δ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE Δ SUR LES DIAGRAMMES SCHEMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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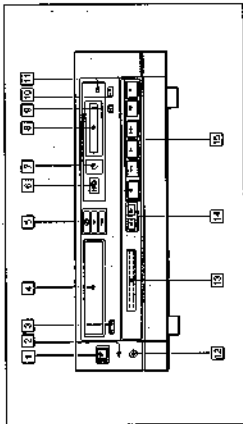
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SECTION 1 GENERAL

Location and Function of Parts and Controls

Front Panel



- 1 POWER ON/OFF switch and indicator
Press to turn on the power. The indicator lights up when the power is on.
- 2 STANDBY indicator
Lights up when the power cord is connected to a wall outlet, and goes out when the power of the VCR is on.
- 3 A. SILENT button
Press to remove the cassette.
- 4 Cassette compartment
- 5 HEADPHONES jack (audio output)
- 6 Audio level meter
- 7 LED indicator
Lights up when the power is on, and goes out when the power is off. The indicator lights up when the speaker cord is disconnected or disconnected.
- 8 REMOTE control
Point the, the 322 Remote Controller that, according to the manual.
- 9 TONE CONTROL dial
- 10 DISPLAY REC. ITEM selected by the TC COUNTER
- 11
- 12
- 13
- 14
- 15

16	Lights up when a cassette is in the cassette compartment.
17	Lights up when the power is on, and goes out when the power is off. The indicator lights up when the power is on, and goes out when the power is off.
18	Lights up when PCM sound is recorded on the tape or during PCM stereo recording. The indicator lights up when PCM sound is played back.

TC Item code COUNTER (year counter) indicator

TC	Enables the year code (year counter) to be recorded when the tape is recorded on the tape.
COUNTER	Displays the counter which increases in the year advance. The display is "0000" when you reach the year 2000. When you reach the year 2000, the display will show "9999".

- 19 RESET (Automatic recall) button
Press to reset the counter to "0000".
- 20 TIMER REC. INDICATOR
Lights up when the TIMER switch is set to REC, with the power cord connected to a wall outlet and when the power cord is connected to a wall outlet and when the power cord is connected to a wall outlet.
- 21 HEADPHONES jack (audio output)
- 22 Audio level meter

Recording	Audio recording level of the output which is recorded on the tape. The display is SELECT which shows the front panel is shown.
Playback	When AUDIO OUTPUT SELECT is set to STD or MAX, the maximum sound level (maximum) is displayed on both channels when when one of the "L" (Left, channel L or R) is set to "P".
Playback	Audio playback level of the output which is recorded on the AUDIO OUTPUT SELECT switch in memory.

This section is extracted from instruction manual.

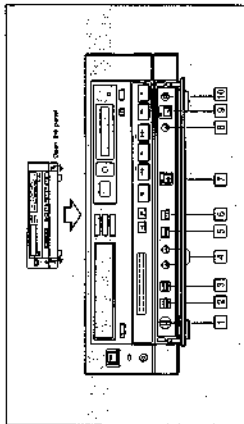
SELECT button Press to a selection playback.

-1	Repeats the action of TC setting speed. Press the AUDIO MODE SELECT (4) selector when to power change to the tape.
1a	Adjusts the picture of TC normal speed.

- 23 The indicator lights up during the corresponding operation.
- 24 STOP (no substance)
- 25 PAUSE (reverse)
- 26 PLAY (forward)
- 27 FF (fast forward)
- 28 PAUSE
- 29 REC. (recording)

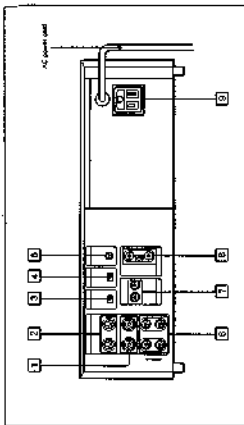
Locations and Functions of Panels and Controls

Inside the Front Panel



- PHONE LEVEL** (headphone level control)
- AUDIO OUTPUT SELECT switch**
 - Normally set to OFF.
 - Set to REC or PLAY to enable listening to recorded or selected data when an external tuner is connected.
- REC LEVEL** controls
- AUTO REPEAT** switch
 - Set to ON to repeat program automatically from the beginning of the selected program.
 - Normally set to OFF.
- SHUTTLE** switch
 - Set to REC or PLAY to enable searching or recording selected data when an external tuner is connected.
 - Normally set to OFF.
- REPEAT** switch
 - Set to ON to enable repeating selected program.
 - Normally set to OFF.
- STOP** button
- PAUSE** button
- STOP** button
- STOP** button

Rear Panel





- VIDEO INPUT** (composite) connectors (R/C) (10)
- VIDEO INPUT** (separate) connectors (R/C) (10)
- VIDEO INPUT** (separate) connectors (R/C) (10)
- VIDEO INPUT** (separate) connectors (R/C) (10)
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- VIDEO INPUT** (separate) connectors (R/C) (10)
- VIDEO INPUT** (separate) connectors (R/C) (10)

Playing Back a Tapes

Using the Tape Counter

You can watch the time code display and the counter display using the TC COUNTER window in Menu!

Item to be displayed	TC COUNTER
Show time code (selected on the tape)	
Counter for time code	

To reset the counter display to "0000"

Press the **RESET** button. **Be careful** as the brightness of the tape also will drop down the counter and the counter settings.

What is the indication?

It will be displayed when you set the TC COUNTER window to TC in the VCR. Inwardward or forward search or still playing back is also without the stop time code.

Monitoring the Picture of a Video Camera

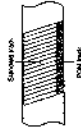
Connect a video camera to the VCR as a video in. For the camera to be used, the VCR must be set to VCR and enable the appropriate setting. The picture is automatically inverted in that of the camera when the VCR enters the period of still mode. This will happen when the VCR enters the still mode. The picture will be displayed in "stop" mode in a still mode, for example.

Playing Back an Audio Dubbed Tape

You can select the exciter sound recorded on the PCM track of the tape such as a mixture of tracks, with the AUDIO OUTPUT SELECT switch.




For details, see "Auto Dubbing" on page 21.

Audio recording pattern on a video tape



Playing back a stereo-recorded tape

For the AUDIO OUTPUT SELECT switch to play the stereo sound recorded on the PCM track of the tape. When monitoring the movement screen, set the switch to STEREO.

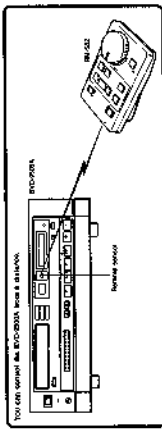
To select the recorder sound	AUDIO OUTPUT SELECT
PCM only	
PCM and stereo, stand	
Stereo only	

When a TV set with stereo input is attached. Connect your stereo system to the VCR to monitor the stereo sound.

If the sound is not heard on the right indicator lamp, make sure the AUDIO OUTPUT SELECT switch is set to PCM. The sound will be recorded on the PCM track of the tape. The picture will be inverted in that of the camera when the VCR enters the period of still mode. This will happen when the VCR enters the still mode. The picture will be displayed in "stop" mode in a still mode, for example.

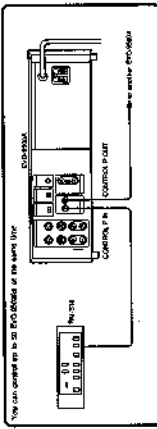
Remote Control Operation

Using the RM-552 wireless Remote Commander (not supplied)



For details, refer to the instruction manual of the RM-552.

Using the RM-518 wired remote control unit (not supplied)

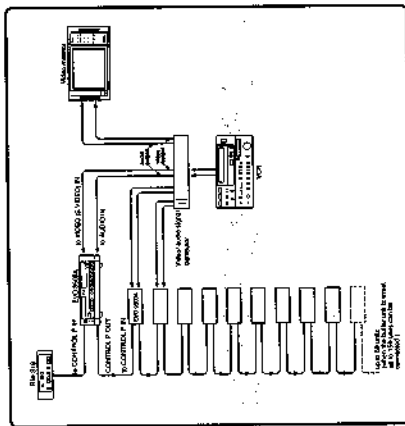


You can control up to 30 EVO-300A of the same Unit.

For details, refer to the instruction manual of the RM-518.

Tape Duplication System

You can make a tape duplication system by connecting a number of EVO-300A with the City View remote control. The remote control can be used to control a number of EVO-300A. Your city produces a number of recorded tapes. It is like:



Look at the label on the back of the unit to connect the remote control.

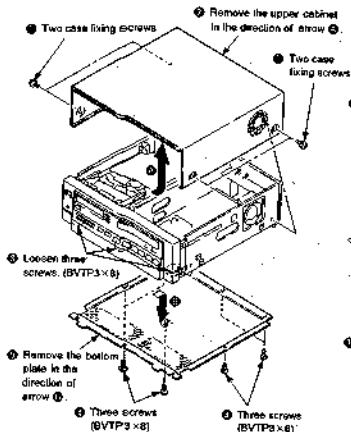
The actual connection and operation, consult your VCR dealer.

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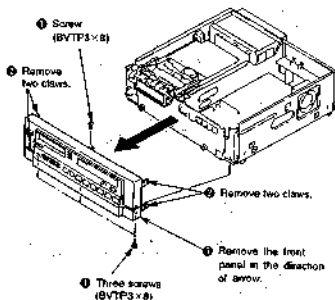
Using the RM-518 is comparable to the operation of the RM-552.

SECTION 2 DISASSEMBLY

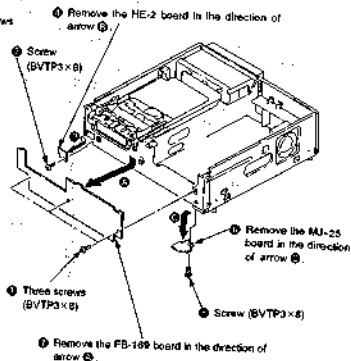
2-1. REMOVAL OF CABINET



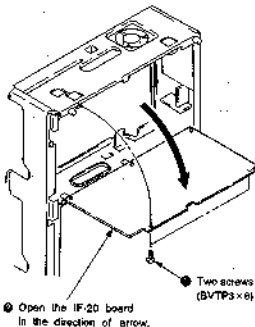
2-2. REMOVAL OF FRONT PANEL



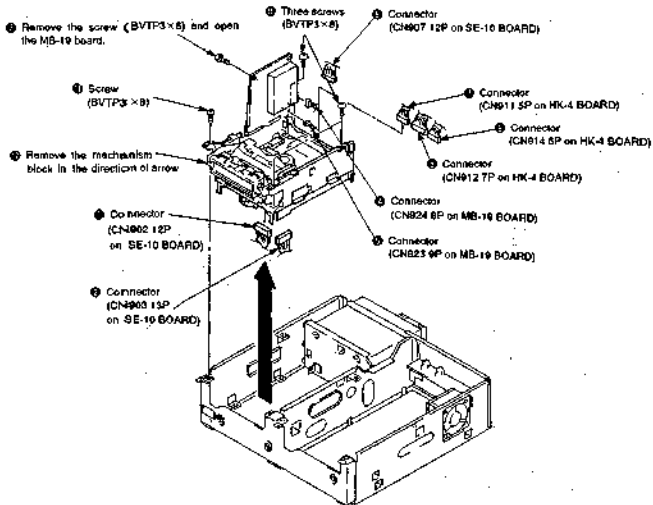
2-3. REMOVAL OF FB-169, HE-2 AND MU-25 BOARDS



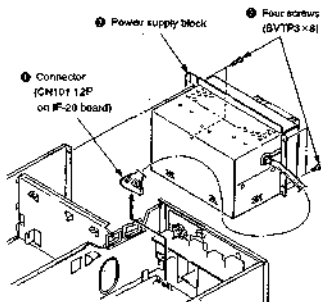
2-4. OPENING OF IF-20 BOARD



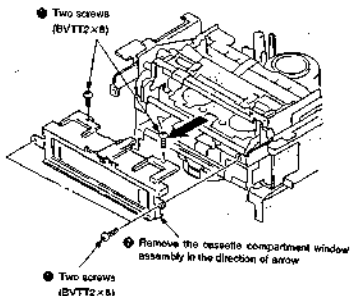
2-5. REMOVAL OF MECHANISM BLOCK



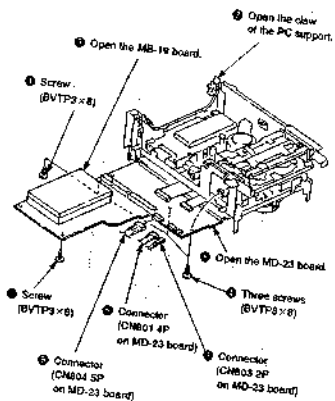
2-6. REMOVAL OF POWER SUPPLY BLOCK



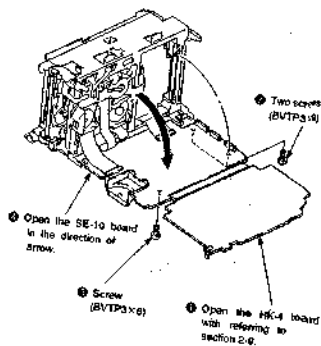
2-7. REMOVAL OF CASSETTE COMPARTMENT WINDOW ASSEMBLY



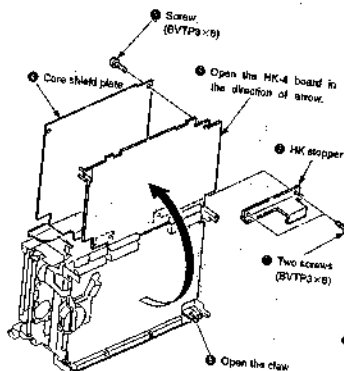
2-8. OPENING OF MB-19 AND MD-23 BOARDS



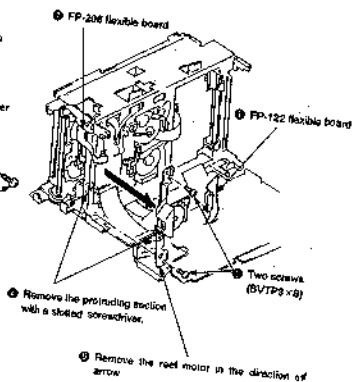
2-10. OPENING OF SE-10 BOARD



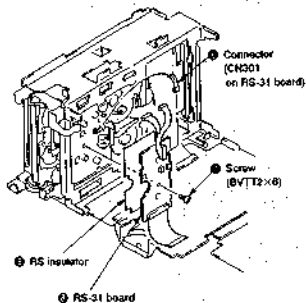
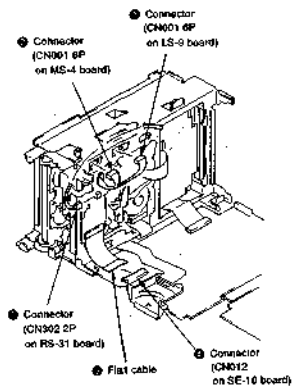
2-9. OPENING OF HK-4 BOARD



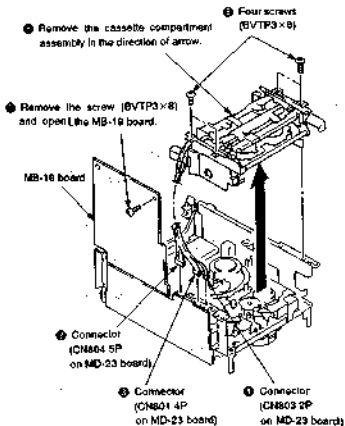
2-11. REMOVAL OF REEL MOTOR



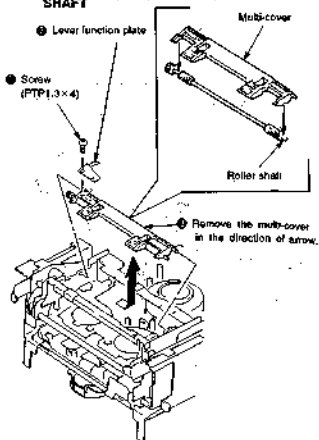
2-12. REMOVAL OF RS-31 BOARD



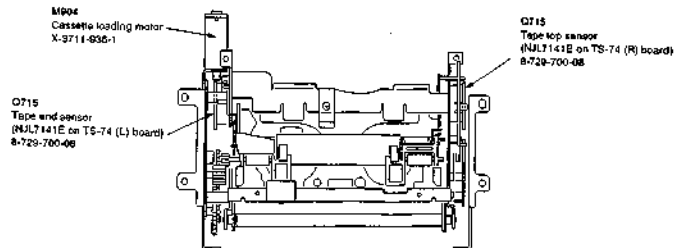
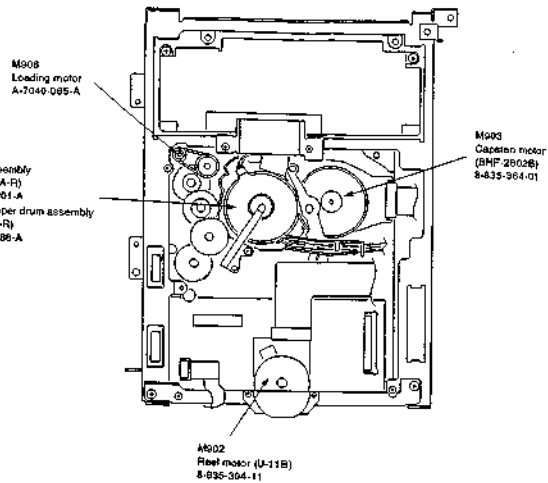
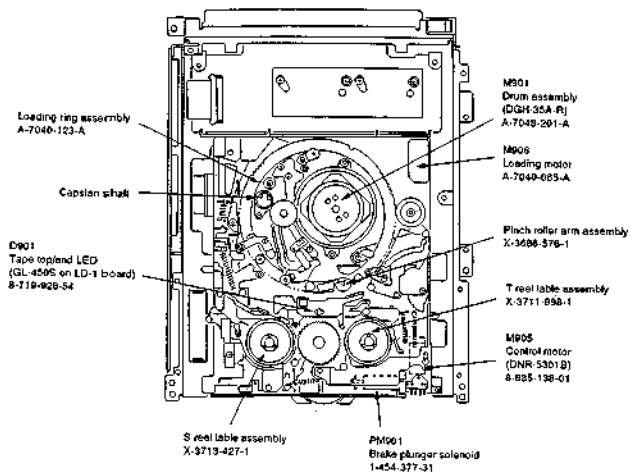
2-13. REMOVAL CASSETTE COMPARTMENT ASSEMBLY



2-14. REMOVAL OF MULTI-COVER AND ROLLER SHAFT

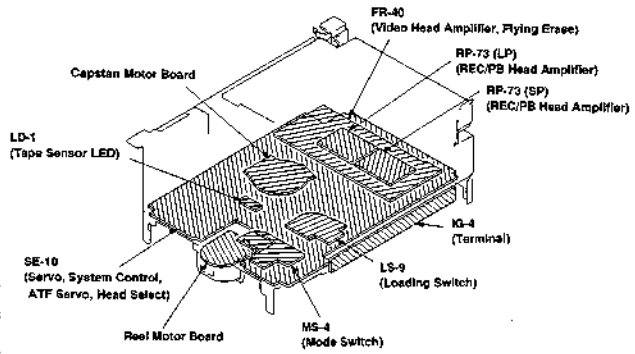
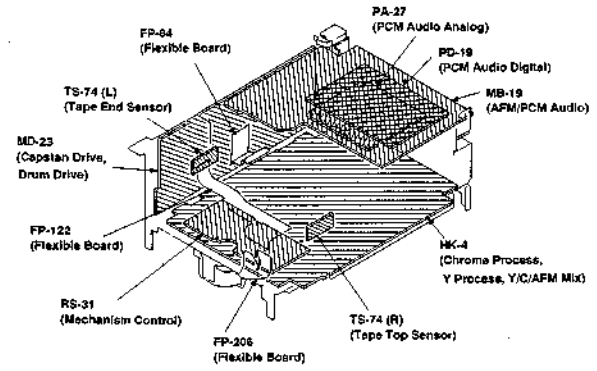
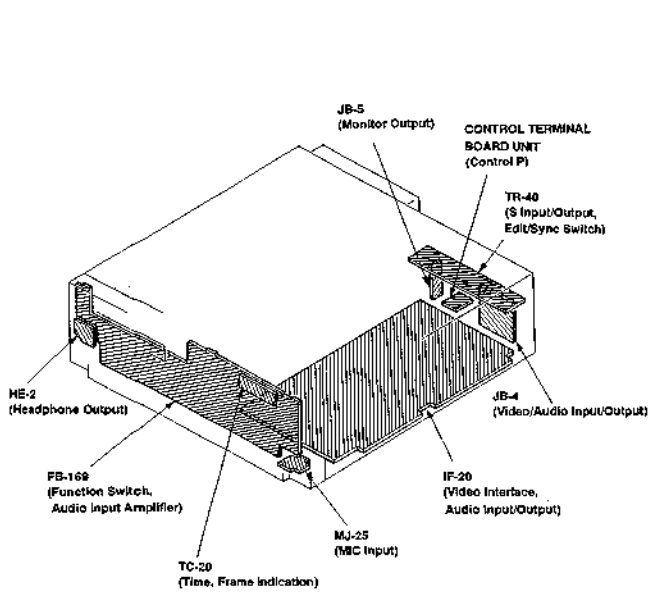


2-15. INTERNAL VIEW

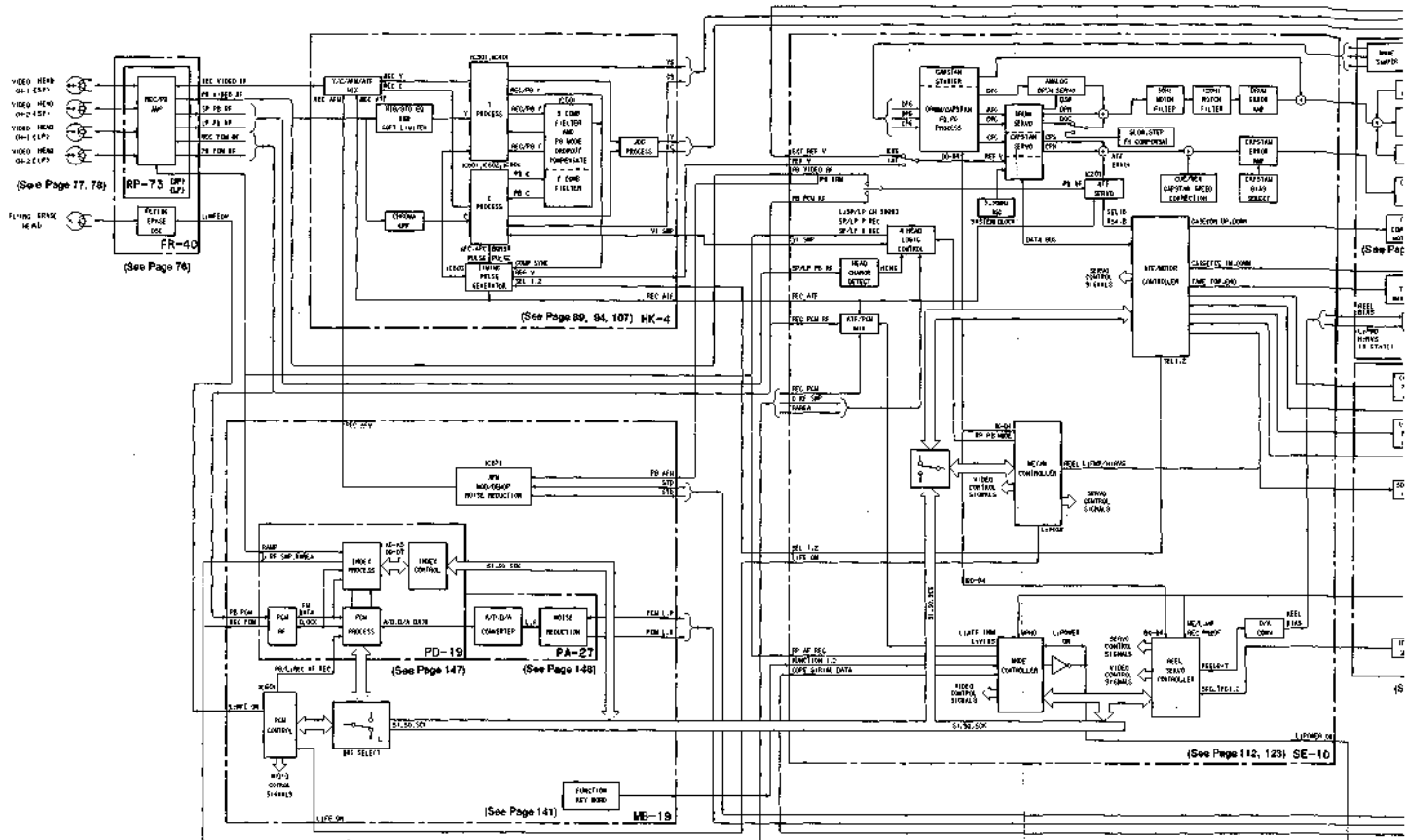


SECTION 3
DIAGRAM

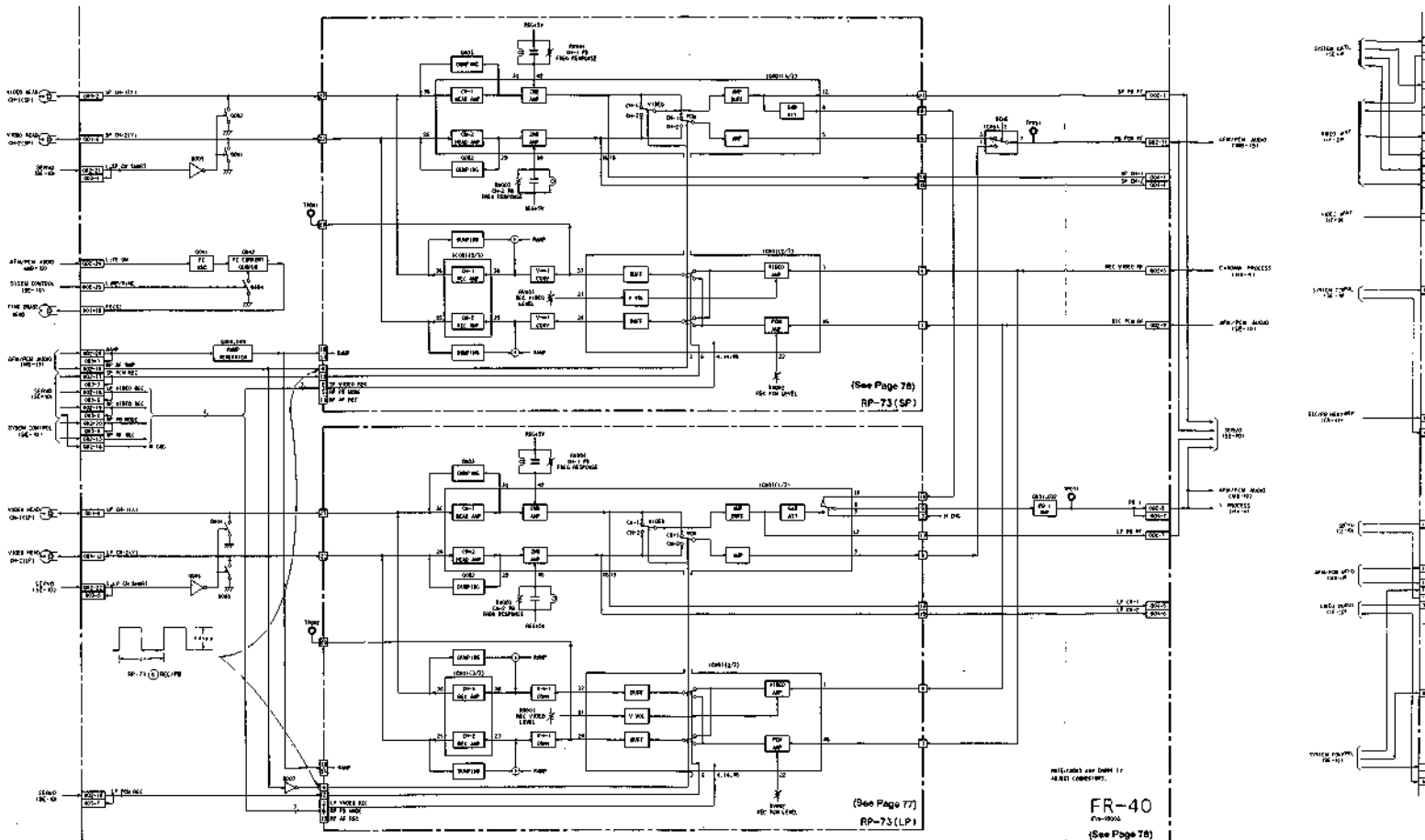
3-1. CIRCUIT BOARDS LOCATION



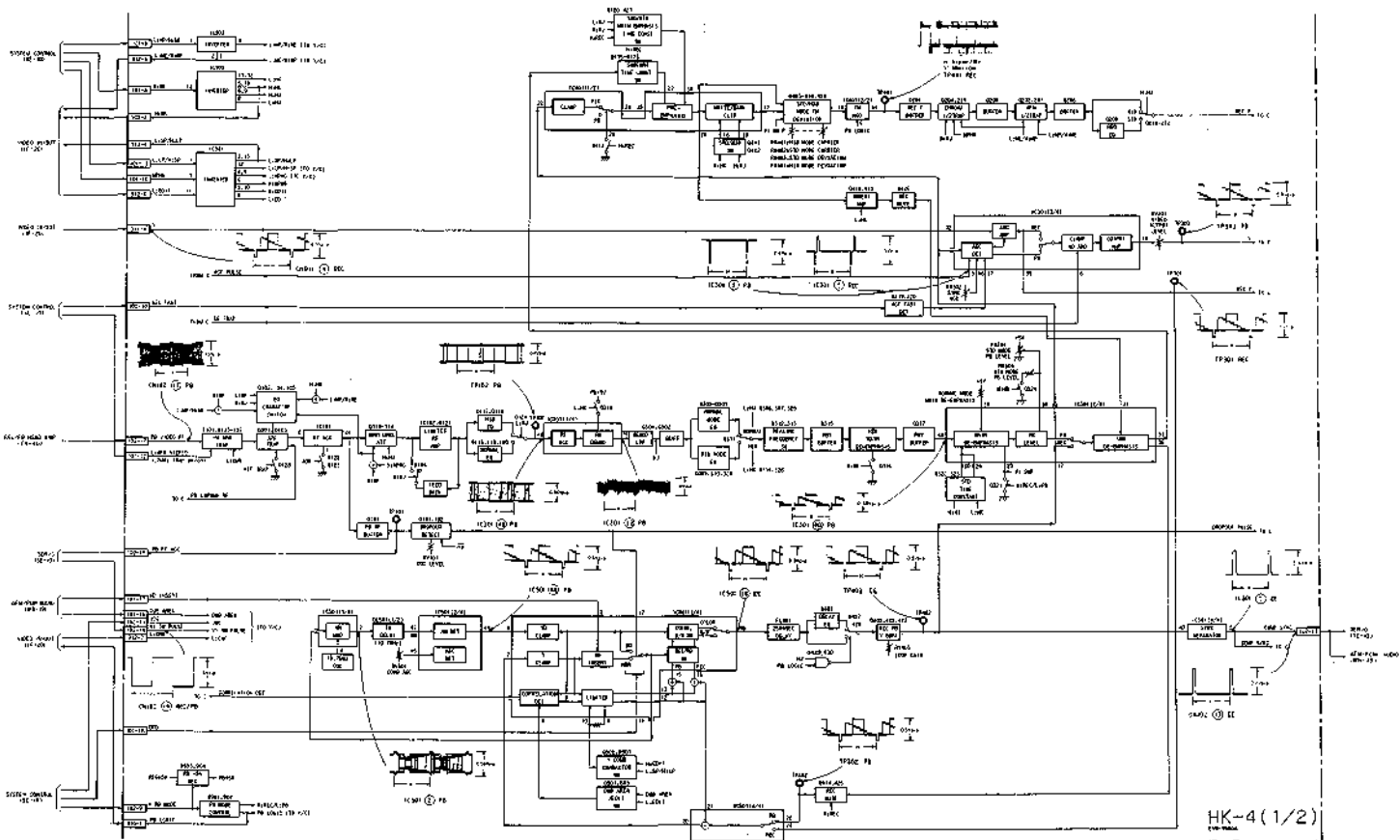
3-2. OVERALL BLOCK DIAGRAM



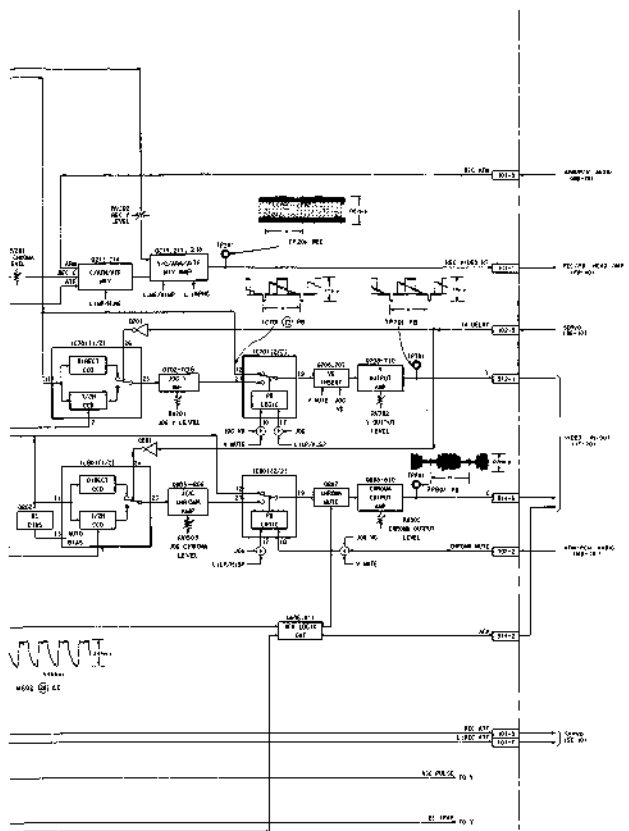
REC/PB HEAD AMP BLOCK DIAGRAM



3-4. Y PROCESS BLOCK DIAGRAM

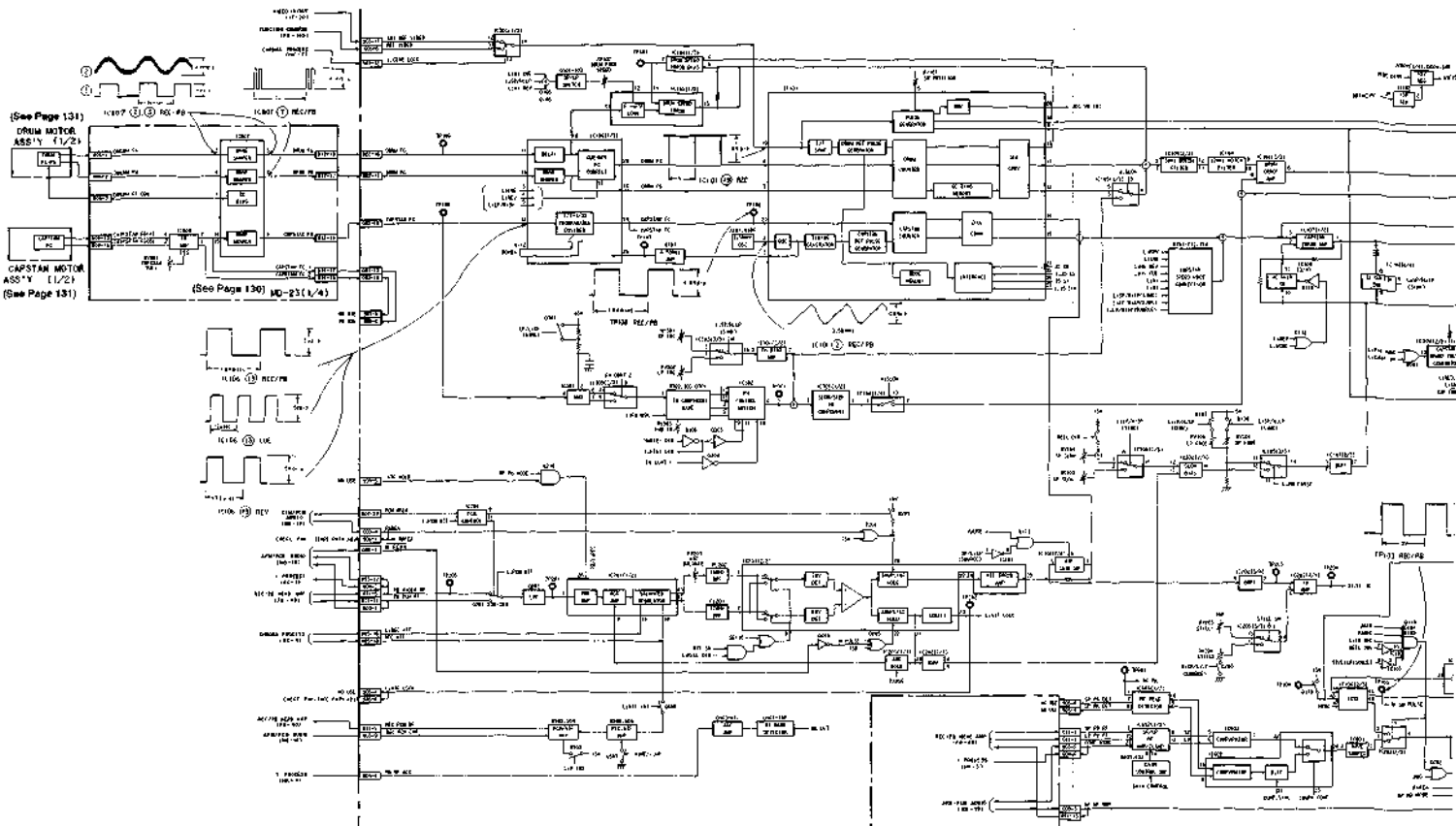


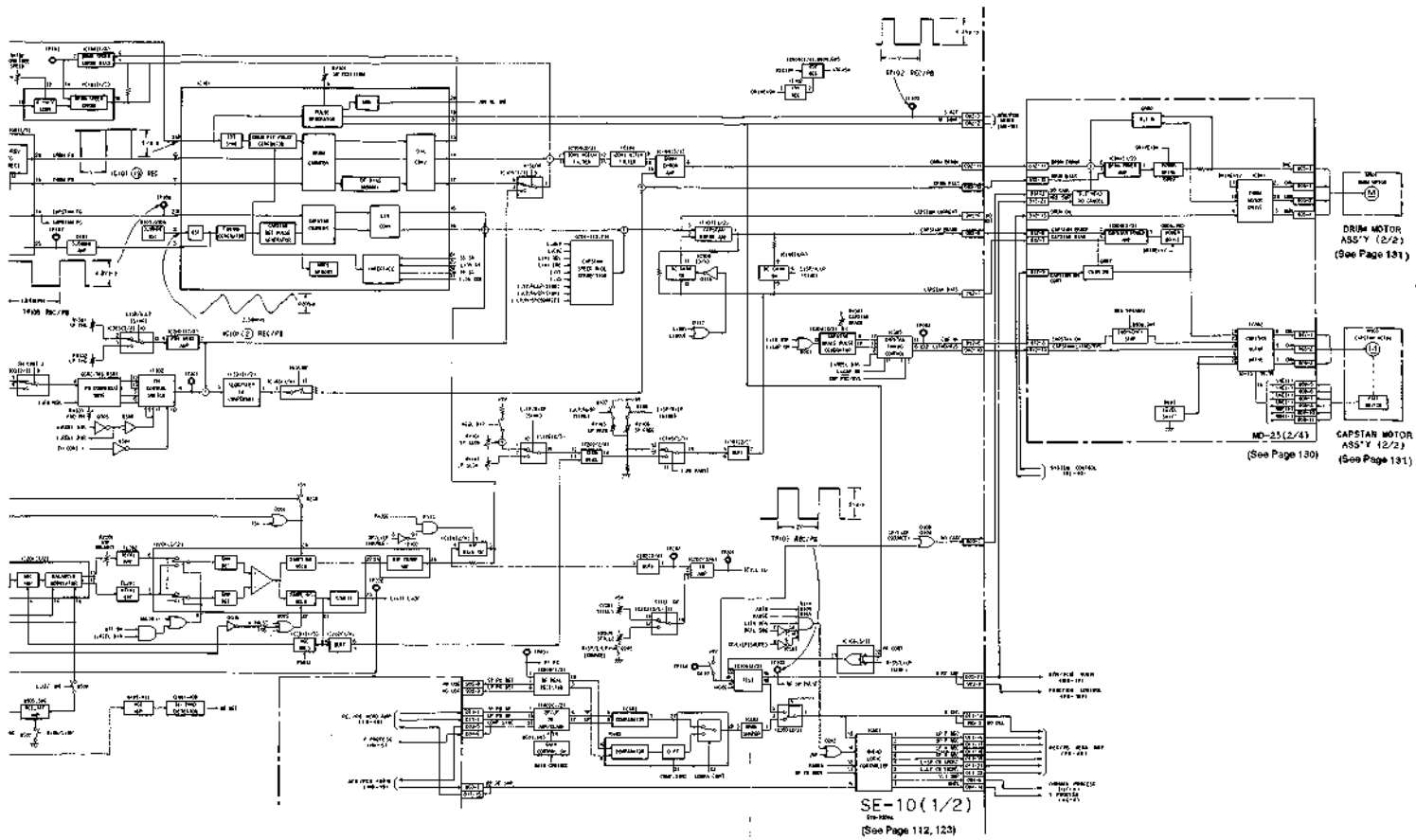
HK-4(1/2)
(See Page 63, 64, 107)



(See Page 88, 94, 107)
 HK-4 (2/2)
 LSP-4000

3-7. SERVO BLOCK DIAGRAM

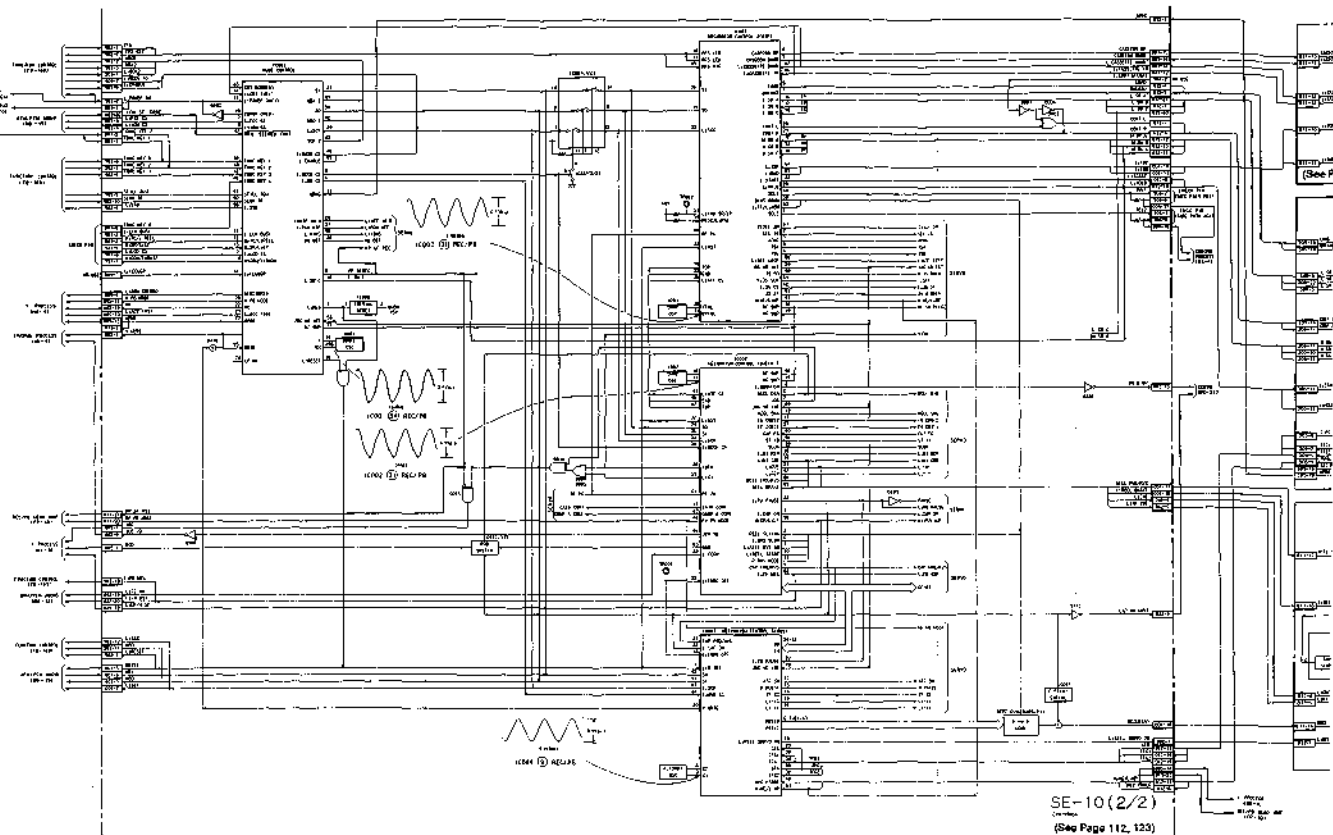




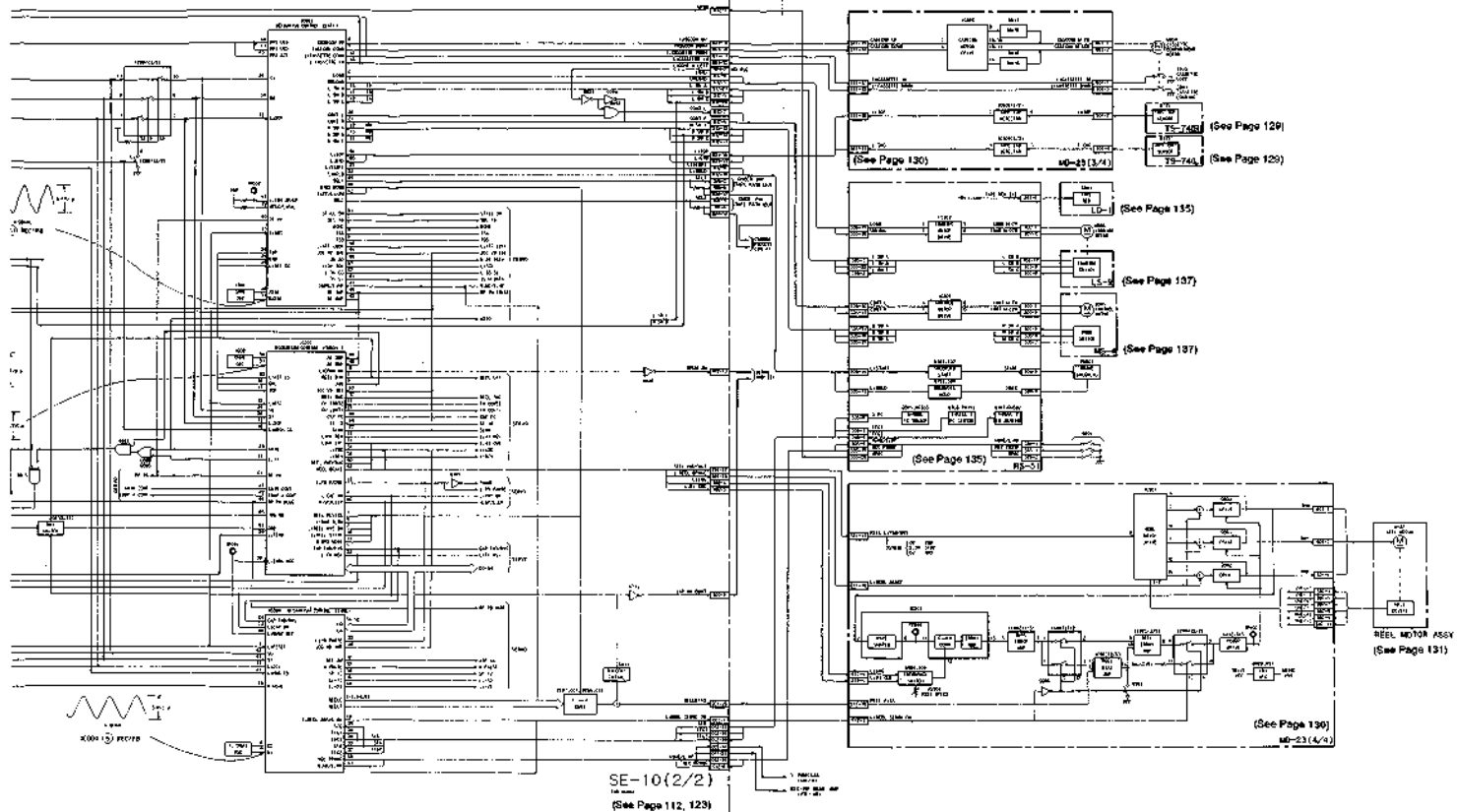
3-8. SYSTEM CONTROL BLOCK DIAGRAM

(See Page 141)

MB-19 BOARD



SE-10(2/2)
(See Page 112, 125)



SYSTEM CONTROL — VIDEO BLOCK INTERFACE

SIGNAL	I/O	MODE	STOP	FF	REW	REC	REC-PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB-PAUSE	× 1	- × 1	× 2	- × 3	CUE (× 9)	REV (- × 7)	SLOW (1/5)	SLOW (- 1/5)	
		PIN No.																		
	O	Pin ④ of IC002	L	L	L	L	L	H	H	L	H	H	H	H	H	H	H	H	H	
	O	Pin ⑤ of IC002	H	H	H	H	H	H	H	H	H	L	H	H	H	H	H	H	H	
CONT	O	Pin ⑥ of IC002	H	H	H	H	H	H	H	H*1	H*1	H*1	H*1	H*1	H*1	H*1	H*1	H*1	H*1	
PA CONT	O	Pin ⑦ of IC002	H	H	H	H	H	H	L	L	L	L	L	L	L	L	L	L	L	
VD	O	Pin ⑧ of IC002	H							VD pulse		VD pulse								
	O	Pin ⑨ of IC002	It is "H" when recording or playback in SP mode.																	
	O	Pin ⑩ of IC002	L	L	L	L	L	L	H	L	L	L	L	H	H	H	H	H	L	H
3 MUTE	O	Pin ⑪ of IC004	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
F	O	Pin ⑫ of CH012	It is "L" when using MP tape or MPHG tape.																	

* "L" when LP mode.

SYSTEM CONTROL — SERVO (CAPSTAN MOTOR) BLOCK INTERFACE

SIGNAL	I/O	MODE	STOP	FF	REW	REC	REC-PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB-PAUSE	× 1	- × 1	× 2	- × 3	CUE (× 9)	REV (- × 7)	SLOW (1/5)	SLOW (- 1/5)
		PIN No.																	
SN	O	Pin ④ of IC002	H	H	H	L	H	L	H	L	H	L	L	L	L	L	L	*1	*1
WDRVS	O	Pin ⑤ of IC002	L	L	L	L	L	L	L	L	L	L	H	L	H	L	H	*1	*1
D4	O	Pin ⑥ of IC002	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"2"	"2"	"9"	"7"	"1"	"1"
USE	O	Pin ⑦ of IC002	H	H	H	H	H	H	L	H	L	H	H	H	H	H	H	L	L
	O	Pin ⑧ of IC002	H	H	H	H	H	H	H	H	H	H	H	H	H	H	L	H	H
	O	Pin ⑨ of IC004	H	H	H	H	H	H	H	H	H	L	H	H	H	H	H	H	H
	O	Pin ⑩ of IC004	H	H	H	H	H	H	H	H	H	H	H	H	L	H	H	H	H

 D4 MSB
D0 LSB
Decimal

se output

SYSTEM CONTROL — SERVO (DRUM MOTOR) BLOCK INTERFACE

SIGNAL	I/O	MODE	STOP	FF	REW	REC	REC-PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB-PAUSE	× 1	- × 1	× 2	- × 3	CUE (× 9)	REV (- × 7)	SLOW (1/5)	SLOW (- 1/5)
		PIN No.																	
DR	O	Pin ④ of IC002	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
INT2	O	Pin ⑤ of IC002	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	*1	*1
I	O	Pin ⑥ of IC002	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	H
INT1	O	Pin ⑦ of IC002	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	*1	*1
SR	O	Pin ⑧ of IC002	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*1	*1

se output

3-12. SYSTEM CONTROL — SERVO (REEL MOTOR) BLOCK INTERFACE

SIGNAL	MO	MODE		STOP	FF	REW	REC	REC-PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB-PAUSE	× 1	- × 1	× 2	- × 3	CUE (× 9)	REV (- × 7)	SLOW (1/5)	SLOW (- 1/5)	
		MO	PIN No.																		
REEL DR	0	Pin ② of IC002		HL	L	H	L	L	L	L	L	HL	L	H	L	H	L	H	L	H	
REEL FLYING	0	Pin ③ of IC002		Normally 'L'. 'H' pulse when change from STOP to FF/REW mode.																	
REEL RVS SLDW	0	Pin ④ of IC002		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	L
REEL RVS ON	0	Pin ⑤ of IC002		Normally 'H'. 'L' pulse when change from FORWARD to REVERSE (over - × 1 speed).																	
REEL START	0	Pin ⑥ of IC002		Normally 'H'. 'L' pulse when change from STOP to FF/REW mode.																	
FF RVS MODE	0	Pin ⑦ of IC002		L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
REEL SWG	0	Pin ⑧ of IC002		Normally 'L'. 'H' pulse when change the direction from FORWARD to REVERSE, and vice versa.																	
REEL FWD/RVS	0	Pin ⑨ of IC002		2.5V	L	H	L	2.5V	L	2.5V	L	2.5V	L	H	L	H	L	H	'H' Pulse	'L' Pulse	
REEL BRK	0	Pin ⑩ of IC002		Normally 'H'. 'L' pulse when change from REC to REC-PAUSE mode.																	
REEL 0-7	0	Pin ⑪, ⑫, ⑬, ⑭, ⑮, ⑯, ⑰, ⑱		'70'	'06'	'06'	'54'	'54'	'54'	'54'	'54'	'70'	'54'	*2	'70'	*2	*3	*3	'70'	'03'	
REEL SERVO ON	0	Pin ⑲ of IC004		H	H	H	H	H	H	H	H	H	L	H	L	H	L	H	H	H	

REEL 1 MSB
REEL 0 LSB
BCD CODE


- *1. Pulse output
*2. Changes according to the period of SFG
*3. Changes according to the tape speed (SP/LP)

3-13. SYSTEM CONTROL — SERVO (ATF SERVO) BLOCK INTERFACE

SIGNAL	MO	MODE		STOP	FF	REW	REC	REC-PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB-PAUSE	× 1	- × 1	× 2	- × 3	CUE (× 9)	REV (- × 7)	SLOW (1/5)	SLOW (- 1/5)	
		MO	PIN No.																		
RFPB MODE	0	Pin ① of IC002		H	H	H	L	L	H	H	H	H	H	H	H	H	H	H	H	H	
JOG VD INT	I	Pin ② of IC002, 003		L	Pulse input																
SEL 2	0	Pin ③ of IC003		H	H	H	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	
SEL 1b	0	Pin ④ of IC003		L	L	L	*2	L	*2	L	*2	L	*2	*2	*2	*2	*2	*2	*2	*2	
TSA	0	Pin ⑤ of IC003		L	L	L	L	L	*2	L	*2	L	*2	*2	*2	*2	L	L	L	L	
TSS	0	Pin ⑥ of IC003		L	L	L	L	L	*2	L	*2	L	*2	*2	*2	*2	L	L	L	L	
M RFSW PULSE	I	Pin ⑦, ⑧ of IC003		HL	FIELD sync pulse																
SEL 1	0	Pin ⑨ of IC003		H	H	H	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	
ATF SW	0	Pin ⑩ of IC004		L	L	L	L	L	L	*1	L	*1	L	L	L	L	L	L	*1	*1	
IN PULSE	0	Pin ⑪ of IC004		L	L	L	L	L	L	*1	L	*1	L	L	L	L	L	L	*1	*1	

- *1. Pulse output
*2. Pulse output with ATF sequence

SYSTEM CONTROL — SERVO (STILL) BLOCK INTERFACE

SIGNAL	I/O	MODE		STOP	FF	REW	REC	REC-PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB-PAUSE	×1	-×1	×2	-×3	CUE (×9)	REV (-×7)	SLOW (1/5)	SLOW (-1/5)
		IO	PIN No.																	
PK	I	Pin ④ of IC002		Pulse input in PB PAUSE mode.																
P	I	Pin ⑤ of IC002		Pulse input in PB PAUSE mode.																
LLSW	O	Pin ③ of IC003		V duration pulse input ()																

SYSTEM CONTROL — SERVO (HEAD SELECTING) BLOCK INTERFACE

SIGNAL	I/O	MODE		STOP	FF	REW	REC	REC-PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB-PAUSE	×1	-×1	×2	-×3	CUE (×9)	REV (-×7)	SLOW (1/5)	SLOW (-1/5)	
		IO	PIN No.																		
O	O	Pin ④ of IC002		L	L	L	L	L	L	L	L	L	L	L	L	L	H	H	*1	*1	
P	O	Pin ⑤ of IC002		*H when record or play back in SP mode.																	
RG	O	Pin ③ of IC003		*1	*1	*1	*1	*1	*1	*2	*1	*2	*1	*2	*2	*2	*2	*2	*2	*2	*2

*1 depending upon a tape speed (SP/LP).

*2 pulse output

SYSTEM CONTROL — SERVO (OTHERS) BLOCK INTERFACE

SIGNAL	I/O	MODE		STOP	FF	REW	REC	REC-PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB-PAUSE	×1	-×1	×2	-×3	CUE (×9)	REV (-×7)	SLOW (1/5)	SLOW (-1/5)
		IO	PIN No.																	
P	O	Pin ④ of IC002		L	L	L	L	L	H	H	L	H	H	H	H	H	H	H	H	H
PF	I	Pin ⑤ of IC002		Undefined																
PLF LOCK	I	Pin ③ of IC003			*1	*1					*2		*2	*2	*2	*2	*1	*1		

*2 pulse output

L* when ATF servo is phase locked.

SIGNAL
LOAD
UNLOAD
CASECON UP
CASECON DC
RA-MC
LA-LC
ICNTL
CONTR
START
PROD
EST IN
CC DOWN
*YSP
END
SFG
TFG1
TFG2
REC PROOF
MEMP

*1. Pulse output

3-17. SYSTEM CONTROL — MD BLOCK INTERFACE

SIGNAL	NO	MODE		STOP	FF	REW	REC	REC* PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB* PAUSE	× 1	- × 1	× 2	- × 3	CUE (× 9)	REV (- × 7)	SLOW (1/5)	SLOW (- 1/5)	
		NO	PIN No.																		
LOAD	0	Pin ⑩ of IC003		Normally "L". "H" in tape threading.																	
UNLOAD	0	Pin ⑩ of IC003		Normally "L". "H" in tape unthreading.																	
CASECON UP	0	Pin ⑩ of IC003		Normally "L". "H" in cassette unloading.																	
CASECON DOWN	0	Pin ⑩ of IC003		Normally "L". "H" in cassette loading.																	
MA-MC	1	Pin ⑩⑪⑫ of IC003		"3"	"6"	"6"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"
LA-LC	1	Pin ⑩⑪⑫ of IC003		"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"
CONTL	0	Pin ⑩ of IC003		Normally "L". "H" when change to mechanism mode.																	
CONTR	0	Pin ⑩ of IC003		Normally "L". "H" when change to mechanism mode.																	
START	0	Pin ⑩ of IC003		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
ROLES	0	Pin ⑩ of IC003		H	L	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
EST IN	1	Pin ⑩ of IC003		Normally "L". "H" when cassette is ejected.																	
CC DOWN	1	Pin ⑩ of IC003		"H" in eyed condition. "L" when cassette compartment comes down																	
TOP	1	Pin ⑩ of IC003		Normally "H". "L" at tape top.																	
END	1	Pin ⑩ of IC003		Normally "H". "L" at tape end.																	
				When both signals are "H", it is judged that the cassette is loaded. When "L", it is judged that the cassette is unloaded.																	
SFB	1	Pin ⑩⑪ of IC004		Undefined	* 1	* 1	* 1	Undefined	* 1	Undefined	* 1	Undefined	* 1	* 1	* 1	* 1	* 1	* 1	* 1	* 1	* 1
TPQ1	1	Pin ⑩⑪ of IC004		Undefined	* 1	* 1	* 1	Undefined	* 1	Undefined	* 1	Undefined	* 1	* 1	* 1	* 1	* 1	* 1	* 1	* 1	* 1
TPQ2	1	Pin ⑩ of IC004		Undefined	* 1	* 1	* 1	Undefined	* 1	Undefined	* 1	Undefined	* 1	* 1	* 1	* 1	* 1	* 1	* 1	* 1	* 1
REC PROOF	1	Pin ⑩ of IC004		"L" when recording enable cassette tape is inserted.																	
MEMP	1	Pin ⑩ of IC004		"L" when MP tape or MPHG tape is used.																	

 MA MSB
 MC LSB
 Decimal
 LA MSB
 LC LSB
 Decimal

*1. Pulse according to reel rotation

3-19. SYSTEM CONTROL — PCM AUDIO BLOCK INTERFACE

Signal	I/O	PIN No.	Input/Output level
FEON	O	Pin ② of IC302	Normally "H". "L" in recording or AUDIO DUB.
FH MASK	O	Pin ③ of IC302	"L" pulse during slow playback. "H" in other playback modes.

3-20. SERVO — VIDEO BLOCK INTERFACE

Signal	I/O	PIN No.	Input/Output level
LP PCM REC	O	Pin ① of IC601	Normally "L". "H" pulse of V period in LP mode recording (including AUDIO DUB).
SP PCM REC	O	Pin ② of IC601	Normally "L". "H" pulse of V period in SP mode recording (including AUDIO DUB).
VI SWP	O	Pin ③ of IC601	2V period 50% duty pulse.
SP CH SHORT	O	Pin ④ of IC601	Normally "H". "L" in LP recording/playback mode.
LP CH SHORT	O	Pin ⑤ of IC601	Normally "L". "H" in LP recording/playback mode.
HH DL	O	Pin ⑥ of IC601	Normally "H". Pulse of variable speed playback.
SP VIDEO REC	O	Pin ⑦ of IC601	Normally "L". "H" in SP recording mode.
LP VIDEO REC	O	Pin ⑧ of IC601	Normally "L". "H" in LP recording mode.
COMP SYNC	I	Pin ⑨ of CN304	Positive composite sync signal.
REF V	I	Pin ⑩ of CN305	"L" pulse of V interval.
H CHG	O	Pin ⑪ of CN301	"H" in SP recording/playback mode. "L" in LP recording/playback mode. Variable speed playback pulse.

3-21. PCM AUDIO — VIDEO BLOCK INTERFACE

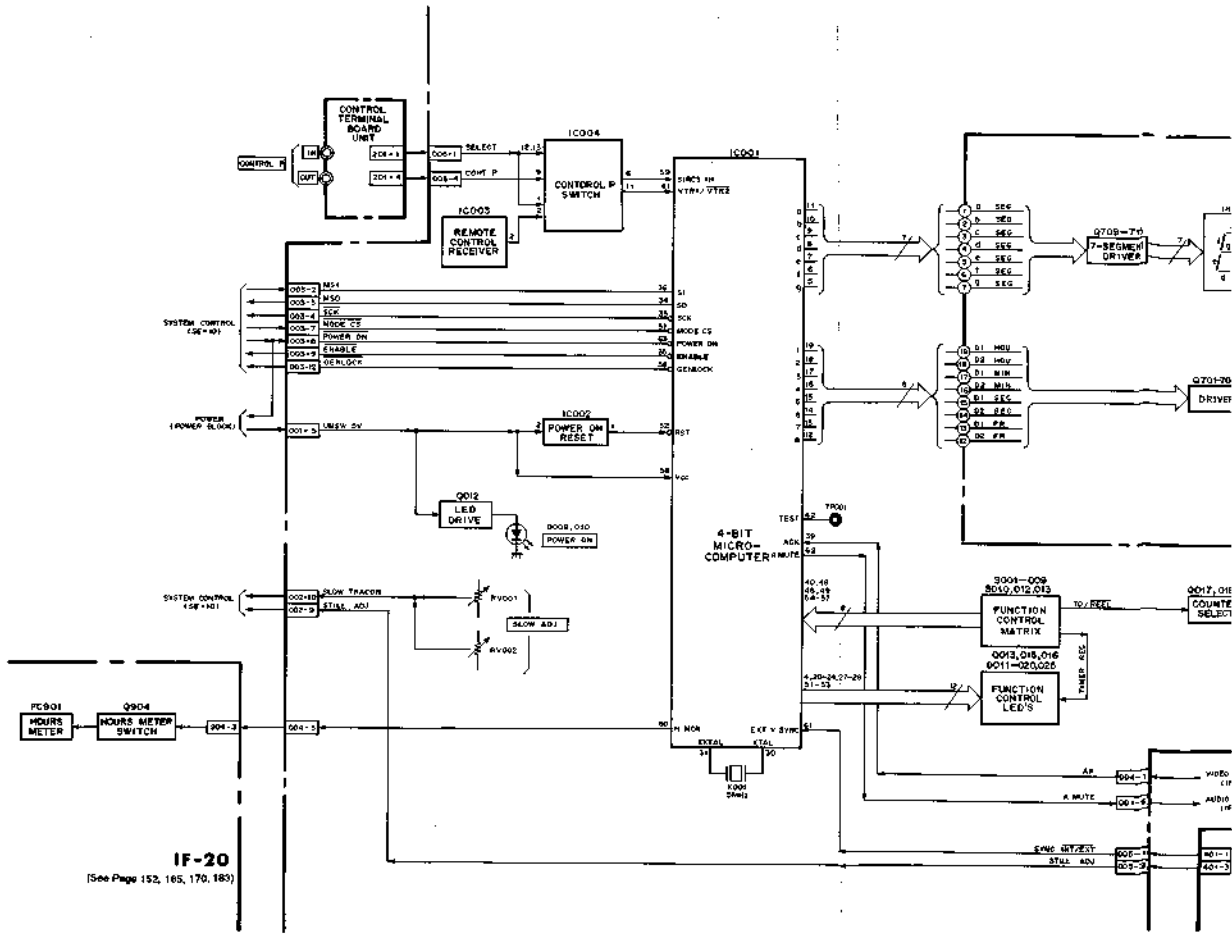
Signal	I/O	PIN No.	Input/Output level
M RE ON	O	Pin ① of IC601	Normally "H". "L" pulse of 2V period in AUDIO DUB.
RF AFTER REC	O	Pin ② of IC601	Normally "L". "H" in AUDIO DUB.
D RF SWP (RP RF SWP)	O	Pin ③ of PD-19 board	2V period 50% duty pulse.
RAMP	O	Pin ④ of PD-19 board	Normally "L". "H" in AUDIO DUB ("H" pulse of V interval)
C MUTE	O	Pin ⑤ of PD-19 board	Normally "L". "H" in AUDIO DUB. ("H" pulse of V interval)
HD INSERT	O	Pin ⑥ of PD-19 board	Normally "L". "H" pulse of H period in AUDIO DUB. ("H" Pulse of H interval)
AFTER REC MASC	O	Pin ⑦ of PD-19 board	Normally "L". "H" in AUDIO DUB ("H" pulse of V interval)

3-22. PCM AUDIO — SERVO BLOCK INTERFACE

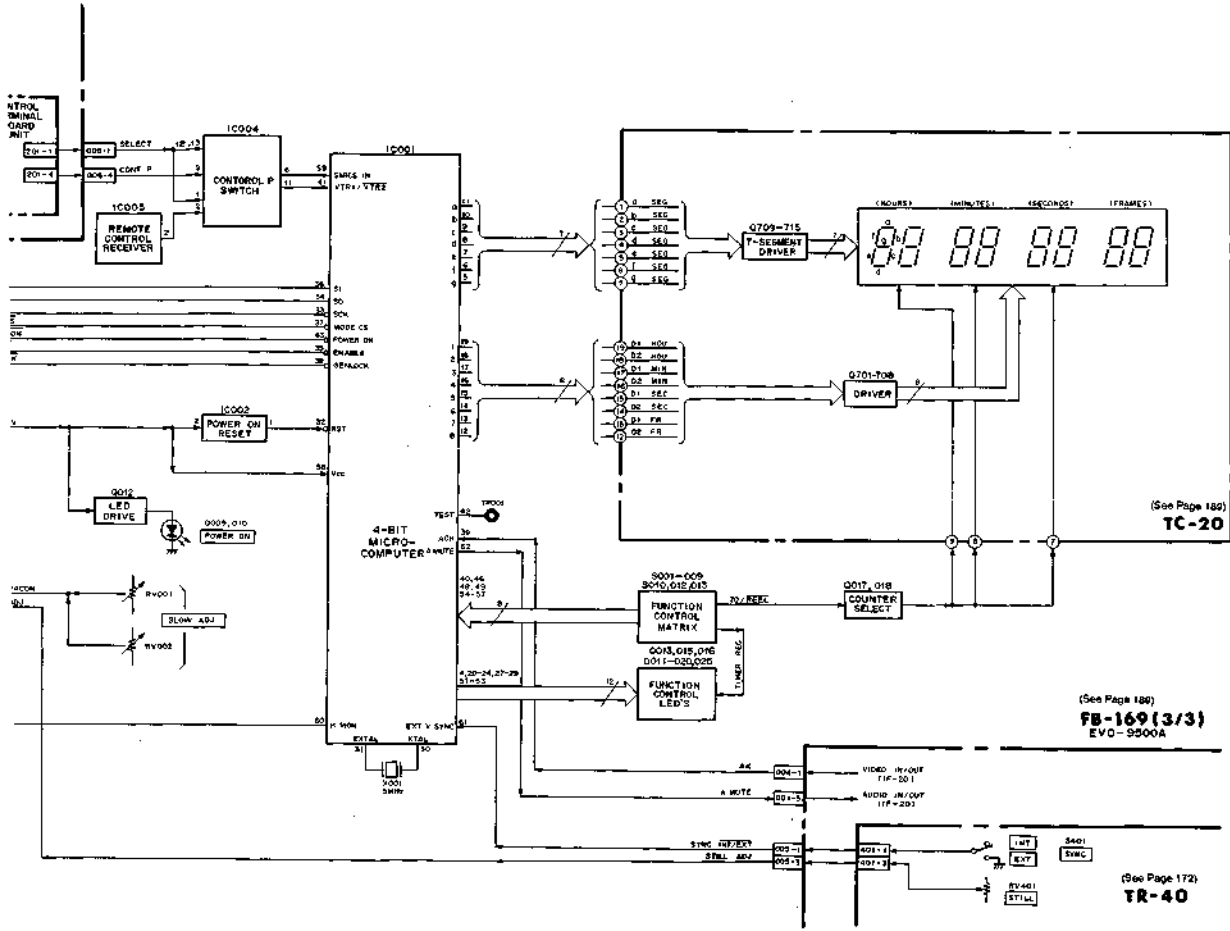
Signal	I/O	PIN No.	Input/Output level
RF CONT	I	Pin ① of IC601	2V period 50% duty pulse.
MS REF	I	Pin ② of RD-19 board	"H" pulse of V period.
R AREA	O	Pin ③ of RD-19 board	Normally "L". "H" pulse of V period in record (including AUDIO DUB).
D RF SWP	O	Pin ④ of RD-19 board	2V period 50% duty pulse.
RF AREA	O	Pin ⑤ of RD-19 board	Normally "L". "H" pulse of V period in record (including AUDIO DUB).
RF CONT SWP	I	Pin ⑥ of RD-19 board	2V period 50% duty pulse.

3-23. PCM AUDIO — AUDIO BLOCK INTERFACE

Signal	I/O	PIN No.	Input/Output level
MONO/STE OUT	O	Pin ① of IC601	Normally "L". "H" when monaural PCM audio signal is played back.
MONO/STE IN	I	Pin ② of IC601	Normally "L". Goes to "H" in microphone input of monaural PCM audio signal is played back by player.
PCM MUTE	O	Pin ③ of IC601	"H" when PCM audio signal can not be played back or at the mode transition.
AFM REC/FB	O	Pin ④ of IC601	Normally "H". "L" in playback (including variable speed playback).
AFM MUTE	O	Pin ⑤ of IC601	Normally "L". "H" in the mode transition.
AUEE PORT	O	Pin ⑥ of IC601	Normally "L". "H" in playback (including variable speed playback).
MODE	O	Pin ⑦ of RD-19 board	Normally "L". "H" in playback (including variable speed playback).



IF-20
(See Page 152, 165, 170, 185)



(See Page 180)

TC-20


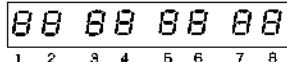
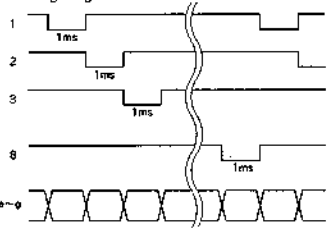
(See Page 180)

FB-169 (3/3)
EVO-9500A

(See Page 172)

TR-40

3-25. TIMER MICROCOMPUTER (IC001 (CXP5046) on FB-169 board) INTERFACE

Signal name	I/O	PIN No.	Function	
—	O	1	Not used.	
—	O	2		
—	O	3		
AU DUB	O	4	DUB LED Control signal. H: LED ON L: LED OFF	
g	O	5	Control signal for each segment of 7-segment LED. H: LED ON L: LED OFF 	
f	O	6		
e	O	7		
d	O	8		
c	O	9		
b	O	10		
a	O	11		
8	O	12	ON/OFF control signal for each segment of 7-segment LED. H: LED OFF L: LED ON	
7	O	13	 1 2 3 4 5 6 7 8 It works following timing. 	
6	O	14		
5	O	15		
4	O	16		
3	O	17		
2	O	18		
1	O	19		
LF LED	O	20		Not used.
SF LED	O	21		SP LED control signal. L: LED ON H: LED OFF
PCM LED	O	22	PCM LED control signal. L: LED ON H: LED OFF	
CIN LED	O	23	CASSETTE-IN LED control signal. L: LED ON H: LED OFF	
PAUSE LED	O	24	PAUSE LED control signal/GND. L: LED ON H: LED OFF	
GND	O	25	GND	

Signal name	I/O	PIN No.	Function
Vcc	O	26	UNSWV
FF LED	O	27	FF LED control signal. L: LED ON H: LED OFF
PLAY LED	O	28	PLAY LED control signal. L: LED ON H: LED OFF
REW LED	O	29	REW LED control signal. L: LED ON H: LED OFF
—	—	30	5MHz Oscillation.
—	—	31	5MHz Oscillation.
RESET	I	32	System reset input terminal.
SOCK	O	33	Communication line to a mode control microcomputer (IC001/SE-10/board) inside the Core-deck. Full-duplex serial data of 24-byte can be transmitted by 5-bit data. (See Fig.3-1)
SO	O	54	
ENABLE	I	35	
SI	I	36	
MODE CS	O	37	
GENLOCK	I	38	Sync control signal of core-deck. When it is "L", phase is locked to V SYNC input from external device, forcibly. Actually, Pin 61 is "L" level and sync is locked with external device when the mode is playback or X1 mode.
ACK	I	39	Burst existence signal. This signal is used for detecting the video signal existence. H: Blank L: Video signal exist
TC/REEL	I	40	Selection signal to display the time code of reel counter on the 8-digit 7-segment LED. H: Time code L: Reel counter
VTR/II	I	41	Srcs category code selection signal input to pin 59. H: Receive VTR I L: Receive VTR II
TEST	I	42	"L" in TEST mode.
PRINTER	I	43	"L" in Printer. Not used.
PRG INC	I	44	Control signal to increment a chapter number, when the printer has been used. Not used.
—	—	45	Not used.
AUTO REPEAT	I	46	Switching signal to AUTO REPEAT mode. AUTO REPEAT is carried out when the ACK at pin 39 is "L".
AUTO PB	I	47	Not used.
TIMER PB	I	48	Switching signal for automatic playback when the power is turned ON. Automatic playback is carried out when it is "L".
TIMER REC	I	49	Switching signal for automatic recording when the power is turned ON. When it is set to "L", unit is set into the record mode by turning the power ON.
JS LED	O	50	Not used.
EJECT LED	O	51	EJECT LED control signal. L: LED ON H: LED OFF

Signal
HP
REC
KI
KI
KI
V
SIR
HP
INT
A V
POW
External
ENABLE
MODE CS
SOCK
Ext. micro output
SI
SO
to:
fb:
to:
to:
to:

Signal name	I/O	PIN No.	Function
Vcc	O	26	UNSW5V.
FF LED	O	27	FF LED control signal. L : LED ON H : LED OFF
PLAY LED	O	28	PLAY LED control signal. L : LED ON H : LED OFF
REW LED	O	29	REW LED control signal. L : LED ON H : LED OFF
		30	5MHz Oscillation.
		31	5MHz Oscillation.
RESET	I	32	System reset input terminal
SRK	O	33	
SO	O	34	Communication line to a mode control microcomputer (J0001SE-106board) inside the Core-deck.
ENABLE	I	35	Full-duplex serial data of 24-byte can be transmitted by 5-bit data.
SI	I	36	(See Fig.3-1)
MODE CS	O	37	
GENLOCK	I	38	Sync control signal of core-deck. When it is "L", phase is locked to V SYNC input from external device, forcibly. Actually, Pin 61 is "L" level and sync is locked with external device when the mode is playback or X1 mode.
ACK	I	39	Bus existence signal. This signal is used for detecting the video signal existences. H : Blank L : Video signal exist
TC/REEL	I	40	Selection signal to display the time code or reel counter on the 8-digit 7-segment LED. H : Time code L : Reel counter
VTR/II	I	41	Sires category code selection signal input to pin 59. H : Receive VTR I L : Receive VTR II
TEST	I	42	"L" in TEST mode.
PRINTER	I	43	"L" in Printer. Not used.
PRG INC	I	44	Control signal to increment a chapter number, when the printer has been used. Not used.
		45	Not used.
AUTO REPEAT	I	46	Switching signal to AUTO REPEAT mode. AUTO REPEAT is carried out when the ACK at pin 39 is "L".
AUTO PB	I	47	Not used.
TIMER PB	I	48	Switching signal for automatic playback when the power is turned ON. Automatic playback is carried out when it is "L".
TIMER REC	I	49	Switching signal for automatic recording when the power is turned ON. When it is set to "L", unit is set into the record mode by turning the power ON.
IS LED	O	50	Not used.
EJECT LED	O	51	EJECT LED control signal. L : LED ON H : LED OFF

Signal name	I/O	PIN No.	Function
HR LED	O	52	HR LED control signal. L : LED ON H : LED OFF
REC LED	O	53	REC LED control signal. L : LED ON H : LED OFF
KEY1	I	54	A/D port for KEY Detection. DUB, +1/2, -1/2
KEY2	I	55	A/D port for KEY Detection. POWER, REW, RESET
KEY3	I	56	A/D port for KEY Detection. EJECT, PLAY, PAUSE
KEY4	I	57	A/D port for KEY Detection. STOP, REC, FF
Vcc		58	UNSW5V.
SIRCS IN	I	59	SIRCS Signal input terminal.
HMON	O	60	Control signal for the hours meter. It goes to "L" during rotating the drum based on the data transmitted from the core-deck.
INT/EXT	I	61	Switching signal for EXT/INT Sync. L : External sync mode
A MUTE	O	62	Audio muting control signal Mute by "H".
POWER ON	I	63	Power on detection signal L : Power on
	O	64	Not used.

External Bus Timing chart

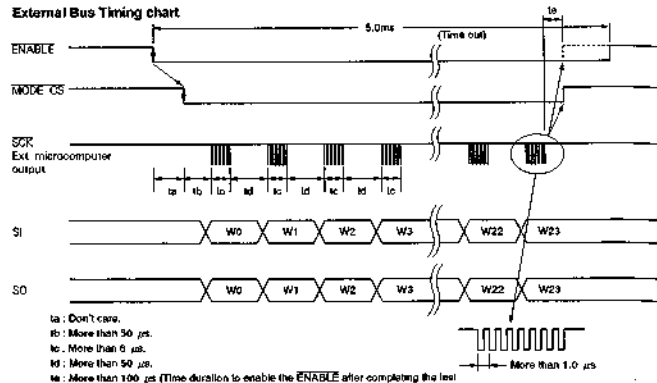
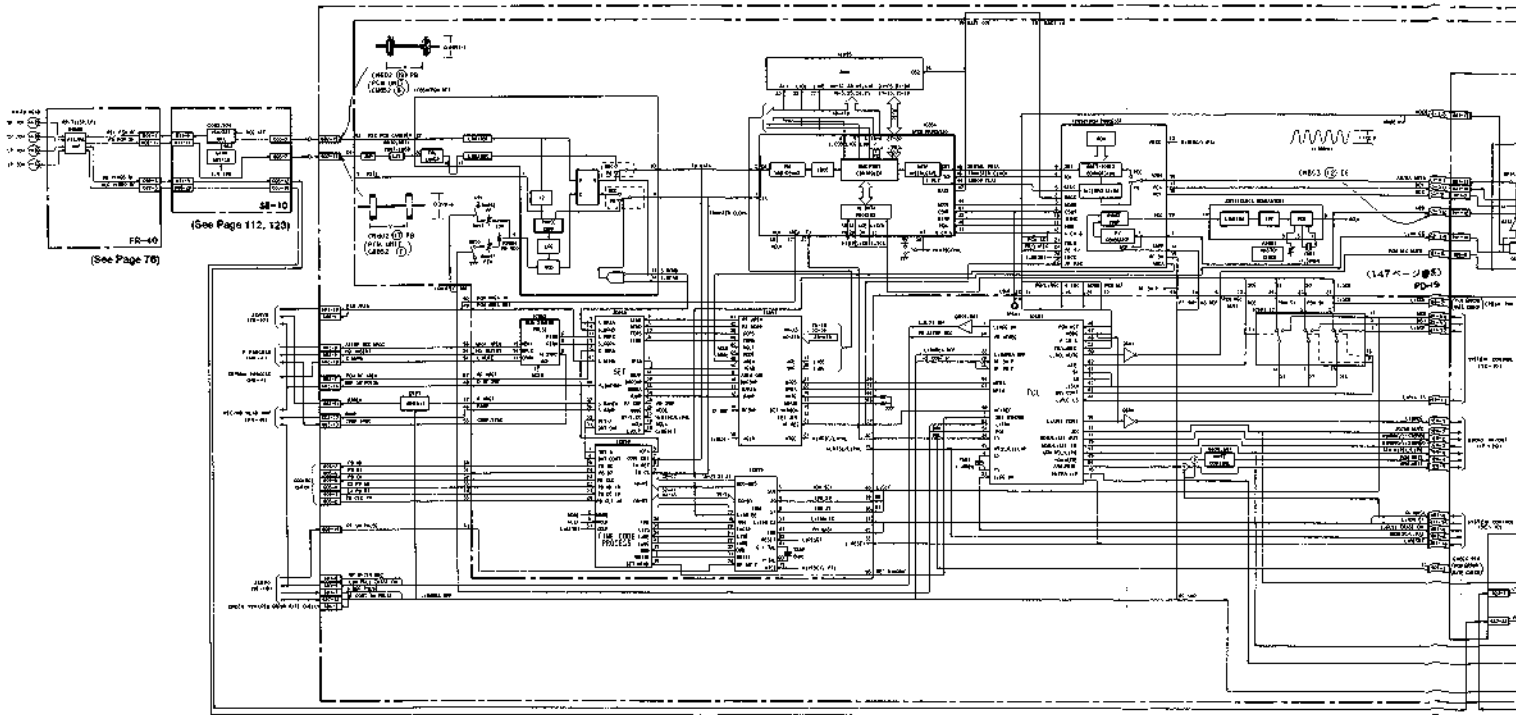
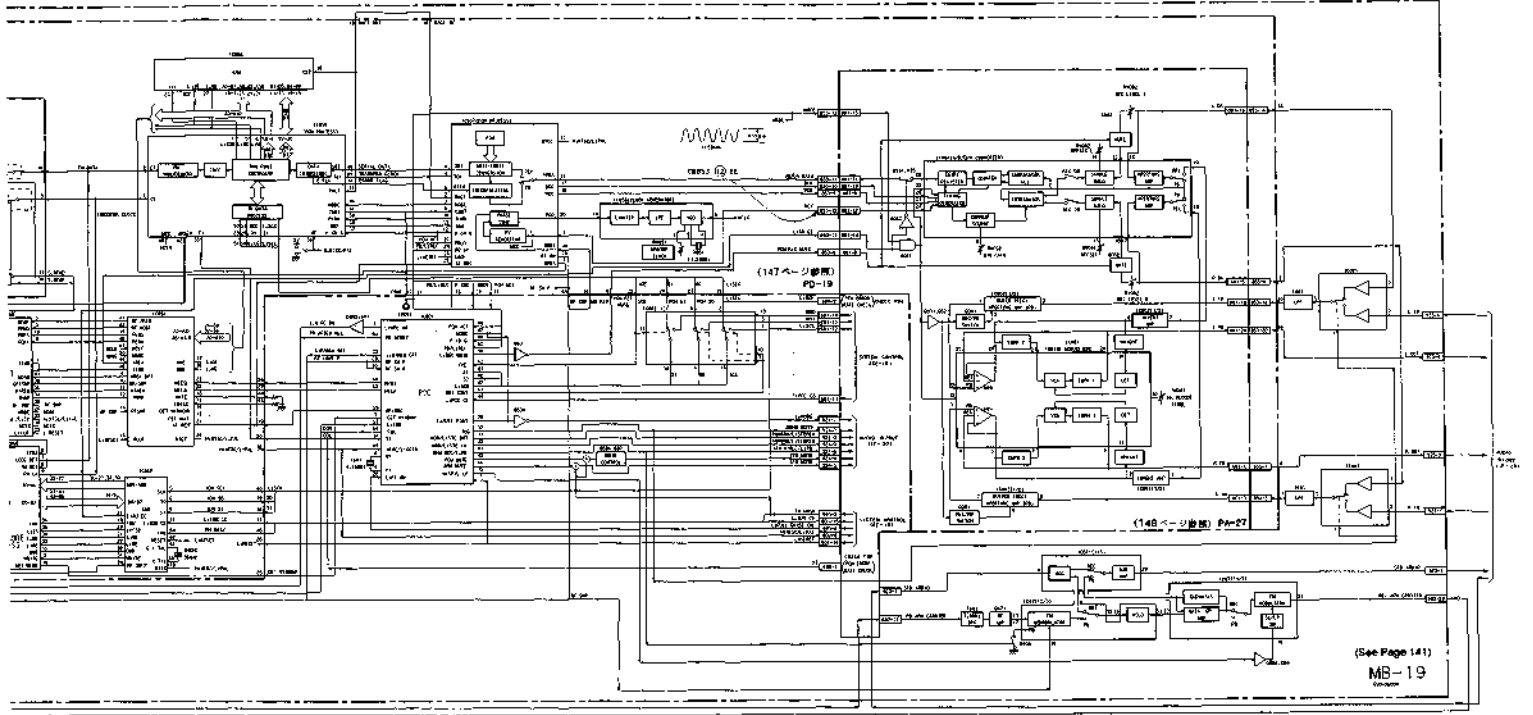


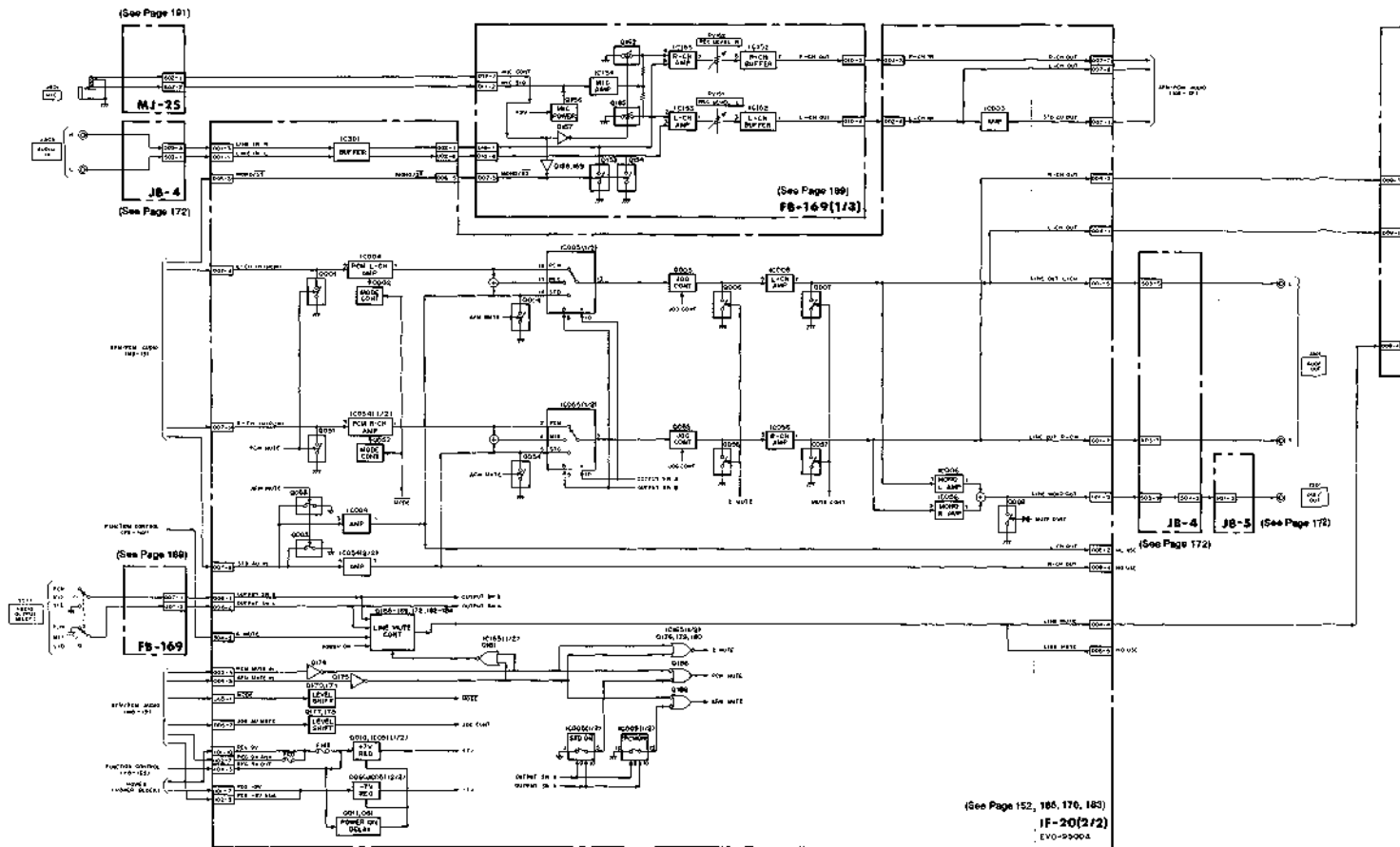
Fig. 3-1

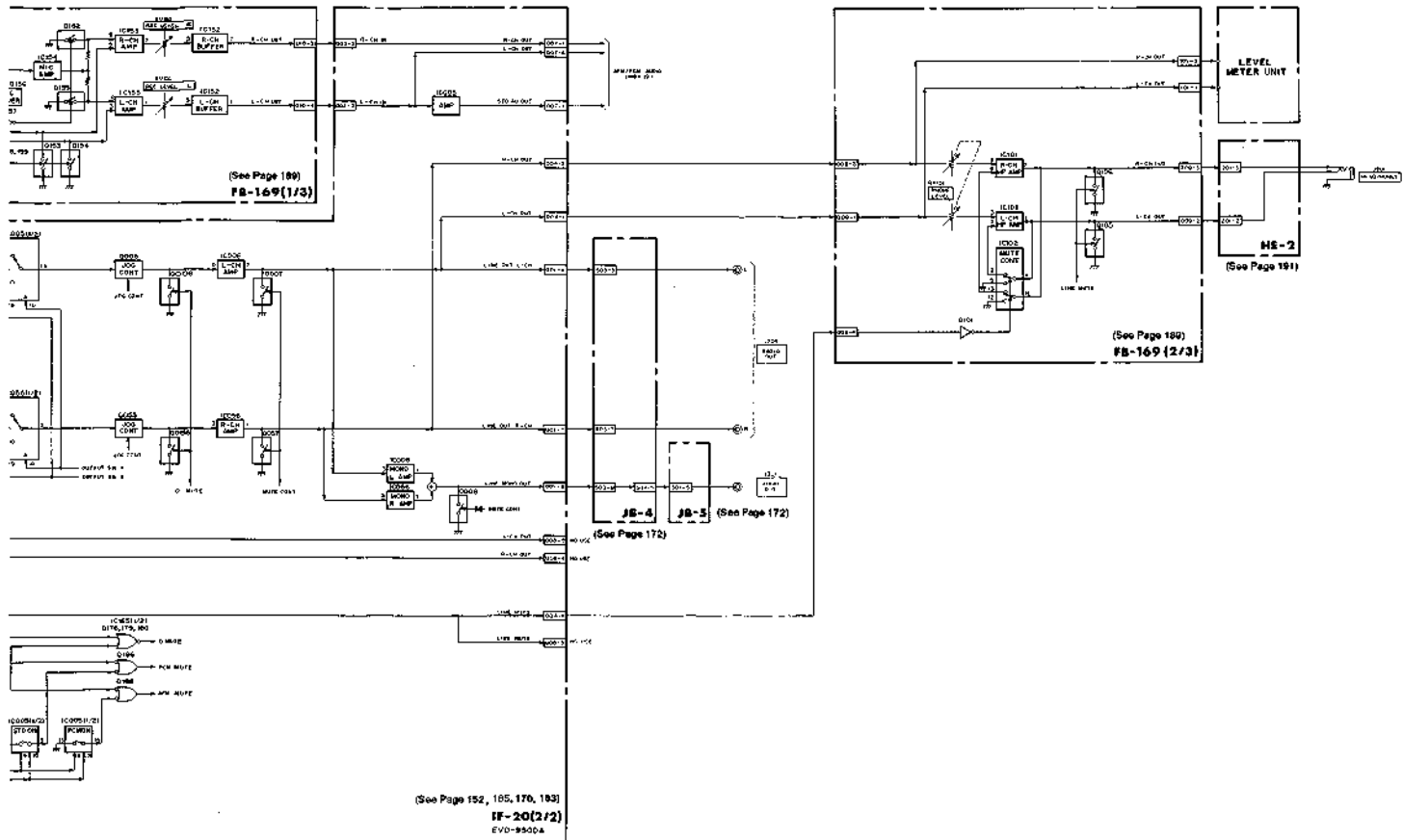
3-26. AFM/PCM AUDIO BLOCK DIAGRAM

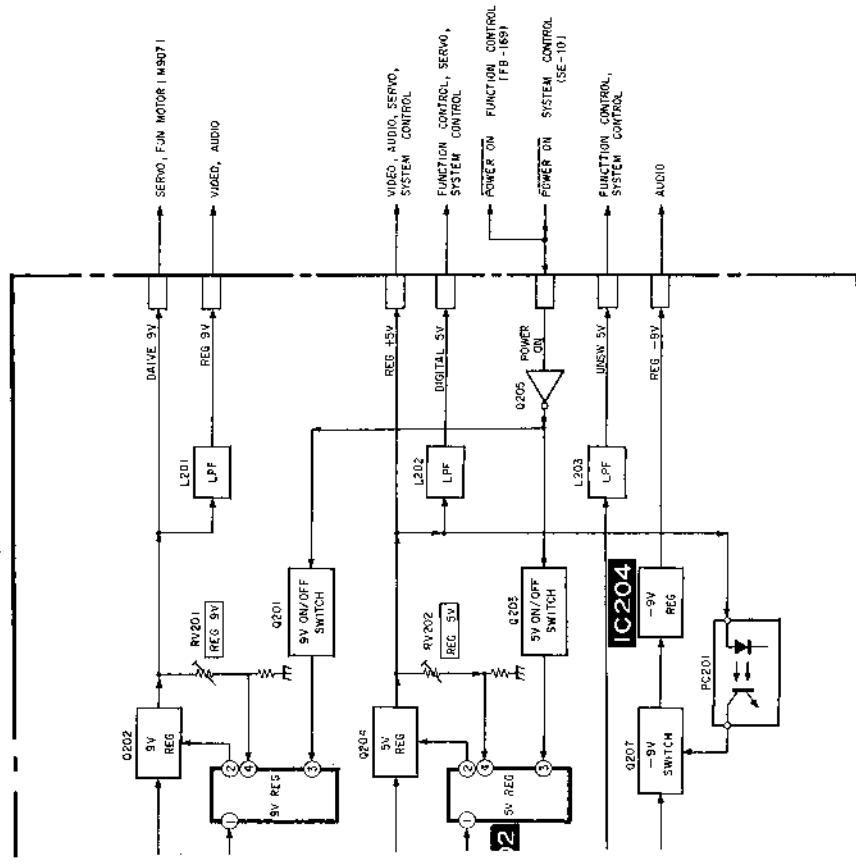




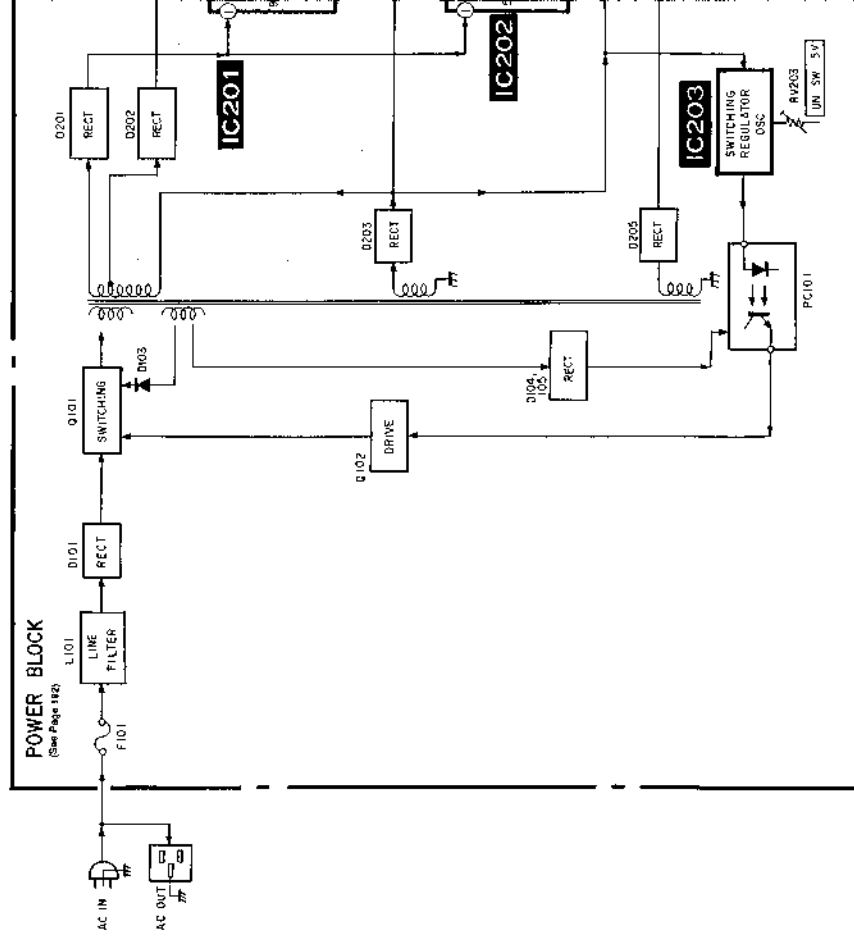
3-27. AUDIO IN/OUT BLOCK DIAGRAM





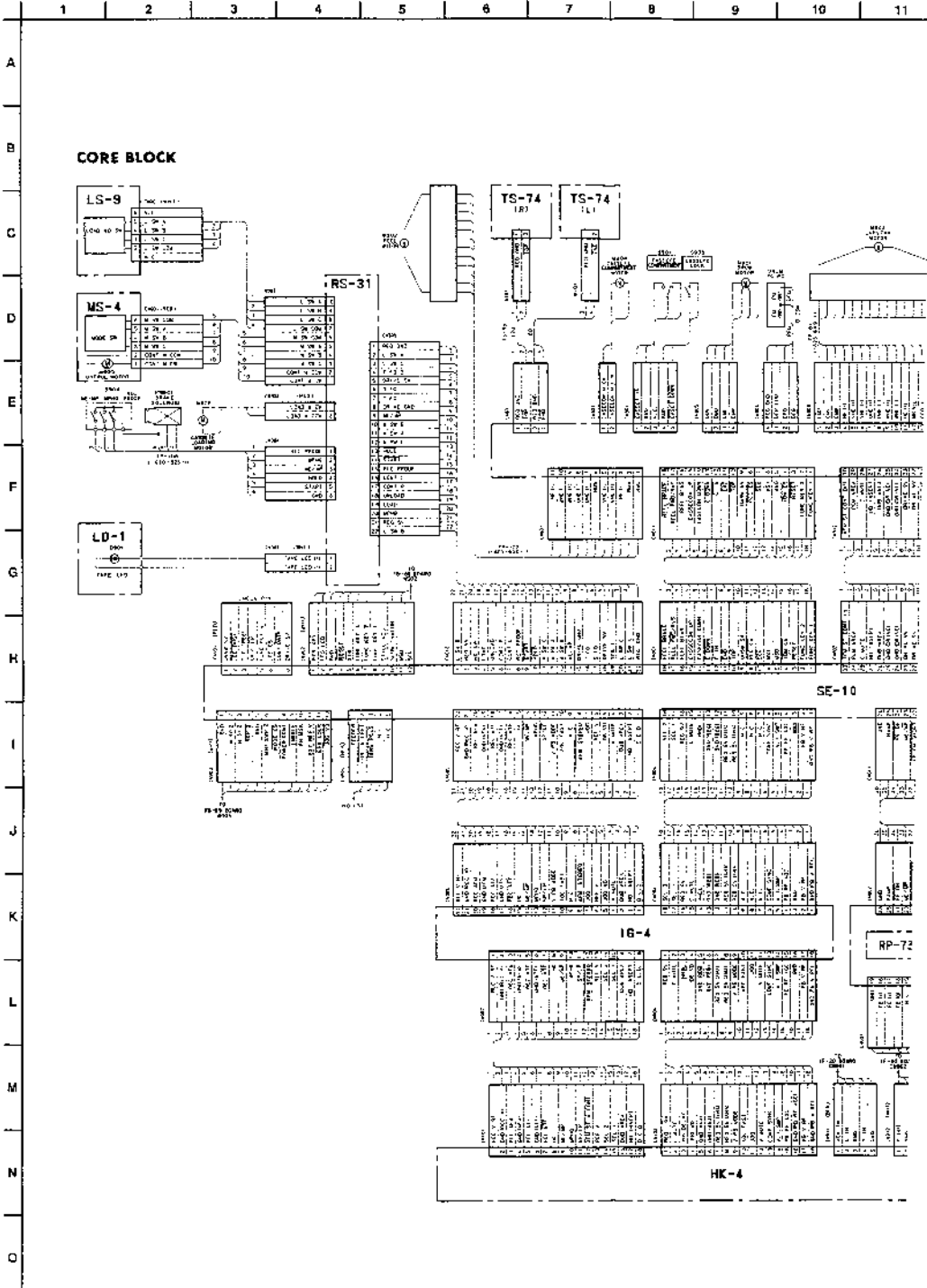


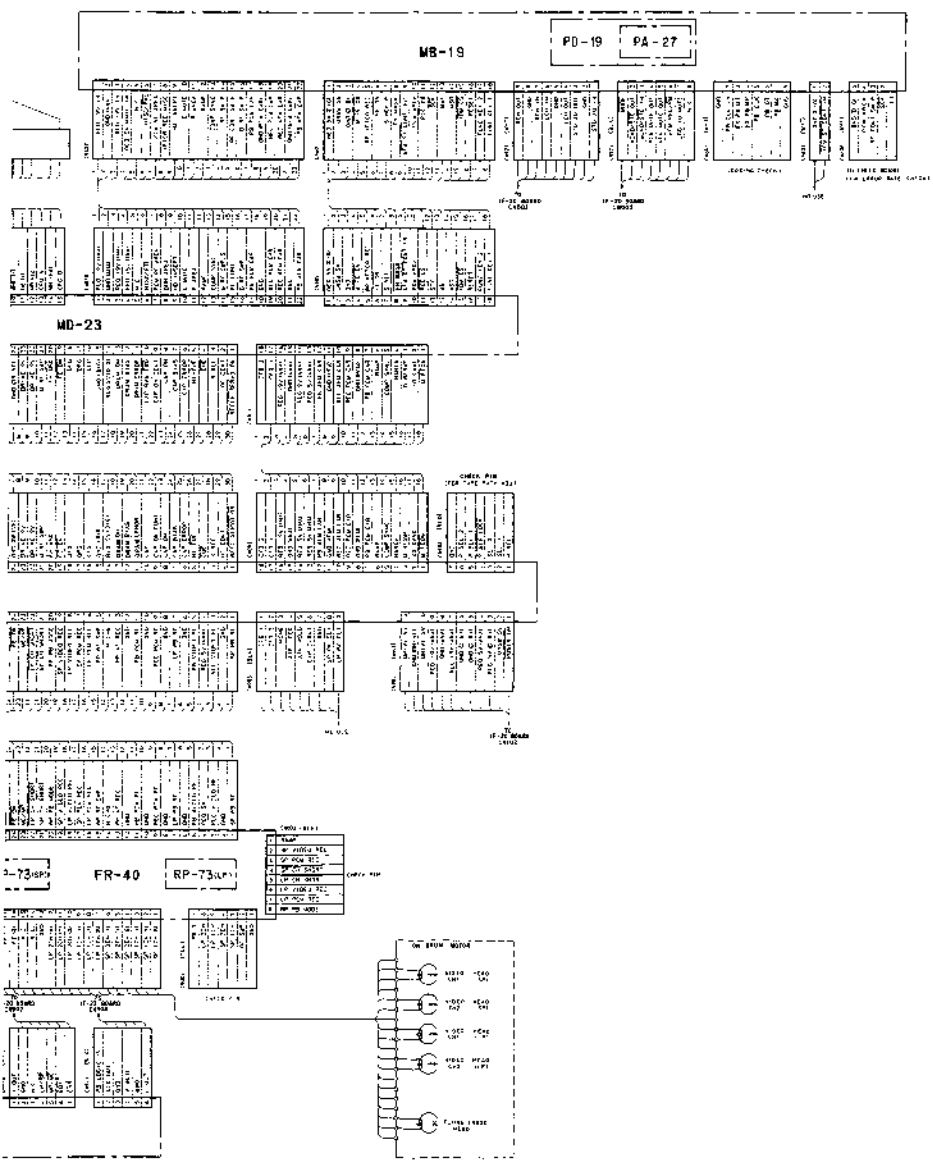
3-28. POWER BLOCK DIAGRAM



SECTION 4
PRINTED WIRING AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAM





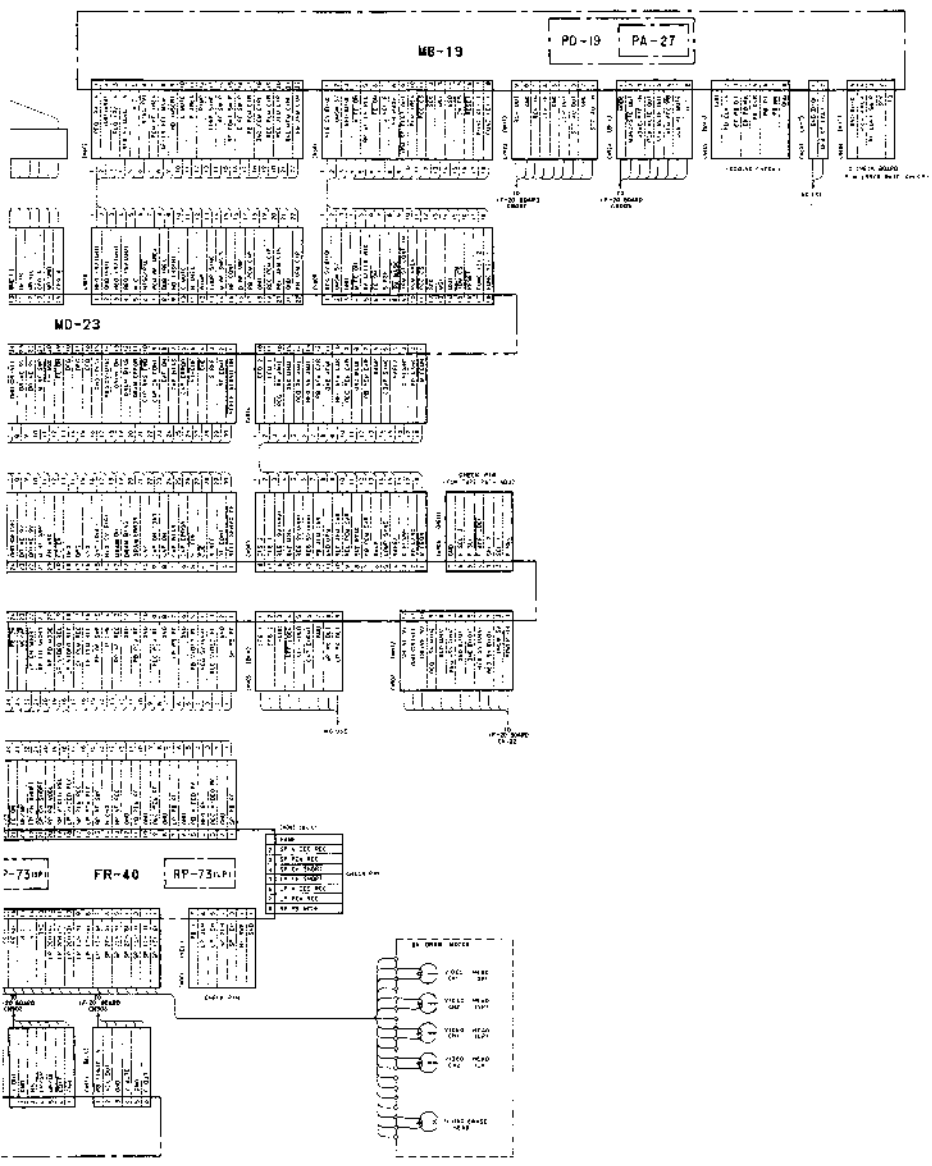
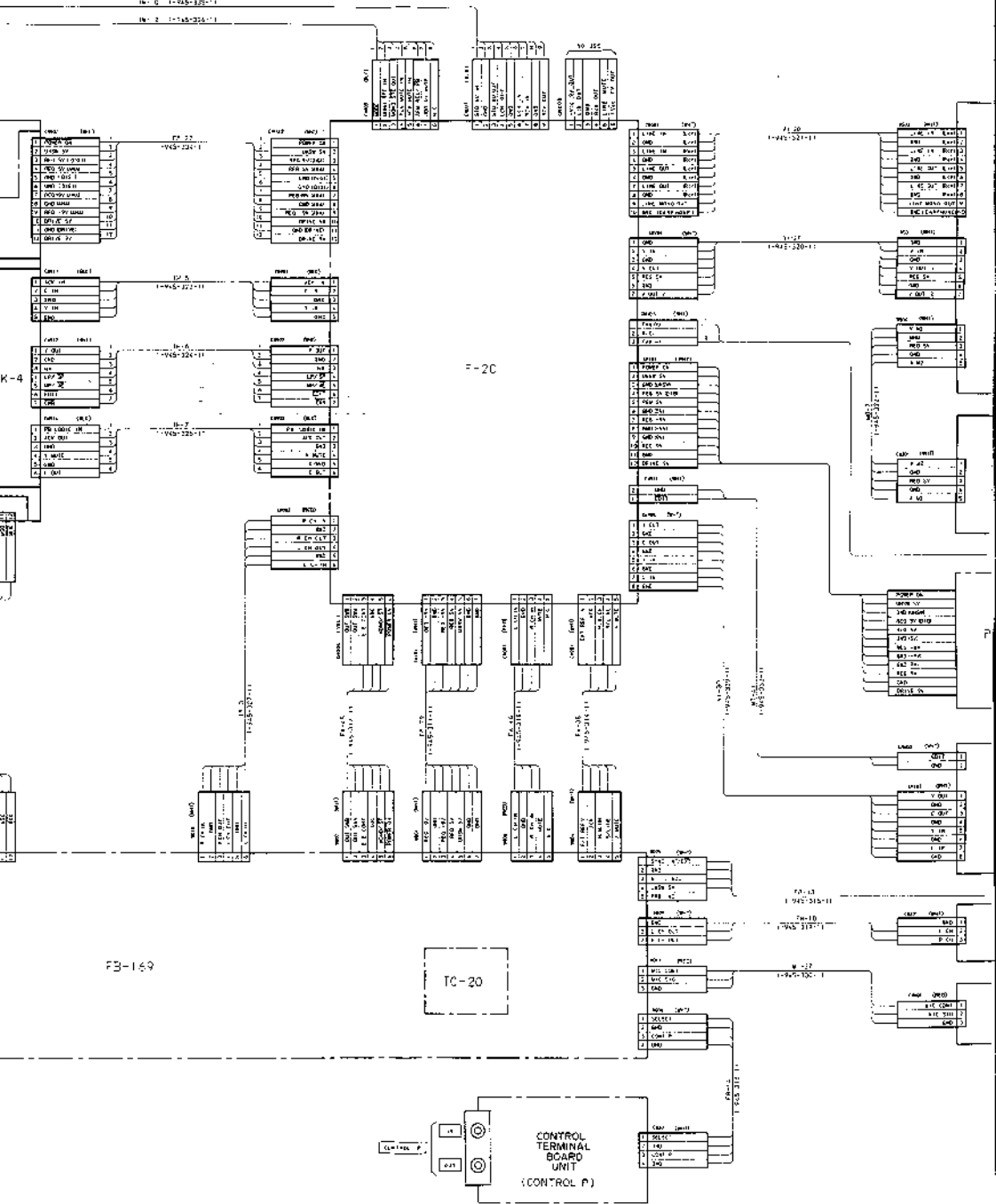


Fig. 1 1-945-325-1

Fig. 2 1-945-325-1



K-4

-20

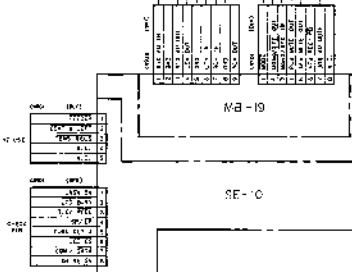
FB-169

TC-20

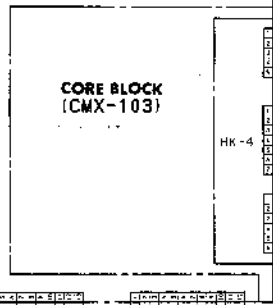
CONTROL TERMINAL BOARD UNIT (CONTROL P)

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

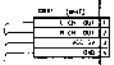
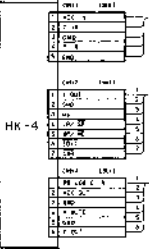
EDITOR BLOCK



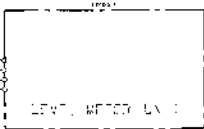
CORE BLOCK (CMX-103)

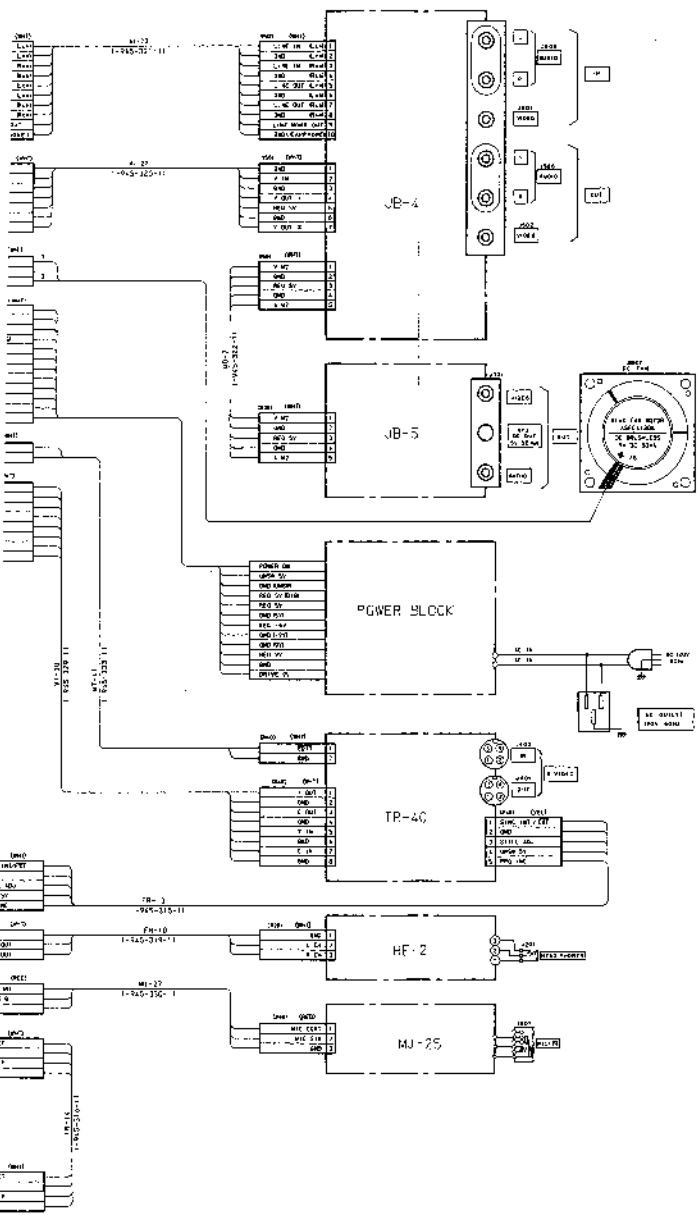


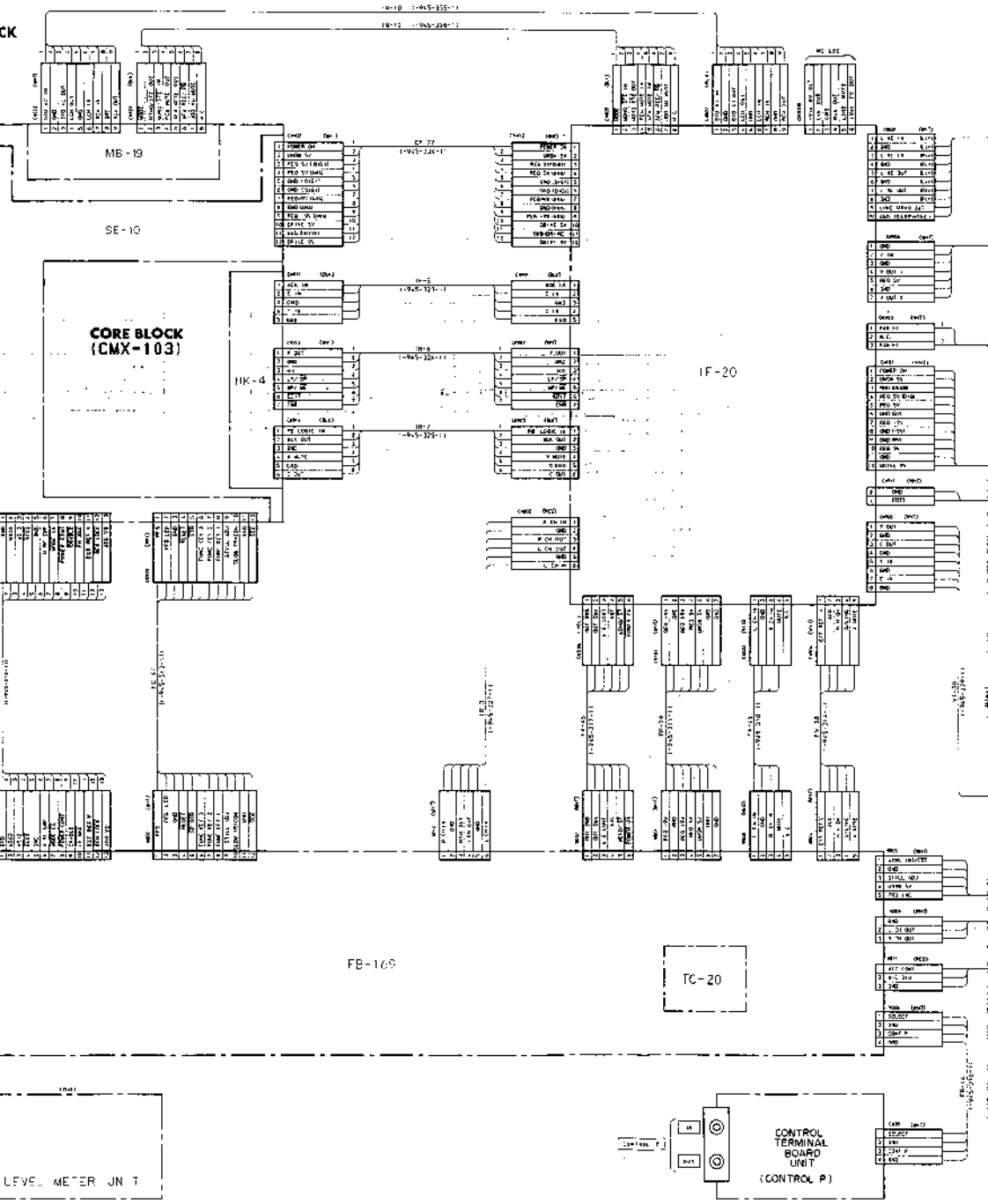
HK-4



FD-160







LEVEL METER JN T

TC-20

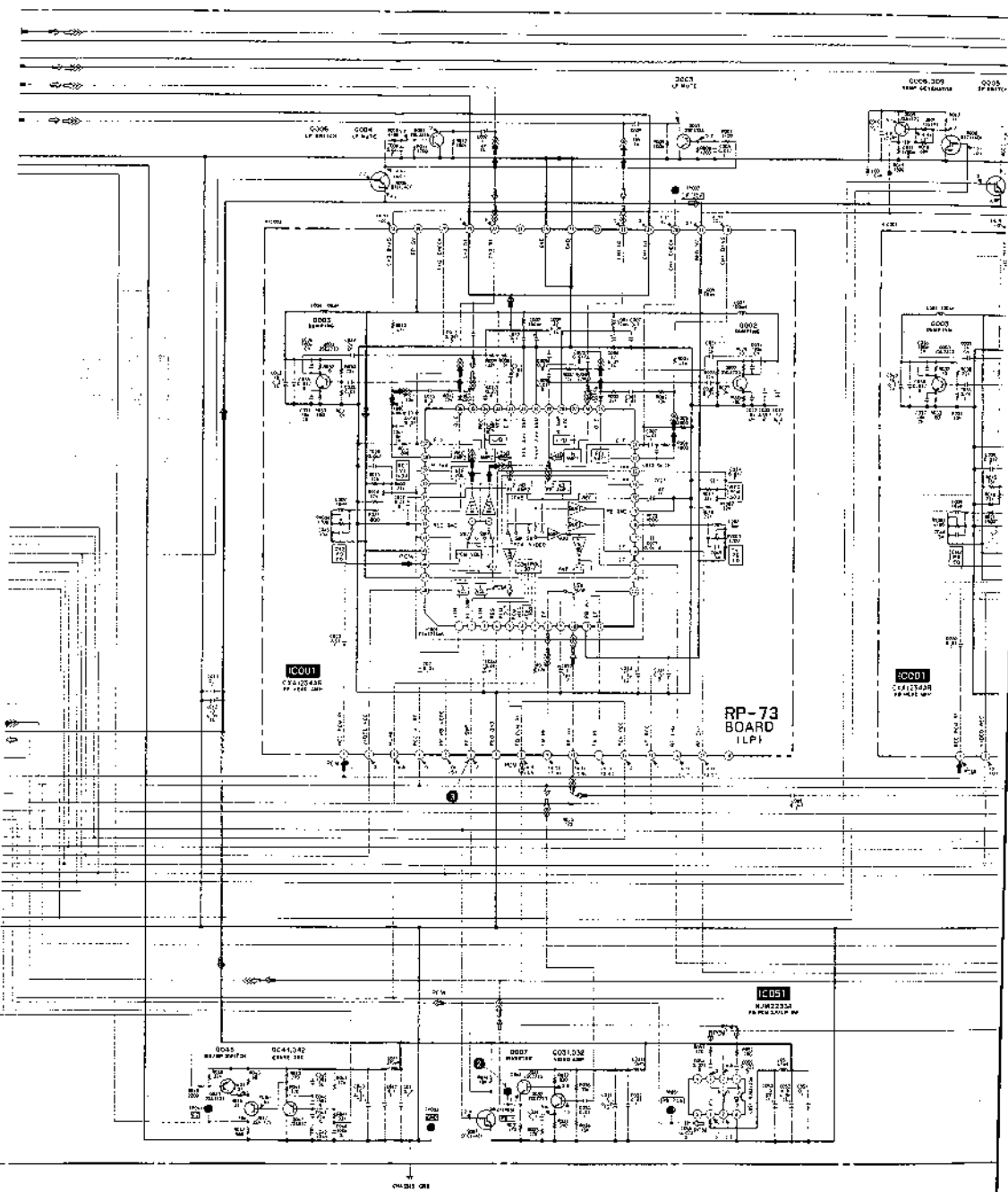
CONTROL TERMINAL BOARD UNIT
(CONTROL P)

1 IN
2 OUT
3 IN
4 OUT

), RP-73 (LP) (HEAD AMP) SCHEMATIC DIAGRAMS

4	5	6	7	8	9	10	11	12	13	14	15
---	---	---	---	---	---	----	----	----	----	----	----

See RP-73(LP) BOARD, 3000 series —



NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.

In addition to this, the necessary note is printed in block.

Printed wiring boards.

- Indicated a lead wire mounted on the component side.
- Indicated a lead wire mounted on the conductor side
- Through hole.
- Parts mounted on the conductor side.
- Pattern from the side which enables seeing.
- Pattern of the rear side.
- See numbers refer to waveforms.

Parts on the pattern face side seen from the pattern face are indicated.
Parts on the parts face side seen from the pattern face are indicated.

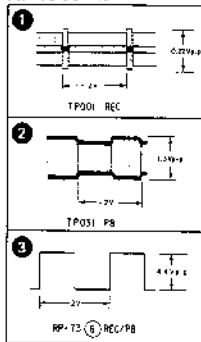
Schematic diagrams.

- Parts to be replaced when replacing chip parts.
- Parts must be attached after removal of chip.
- Careful not to heat the minute side of tantalum capacitor.
- Use it is damaged by the heat.
- Resistors are in ohms, 1/4W unless otherwise noted.
- Resistor are 1/10W unless otherwise noted
- 1000Ω, MQ: 1000Ω.
- Capacitors are in μF unless otherwise noted, pF: μ pF.
- or less are not indicated except for electrolytic and Alums.
- Stable and adjustable resistors have characteristic curve B, as otherwise noted.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.
- : internal component.
- : adjustment for repair.
- : B-Line
- : B-Line
- : (IN/DUT direction of (-, -) S LINE.
- See numbers refer to waveforms.
- See page 40 between ground and measurement points.
- Waveforms are taken with a color-bar signal input.
- Waveforms are taken with a digital multimeter (DC10MD)
- Waveforms are taken with a VOM (input impedance 10MΩ)
- Waveform variations may be noted due to normal production tolerances.

Note:
Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifique.

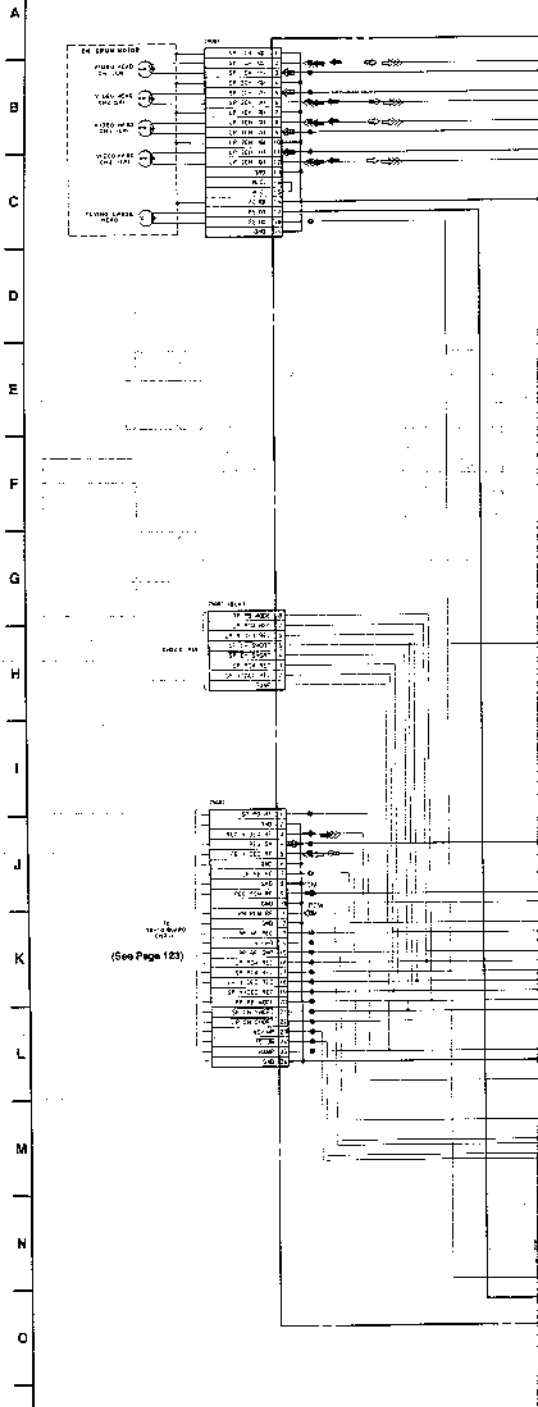
Indicating parts by reference number, please include the name.

FR-40 BOARD



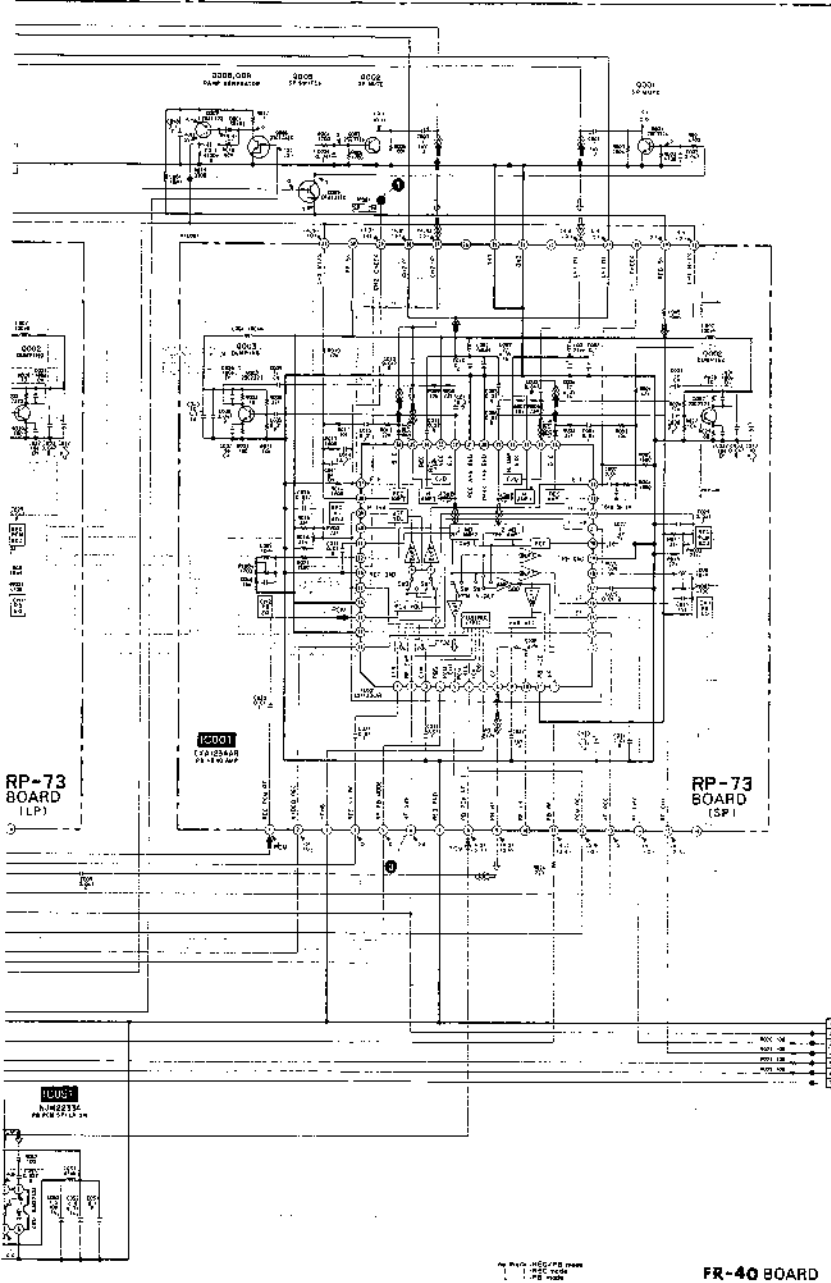
1 2 3 4 5 6

— Ref. No. FR-40 BOARD: 1000 series, RP-73(SP) BOARD: 3000 series, RP-73(LP) BOARD: 5000 series —



• SIGNAL PATH

	VIDEO SIGNAL		AUDIO SIGNAL
	CHROMA	Y / YCHROMA/DATA	
REC	→→→	→→→	→
PB	→→→	→→→	→



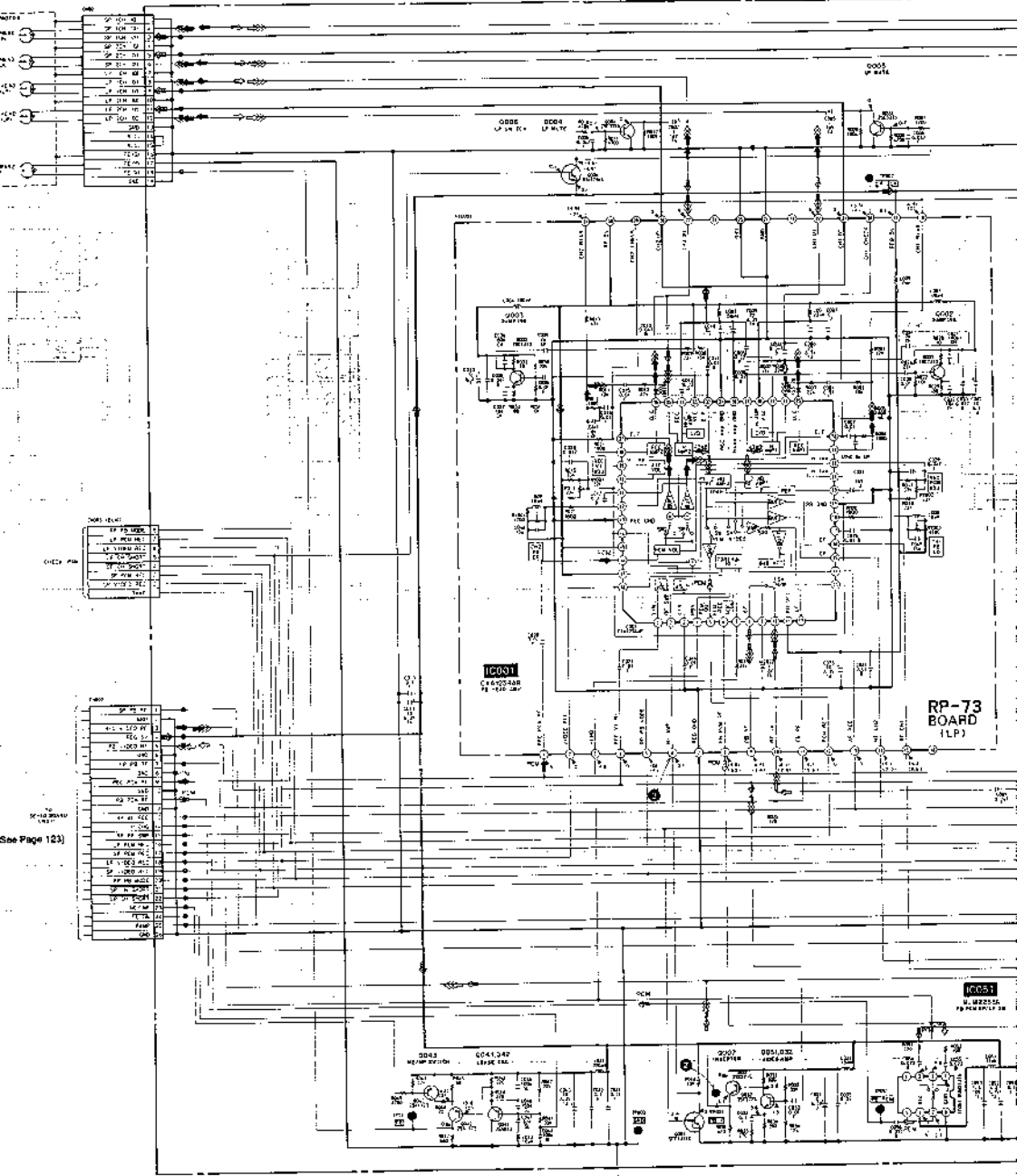
RP-73 BOARD (ILP)

RP-73 BOARD (SP1)

FR-40 BOARD

CONNECTION TABLE

1	REC 06
2	REC 08
3	REC 10
4	REC 12
5	REC 14
6	REC 16
7	REC 18
8	REC 20
9	REC 22
10	REC 24
11	REC 26
12	REC 28
13	REC 30
14	REC 32
15	REC 34
16	REC 36
17	REC 38
18	REC 40
19	REC 42
20	REC 44
21	REC 46
22	REC 48
23	REC 50
24	REC 52
25	REC 54
26	REC 56
27	REC 58
28	REC 60
29	REC 62
30	REC 64
31	REC 66
32	REC 68
33	REC 70
34	REC 72
35	REC 74
36	REC 76
37	REC 78
38	REC 80
39	REC 82
40	REC 84
41	REC 86
42	REC 88
43	REC 90
44	REC 92
45	REC 94
46	REC 96
47	REC 98
48	REC 100



See Page 123)

FR-40 (VIDEO HEAD AMP), RP-73 (SP) (HEAD AMP), RP-73 (LP) (HEAD AMP) PRINTED WIRING BOARD

— Ref No. FR-40 BOARD: 1000 series, RP-73(SP) BOARD: 2000 series, RP-73(LP) BOARD: 3000 series —

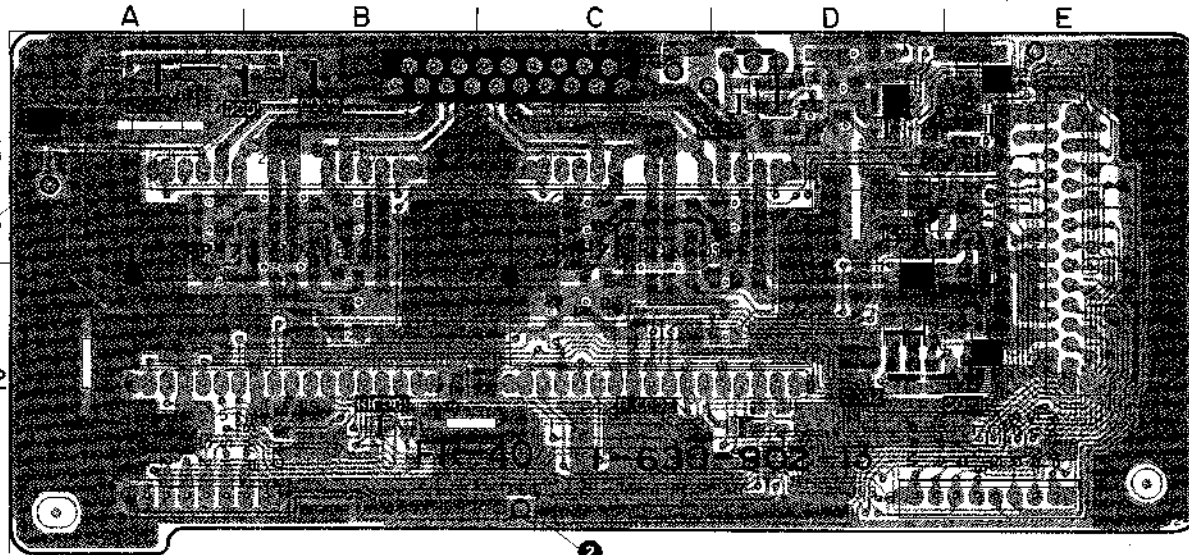
FR-40 BOARD (COMPONENT SIDE)

FR-40 BOARD
(COMPONENT
SIDE)

D001 A-1
1C001 D-1
Q001 B-1
Q002 A-1
Q003 B-2
Q004 D-1

FR-40 BOARD
(CONDUCTOR
SIDE)

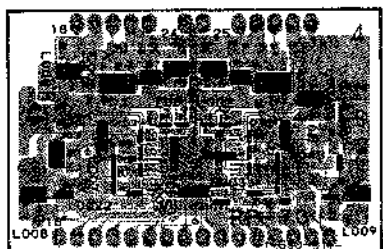
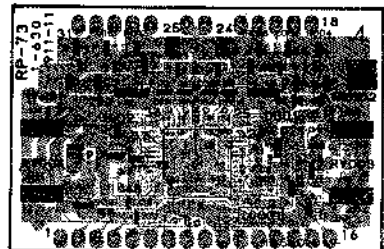
Q001 B-1
Q002 A-2
Q003 D-2
Q004 C-1
Q005 B-2
Q006 C-2
Q007 L-1
Q008 L-1
Q009 D-1
Q010 D-1



FR-40 BOA



RP-73 BOARD (SP), (LP) (COMPONENT SIDE) RP-73 BOARD (SP), (LP) (CONDUCTOR SIDE)



A-7061-827-A RP-73 (SP) BOARD, COMPLETE

(DIODE)

D001 8-719-801-41 DIODE 1SS196
D002 8-719-801-41 DIODE 1SS196

(IC)

1C001 8-752-033-00 IC CXA1234AR

(TRANSISTOR)

Q002 8-728-102-07 TRANSISTOR 2SC2223-F1S
Q003 8-728-102-07 TRANSISTOR 2SC2223-F1S

A-7061-827-A RP-73 (LP) BOARD

(DIODE)

D001 8-719-801-41 DIODE
D002 8-719-801-41 DIODE

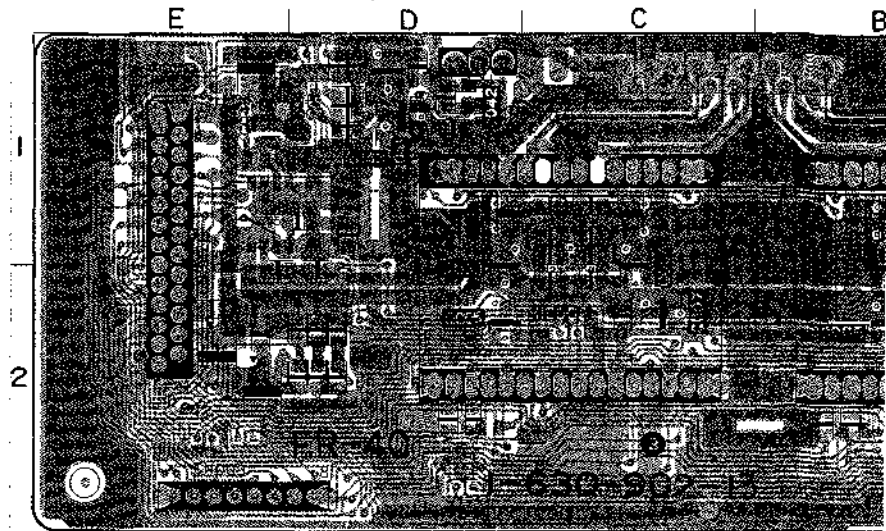
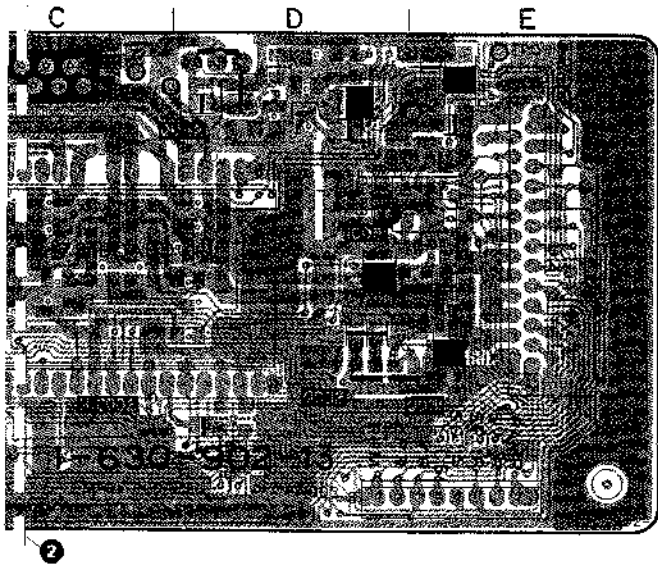
(IC)

1C001 8-752-033-00 IC CXA

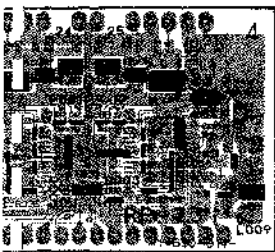
(TRANSISTOR)

Q002 8-728-102-07 TRANSISTOR
Q003 8-728-102-07 TRANSISTOR

FR-40 BOARD (CONDUCTOR SIDE)



BOARD (SP),(LP) (CONDUCTOR SIDE)

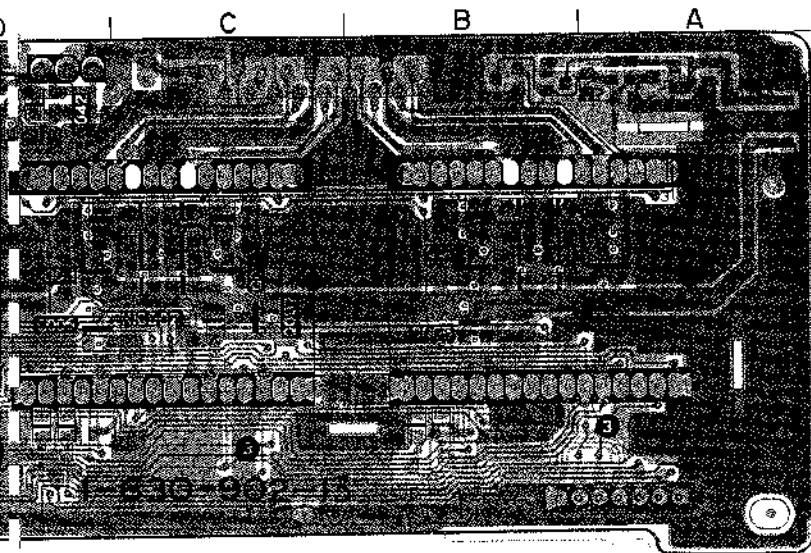


A-7061-822-A RP-73 (SP) BOARD, COMPLETE

	(DIODE)
D001	8-719-801-41 DIODE 1SS198
D002	8-719-801-41 DIODE 1SS198
	(IC)
IC001	8-752-033-00 IC CX11234AR
	(TRANSISTOR)
Q002	8-729-102-07 TRANSISTOR 2SC2223-F13
Q003	8-729-102-07 TRANSISTOR 2SC2223-F13

A-7061-827-A RP-73 (LP) BOARD, COMPLETE

	(DIODE)
D001	8-719-801-41 DIODE 1SS196
D002	8-719-801-41 DIODE 1SS196
	(IC)
IC001	8-752-033-00 IC CX11234AR
	(TRANSISTOR)
Q002	8-729-102-07 TRANSISTOR 2SC2223-F13
Q003	8-729-102-07 TRANSISTOR 2SC2223-F13



4 A-7081-821-A FR-40 BOARD, COMPLETE

(DIODE)

D001 8-719-400-16 DIODE MMS27K

(IC)

I005I 8-759-710-08 IC ALM2239AM

(TRANSISTOR)

0001 8-729-202-38 TRANSISTOR 2SC3330M
 0002 8-729-202-38 TRANSISTOR 2SC3330M
 0003 8-729-202-38 TRANSISTOR 2SC3330M
 0004 8-729-202-38 TRANSISTOR 2SC3330M
 0005 8-729-901-05 TRANSISTOR DTA124EX

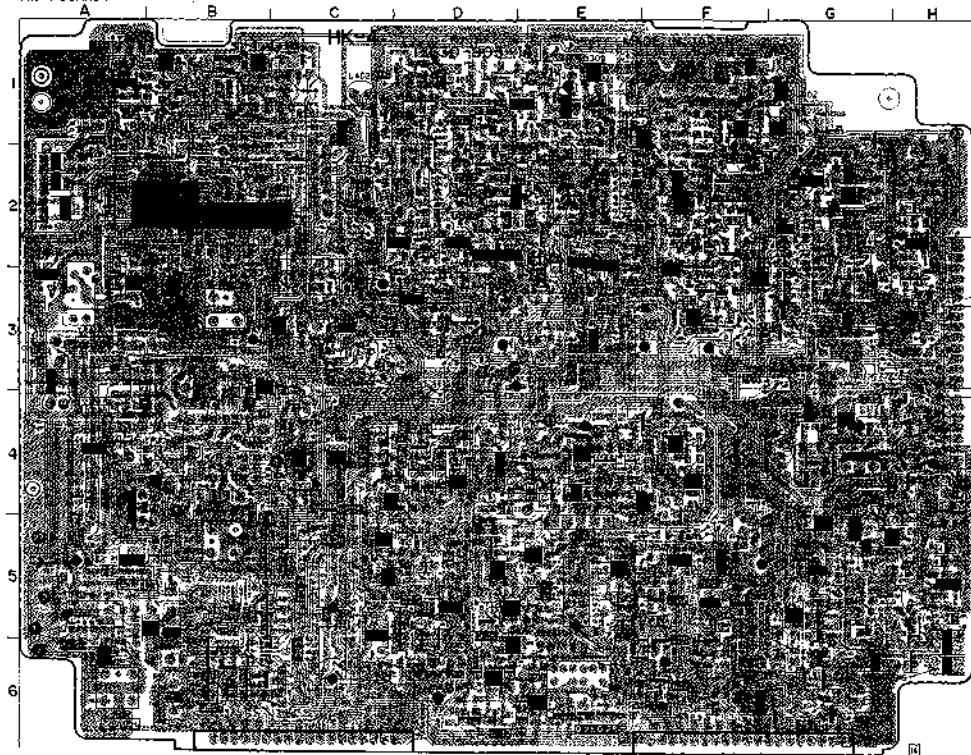
 0006 8-729-901-05 TRANSISTOR DTA124EX
 0007 8-729-901-01 TRANSISTOR DTC144EX
 0008 8-729-901-01 TRANSISTOR DTC144EX
 0009 8-729-320-11 TRANSISTOR 2SA1120D
 0031 8-729-204-21 TRANSISTOR 2SC2715

 0032 8-729-102-07 TRANSISTOR 2SC2223
 0041 8-729-216-21 TRANSISTOR 2SA1162
 0042 8-729-119-76 TRANSISTOR 2SA1175
 0043 8-729-320-17 TRANSISTOR 2SA1422CD

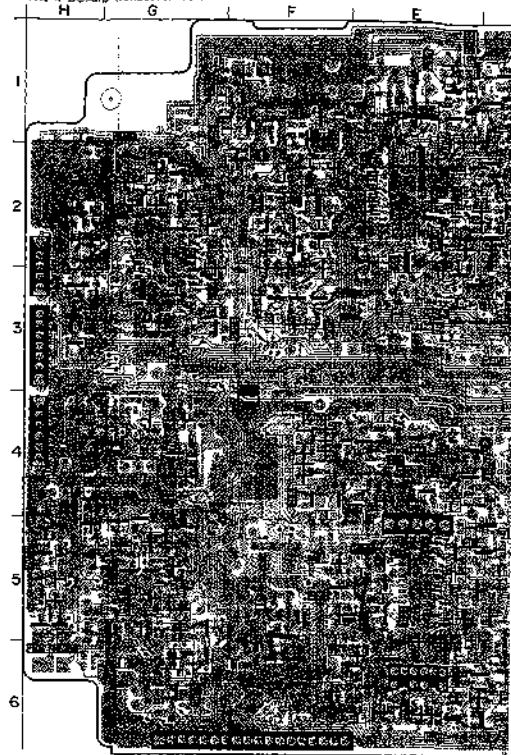
112

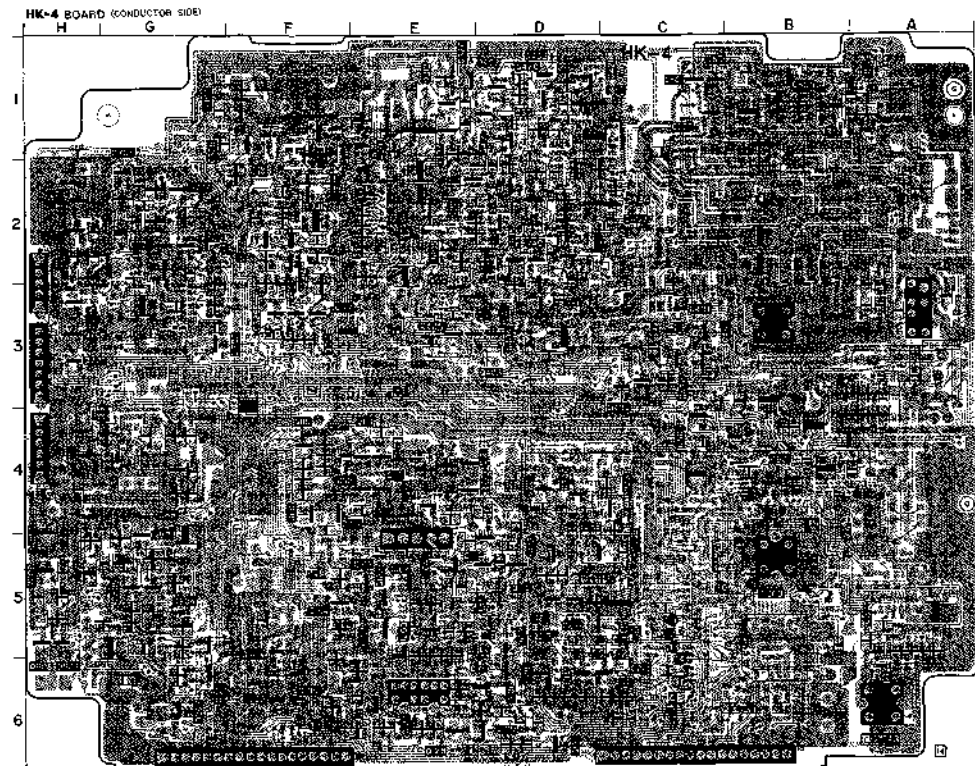
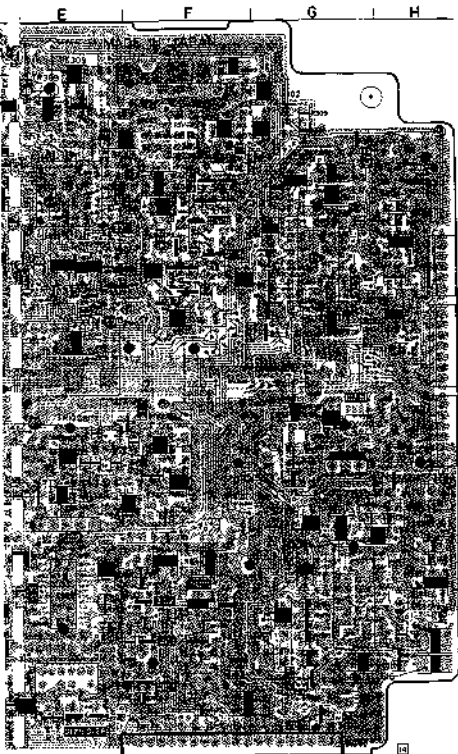
VIDEO PROCESS, VIC/APM MIX) PRINTED WIRING BOARD

HK-4 BOARD (COMPONENT SIDE)



HK-4 BOARD (CONDUCTOR SIDE)

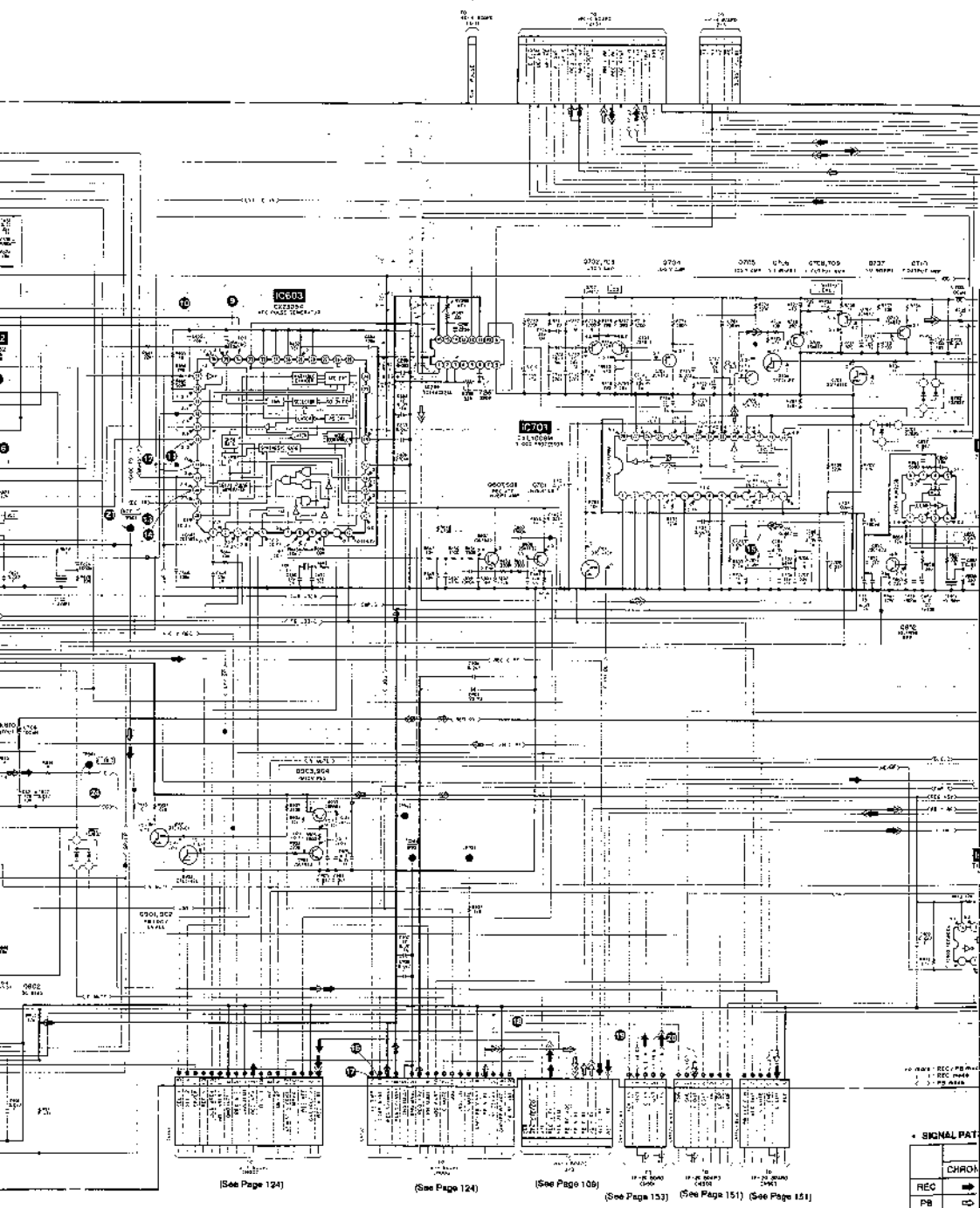




(See Page 108)

(See Page 93)

(See Page 95)



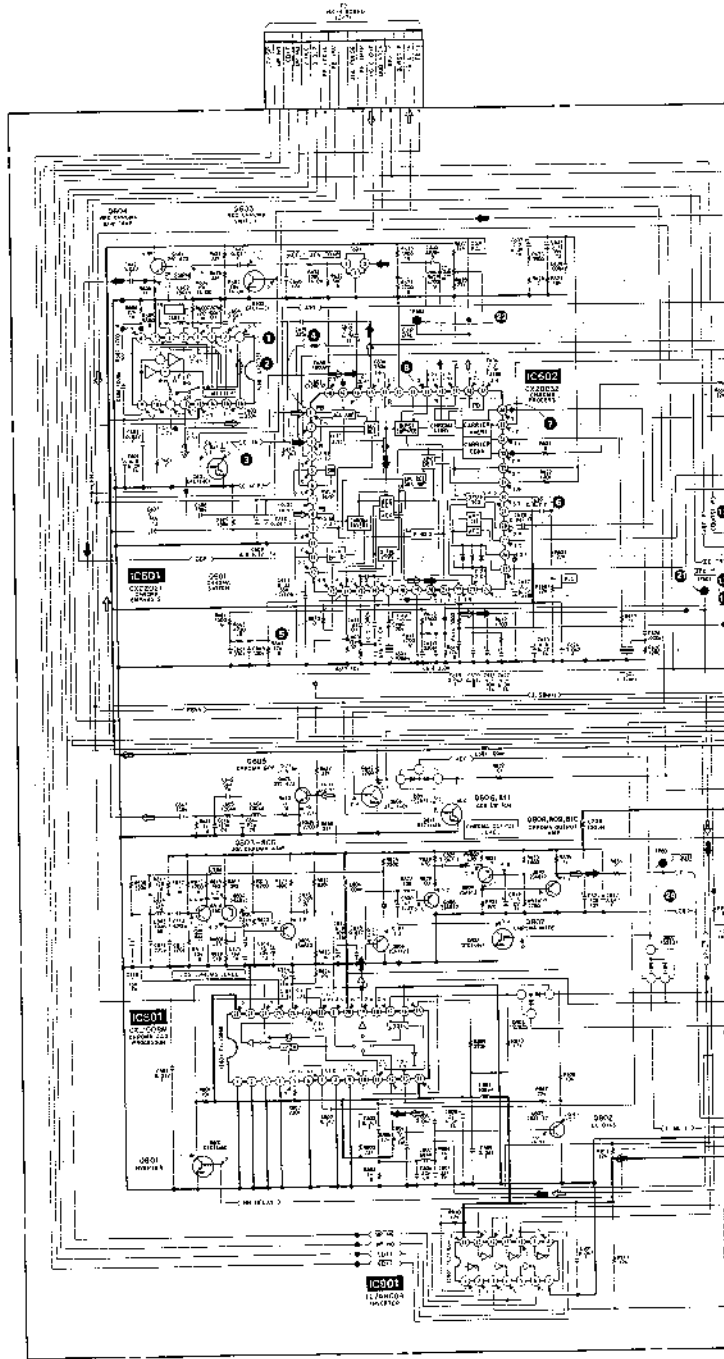
	SIGNAL PAT
CHROM	→
REC	→
PB	→

HK-4 (C VIDEO PROCESS) SCHEMATIC DIAGRAM

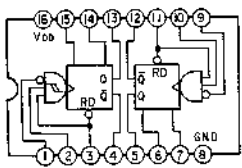
— Ref. No. HK-4 BOARD: 4000 series —

(See Page 84)

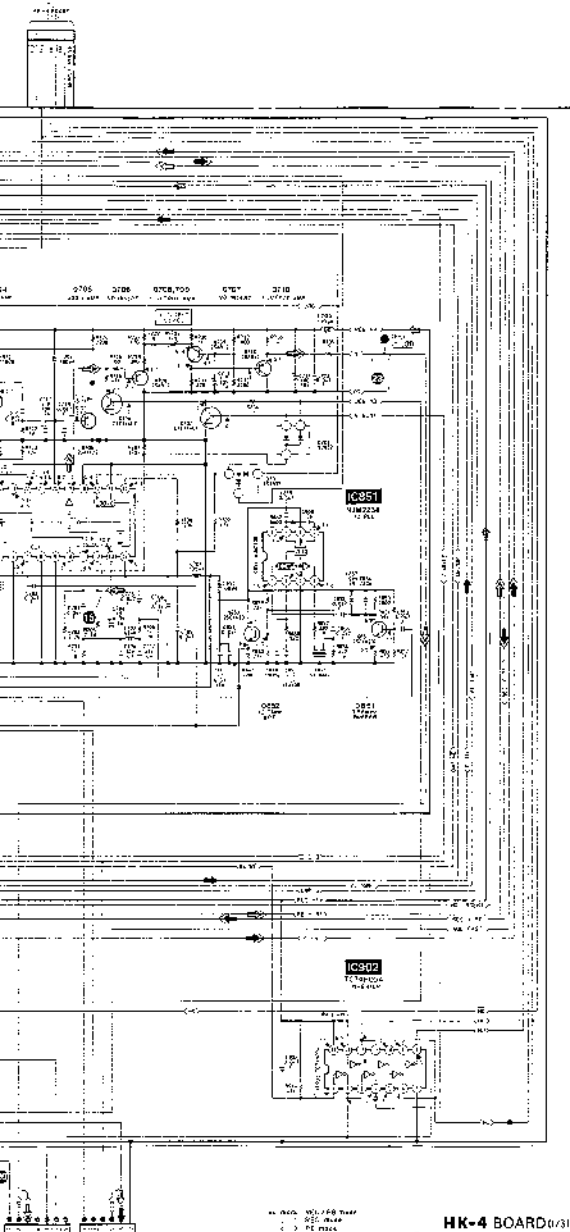
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O



IC299 (TC74HC221AF)



(See Page 95)



REC: REC. (REC. ONLY)
PB: PB (PB ONLY)

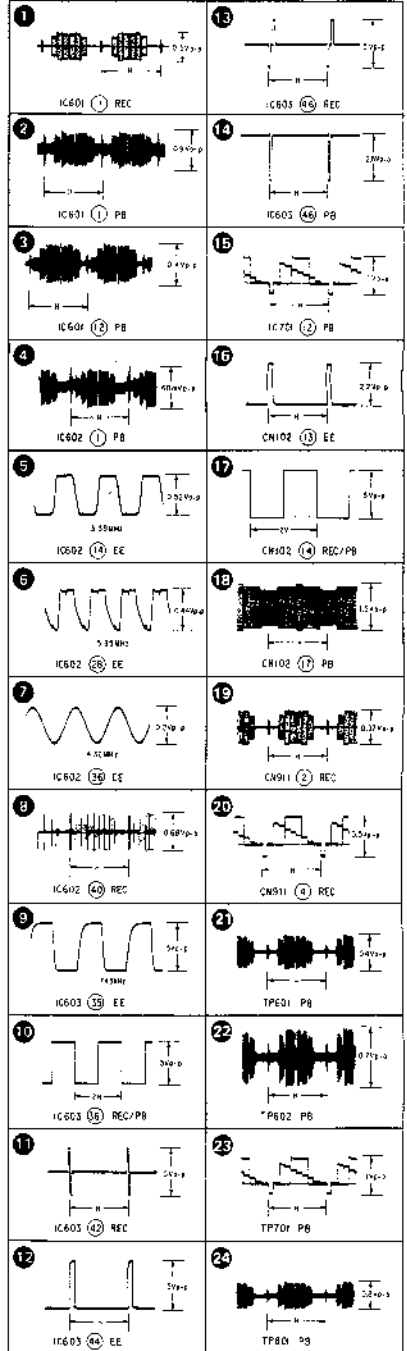
HK-4 BOARD (v3)

SIGNAL PATH

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y, CHROMA/ DATA	
REC	→	→		→
PB	→	→		→

(See Page 151) (See Page 151)

HK-4 BOARD (v3)

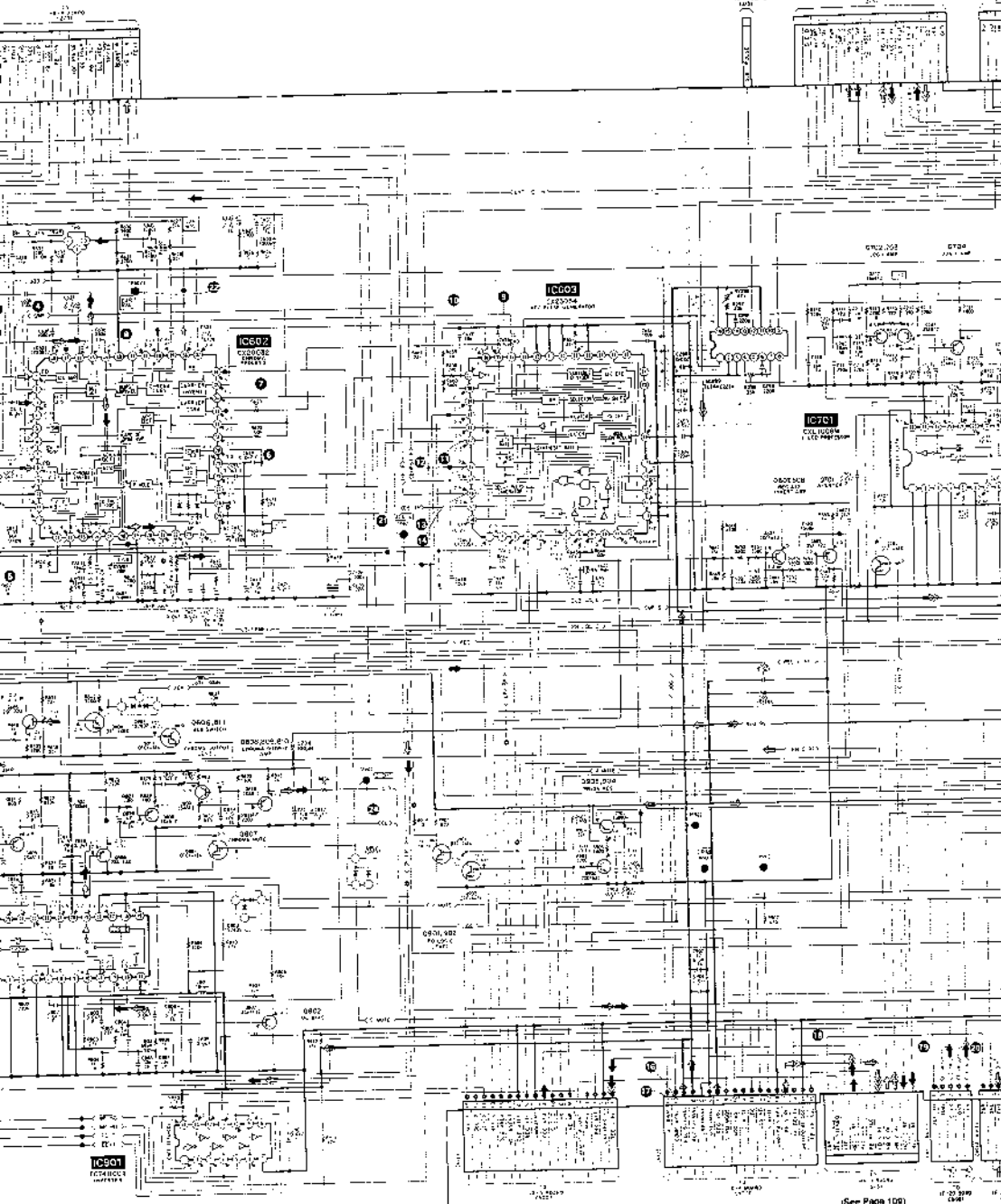


(See Page 94)

(See Page 109)

(See Page 95)

(See Page 96)

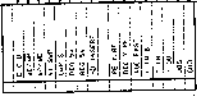
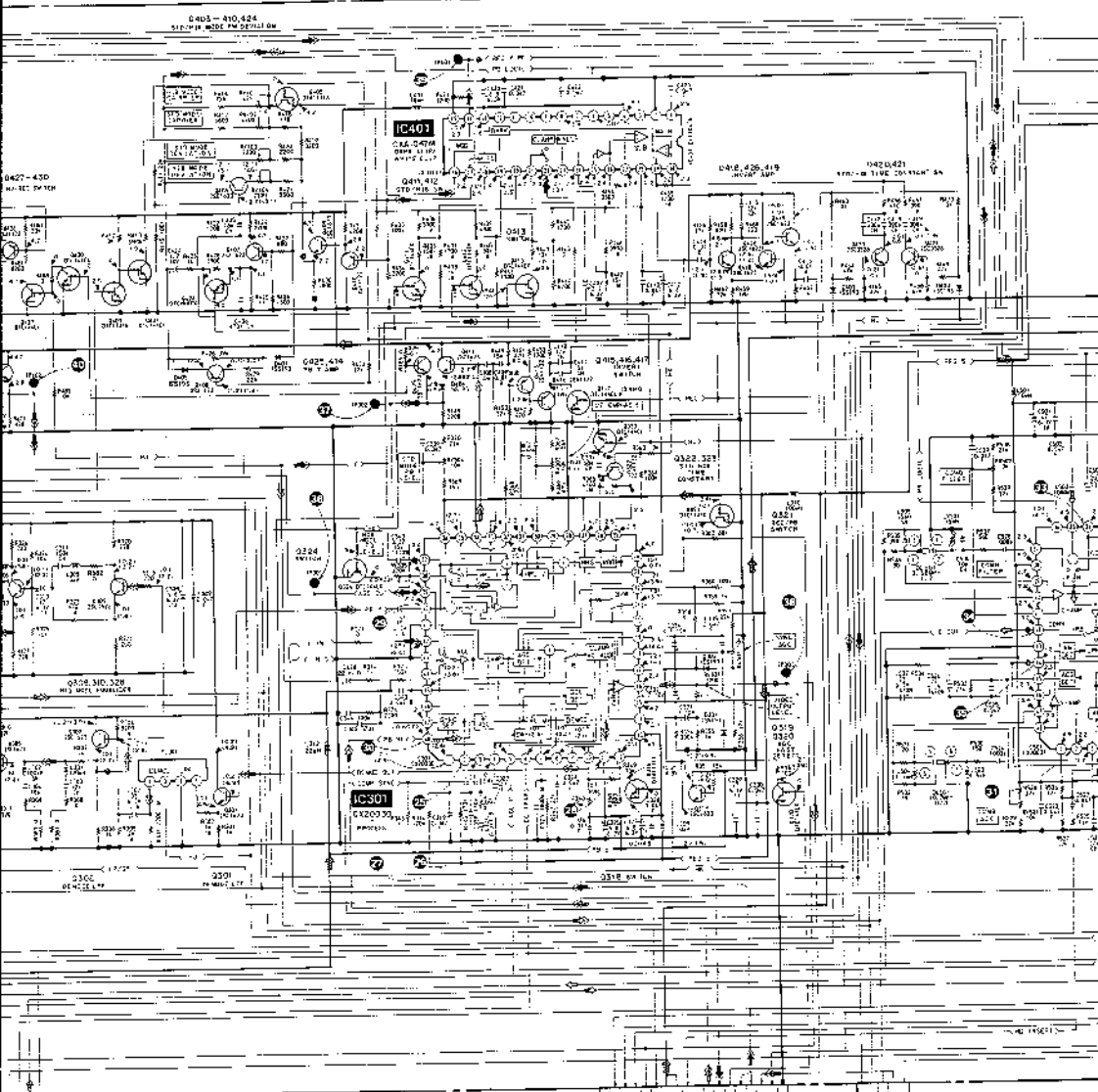


(See Page 124)

(See Page 124)

(See Page 100)

(See Page 153)



(See Page 91)

(See Page 91)

K-4 (IC VIDEO PROCESS, Y VIDEO PROCESS, Y/C(AFM MIX) PRINTED WIRING BOARD

No. HK-4 BOARD: 4000 series

BOARD COMPONENT	HK-4 BOARD (CONDUCTOR SIDE)	HK-4 BOARD (CONDUCTOR SIDE)
01	D-7	D101
02	D-8	D102
03	D-9	D103
04	D-10	D104
05	D-11	D105
06	D-12	D106
07	D-13	D107
08	D-14	D108
09	D-15	D109
10	D-16	D110
11	D-17	D111
12	D-18	D112
13	D-19	D113
14	D-20	D114
15	D-21	D115
16	D-22	D116
17	D-23	D117
18	D-24	D118
19	D-25	D119
20	D-26	D120
21	D-27	D121
22	D-28	D122
23	D-29	D123
24	D-30	D124
25	D-31	D125
26	D-32	D126
27	D-33	D127
28	D-34	D128
29	D-35	D129
30	D-36	D130
31	D-37	D131
32	D-38	D132
33	D-39	D133
34	D-40	D134
35	D-41	D135
36	D-42	D136
37	D-43	D137
38	D-44	D138
39	D-45	D139
40	D-46	D140
41	D-47	D141
42	D-48	D142
43	D-49	D143
44	D-50	D144
45	D-51	D145
46	D-52	D146
47	D-53	D147
48	D-54	D148
49	D-55	D149
50	D-56	D150
51	D-57	D151
52	D-58	D152
53	D-59	D153
54	D-60	D154
55	D-61	D155
56	D-62	D156
57	D-63	D157
58	D-64	D158
59	D-65	D159
60	D-66	D160
61	D-67	D161
62	D-68	D162
63	D-69	D163
64	D-70	D164
65	D-71	D165
66	D-72	D166
67	D-73	D167
68	D-74	D168
69	D-75	D169
70	D-76	D170
71	D-77	D171
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73	D-79	D173
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75	D-81	D175
76	D-82	D176
77	D-83	D177
78	D-84	D178
79	D-85	D179
80	D-86	D180
81	D-87	D181
82	D-88	D182
83	D-89	D183
84	D-90	D184
85	D-91	D185
86	D-92	D186
87	D-93	D187
88	D-94	D188
89	D-95	D189
90	D-96	D190
91	D-97	D191
92	D-98	D192
93	D-99	D193
94	D-100	D194
95	D-101	D195
96	D-102	D196
97	D-103	D197
98	D-104	D198
99	D-105	D199
100	D-106	D200
101	D-107	D201
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114	D-120	D214
115	D-121	D215
116	D-122	D216
117	D-123	D217
118	D-124	D218
119	D-125	D219
120	D-126	D220
121	D-127	D221
122	D-128	D222
123	D-129	D223
124	D-130	D224
125	D-131	D225
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127	D-133	D227
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129	D-135	D229
130	D-136	D230
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156	D-162	D256
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158	D-164	D258
159	D-165	D259
160	D-166	D260
161	D-167	D261
162	D-168	D262
163	D-169	D263
164	D-170	D264
165	D-171	D265
166	D-172	D266
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174	D-180	D274
175	D-181	D275
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410	D-416	D510
411	D-417	D511
412	D-418	D512
413	D-419	D513

4 A-7001-820-A HK-4 BOARD, COMPLETE

(BVIDE)

D101 8-719-400-18 DIODE MA152WK
 D102 8-719-400-18 DIODE MA152WK
 D105 8-719-800-76 DIODE 1S2256
 D106 8-719-400-18 DIODE MA152WK
 D107 8-719-400-18 DIODE MA152WK

D108 8-719-400-18 DIODE MA152WK
 D109 8-719-400-18 DIODE MA152WK
 D301 8-719-400-18 DIODE MA152WK
 D302 8-719-400-18 DIODE MA152WK
 D401 8-719-400-18 DIODE MA152WK

D402 8-719-400-18 DIODE MA152WK
 D403 8-719-400-18 DIODE MA152WK
 D404 8-719-400-18 DIODE MA152WK
 D405 8-719-400-18 DIODE MA152WK
 D501 8-719-400-18 DIODE MA152WK

D701 8-719-104-34 DIODE 1S2836
 D702 8-719-400-18 DIODE 1S2837
 D801 8-719-400-18 DIODE 1S2837
 D802 8-719-400-18 DIODE 1S2837
 D803 8-719-104-34 DIODE 1S2836

D901 8-719-400-18 DIODE MA152WK

(IC)

IC104 8-759-233-94 IC TA8807F
 IC102 8-759-925-60 IC BA411
 IC200 8-759-239-58 IC TC14HC221AF
 IC301 8-752-062-3X IC CX20030
 IC403 8-132-631-01 IC CXA047M

IC501 8-752-003-12 IC CX20031
 IC601 8-752-202-10 IC CX22021
 IC602 8-752-003-22 IC CX20032
 IC603 8-759-914-56 IC CX23054
 IC701 8-752-322-24 IC CX11009M

IC801 8-752-322-24 IC CX11009M
 IC851 8-759-710-05 IC MLR235M
 IC901 8-759-925-74 IC TC74HC04AF
 IC902 8-759-925-74 IC TC74HC04AF

(TRANSISTOR)

Q101 8-729-102-07 TRANSISTOR 2SC2223
 Q102 8-729-901-04 TRANSISTOR DTA144EK
 Q403 8-729-102-07 TRANSISTOR 2SC2223
 Q104 8-729-901-04 TRANSISTOR DTA144EK
 Q105 8-729-904-07 TRANSISTOR FMG2-T-148

Q107 8-729-100-66 TRANSISTOR 2SC1623
 Q110 8-729-901-01 TRANSISTOR DTCL44EK
 Q111 8-729-102-07 TRANSISTOR 2SC2223
 Q112 8-729-901-06 TRANSISTOR DTCL44EK
 Q113 8-729-102-07 TRANSISTOR 2SC2223

Q116 8-729-102-07 TRANSISTOR 2SC2223 0321 8-
 Q117 8-729-102-07 TRANSISTOR 2SC2223 0322 8-
 Q118 8-729-102-07 TRANSISTOR 2SC2223 0323 8-
 Q119 8-729-102-07 TRANSISTOR 2SC2223 0324 8-
 Q120 8-729-102-07 TRANSISTOR 2SC2223 0325 8-

Q121 8-729-100-66 TRANSISTOR 2SC1623 0326 8-
 Q122 8-729-901-01 TRANSISTOR DTCL44EK 0328 8-
 Q123 8-729-901-04 TRANSISTOR DTCL44EK 0401 8-
 Q124 8-729-901-06 TRANSISTOR DTAL44EK 0402 8-
 Q125 8-729-901-01 TRANSISTOR DTCL44EK 0403 8-

Q126 8-729-100-66 TRANSISTOR 2SC1623 0404 8-
 Q127 8-729-100-66 TRANSISTOR 2SC1623 0405 8-
 Q128 8-729-102-07 TRANSISTOR 2SC2223 0406 8-
 Q129 8-729-901-06 TRANSISTOR 2SC1623 0407 8-
 Q130 8-729-907-26 TRANSISTOR 14K1 0408 8-

Q131 8-729-320-17 TRANSISTOR 2SA1122D 0409 8-
 Q132 8-729-202-38 TRANSISTOR 2SC3326M 0410 8-
 Q133 8-729-907-48 TRANSISTOR 1M21 0411 8-
 Q134 8-729-903-10 TRANSISTOR FMB1 0412 8-
 Q135 8-729-320-17 TRANSISTOR 2SA1122D 0413 8-

Q201 8-729-102-07 TRANSISTOR 2SC2223 0414 8-
 Q202 8-729-202-38 TRANSISTOR 2SC3326M 0415 8-
 Q203 8-729-202-38 TRANSISTOR 2SC3326M 0416 8-
 Q204 8-729-904-07 TRANSISTOR FMG2 0417 8-
 Q205 8-729-122-65 TRANSISTOR 2SA1228 0418 8-

Q206 8-729-202-38 TRANSISTOR 2SC3326M 0419 8-
 Q207 8-729-201-27 TRANSISTOR 2SC2715 0420 8-
 Q208 8-729-201-27 TRANSISTOR 2SC2715 0421 8-
 Q209 8-729-102-07 TRANSISTOR 2SC2223 0422 8-
 Q210 8-729-102-07 TRANSISTOR 2SC2223 0423 8-

Q211 8-729-901-01 TRANSISTOR DTCL44EK 0424 8-
 Q212 8-729-901-06 TRANSISTOR DTAL44EK 0425 8-
 Q213 8-729-102-07 TRANSISTOR 2SC2223 0426 8-
 Q214 8-729-902-96 TRANSISTOR FMS1 0427 8-
 Q215 8-729-102-07 TRANSISTOR 2SC2223 0428 8-

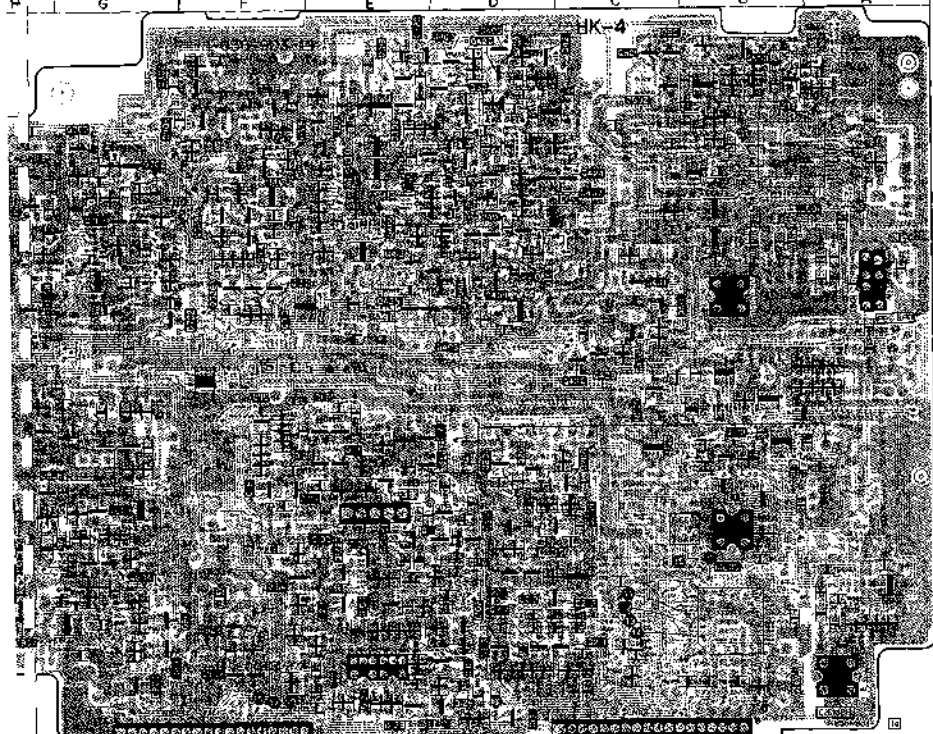
Q216 8-729-102-07 TRANSISTOR 2SC2223 0429 8-
 Q217 8-729-901-01 TRANSISTOR DTCL44EK 0430 8-
 Q218 8-729-901-06 TRANSISTOR DTAL44EK 0431 8-
 Q219 8-729-100-66 TRANSISTOR 2SC1623 0501 8-
 Q220 8-729-100-66 TRANSISTOR 2SC1623 0502 8-

Q305 8-729-100-66 TRANSISTOR 2SC1623 0503 8-
 Q306 8-729-100-66 TRANSISTOR 2SC1623 0504 8-
 Q307 8-729-100-66 TRANSISTOR 2SC1623 0505 8-
 Q308 8-729-100-66 TRANSISTOR 2SC1623 0506 8-
 Q309 8-729-100-66 TRANSISTOR 2SC1623 0507 8-
 Q310 8-729-100-66 TRANSISTOR 2SC1623 0508 8-

Q311 8-729-100-66 TRANSISTOR 2SC1623 0509 8-
 Q312 8-729-904-06 TRANSISTOR DTAL44EK 0607 8-
 Q313 8-729-320-17 TRANSISTOR 2SA1122D 0608 8-
 Q314 8-729-100-66 TRANSISTOR 2SC1623 0701 8-
 Q315 8-729-100-66 TRANSISTOR 2SC1623 0702 8-

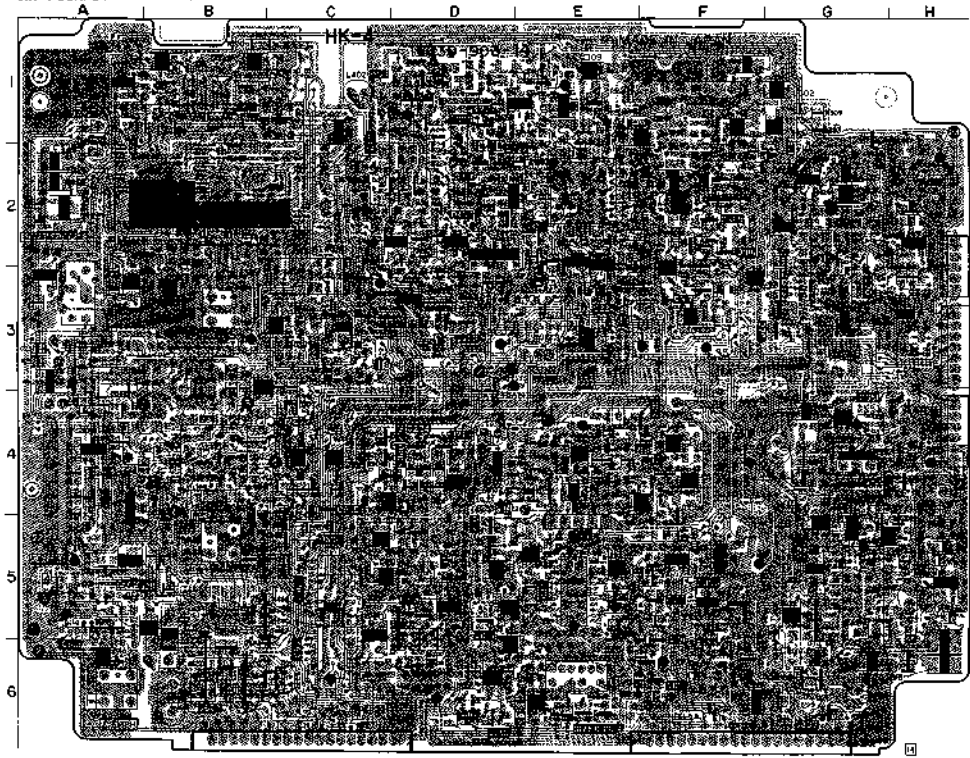
Q316 8-729-901-01 TRANSISTOR DTCL44EK 0703 8-
 Q317 8-729-100-66 TRANSISTOR 2SC1623 0704 8-
 Q318 8-729-901-06 TRANSISTOR DTAL44EK 0705 8-
 Q319 8-729-100-66 TRANSISTOR 2SC1623 0706 8-
 Q320 8-729-901-01 TRANSISTOR DTCL44EK 0707 8-

4 BOARD (CONDUCTOR SIDE)

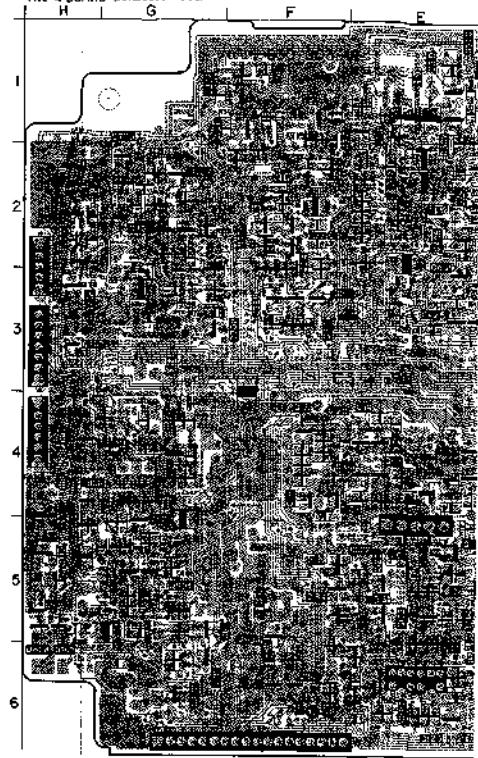


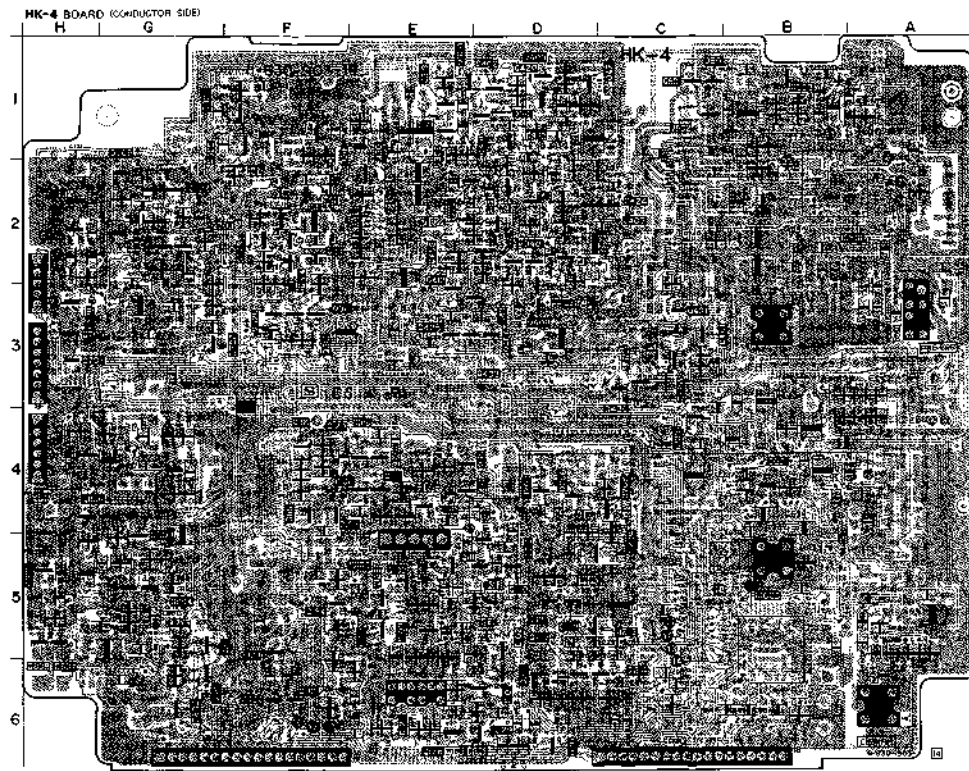
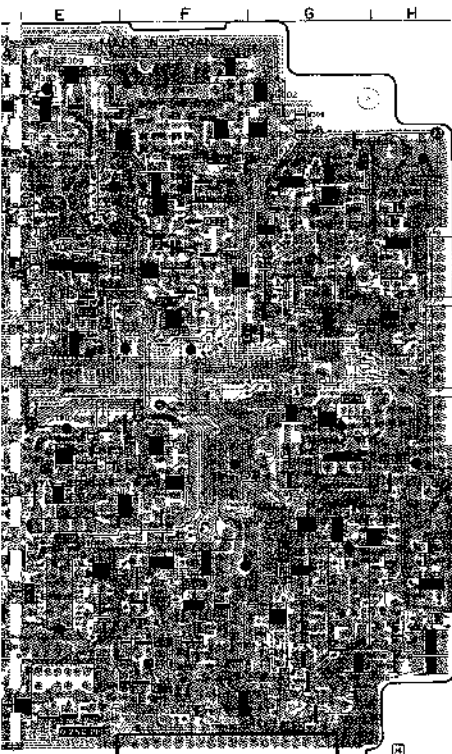
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NK-4 BOARD (COMPONENT SIDE)



NK-4 BOARD (CONDUCTOR SIDE)





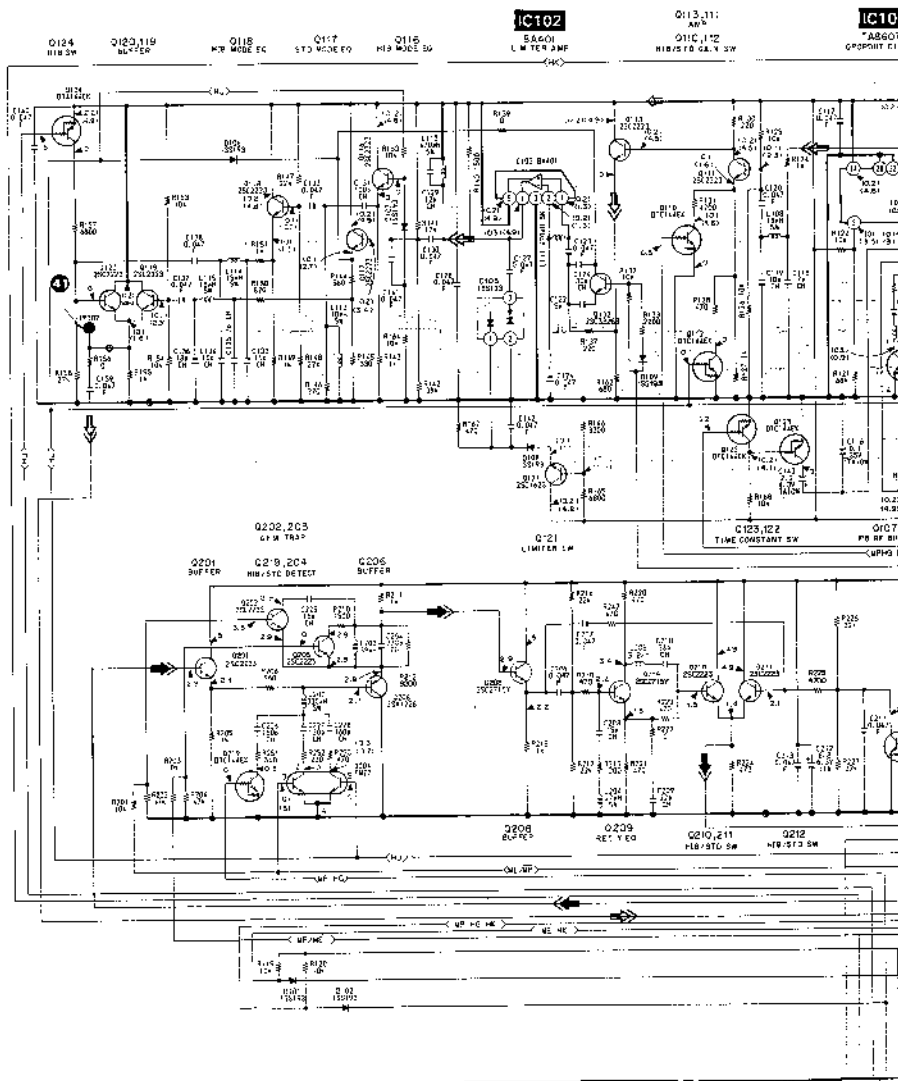
VIDEO VIDEO

HK-4 (YIC/AFM MIX) SCHEMATIC DIAGRAM

— Ref. No. HK-4 BOARD: 4000 series —

HK-4 BOARD (3/3)

no mark : REC/PB mode
 1 : REC mode
 2 : PB mode



BUSES PLUS	
VCC	+
GND	0
...	...

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

1 2 3 4 5 6 7 8 9 10 11

3) 00 NC4 - REC/PM mode
 1 - REC mode
 1 - PM mode

IC102
 54041
 4-ITER SW

013,111
 010,112
 4-ITER SW

IC101
 7465077
 4-ITER DETECT

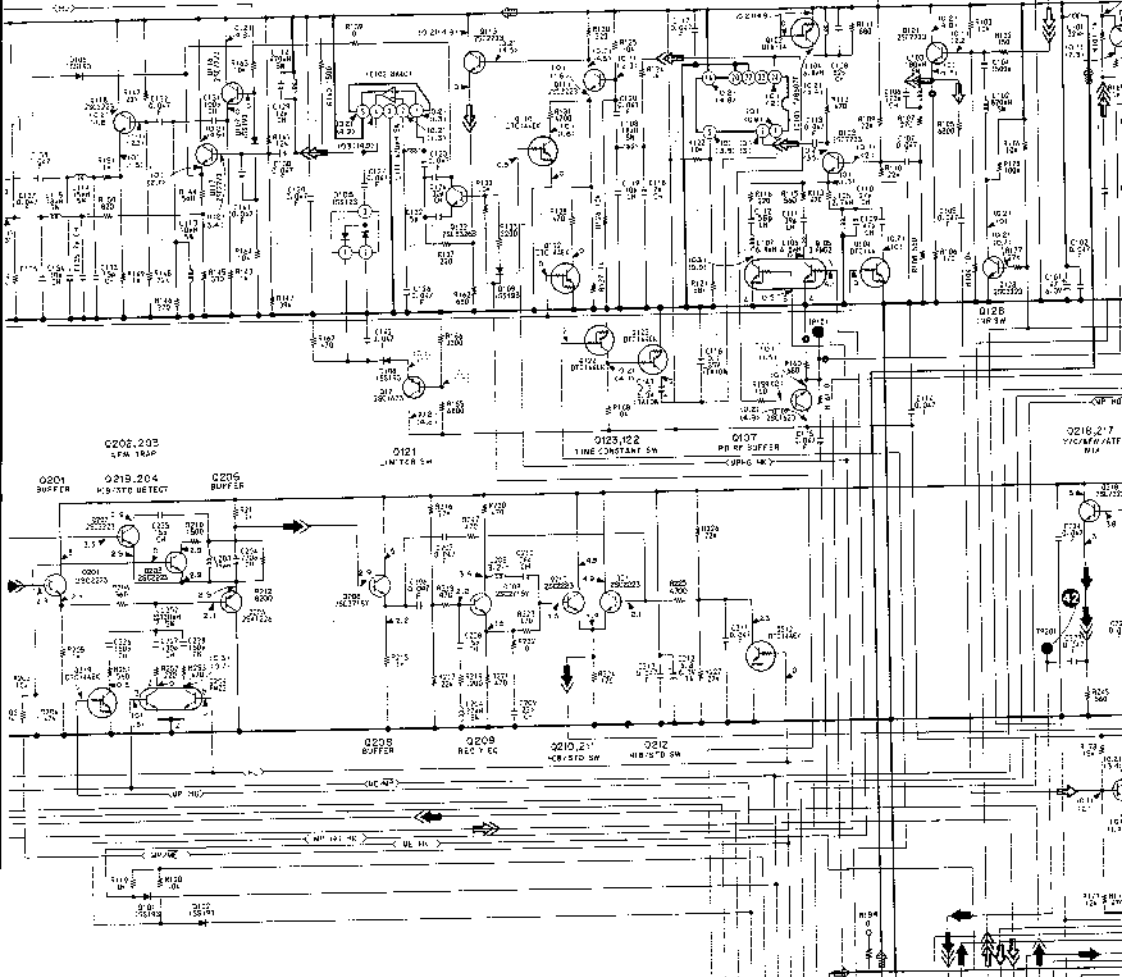
0101
 BUFFER

0102
 4-ITER SW

0103
 4-ITER SW

0105,104
 4-ITER SW

0127
 4-ITER SW



SWITCH	FALSE	TRUE
0101	0101	0101
0102	0102	0102
0103	0103	0103
0104	0104	0104
0105	0105	0105
0106	0106	0106
0107	0107	0107
0108	0108	0108
0109	0109	0109
0110	0110	0110
0111	0111	0111
0112	0112	0112
0113	0113	0113
0114	0114	0114
0115	0115	0115
0116	0116	0116
0117	0117	0117
0118	0118	0118
0119	0119	0119
0120	0120	0120
0121	0121	0121
0122	0122	0122
0123	0123	0123
0124	0124	0124
0125	0125	0125
0126	0126	0126
0127	0127	0127
0128	0128	0128
0129	0129	0129
0130	0130	0130
0131	0131	0131
0132	0132	0132
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0134	0134	0134
0135	0135	0135
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0150	0150	0150
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0157	0157	0157
0158	0158	0158
0159	0159	0159
0160	0160	0160
0161	0161	0161
0162	0162	0162
0163	0163	0163
0164	0164	0164
0165	0165	0165
0166	0166	0166
0167	0167	0167
0168	0168	0168
0169	0169	0169
0170	0170	0170
0171	0171	0171
0172	0172	0172
0173	0173	0173
0174	0174	0174
0175	0175	0175
0176	0176	0176
0177	0177	0177
0178	0178	0178
0179	0179	0179
0180	0180	0180
0181	0181	0181
0182	0182	0182
0183	0183	0183
0184	0184	0184
0185	0185	0185
0186	0186	0186
0187	0187	0187
0188	0188	0188
0189	0189	0189
0190	0190	0190
0191	0191	0191
0192	0192	0192
0193	0193	0193
0194	0194	0194
0195	0195	0195
0196	0196	0196
0197	0197	0197
0198	0198	0198
0199	0199	0199
0200	0200	0200

SWITCH	FALSE	TRUE
0101	0101	0101
0102	0102	0102
0103	0103	0103
0104	0104	0104
0105	0105	0105
0106	0106	0106
0107	0107	0107
0108	0108	0108
0109	0109	0109
0110	0110	0110
0111	0111	0111
0112	0112	0112
0113	0113	0113
0114	0114	0114
0115	0115	0115
0116	0116	0116
0117	0117	0117
0118	0118	0118
0119	0119	0119
0120	0120	0120
0121	0121	0121
0122	0122	0122
0123	0123	0123
0124	0124	0124
0125	0125	0125
0126	0126	0126
0127	0127	0127
0128	0128	0128
0129	0129	0129
0130	0130	0130
0131	0131	0131
0132	0132	0132
0133	0133	0133
0134	0134	0134
0135	0135	0135
0136	0136	0136
0137	0137	0137
0138	0138	0138
0139	0139	0139
0140	0140	0140
0141	0141	0141
0142	0142	0142
0143	0143	0143
0144	0144	0144
0145	0145	0145
0146	0146	0146
0147	0147	0147
0148	0148	0148
0149	0149	0149
0150	0150	0150
0151	0151	0151
0152	0152	0152
0153	0153	0153
0154	0154	0154
0155	0155	0155
0156	0156	0156
0157	0157	0157
0158	0158	0158
0159	0159	0159
0160	0160	0160
0161	0161	0161
0162	0162	0162
0163	0163	0163
0164	0164	0164
0165	0165	0165
0166	0166	0166
0167	0167	0167
0168	0168	0168
0169	0169	0169
0170	0170	0170
0171	0171	0171
0172	0172	0172
0173	0173	0173
0174	0174	0174
0175	0175	0175
0176	0176	0176
0177	0177	0177
0178	0178	0178
0179	0179	0179
0180	0180	0180
0181	0181	0181
0182	0182	0182
0183	0183	0183
0184	0184	0184
0185	0185	0185
0186	0186	0186
0187	0187	0187
0188	0188	0188
0189	0189	0189
0190	0190	0190
0191	0191	0191
0192	0192	0192
0193	0193	0193
0194	0194	0194
0195	0195	0195
0196	0196	0196
0197	0197	0197
0198	0198	0198
0199	0199	0199
0200	0200	0200

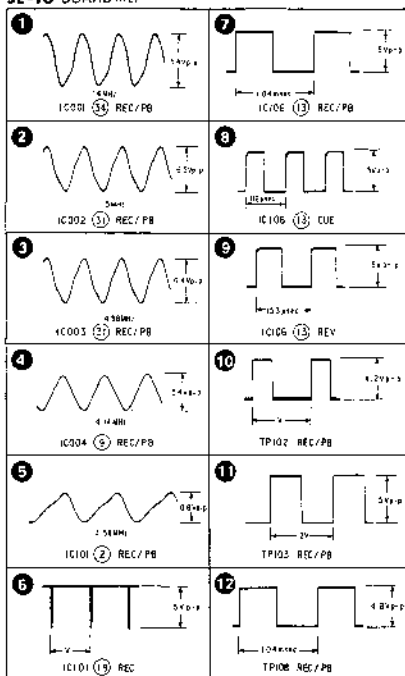
TO MK-2 BOARD 1/75

TO MK-2 BOARD 1/75

(See Page 96)

(See Page 91)

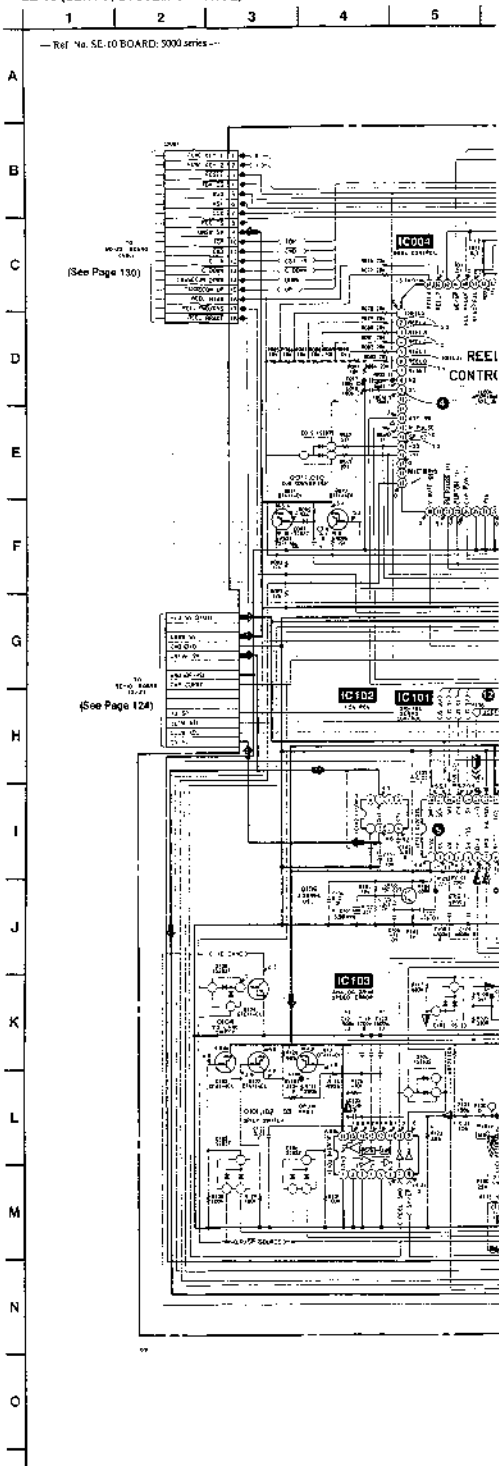
SE-10 BOARD (11/2)



• SIGNAL PATH

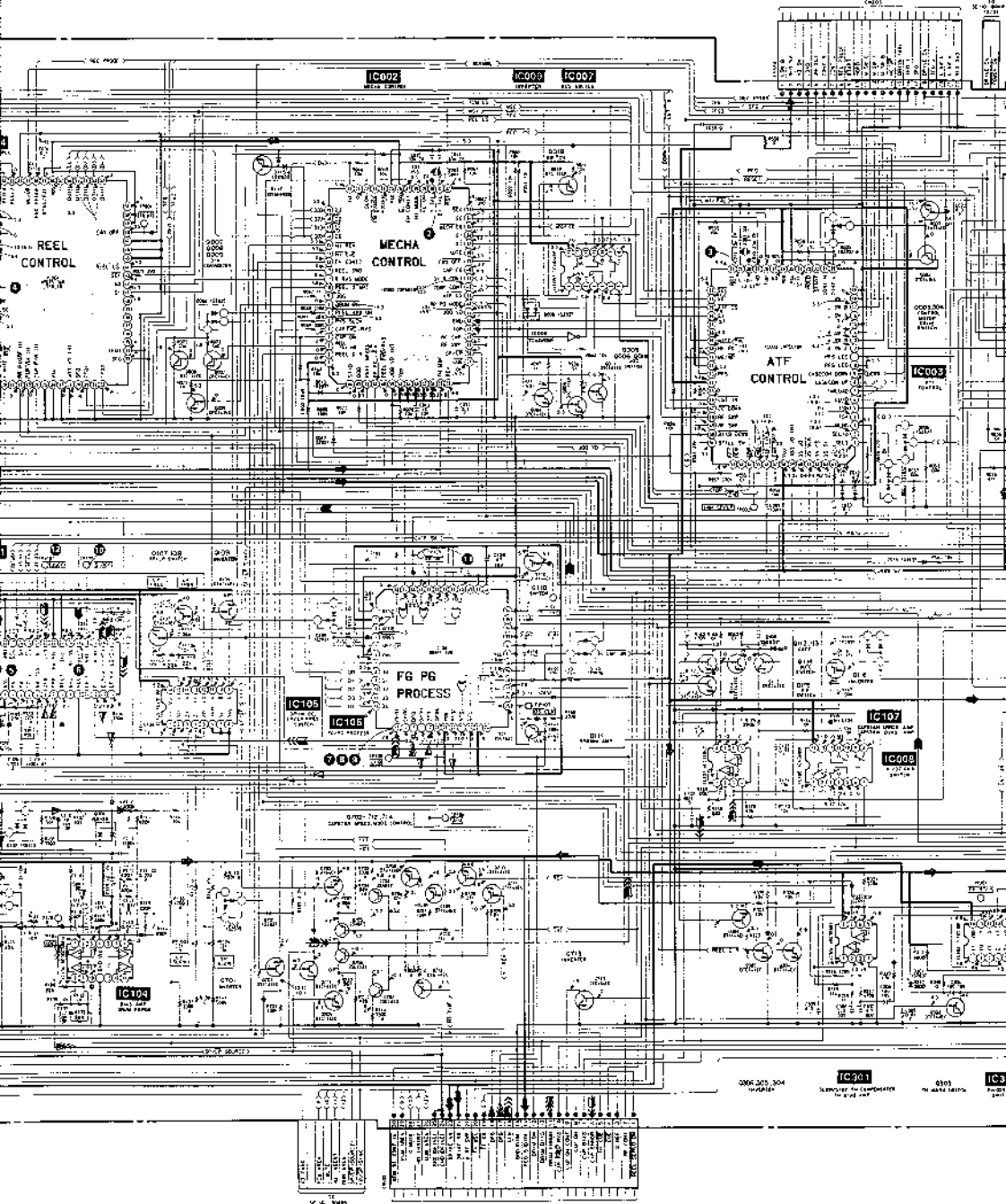
	REC	REC/PB	PB
Drum speed servo		➔	
Drum phase servo		➔	
Drum servo (speed and phase)		➔	
Capstan speed servo		➔	
Capstan phase servo		➔	
Capstan servo (speed and phase)		➔	
Ref. signal	➔		

SE-10 (SERVO, SYSTEM CONTROL) SCHEMATIC DIAGRAM



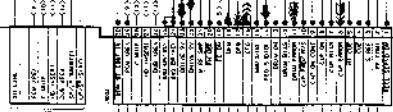
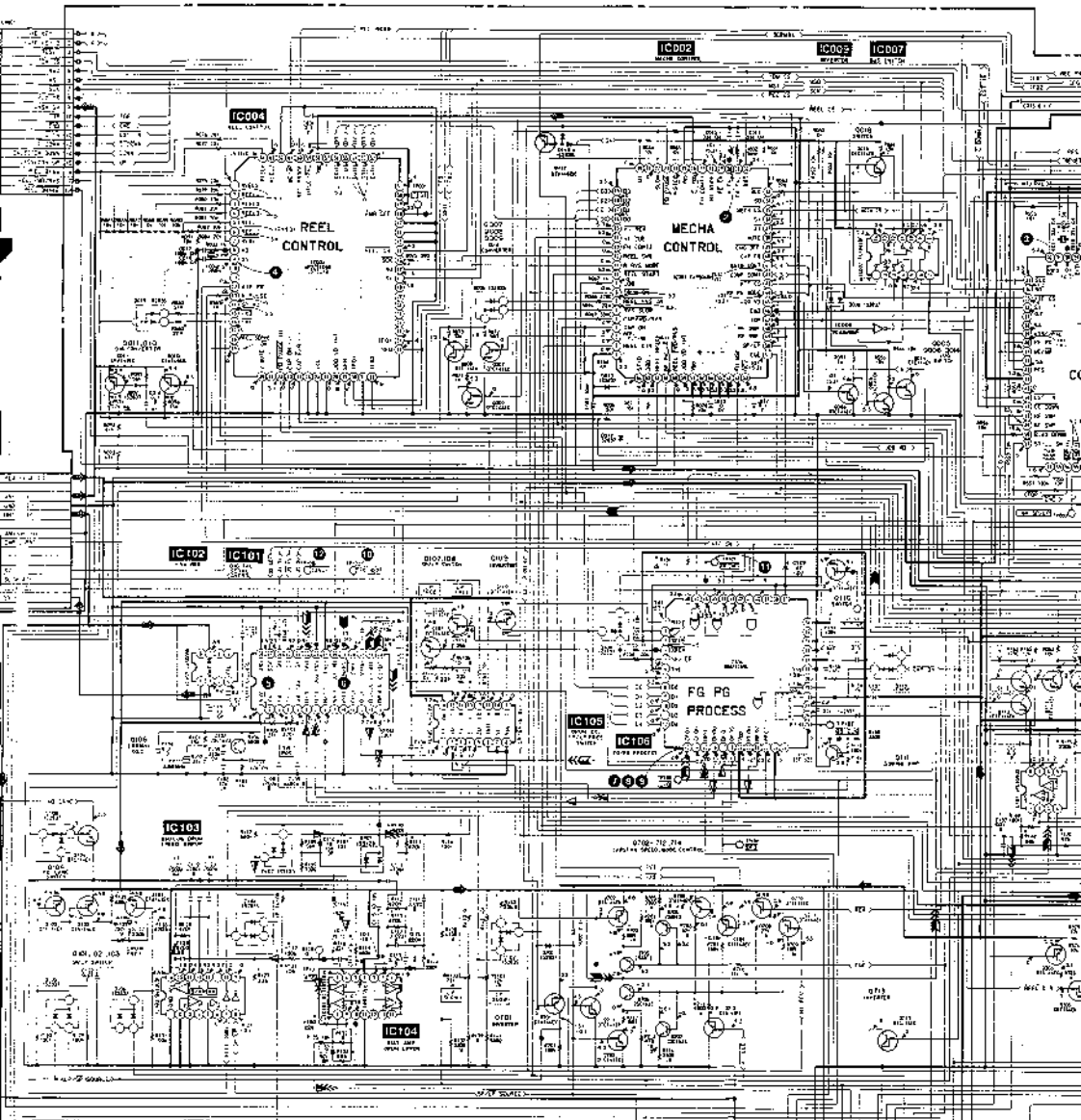
(See Page 136)

(See Page 137)



(See Page 123, 124)

(See Page 130)



(See Page 123, 124)

(See Page 130)

SE-10 (SERVO, SYSTEM CONTROL, ATF SERVO, HEAD SELECT), IG-4 (LINK) PRINTED WIRING BOARDS

— Ref. No. SE-10 BOARD: 5000 series, IG-4 BOARD: 6000 series —

SE-10 BOARD COMPONENT SIDE	SE-10 BOARD CONDUCTOR SIDE	SE-10 BOARD COMPONENT SIDE	SE-10 BOARD CONDUCTOR SIDE
DC63	B-5	DC66	C-7
DC64	B-4	DC69	B-1
DC65	B-4	DC70	C-4
DC66	B-4	DC71	C-5
DC67	C-4	DC72	C-3
DC68	C-4	DC73	C-4
DC69	C-4	DC74	C-4
DC70	C-4	DC75	C-4
DC71	C-4	DC76	C-4
DC72	C-4	DC77	C-4
DC73	C-4	DC78	C-4
DC74	C-4	DC79	C-4
DC75	C-4	DC80	C-4
DC76	C-4	DC81	C-4
DC77	C-4	DC82	C-4
DC78	C-4	DC83	C-4
DC79	C-4	DC84	C-4
DC80	C-4	DC85	C-4
DC81	C-4	DC86	C-4
DC82	C-4	DC87	C-4
DC83	C-4	DC88	C-4
DC84	C-4	DC89	C-4
DC85	C-4	DC90	C-4
DC86	C-4	DC91	C-4
DC87	C-4	DC92	C-4
DC88	C-4	DC93	C-4
DC89	C-4	DC94	C-4
DC90	C-4	DC95	C-4
DC91	C-4	DC96	C-4
DC92	C-4	DC97	C-4
DC93	C-4	DC98	C-4
DC94	C-4	DC99	C-4
DC95	C-4	DC100	C-4
DC96	C-4	DC101	C-4
DC97	C-4	DC102	C-4
DC98	C-4	DC103	C-4
DC99	C-4	DC104	C-4
DC100	C-4	DC105	C-4
DC101	C-4	DC106	C-4
DC102	C-4	DC107	C-4
DC103	C-4	DC108	C-4
DC104	C-4	DC109	C-4
DC105	C-4	DC110	C-4
DC106	C-4	DC111	C-4
DC107	C-4	DC112	C-4
DC108	C-4	DC113	C-4
DC109	C-4	DC114	C-4
DC110	C-4	DC115	C-4
DC111	C-4	DC116	C-4
DC112	C-4	DC117	C-4
DC113	C-4	DC118	C-4
DC114	C-4	DC119	C-4
DC115	C-4	DC120	C-4
DC116	C-4	DC121	C-4
DC117	C-4	DC122	C-4
DC118	C-4	DC123	C-4
DC119	C-4	DC124	C-4
DC120	C-4	DC125	C-4
DC121	C-4	DC126	C-4
DC122	C-4	DC127	C-4
DC123	C-4	DC128	C-4
DC124	C-4	DC129	C-4
DC125	C-4	DC130	C-4
DC126	C-4	DC131	C-4
DC127	C-4	DC132	C-4
DC128	C-4	DC133	C-4
DC129	C-4	DC134	C-4
DC130	C-4	DC135	C-4
DC131	C-4	DC136	C-4
DC132	C-4	DC137	C-4
DC133	C-4	DC138	C-4
DC134	C-4	DC139	C-4
DC135	C-4	DC140	C-4
DC136	C-4	DC141	C-4
DC137	C-4	DC142	C-4
DC138	C-4	DC143	C-4
DC139	C-4	DC144	C-4
DC140	C-4	DC145	C-4
DC141	C-4	DC146	C-4
DC142	C-4	DC147	C-4
DC143	C-4	DC148	C-4
DC144	C-4	DC149	C-4
DC145	C-4	DC150	C-4
DC146	C-4	DC151	C-4
DC147	C-4	DC152	C-4
DC148	C-4	DC153	C-4
DC149	C-4	DC154	C-4
DC150	C-4	DC155	C-4
DC151	C-4	DC156	C-4
DC152	C-4	DC157	C-4
DC153	C-4	DC158	C-4
DC154	C-4	DC159	C-4
DC155	C-4	DC160	C-4
DC156	C-4	DC161	C-4
DC157	C-4	DC162	C-4
DC158	C-4	DC163	C-4
DC159	C-4	DC164	C-4
DC160	C-4	DC165	C-4
DC161	C-4	DC166	C-4
DC162	C-4	DC167	C-4
DC163	C-4	DC168	C-4
DC164	C-4	DC169	C-4
DC165	C-4	DC170	C-4
DC166	C-4	DC171	C-4
DC167	C-4	DC172	C-4
DC168	C-4	DC173	C-4
DC169	C-4	DC174	C-4
DC170	C-4	DC175	C-4
DC171	C-4	DC176	C-4
DC172	C-4	DC177	C-4
DC173	C-4	DC178	C-4
DC174	C-4	DC179	C-4
DC175	C-4	DC180	C-4
DC176	C-4	DC181	C-4
DC177	C-4	DC182	C-4
DC178	C-4	DC183	C-4
DC179	C-4	DC184	C-4
DC180	C-4	DC185	C-4
DC181	C-4	DC186	C-4
DC182	C-4	DC187	C-4
DC183	C-4	DC188	C-4
DC184	C-4	DC189	C-4
DC185	C-4	DC190	C-4
DC186	C-4	DC191	C-4
DC187	C-4	DC192	C-4
DC188	C-4	DC193	C-4
DC189	C-4	DC194	C-4
DC190	C-4	DC195	C-4
DC191	C-4	DC196	C-4
DC192	C-4	DC197	C-4
DC193	C-4	DC198	C-4
DC194	C-4	DC199	C-4
DC195	C-4	DC200	C-4
DC196	C-4	DC201	C-4
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DC198	C-4	DC203	C-4
DC199	C-4	DC204	C-4
DC200	C-4	DC205	C-4
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DC202	C-4	DC207	C-4
DC203	C-4	DC208	C-4
DC204	C-4	DC209	C-4
DC205	C-4	DC210	C-4
DC206	C-4	DC211	C-4
DC207	C-4	DC212	C-4
DC208	C-4	DC213	C-4
DC209	C-4	DC214	C-4
DC210	C-4	DC215	C-4
DC211	C-4	DC216	C-4
DC212	C-4	DC217	C-4
DC213	C-4	DC218	C-4
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DC215	C-4	DC220	C-4
DC216	C-4	DC221	C-4
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DC223	C-4	DC228	C-4
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DC236	C-4	DC241	C-4
DC237	C-4	DC242	C-4
DC238	C-4	DC243	C-4
DC239	C-4	DC244	C-4
DC240	C-4	DC245	C-4
DC241	C-4	DC246	C-4
DC242	C-4	DC247	C-4
DC243	C-4	DC248	C-4
DC244	C-4	DC249	C-4
DC245	C-4	DC250	C-4
DC246	C-4	DC251	C-4
DC247	C-4	DC252	C-4
DC248	C-4	DC253	C-4
DC249	C-4	DC254	C-4
DC250	C-4	DC255	C-4
DC251	C-4	DC256	C-4
DC252	C-4	DC257	C-4
DC253	C-4	DC258	C-4
DC254	C-4	DC259	C-4
DC255	C-4	DC260	C-4
DC256	C-4	DC261	C-4
DC257	C-4	DC262	C-4
DC258	C-4	DC263	C-4
DC259	C-4	DC264	C-4
DC260	C-4	DC265	C-4
DC261	C-4	DC266	C-4
DC262	C-4	DC267	C-4
DC263	C-4	DC268	C-4
DC264	C-4	DC269	C-4
DC265	C-4	DC270	C-4
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DC267	C-4	DC272	C-4
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DC273	C-4	DC278	C-4
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DC275	C-4	DC280	C-4
DC276	C-4	DC281	C-4
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DC278	C-4	DC283	C-4
DC279	C-4	DC284	C-4
DC280	C-4	DC285	C-4
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DC282	C-4	DC287	C-4
DC283	C-4	DC288	C-4
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DC285	C-4	DC290	C-4
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DC288	C-4	DC293	C-4
DC289	C-4	DC294	C-4
DC290	C-4	DC295	C-4
DC291	C-4	DC296	C-4
DC292	C-4	DC297	C-4
DC293	C-4	DC298	C-4
DC294	C-4	DC299	C-4
DC295	C-4	DC300	C-4
DC296	C-4	DC301	C-4
DC297	C-4	DC302	C-4
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DC299	C-4	DC304	C-4
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DC302	C-4	DC307	C-4
DC303	C-4	DC308	C-4
DC304	C-4	DC309	C-4
DC305	C-4	DC310	C-4
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DC307	C-4	DC312	C-4
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DC313	C-4	DC318	C-4
DC314	C-4	DC319	C-4
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DC316	C-4	DC321	C-4
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DC318	C-4	DC323	C-4
DC319	C-4	DC324	C-4
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DC322	C-4	DC327	C-4
DC323	C-4	DC328	C-4
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DC332	C-4	DC337	C-4
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DC334	C-4	DC339	C-4
DC335	C-4	DC340	C-4
DC336	C-4	DC341	C-4
DC337	C-4	DC342	C-4
DC338	C-4	DC343	C-4
DC339	C-4	DC344	C-4
DC340	C-4	DC345	C-4
DC341	C-4	DC346	C-4
DC342	C-4	DC347	C-4
DC343	C-4	DC348	C-4
DC344	C-4	DC349	C-4
DC345	C-4	DC350	C-4
DC346	C-4	DC351	C-4
DC347	C-4	DC352	C-4
DC348	C-4	DC353	C-4
DC349	C-4	DC354	C-4
DC350	C-4	DC355	C-4
DC351	C-4	DC356	C-4
DC352	C-4	DC357	C-4
DC353	C-4	DC358	C-4
DC354	C-4	DC359	C-4
DC355	C-4	DC360	C-4
DC356	C-4	DC361	C-4
DC357	C-4	DC362	C-4
DC358	C-4	DC363	C-4
DC359	C-4	DC364	C-4
DC360	C-4	DC365	C-4
DC361	C-4	DC366	C-4
DC362	C-4	DC367	C-4
DC363	C-4	DC368	C-4
DC364	C-4	DC369	C-4
DC365	C-4	DC370	C-4
DC366	C-4	DC371	C-4
DC367	C-4	DC372	C-4
DC368	C-4	DC373	C-4
DC369	C-4	DC374	C-4
DC370	C-4	DC375	C-4
DC371	C-4	DC376	C-4
DC372	C-4	DC377	C-4
DC373	C-4	DC378	C-4
DC374	C-4	DC379	C-4
DC375	C-4	DC380	C-4
DC376	C-4	DC381	C-4
DC377	C-4	DC382	C-4
DC378	C-4	DC383	C-4
DC379	C-4	DC384	C-4
DC380	C-4	DC385	C-4
DC381	C-4	DC386	C-4
DC382	C-4	DC387	C-4
DC383	C-4	DC388	C-4
DC384	C-4	DC389	C-4
DC385	C-4	DC390	C-4
DC386	C-4	DC391	C-4
DC387	C-4	DC392	C-4
DC388	C-4	DC393	C-4
DC389	C-4	DC394	C-4
DC390	C-4	DC395	C-4
DC391	C-4	DC396	C-4
DC392	C-4	DC397	

* A 1061-023-A SE-10 BOARD, COMPLETE

(DIODE)

0003	8-719-400-18 DIODE MA1520K
0004	8-719-400-18 DIODE MA1520K
0005	8-719-400-18 DIODE MA1520K
0006	8-719-104-34 DIODE 1S2236
0007	8-719-400-18 DIODE MA1520K
0008	8-719-400-18 DIODE MA1520K
0009	8-719-400-18 DIODE MA1520K
0012	8-719-400-18 DIODE MA1520K
0033	8-719-400-18 DIODE MA1520K
0015	8-719-404-34 DIODE 1S2836
0016	8-719-104-34 DIODE 1S2836
0018	8-719-400-18 DIODE MA1520K
D101	8-719-800-76 DIODE 1S5226
D102	8-719-800-76 DIODE 1S5226
D104	8-719-104-34 DIODE 1S2836
0105	8-719-400-18 DIODE MA1520K
0106	8-719-400-18 DIODE MA1520K
0107	8-719-104-34 DIODE 1S2836
0108	8-719-400-18 DIODE MA1520K
D109	8-719-400-18 DIODE MA1520K
D110	8-719-104-34 DIODE 1S2836
D111	8-719-400-18 DIODE MA1520K
D112	8-719-104-34 DIODE 1S2836
D115	8-719-104-34 DIODE 1S2836
D201	8-719-400-18 DIODE MA1520K
D203	8-719-105-82 DIODE RDS-1M
D202	8-719-105-82 DIODE RDS-1M
0301	8-719-400-18 DIODE MA1520K
0302	8-719-400-18 DIODE MA1520K
7401	8-719-800-76 DIODE 1S5226
D701	8-719-400-18 DIODE MA1520K

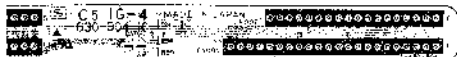
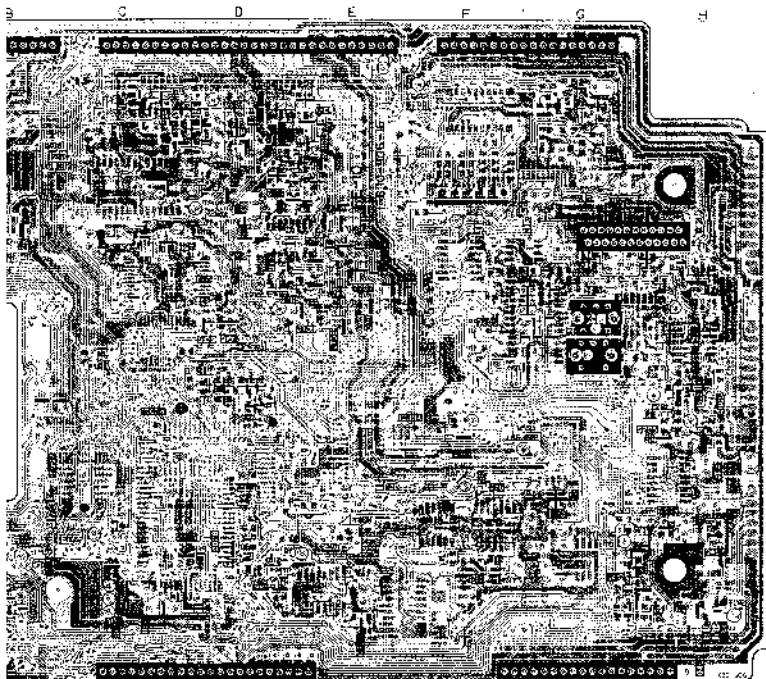
(IC)

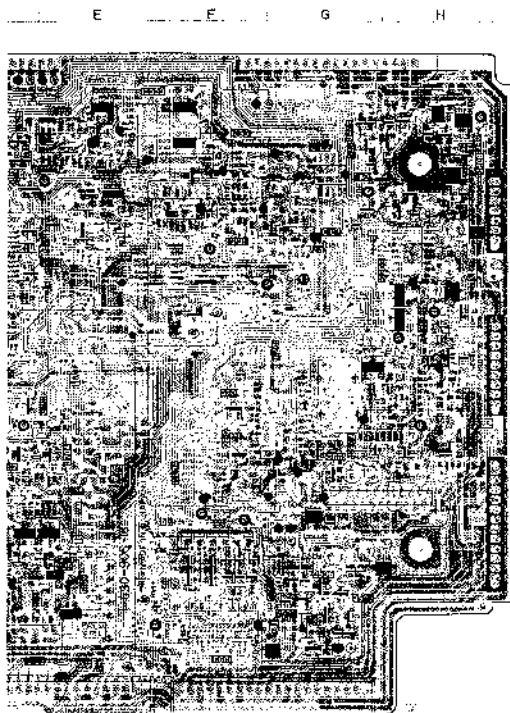
IC001	8-752-816-72 IC CXP8011C-6300
IC002	8-752-817-63 IC CXP5040H-2430
IC003	8-752-815-13 IC CXP5040H-2220
IC004	8-755-144-21 IC LPT0106G-513
IC007	8-759-006-67 IC TC4068BF
IC008	8-759-937-58 IC S-BOS4ALB-LW
IC009	8-759-209-15 IC TC4549BF
IC101	8-752-003-50 IC CX20035
IC102	8-759-803-47 IC LA5059M
IC103	8-759-925-68 IC SWS03F
IC104	8-759-081-75 IC RC3430AF
IC105	8-759-300-71 IC TC4053BF
IC106	8-759-971-25 IC M6674181C
IC107	8-759-100-94 IC LFC358GZ
IC108	8-759-008-67 IC TC4008BF

IC201	8-759-928-56 IC CA91042M
IC202	8-759-150-05 IC LFC324GZ
IC203	8-759-300-71 IC TC4053BF
IC204	8-759-927-46 IC SM74HC00AMS
IC206	8-759-035-93 IC TC7532F
IC301	8-759-100-94 IC LFC358GZ
IC302	8-759-300-71 IC TC4053BF
IC303	8-759-300-71 IC TC4053BF
IC304	8-759-200-00 IC TC4053BF
IC305	8-759-927-46 IC SM74HC00AMS
IC601	8-759-927-54 IC BU370TF
IC602	8-759-927-52 IC BA7036LS
IC603	8-759-100-93 IC LFC358GZ
IC604	8-759-150-05 IC LFC324GZ
IC651	8-759-711-79 IC NLM2238M

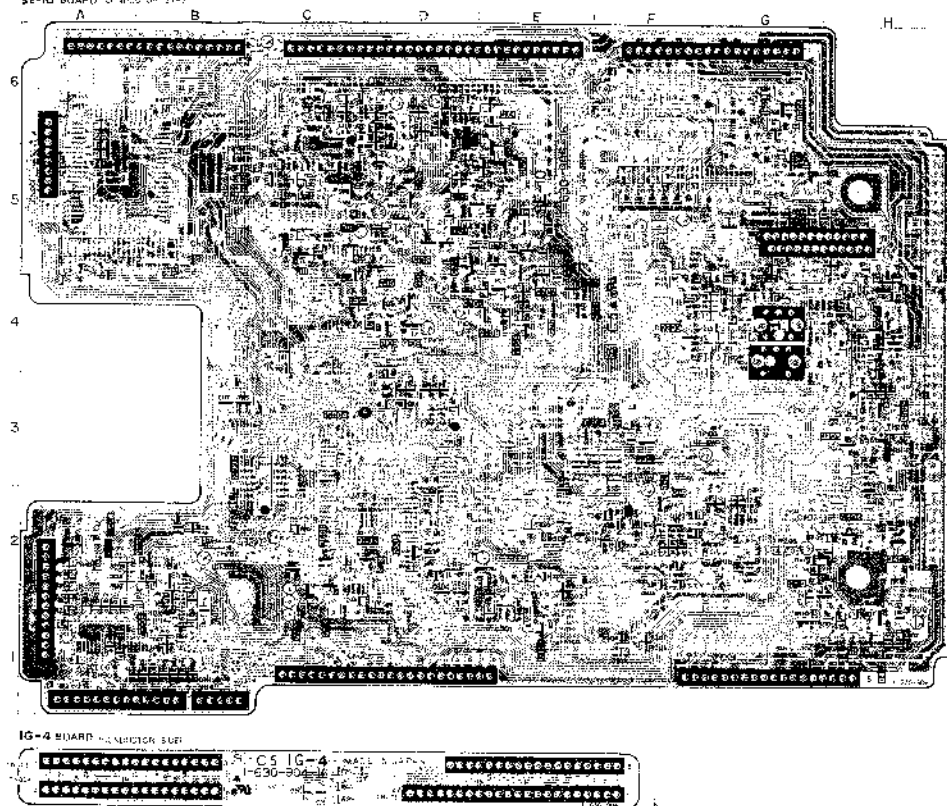
(TRANSISTOR)

0202	8-729-901-01 TRANSISTOR DTA144E
0203	8-729-901-06 TRANSISTOR DTA144E
0204	8-729-901-01 TRANSISTOR DTC44E
0205	8-729-901-01 TRANSISTOR DTC44E
0206	8-729-901-01 TRANSISTOR DTC44E
0207	8-729-901-01 TRANSISTOR DTC44E
0208	8-729-901-01 TRANSISTOR DTC44E
0209	8-729-901-01 TRANSISTOR DTC44E
0210	8-729-901-06 TRANSISTOR DTA144E
0211	8-729-901-06 TRANSISTOR DTA144E
0214	8-729-901-01 TRANSISTOR DTC44E
0215	8-729-901-01 TRANSISTOR DTC44E
0218	8-729-901-01 TRANSISTOR DTC44E
0101	8-729-901-06 TRANSISTOR DTA144E
0102	8-729-901-06 TRANSISTOR DTA144E
0103	8-729-901-06 TRANSISTOR DTA144E
0104	8-729-901-01 TRANSISTOR DTC44E
0106	8-729-100-66 TRANSISTOR 2SC1623
0107	8-729-901-06 TRANSISTOR DTA144E
0108	8-729-901-06 TRANSISTOR DTA144E
0109	8-729-901-06 TRANSISTOR DTA144E
0110	8-729-901-06 TRANSISTOR DTA144E
0111	8-729-100-66 TRANSISTOR 2SC1623
0112	8-729-901-01 TRANSISTOR DTC44E
0113	8-729-901-01 TRANSISTOR DTC44E
0114	8-729-901-01 TRANSISTOR DTC44E
0115	8-729-901-01 TRANSISTOR DTC44E
0116	8-729-901-06 TRANSISTOR DTA144E
0117	8-729-901-06 TRANSISTOR DTA144E
0202	8-729-218-22 TRANSISTOR 2SA116Z
0705	8-729-901-01 TRANSISTOR DTC44E
0709	8-729-901-06 TRANSISTOR DTA144E
0810	8-729-901-01 TRANSISTOR DTC44E
0811	8-729-901-06 TRANSISTOR DTA144E
0812	8-729-901-06 TRANSISTOR DTA144E
0813	8-729-901-06 TRANSISTOR DTA144E
0814	8-729-901-06 TRANSISTOR DTA144E
0815	8-729-100-66 TRANSISTOR 2SC1623
0816	8-729-901-06 TRANSISTOR DTA144E
0818	8-729-901-06 TRANSISTOR DTA144E
0702	8-729-901-06 TRANSISTOR DTA144E
0703	8-729-901-01 TRANSISTOR DTC44E
0704	8-729-218-22 TRANSISTOR 2SA116Z
0705	8-729-218-22 TRANSISTOR 2SA116Z
0706	8-729-100-66 TRANSISTOR 2SC1623
0707	8-729-100-66 TRANSISTOR 2SC1623
0708	8-729-901-06 TRANSISTOR DTA144E
0709	8-729-901-06 TRANSISTOR DTA144E
0710	8-729-901-06 TRANSISTOR DTA144E
0711	8-729-901-06 TRANSISTOR DTA144E
0712	8-729-901-06 TRANSISTOR DTA144E
0713	8-729-901-01 TRANSISTOR DTC44E
0714	8-729-901-01 TRANSISTOR DTC44E





SE-10 BOARD CONTROL UNIT

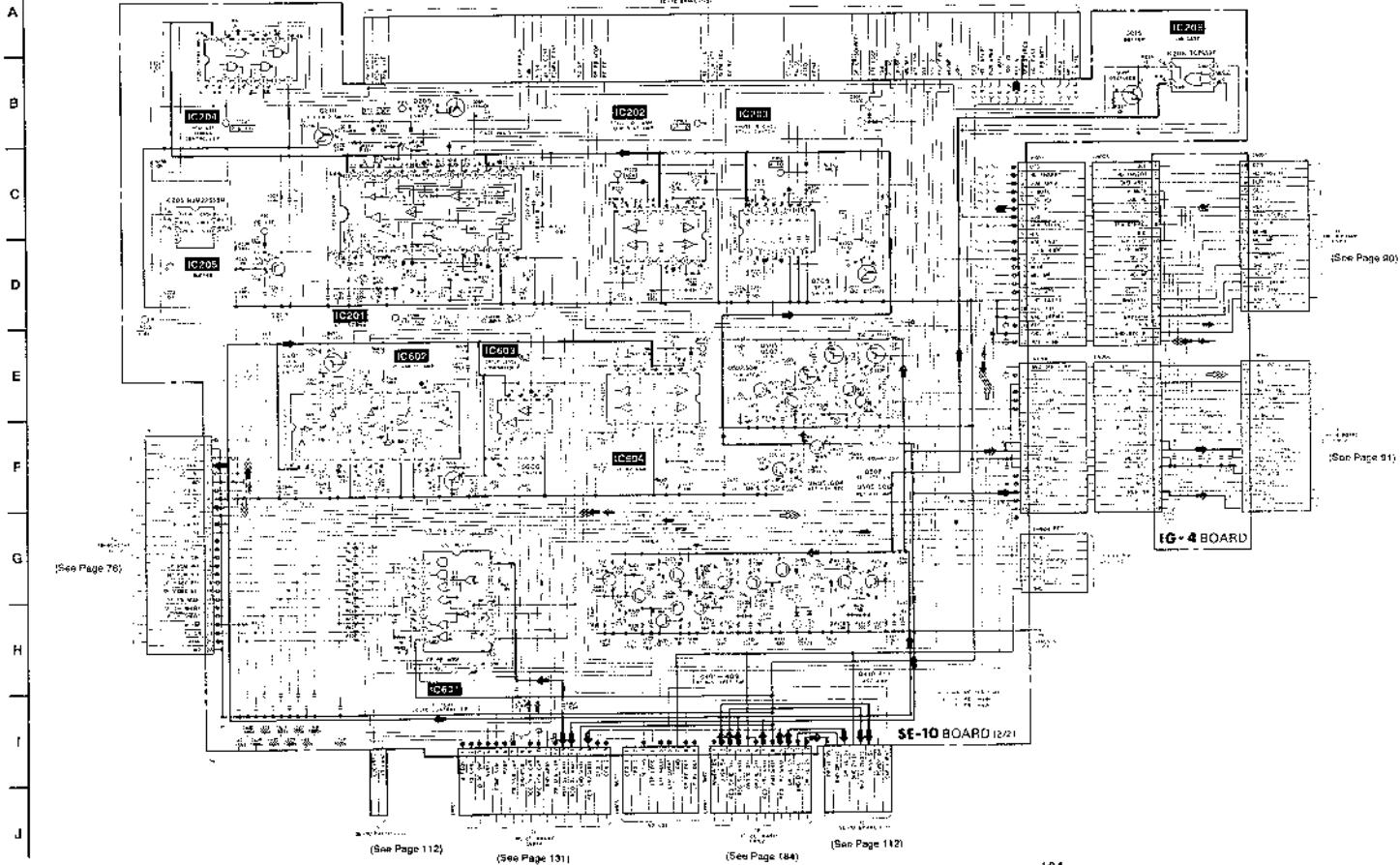


SE-10 (ATF SERVO, HEAD SELECT), IG-4 (LINK) SCHEMATIC DIAGRAM

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

— Ref. No. SE-10 BOARD, 5000 series, IG-4 BOARD, 8000 series —

(See Page 112, 114)



(See Page 90)

(See Page 91)

(See Page 76)

(See Page 112)

(See Page 131)

(See Page 184)

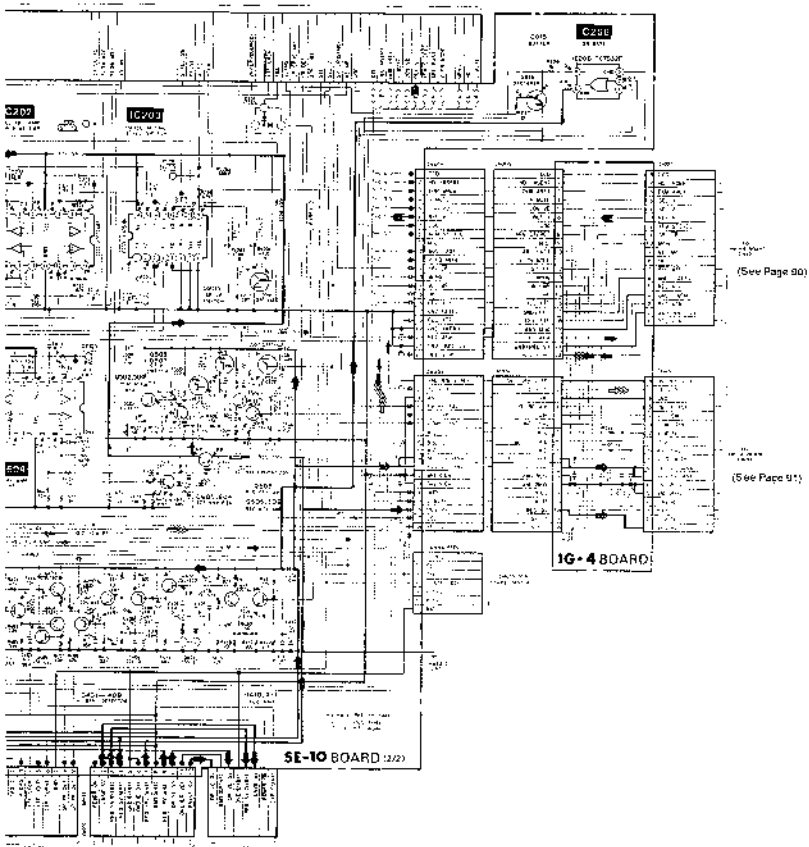
(See Page 112)

• SIGN

REC
PB

Drum 6
Drum 7
Drum 8
Cap558
Cap56
Cap59
Ref 5x

(See Page 112, 114)



(See Page 90)

(See Page 91)

* SIGNAL PATH

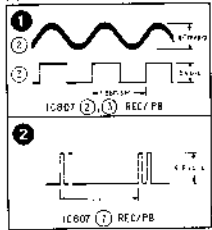
	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	V/CHROMA/DA	
REC			→	→
PB			→	→

	REC	REC/PB	PB
Drum speed servo			
Drum phase servo			
Drum servo (speed and phase)			
Capstan speed servo			
Capstan phase servo			
Cassette servo (speed and phase)			
Ref. signal	→		

(See Page 114)

(See Page 112)

MD-23 BOARD



A-1061-819-A MD-23 BOARD, COMPLETE

(DIODE)

D803	8-719-200-27	DIODE E1G0S2
D810	8-719-400-18	DIODE M4152WK
D811	8-719-200-27	DIODE E1G0S2
D901	8-719-400-18	DIODE M4152WK
D902	8-719-400-18	DIODE M4152WK
D903	8-719-400-18	DIODE M4152WK
D904	8-719-800-76	DIODE 1SS226
D905	8-719-400-18	DIODE M4152WK

(IC)

IC801	8-752-037-08	IC CXA1109M
IC802	8-759-802-79	IC LB1816M
IC804	8-799-914-89	IC PC3414M
IC805	8-759-100-93	IC MPC3926Z
IC806	8-759-207-80	IC TA7732F
IC807	8-759-107-68	IC CX20415A
IC808	8-759-700-62	IC MUM562M
IC809	8-759-100-94	IC MPC356Z
IC901	8-759-207-50	IC TA7745F
IC902	8-759-150-05	IC MPC3240Z
IC903	8-759-925-66	IC PA6303F
IC904	8-759-008-67	IC TC4068BF

(TRANSISTOR)

Q806	8-729-111-14	TRANSISTOR 2SA1385-2
Q807	8-729-901-66	TRANSISTOR BTA144EK
Q809	8-729-111-95	TRANSISTOR 2SC3518
Q810	8-729-805-25	TRANSISTOR 2SB4121
Q811	8-729-805-25	TRANSISTOR 2SB4121
Q812	8-729-111-14	TRANSISTOR 2SA1385-2
Q813	8-729-100-66	TRANSISTOR 2SC1623
Q820	8-729-111-95	TRANSISTOR 2SC3518
Q821	8-729-100-66	TRANSISTOR 2SC1623
Q820	8-729-100-66	TRANSISTOR 2SC1623
Q901	3-729-920-82	TRANSISTOR 2SB1183-OR
Q902	3-729-920-82	TRANSISTOR 2SB1183-OR
Q903	3-729-920-82	TRANSISTOR 2SB1183-OR
Q904	3-729-901-05	TRANSISTOR DTA144EK
Q905	3-729-901-05	TRANSISTOR DTA144EK
Q906	8-729-901-01	TRANSISTOR DTG144FK
Q907	8-729-901-01	TRANSISTOR DTG144FK
Q908	8-729-901-01	TRANSISTOR DTG144FK
Q909	8-729-901-05	TRANSISTOR DTA144EK
Q950	8-729-903-57	TRANSISTOR PMS1FE
Q990	8-729-100-66	TRANSISTOR 2SC1623

MD-23 (CAPSTAN/DRUM/REEL MOTOR DRIVE), TS-74 (R) (TAPE TOP SENSOR), TS-74 (L) (TAPE END SENSOR) PRINTED WIRING BOARD

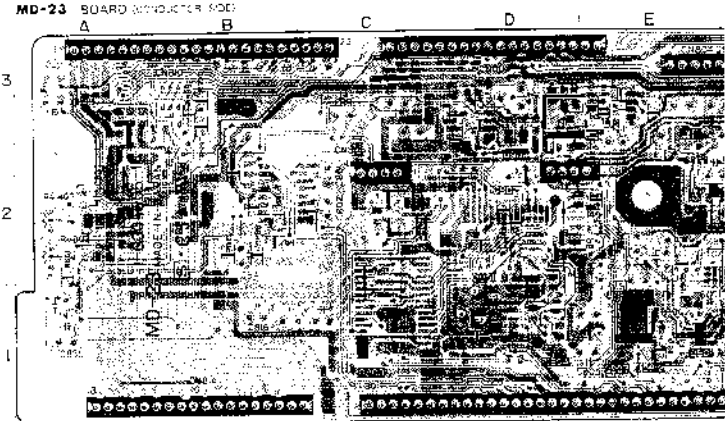
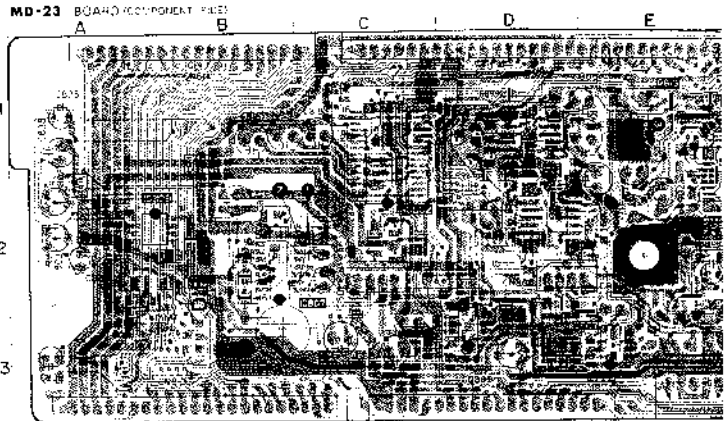
— Ref. No. MD-23, TS-74(R) BOARD: 1000 series, JS-74(L) BOARD: 2000 series —

MD-23 BOARD COMPONENT LIST

Q810	F-3
Q811	F-3
C801	F-3
C802	F-3
IC804	F-3
IC806	F-3
IC807	F-3
IC808	F-3
IC809	F-3
IC810	F-3
IC811	F-3
IC812	F-3
IC813	F-3
IC814	F-3
IC815	F-3
IC816	F-3
IC817	F-3
IC818	F-3
IC819	F-3
IC820	F-3
IC821	F-3
IC822	F-3
IC823	F-3
IC824	F-3
IC825	F-3
IC826	F-3
IC827	F-3
IC828	F-3
IC829	F-3
IC830	F-3

MD-23 BOARD COMPONENT LIST

Q803	G-1
Q804	G-1
Q805	G-1
Q806	G-1
Q807	G-1
Q808	G-1
Q809	G-1
Q810	G-1
Q811	G-1
Q812	G-1
Q813	G-1
Q814	G-1
Q815	G-1
Q816	G-1
Q817	G-1
Q818	G-1
Q819	G-1
Q820	G-1
Q821	G-1
Q822	G-1
Q823	G-1
Q824	G-1
Q825	G-1
Q826	G-1
Q827	G-1
Q828	G-1
Q829	G-1
Q830	G-1
Q831	G-1
Q832	G-1
Q833	G-1
Q834	G-1
Q835	G-1
Q836	G-1
Q837	G-1
Q838	G-1
Q839	G-1
Q840	G-1
Q841	G-1
Q842	G-1
Q843	G-1
Q844	G-1
Q845	G-1
Q846	G-1
Q847	G-1
Q848	G-1
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Q950	G-1



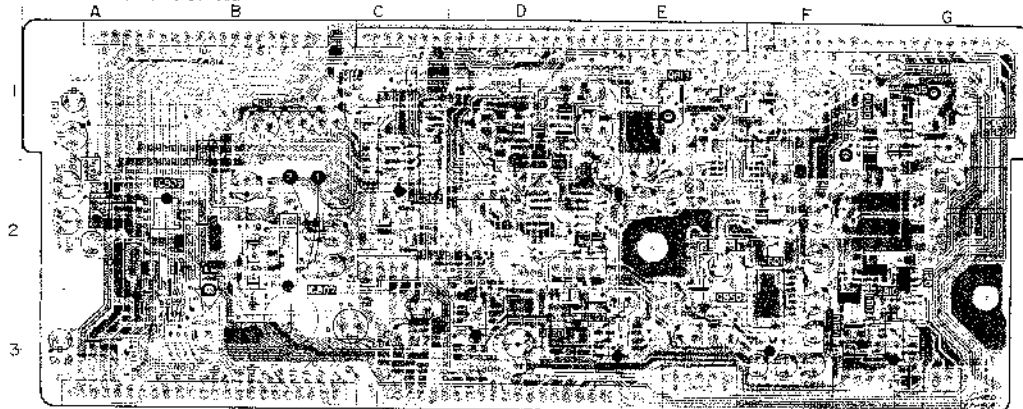
MD-23 (CAPSTAN/DRUM/REEL MOTOR DRIVE), TS-74 (R) (TAPE TOP SENSOR), TS-74 (L) (TAPE END SENSOR) PRINTED WIRING BOARDS

— Ref No MD-23, TS-74(R) BOARD: 1000 series, TS-74(L) BOARD: 2000 series —

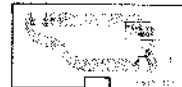
MD-23 BOARD
(COMPONENT SIDE)

CS113	F 3
CS114	F 4
IC501	F 2
IC502	F 2
IC503	F 3
IC504	F 2
IC505	F 3
IC506	F 2
IC507	F 3
IC508	F 2
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IC743	F 3
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IC745	F 3
IC746	F 2
IC747	F 3
IC748	F 2
IC749	F 3
IC750	F 2
IC751	F 3
IC752	F 2
IC753	F 3
IC754	F 2
IC755	F 3
IC756	F 2
IC757	F 3
IC758	F 2
IC759	F 3
IC760	F 2
IC761	F 3
IC762	F 2
IC763	F 3
IC764	F 2
IC765	F 3
IC766	F 2
IC767	F 3
IC768	F 2
IC769	F 3
IC770	F 2
IC771	F 3
IC772	F 2
IC773	F 3
IC774	F 2
IC775	F 3
IC776	F 2
IC777	F 3
IC778	F 2
IC779	F 3
IC780	F 2
IC781	F 3
IC782	F 2
IC783	F 3
IC784	F 2
IC785	F 3
IC786	F 2
IC787	F 3
IC788	F 2
IC789	F 3
IC790	F 2
IC791	F 3
IC792	F 2
IC793	F 3
IC794	F 2
IC795	F 3
IC796	F 2
IC797	F 3
IC798	F 2
IC799	F 3
IC800	F 2

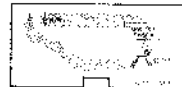
MD-23 BOARD COMPONENT SIDE



TS-74 BOARD (L)



TS-74 BOARD (R)



* A-7070-628-A TS-74 (L) BOARD, COMPLETE

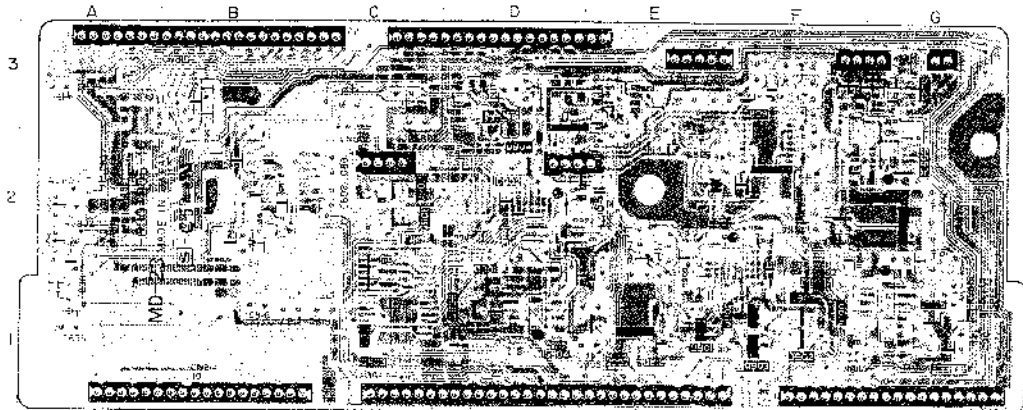
(TRANSISTOR)

0715 8-729-700 DB TRANSISTOR N.L.T.14E

MD-23 BOARD
(PC BOARD SIDE)

DS22	F 1
DS23	F 1
DS24	F 1
DS25	F 1
DS26	F 1
DS27	F 1
DS28	F 1
DS29	F 1
DS30	F 1
DS31	F 1
DS32	F 1
DS33	F 1
DS34	F 1
DS35	F 1
DS36	F 1
DS37	F 1
DS38	F 1
DS39	F 1
DS40	F 1
DS41	F 1
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DS191	F 1
DS192	F 1
DS193	F 1
DS194	F 1
DS195	F 1
DS196	F 1
DS197	F 1
DS198	F 1
DS199	F 1
DS200	F 1

MD-23 BOARD PC BOARD SIDE



* A-7070-627-A TS-74 (R) BOARD, COMPLETE

(TRANSISTOR)

0715 8-729-700-08 TRANSISTOR N.L.T.14E

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

-- Ref No MD-23, TS-74(R); BOARD, 1990 series, TS-74(L); BOARD, 2000 series --

A
B
C
D
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J

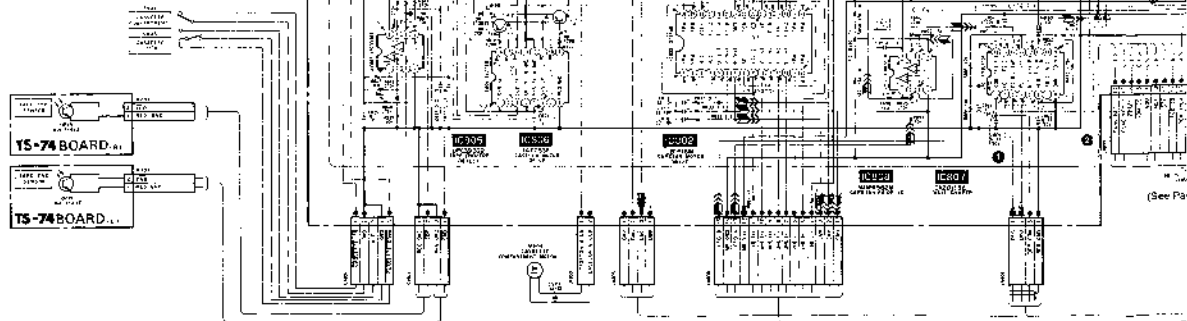
(See Page 111)

(See Page 113)

• SIGNAL PATH

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA-DATA	
REC				→
PB				→

	REC	REC/PB	PB
Drum speed servo		→	
Drum phase servo		→	
Drum servo (speed and phase)		→	
Capstan speed servo			
Capstan phase servo			
Capstan servo (speed and phase)			
Ref signal		→	→



END SENSOR) SCHEMATIC DIAGRAMS

8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
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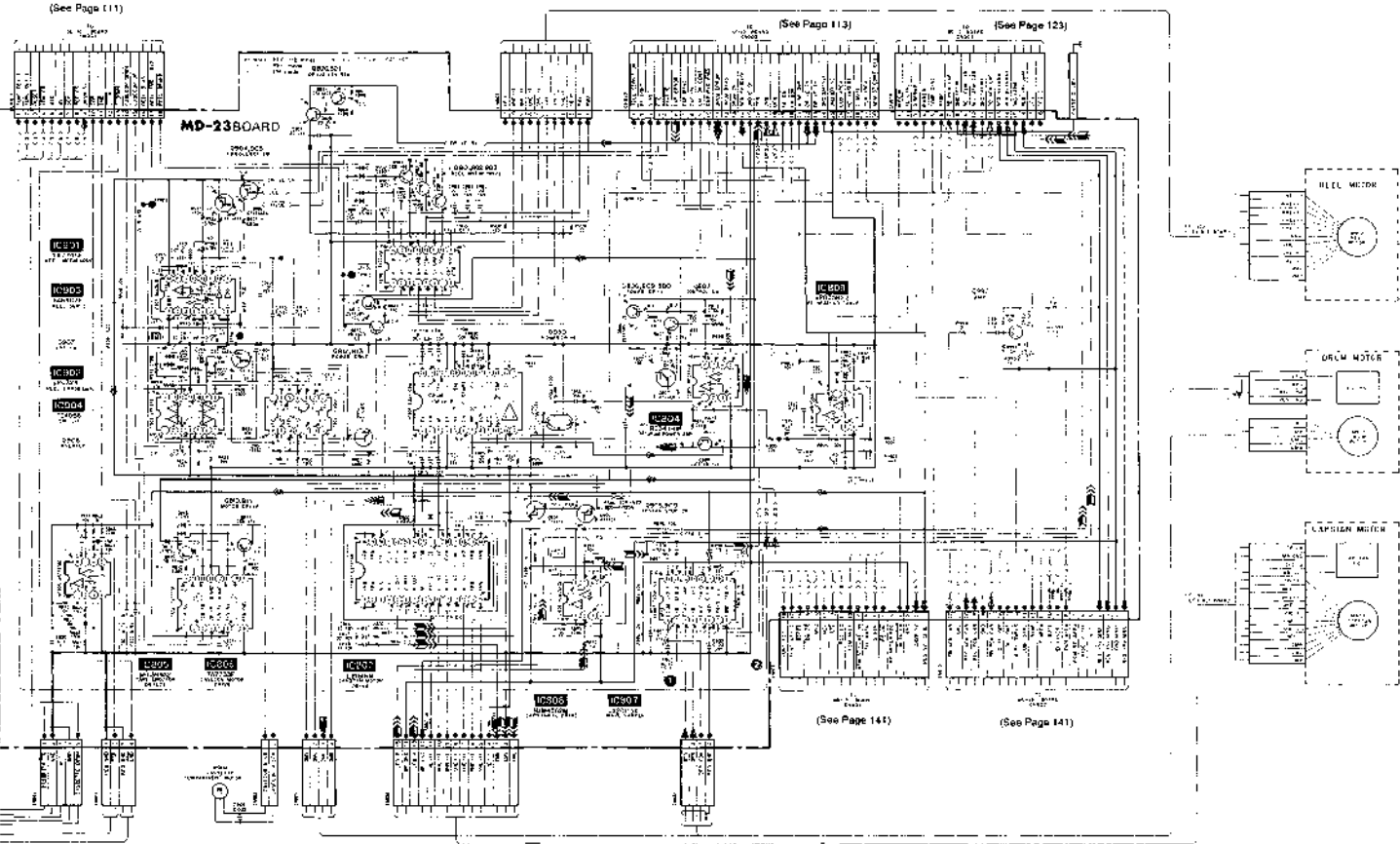
(See Page 111)

(See Page 113)

(See Page 123)

(See Page 144)

(See Page 141)



RS-31 (REEL SENSOR), LD-1 (TAPE SENSOR), MS-4 (CONTROL MOTOR, MODE SWITCH), LS-9 (LOADING SWITCH) PRINTED WIRING BOARDS

-- Ref. No. RS-31, LD-1 BOARD: 600 series --

MS-4, LS-9 boards is replaced as a block so that the PRINTED WIRING BOARD of it is named.

A-7061-848-A RS-31 BOARD, COMPLETE

(DIODE)

- D320 8-719-800-76 DIODE 1SS228
- D321 8-719-800-76 DIODE 1SS228

(IC)

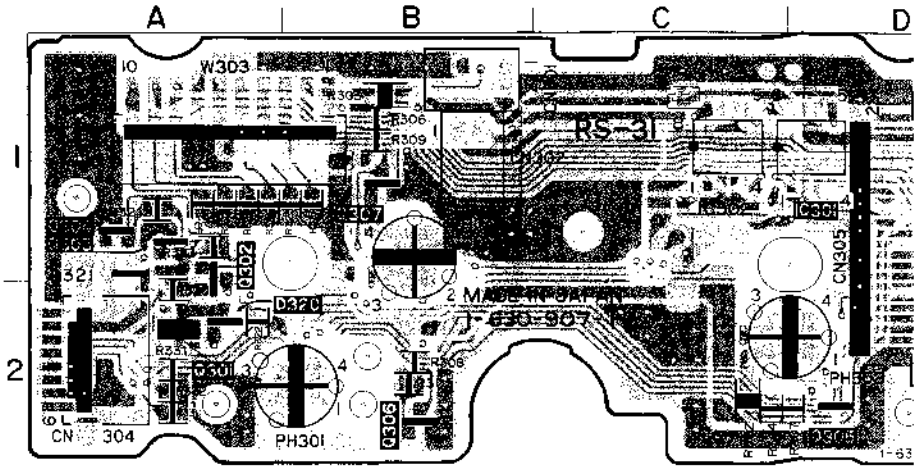
- IC301 8-359-908-81 IC MC3763PF
- IC302 8-759-008-51 IC MC3763PF

(TRANSISTOR)

- Q301 8-729-905-25 TRANSISTOR 2SB1121
- Q302 8-729-216-22 TRANSISTOR 2SA1162
- Q303 8-729-216-22 TRANSISTOR 2SA1162
- Q304 8-729-216-22 TRANSISTOR 2SA1162
- Q305 8-729-901-01 TRANSISTOR DTC144EX
- Q306 8-729-901-01 TRANSISTOR DTC144EX
- Q307 8-729-901-01 TRANSISTOR DTC144EX

- R301 10K
- R302 10K
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RS-31 BOARD (COMPONENT SIDE)

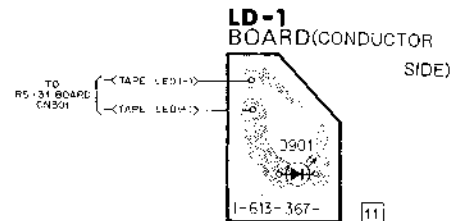
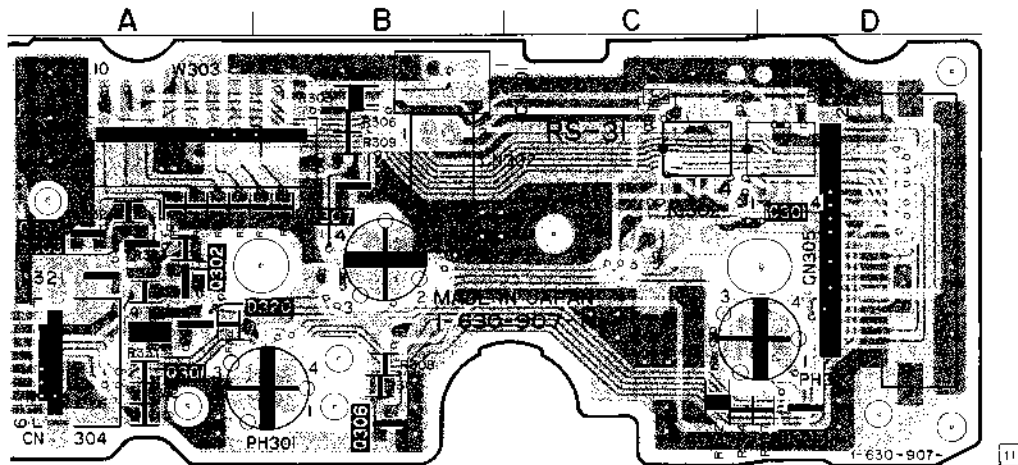


RS), LD-1 (TAPE SENSOR), MS-4 (CONTROL MOTOR, MODE SWITCH), LS-9 (LOADING SWITCH) PRINTED WIRING BOARDS

NOTE: All components —

are to be mounted on the PRINTED WIRING BOARD of this unit.

RS-31 BOARD (COMPONENT SIDE)



* A-7070-024-A LD-1 BOARD, COMPLETE

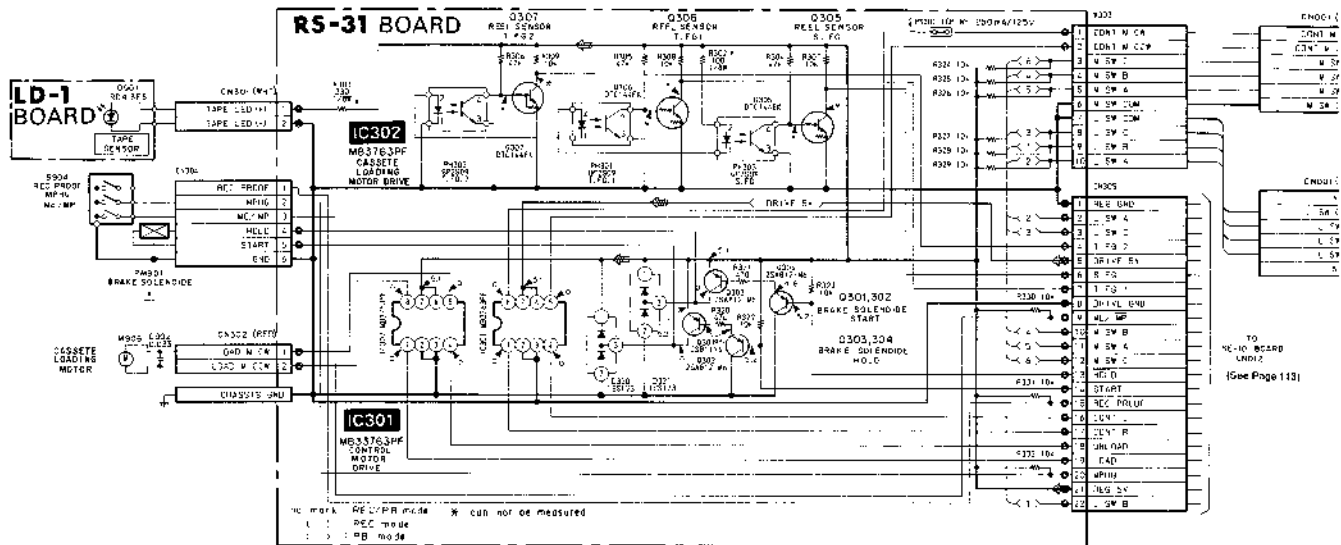
 (DIODE)

D904 B-7719-928-54 DIODE GL-4503

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

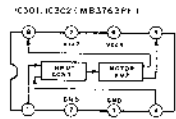
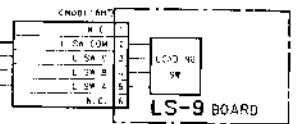
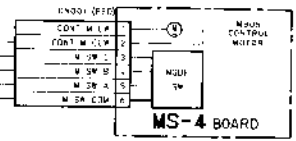
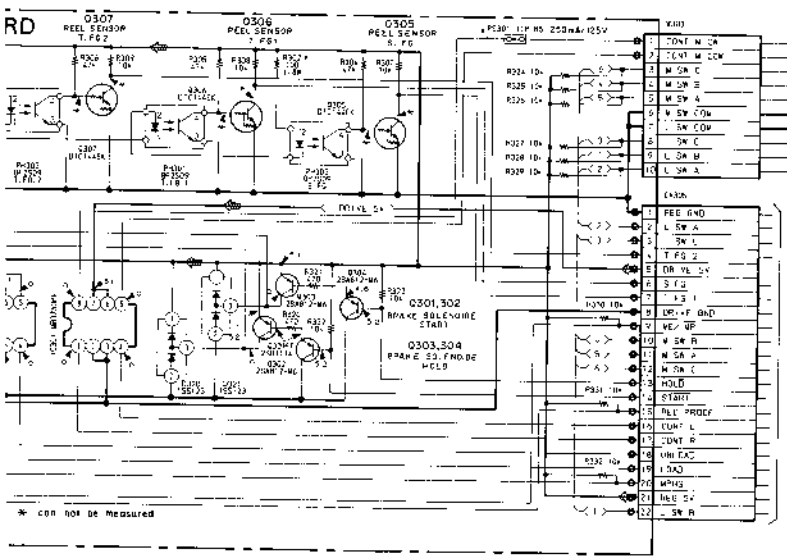
— Ref. No. RS-31, LD-1 BOARD: 0000 series —

A
B
C
D
E
F
G
H
I
J



9 (LOADING SWITCH) SCHEMATIC DIAGRAMS

7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
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TO SE-10 BOARD CHO-2
(See Page 113)

* can not be measured

MB-19 (VTR FUNCTION SWITCH, AUDIO PROCESS) PRINTED WIRING BOARD

— Ref. No. MB-19 BOARD 7000 series —

A-1062-565-A MB-19 BOARD, COMPLETE

DIODE

D601 8-719-104-34 DIODE 1S2836
 D602 8-719-104-34 DIODE 1S2836
 D603 8-719-104-34 DIODE 1S2836
 D604 8-719-400-18 DIODE MA152MK
 D641 8-719-800-76 DIODE 1S5226

D642 8-719-800-76 DIODE 1S5226

IC

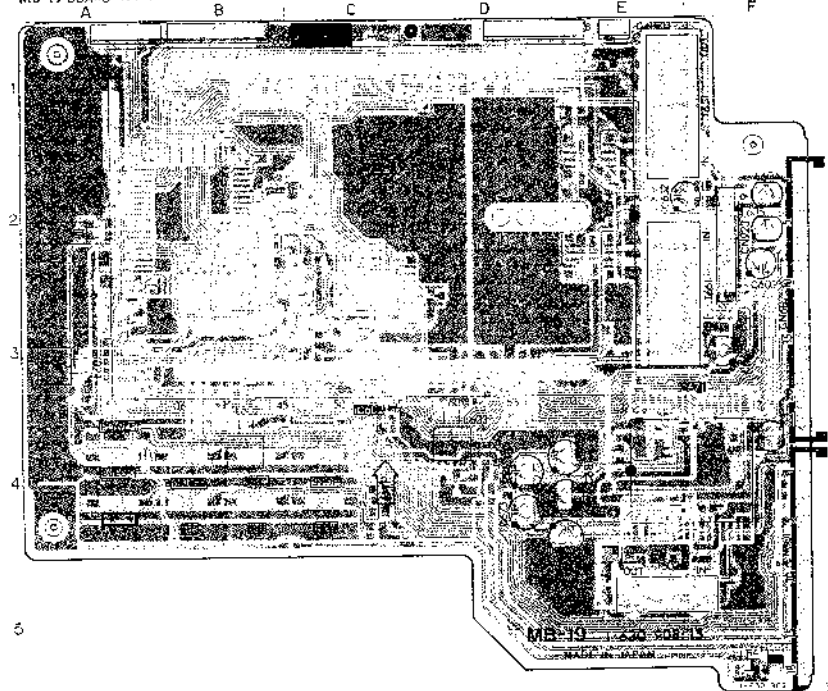
IC501 8-759-143-34 IC μ PD75106G-501-19
 IC603 8-759-300-71 IC TC4053BPFB
 IC651 8-759-603-27 IC MS201FP
 IC661 8-759-603-27 IC MS201FP
 IC671 8-741-150-50 IC SRX1805

TRANSISTOR

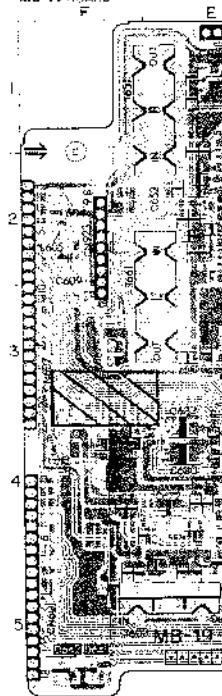
Q601 8-729-901-05 TRANSISTOR DTA144FX
 Q602 8-729-901-01 TRANSISTOR DTG144EX
 Q603 8-729-901-01 TRANSISTOR DTG144EX
 Q604 8-729-901-01 TRANSISTOR DTG144EX
 Q605 8-729-901-06 TRANSISTOR DTG144EX
 Q606 8-729-901-06 TRANSISTOR DTG144EX
 Q607 8-729-901-01 TRANSISTOR DTG144EX
 Q608 8-729-901-06 TRANSISTOR DTG144EX
 Q609 8-729-901-06 TRANSISTOR DTG144EX
 Q611 8-729-100-06 TRANSISTOR 2SC1623

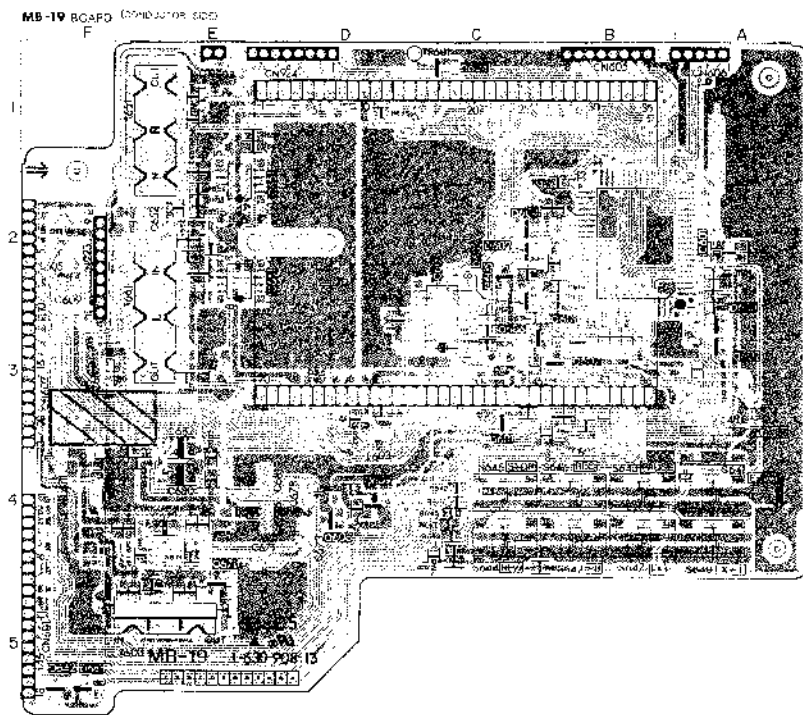
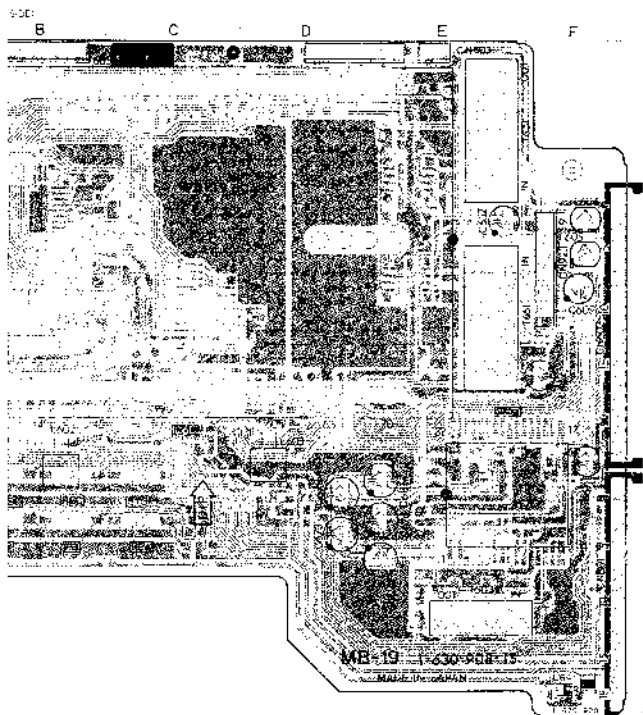
MB-19 BOARD
COMPONENT
SIDED602 D 3
D603 F 4MB-19 BOARD
CONDUCTOR
SIDED631 D 4
D632 D 3
D633 D 3
D634 F 1
D641 F 3
D642 F 3D651 B 2
D652 I 4
D653 B 2D651 S 1
D652 A 3
D653 C 3
D654 C 3
D655 B 3
D656 B 3
D657 D 4
D658 D 1
D659 I 6

MB-19 BOARD COMPONENT SIDE



MB-19 BOARD CONDUCTOR SIDE





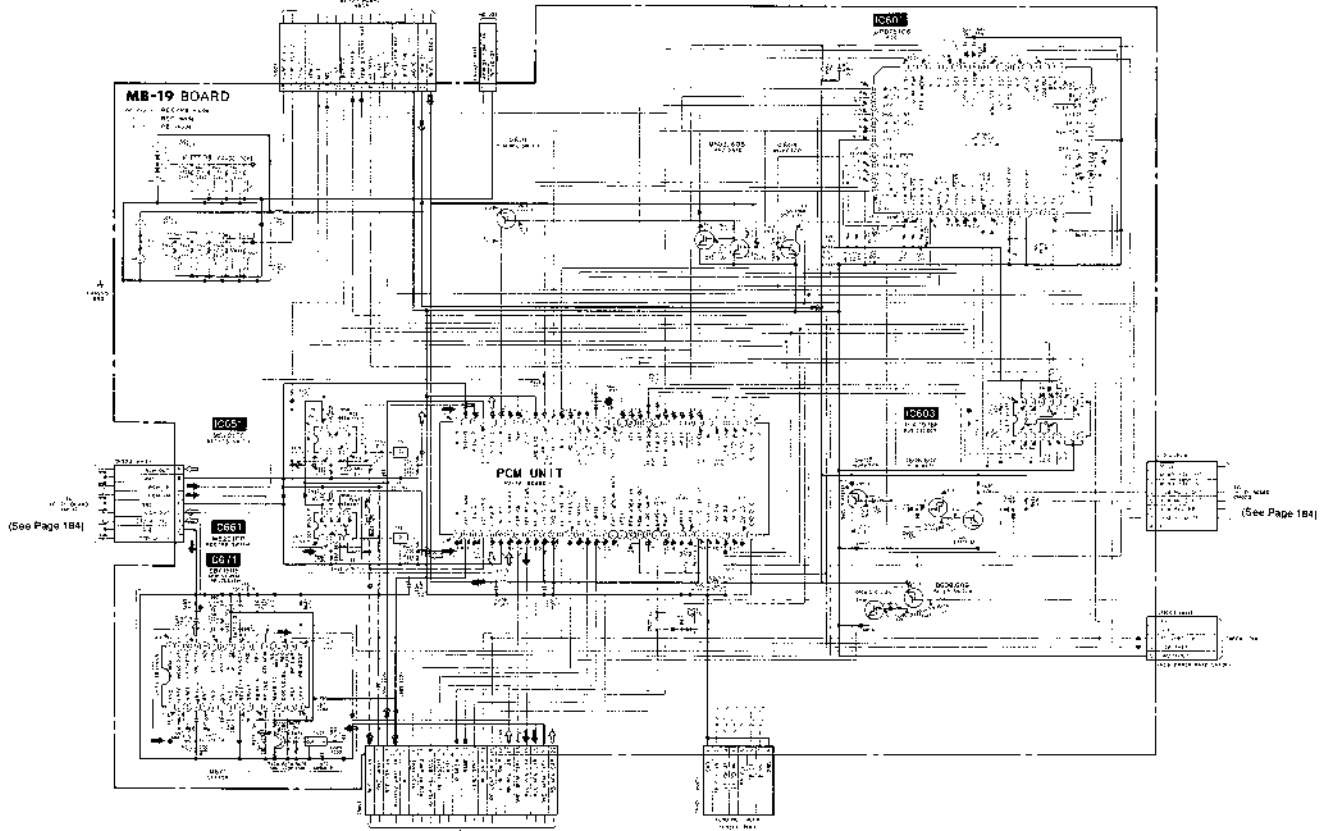
MB-19 (VTR FUNCTION SWITCH, AUDIO PROCESS) SCHEMATIC DIAGRAM

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

— Ref. No. MB-19 BOARD: 2000 series —

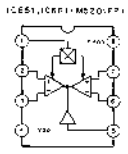
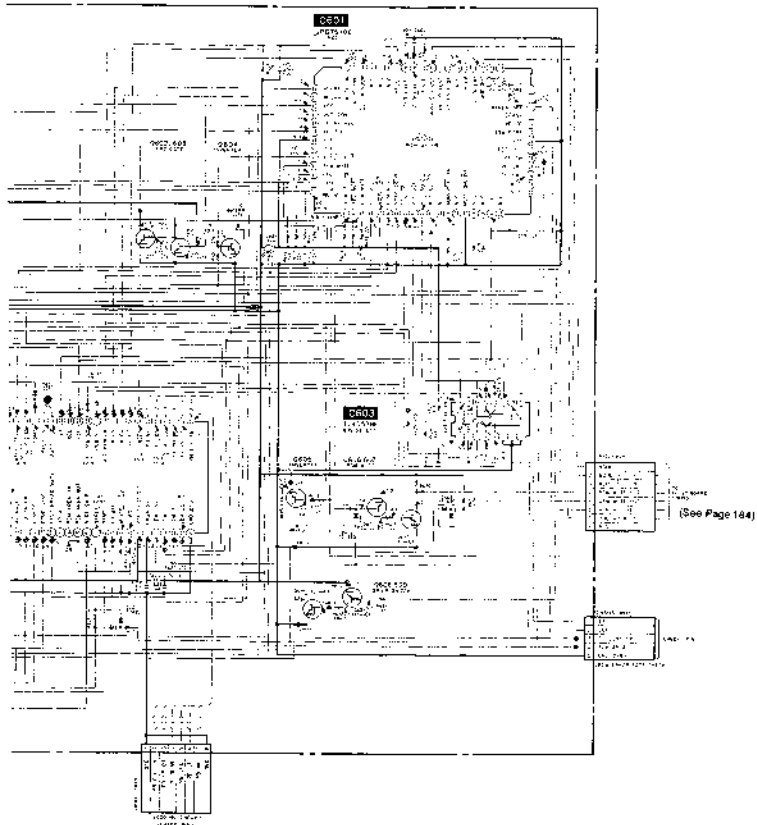
(See Page 131)

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(See Page 131)

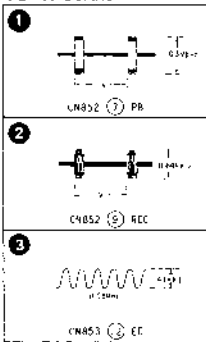
• SIG
REC
P6



• SIGNAL PATH

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	YCHROMA, DATA	
REC				→
PB				→

PD-19 BOARD



* A-7061-025-A PD-19 BOARD, COMPLETE

(DIODE)

0851	8-719-104-34	O DIODE 1S2836
0852	8-719-400-18	D DIODE MA152MK
0853	8-719-400-18	D DIODE MA152MK

(IC)

IC851	8-752-324-45	IC CD306889-Z
IC852	8-759-329-17	IC CD30681M
IC853	8-752-010-30	IC CA201403
IC854	8-752-010-20	IC CA201802
IC855	8-752-331-00	IC CA450848M-12L
IC856	8-759-940-61	IC CA23011-C
IC857	8-759-911-19	IC CA23012
IC858	8-759-977-12	IC CF77209FT
IC859	8-752-869-88	IC CA95024M-0790
IC860	8-759-912-13	IC CF77309FR

(TRANSISTOR)

0851	6-729-102-07	TRANSISTOR 2SC2223
0852	6-729-122-63	TRANSISTOR 2SA1126
0853	6-729-102-06	TRANSISTOR 2SC2223
0859	6-729-102-07	TRANSISTOR 2SC2223

PD-19 (PCM AUDIO PROCESS), PA-27 (PCM AUDIO PROCESS) PRINTED WIRING BOARDS

— Ref. No. PD-19, PA-27 BOARD, 7000 —

PD-19 BOARD (COMPLETION SHEET)

(DIODE)

D851	A-2
D852	B-3
D853	C-3

(IC)

IC851	F-3
IC852	B-2
IC853	D-1
IC857	B-1
IC858	D-1
IC859	B-1
IC860	D-1

(TRANSISTOR)

T851	B-3
------	-----

PD-19 BOARD (COMPLETION SHEET)

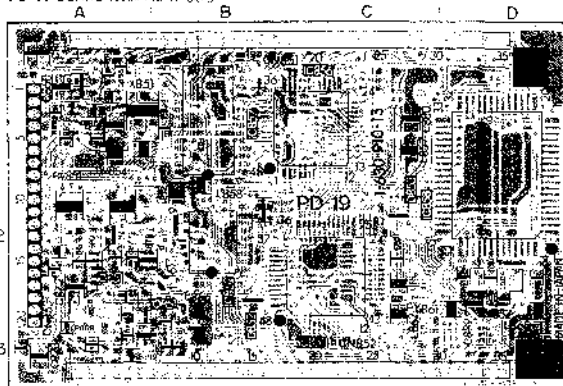
(DIODE)

IC853	A-1
IC854	A-2
IC855	C-1
IC856	C-2

(TRANSISTOR)

T857	A-3
T853	A-3

PD-19 BOARD (COMPLETION SHEET)



* A-7061-026-A PA-27 BOARD, COMPLETE

(DIODE)

D031	8-719-104-34	D DIODE 1S2836
D032	8-719-104-34	D DIODE 1S2836
D033	8-719-104-34	D DIODE 1S2836

(IC)

IC001	8-752-009-80	IC CA200899
IC002	8-755-991-92	IC NJM4558M
IC003	8-759-991-92	IC NJM4558M
IC004	8-753-325-57	IC CD30677M
IC005	8-759-800-15	IC TL431OLP

(TRANSISTOR)

0001	8-729-202-38	TRANSISTOR 2SC3326N
0002	8-729-202-38	TRANSISTOR 2SC3326N
0031	8-729-901-06	TRANSISTOR 0TA144EX
0032	8-729-901-06	TRANSISTOR 0TA144EX
0033	8-729-901-06	TRANSISTOR 0TA144EX
0054	8-729-216-27	TRANSISTOR 2SA1182
0055	8-729-216-27	TRANSISTOR 2SA1182
0051	8-729 202-38	TRANSISTOR 2SC3326N
0052	6-729 202-38	TRANSISTOR 2SC3326N

PA-27 BOARD (COMPLETION SHEET)

(DIODE)

D031	A-1
D032	A-2
D033	A-3

(IC)

IC001	A-1
IC002	A-2
IC003	A-1
IC004	A-1
IC005	A-2
IC007	B-1
IC008	B-1

PA-27 BOARD (COMPLETION SHEET)

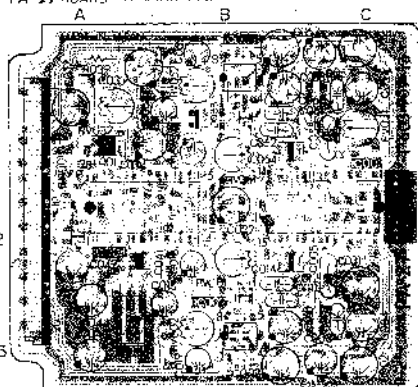
(DIODE)

D031	A-2
D032	A-1

(TRANSISTOR)

T001	A-1
T002	A-2
T003	A-1
T004	A-1
T005	A-2
T007	B-1
T008	B-1

PA-27 BOARD (COMPLETION SHEET)



PA-27 BOARD (COMPLETION SHEET)



PD-19 (PCM AUDIO PROCESS), PA-27 (PCM AUDIO PROCESS) PRINTED WIRING BOARDS

— Ref. No. PD-19, PA-27 BOARD: 5000 series —

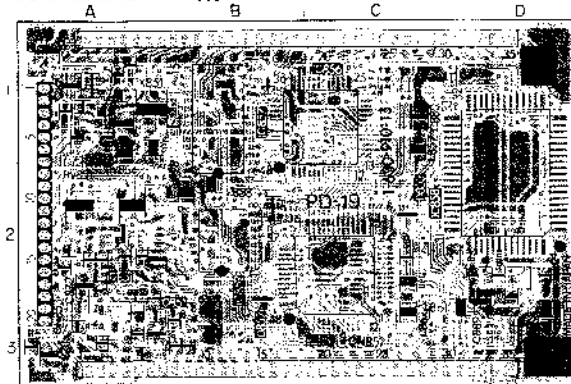
PD-19 BOARD
COMPONENT SIDE

Q801 A-1
Q802 B-1
Q803 B-2
Q804 B-3
Q805 B-4
Q806 B-5
Q807 B-6
Q808 B-7
Q809 B-8
Q810 B-9
Q811 B-10
Q812 B-11
Q813 B-12
Q814 B-13
Q815 B-14
Q816 B-15
Q817 B-16
Q818 B-17
Q819 B-18
Q820 B-19
Q821 B-20
Q822 B-21
Q823 B-22
Q824 B-23
Q825 B-24
Q826 B-25
Q827 B-26
Q828 B-27
Q829 B-28
Q830 B-29
Q831 B-30
Q832 B-31
Q833 B-32
Q834 B-33
Q835 B-34
Q836 B-35
Q837 B-36
Q838 B-37
Q839 B-38
Q840 B-39
Q841 B-40
Q842 B-41
Q843 B-42
Q844 B-43
Q845 B-44
Q846 B-45
Q847 B-46
Q848 B-47
Q849 B-48
Q850 B-49
Q851 B-50
Q852 B-51
Q853 B-52
Q854 B-53
Q855 B-54
Q856 B-55
Q857 B-56
Q858 B-57
Q859 B-58
Q860 B-59
Q861 B-60
Q862 B-61
Q863 B-62
Q864 B-63
Q865 B-64
Q866 B-65
Q867 B-66
Q868 B-67
Q869 B-68
Q870 B-69
Q871 B-70
Q872 B-71
Q873 B-72
Q874 B-73
Q875 B-74
Q876 B-75
Q877 B-76
Q878 B-77
Q879 B-78
Q880 B-79
Q881 B-80
Q882 B-81
Q883 B-82
Q884 B-83
Q885 B-84
Q886 B-85
Q887 B-86
Q888 B-87
Q889 B-88
Q890 B-89
Q891 B-90
Q892 B-91
Q893 B-92
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Q897 B-96
Q898 B-97
Q899 B-98
Q900 B-99
Q901 B-100

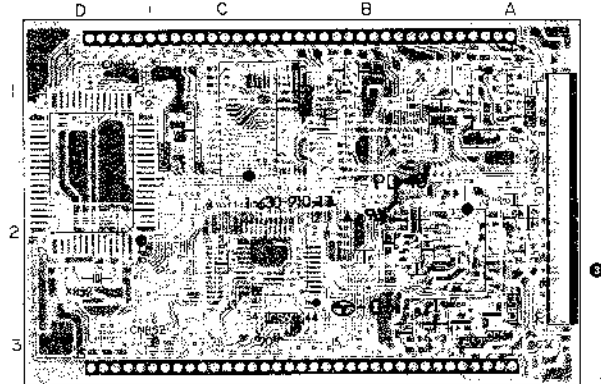
PD-19 BOARD
CONDUCTOR SIDE

W3001 A-1
W3002 A-2
W3003 A-3
W3004 A-4
W3005 A-5
W3006 A-6
W3007 A-7
W3008 A-8
W3009 A-9
W3010 A-10
W3011 A-11
W3012 A-12
W3013 A-13
W3014 A-14
W3015 A-15
W3016 A-16
W3017 A-17
W3018 A-18
W3019 A-19
W3020 A-20
W3021 A-21
W3022 A-22
W3023 A-23
W3024 A-24
W3025 A-25
W3026 A-26
W3027 A-27
W3028 A-28
W3029 A-29
W3030 A-30
W3031 A-31
W3032 A-32
W3033 A-33
W3034 A-34
W3035 A-35
W3036 A-36
W3037 A-37
W3038 A-38
W3039 A-39
W3040 A-40
W3041 A-41
W3042 A-42
W3043 A-43
W3044 A-44
W3045 A-45
W3046 A-46
W3047 A-47
W3048 A-48
W3049 A-49
W3050 A-50
W3051 A-51
W3052 A-52
W3053 A-53
W3054 A-54
W3055 A-55
W3056 A-56
W3057 A-57
W3058 A-58
W3059 A-59
W3060 A-60
W3061 A-61
W3062 A-62
W3063 A-63
W3064 A-64
W3065 A-65
W3066 A-66
W3067 A-67
W3068 A-68
W3069 A-69
W3070 A-70
W3071 A-71
W3072 A-72
W3073 A-73
W3074 A-74
W3075 A-75
W3076 A-76
W3077 A-77
W3078 A-78
W3079 A-79
W3080 A-80
W3081 A-81
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W3088 A-88
W3089 A-89
W3090 A-90
W3091 A-91
W3092 A-92
W3093 A-93
W3094 A-94
W3095 A-95
W3096 A-96
W3097 A-97
W3098 A-98
W3099 A-99
W3100 A-100

PD-19 BOARD (CONDUCTOR SIDE)



PD-19 BOARD (CONDUCTOR SIDE)



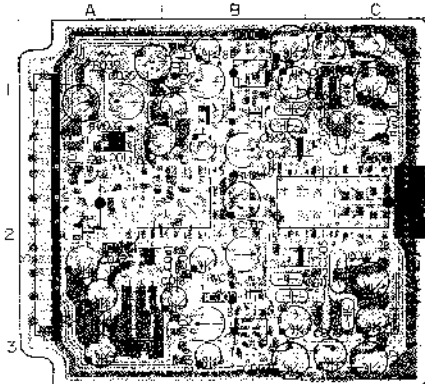
PA-27 BOARD
COMPONENT SIDE

Q1001 A-1
Q1002 A-2
Q1003 A-3
Q1004 A-4
Q1005 A-5
Q1006 A-6
Q1007 A-7
Q1008 A-8
Q1009 A-9
Q1010 A-10
Q1011 A-11
Q1012 A-12
Q1013 A-13
Q1014 A-14
Q1015 A-15
Q1016 A-16
Q1017 A-17
Q1018 A-18
Q1019 A-19
Q1020 A-20
Q1021 A-21
Q1022 A-22
Q1023 A-23
Q1024 A-24
Q1025 A-25
Q1026 A-26
Q1027 A-27
Q1028 A-28
Q1029 A-29
Q1030 A-30
Q1031 A-31
Q1032 A-32
Q1033 A-33
Q1034 A-34
Q1035 A-35
Q1036 A-36
Q1037 A-37
Q1038 A-38
Q1039 A-39
Q1040 A-40
Q1041 A-41
Q1042 A-42
Q1043 A-43
Q1044 A-44
Q1045 A-45
Q1046 A-46
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Q1048 A-48
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Q1054 A-54
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Q1056 A-56
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Q1058 A-58
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Q1064 A-64
Q1065 A-65
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Q1067 A-67
Q1068 A-68
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Q1070 A-70
Q1071 A-71
Q1072 A-72
Q1073 A-73
Q1074 A-74
Q1075 A-75
Q1076 A-76
Q1077 A-77
Q1078 A-78
Q1079 A-79
Q1080 A-80
Q1081 A-81
Q1082 A-82
Q1083 A-83
Q1084 A-84
Q1085 A-85
Q1086 A-86
Q1087 A-87
Q1088 A-88
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Q1090 A-90
Q1091 A-91
Q1092 A-92
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Q1097 A-97
Q1098 A-98
Q1099 A-99
Q1100 A-100

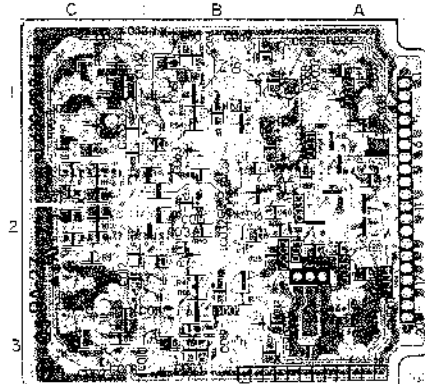
PA-27 BOARD
CONDUCTOR SIDE

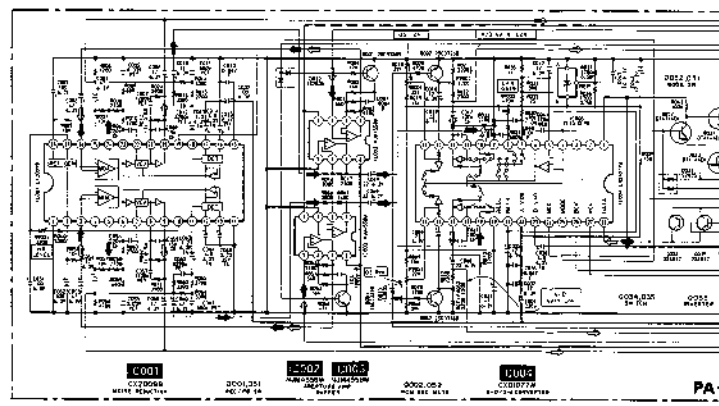
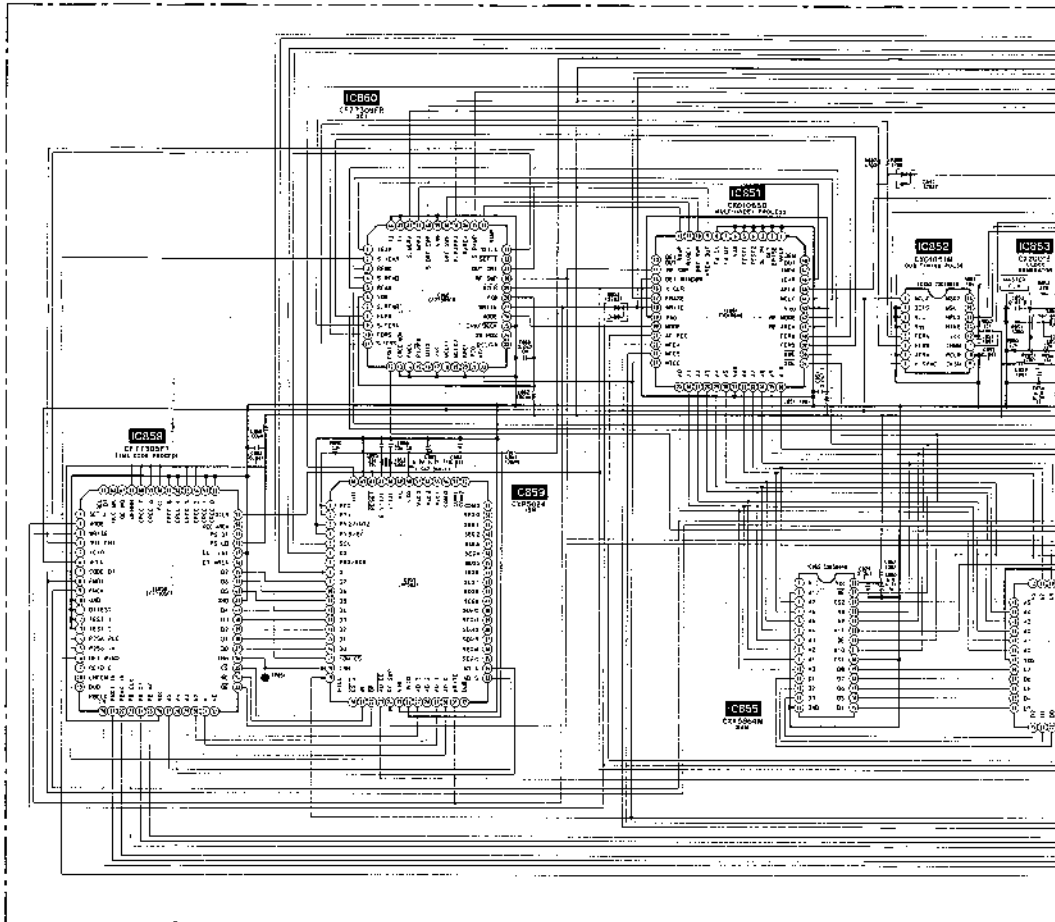
W1001 A-1
W1002 A-2
W1003 A-3
W1004 A-4
W1005 A-5
W1006 A-6
W1007 A-7
W1008 A-8
W1009 A-9
W1010 A-10
W1011 A-11
W1012 A-12
W1013 A-13
W1014 A-14
W1015 A-15
W1016 A-16
W1017 A-17
W1018 A-18
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W1021 A-21
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W1086 A-86
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W1093 A-93
W1094 A-94
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W1098 A-98
W1099 A-99
W1100 A-100

PA-27 BOARD (CONDUCTOR SIDE)

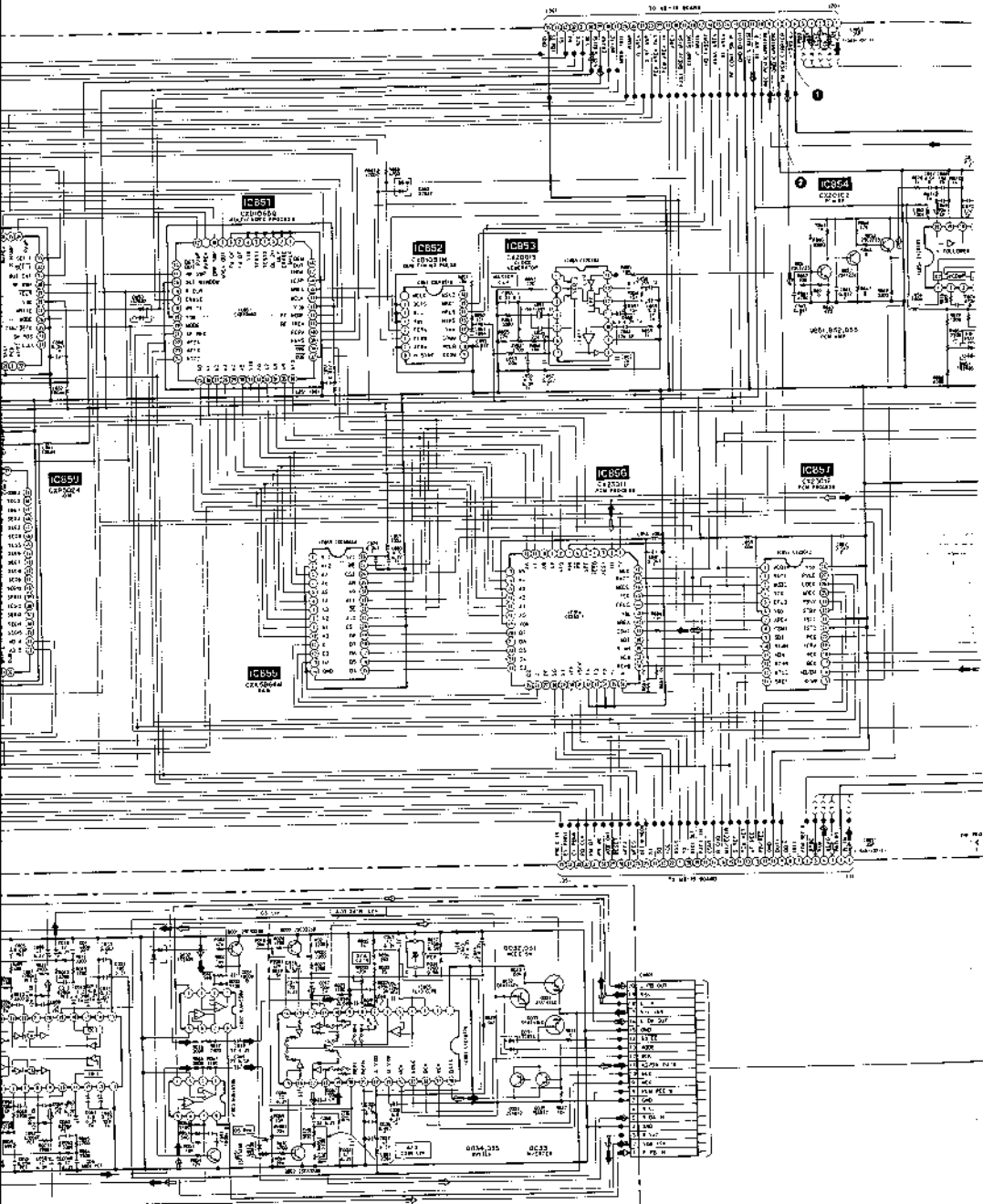


PA-27 BOARD (COMPONENT SIDE)



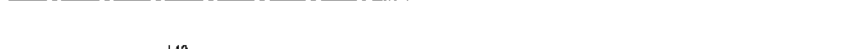
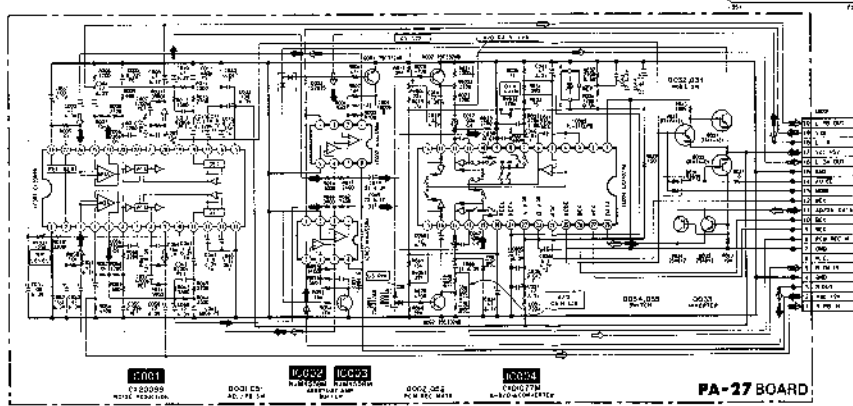
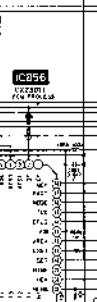
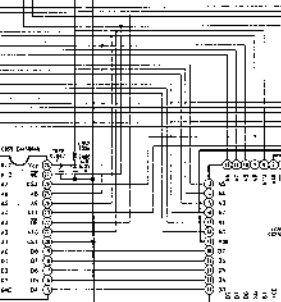
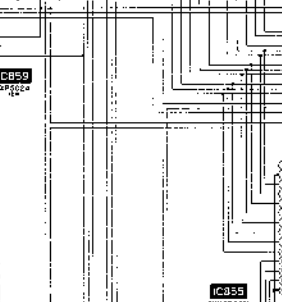
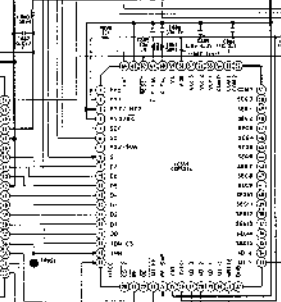
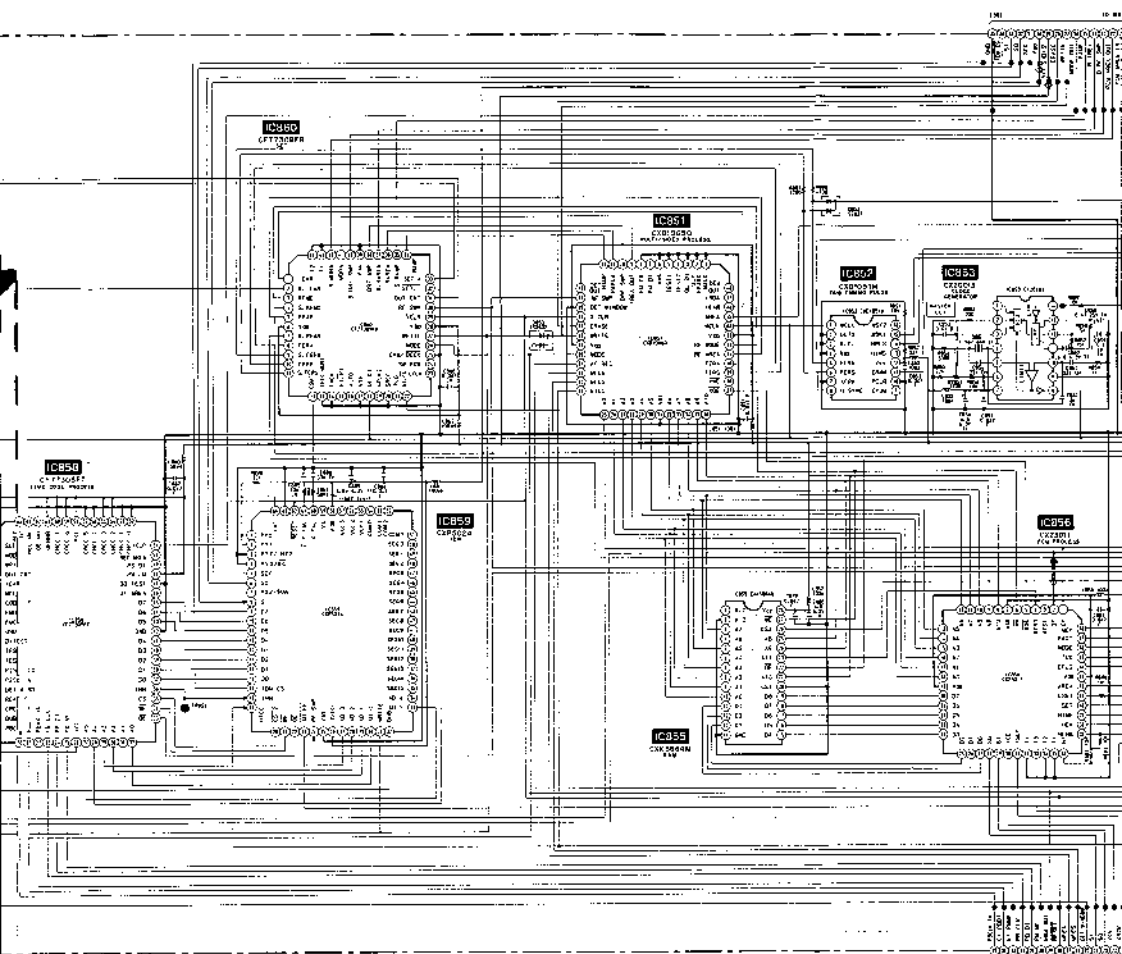


(See Page 141)



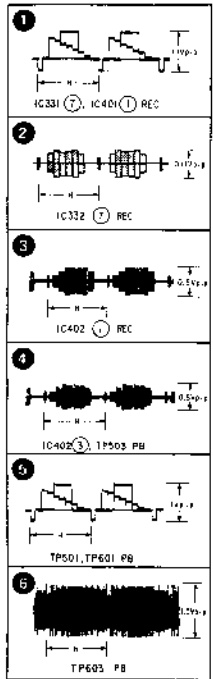
IC801 3800091 4013 16
IC802 IC803 3800092 4013 16
IC804 IC805 3800093 4013 16
IC806 3800094 4013 16
IC807 3800095 4013 16
IC808 3800096 4013 16
IC809 3800097 4013 16
IC810 3800098 4013 16
IC811 3800099 4013 16
IC812 3800100 4013 16
IC813 3800101 4013 16
IC814 3800102 4013 16
IC815 3800103 4013 16
IC816 3800104 4013 16
IC817 3800105 4013 16
IC818 3800106 4013 16
IC819 3800107 4013 16
IC820 3800108 4013 16
IC821 3800109 4013 16
IC822 3800110 4013 16
IC823 3800111 4013 16
IC824 3800112 4013 16
IC825 3800113 4013 16
IC826 3800114 4013 16
IC827 3800115 4013 16
IC828 3800116 4013 16
IC829 3800117 4013 16
IC830 3800118 4013 16
IC831 3800119 4013 16
IC832 3800120 4013 16
IC833 3800121 4013 16
IC834 3800122 4013 16
IC835 3800123 4013 16
IC836 3800124 4013 16
IC837 3800125 4013 16
IC838 3800126 4013 16
IC839 3800127 4013 16
IC840 3800128 4013 16
IC841 3800129 4013 16
IC842 3800130 4013 16
IC843 3800131 4013 16
IC844 3800132 4013 16
IC845 3800133 4013 16
IC846 3800134 4013 16
IC847 3800135 4013 16
IC848 3800136 4013 16
IC849 3800137 4013 16
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IC851 3800139 4013 16
IC852 3800140 4013 16
IC853 3800141 4013 16
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IC855 3800143 4013 16
IC856 3800144 4013 16
IC857 3800145 4013 16
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IC861 3800149 4013 16
IC862 3800150 4013 16
IC863 3800151 4013 16
IC864 3800152 4013 16
IC865 3800153 4013 16
IC866 3800154 4013 16
IC867 3800155 4013 16
IC868 3800156 4013 16
IC869 3800157 4013 16
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IC893 3800181 4013 16
IC894 3800182 4013 16
IC895 3800183 4013 16
IC896 3800184 4013 16
IC897 3800185 4013 16
IC898 3800186 4013 16
IC899 3800187 4013 16
IC900 3800188 4013 16

PA-27 BOARD



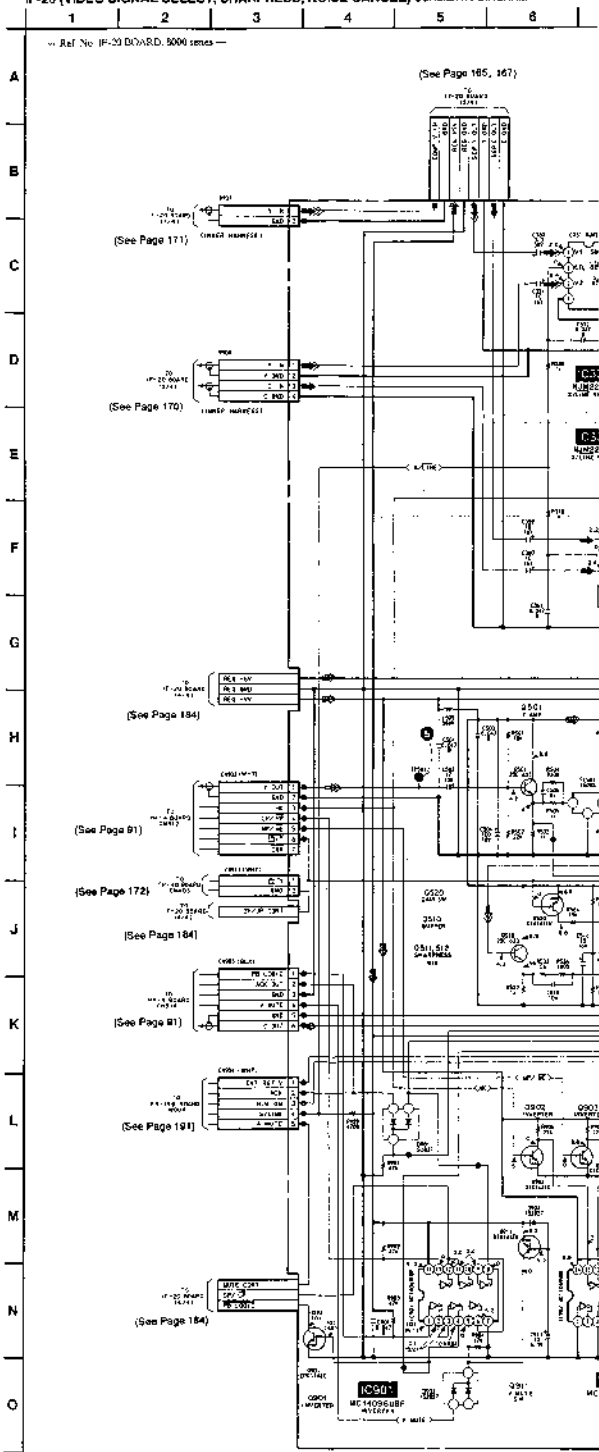
PA-27 BOARD

IF-20 BOARD (1/4)

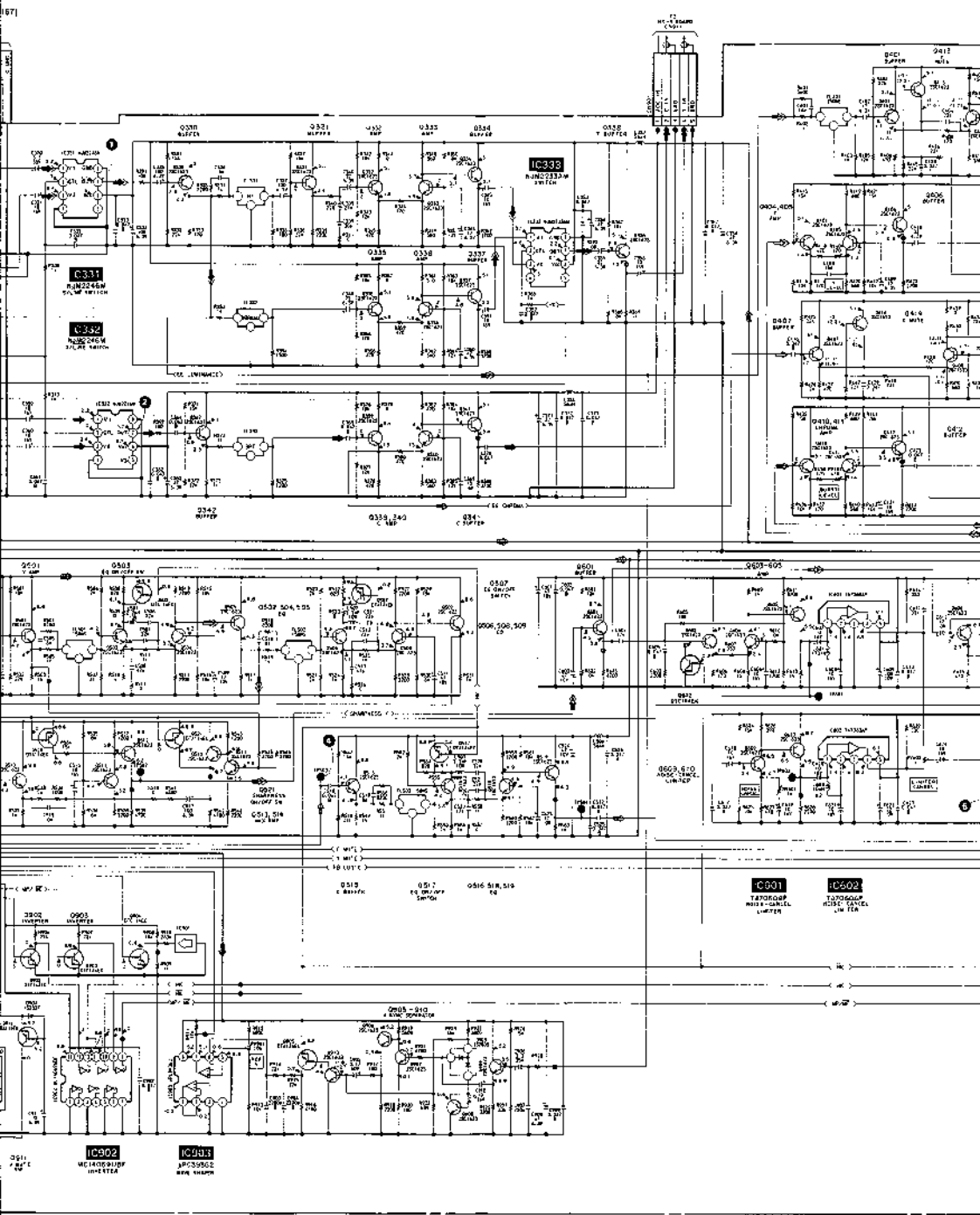


• SIGNAL PATH

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC	→	→	→	
PB	↔	↔		



(See Page 81)

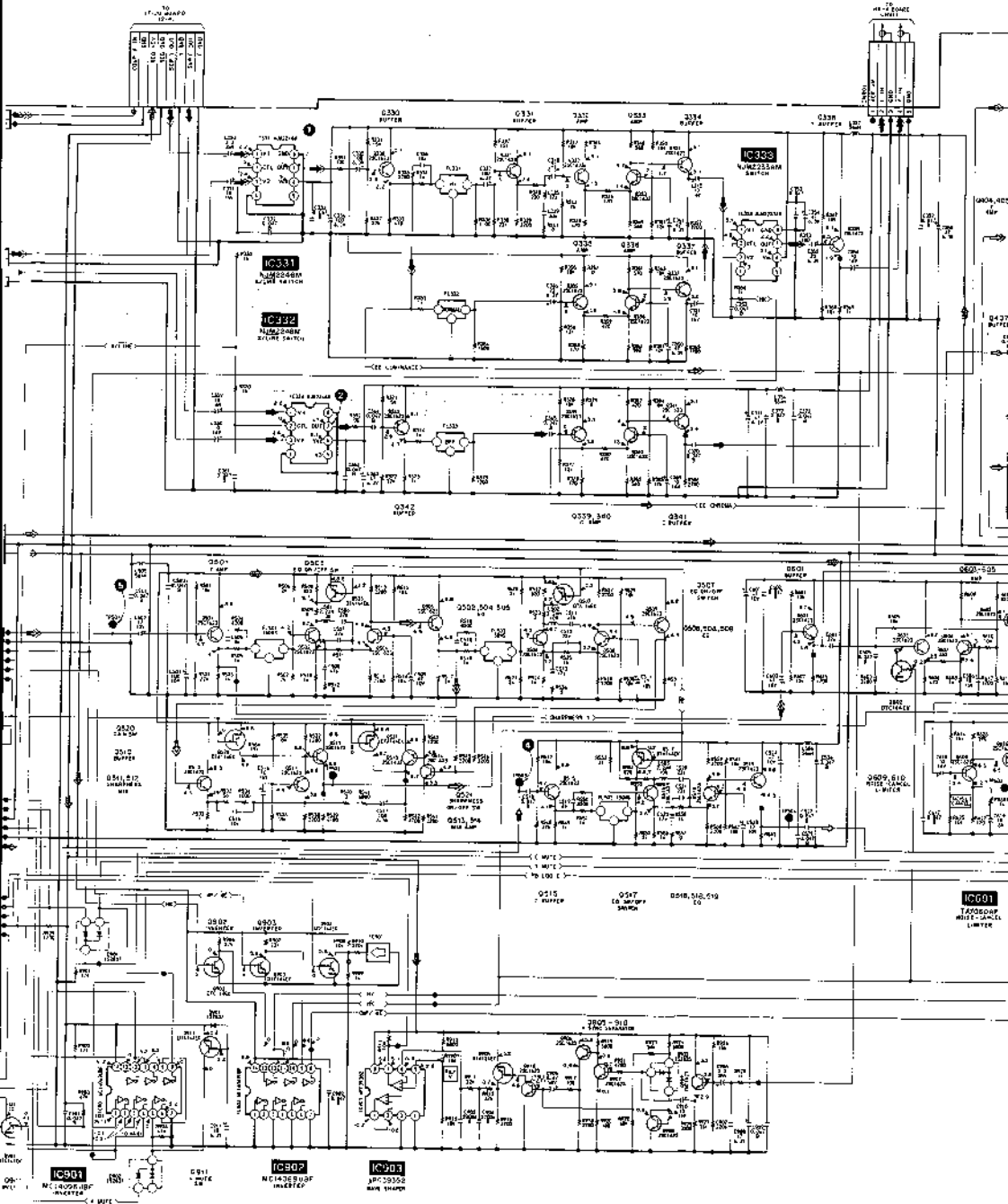


S. NOISE CANCEL) SCHEMATIC DIAGRAM

4 5 6 7 8 9 10 11 12 13 14 15

(See Page 105, 107)

(See Page 91)



IC301
NC 14228-00F
NOISE CANCELER

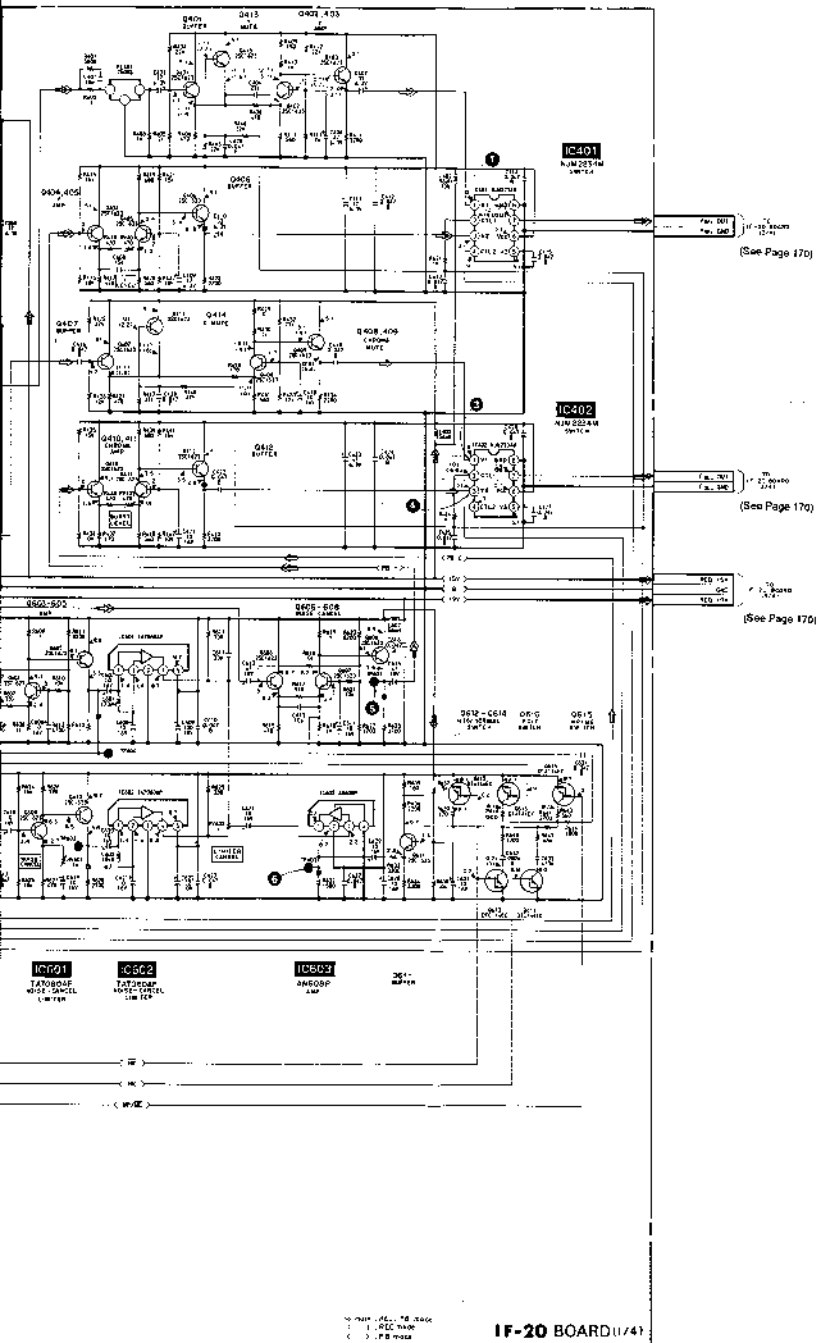
IC302
NC 14228-00F
NOISE CANCELER

IC303
NC 14228-00F
NOISE CANCELER

IC304
NC 14228-00F
NOISE CANCELER

IC305
NC 14228-00F
NOISE CANCELER

IC310
NC 14228-00F
NOISE CANCELER



(See Page 170)

(See Page 170)

(See Page 170)

IC601 TAYBRAF
VIDEO CONTROL
1-1/2" x 1-1/2" x 1-1/2"

IC602 TAYBRAF
VIDEO CONTROL
1-1/2" x 1-1/2" x 1-1/2"

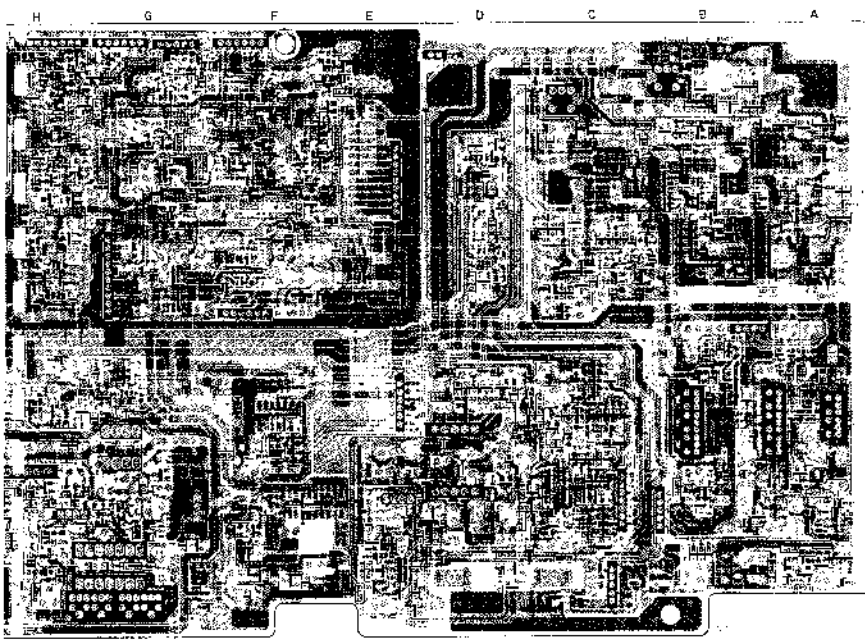
IC603 SNEEQP
AMP

26+ MOTOR

IF-20 BOARD (1/4)

1 - REC. MADE
2 - PB. MADE

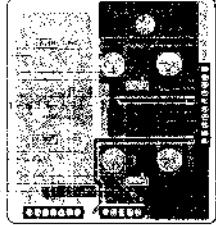
A144EK	0210	8-729-320-17 TRANSISTOR 25A11220D	Q233	8-729-100-66 TRANSISTOR 25C1623	Q406	8-729-100-66 TRANSISTOR 25C1623	Q512	8-729-100-66 TRANSISTOR 25C1623	Q611	8-729-100-66 TRANSISTOR 25C1623
C1 5K	0211	8-729-320-17 TRANSISTOR 25A11220D	Q234	8-729-100-66 TRANSISTOR 25C1623	Q407	8-729-100-66 TRANSISTOR 25C1623	Q513	8-729-100-66 TRANSISTOR 25C1623	Q612	8-729-901-06 TRANSISTOR DT4144EK
A1 5K	0212	8-729-100-66 TRANSISTOR 25C1623	Q330	8-729-100-66 TRANSISTOR 25C1623	Q403	8-729-100-66 TRANSISTOR 25C1623	Q514	8-729-100-66 TRANSISTOR 25C1623	Q613	8-729-901-06 TRANSISTOR DT4144EK
C144EK	0213	8-729-100-66 TRANSISTOR 25C1623	Q331	8-729-100-66 TRANSISTOR 25C1623	Q409	8-729-100-66 TRANSISTOR 25C1623	Q515	8-729-100-66 TRANSISTOR 25C1623	Q614	8-729-901-06 TRANSISTOR DT4144EK
C144EK	0214	8-729-100-66 TRANSISTOR 25C1623	Q332	8-729-100-66 TRANSISTOR 25C1623	Q410	8-729-100-66 TRANSISTOR 25C1623	Q516	8-729-100-66 TRANSISTOR 25C1623	Q615	8-729-901-06 TRANSISTOR DT4144EK
A1 2	0215	8-729-100-66 TRANSISTOR 25C1623	Q333	8-729-100-66 TRANSISTOR 25C1623	Q411	8-729-100-66 TRANSISTOR 25C1623	Q517	8-729-901-06 TRANSISTOR DT4144EK	Q616	8-729-901-06 TRANSISTOR DT4144EK
C144EK	0216	8-729-100-66 TRANSISTOR 25C1623	Q334	8-729-100-66 TRANSISTOR 25C1623	Q412	8-729-100-66 TRANSISTOR 25C1623	Q518	8-729-200-66 TRANSISTOR 25C1623	Q701	8-729-100-66 TRANSISTOR 25C1623
D144EK	0217	8-729-100-66 TRANSISTOR 25C1623	Q335	8-729-100-66 TRANSISTOR 25C1623	Q413	8-729-100-66 TRANSISTOR 25C1623	Q519	8-729-100-66 TRANSISTOR 25C1623	Q702	8-729-100-66 TRANSISTOR 25C1623
A1 6K	0220	8-729-100-66 TRANSISTOR 25C1623	Q336	8-729-100-66 TRANSISTOR 25C1623	Q414	8-729-100-66 TRANSISTOR 25C1623	Q520	8-729-901-06 TRANSISTOR DT4144EK	Q703	8-729-202-38 TRANSISTOR 25C3320N
A1 6K	0221	8-729-100-66 TRANSISTOR 25C1623	Q337	8-729-100-66 TRANSISTOR 25C1623	Q401	8-729-100-66 TRANSISTOR 25C1623	Q521	8-729-901-06 TRANSISTOR DT4144EK	Q704	8-729-100-66 TRANSISTOR 25C1623
A1102	0222	8-729-100-66 TRANSISTOR 25C1623	Q338	8-729-100-66 TRANSISTOR 25C1623	Q502	8-729-100-66 TRANSISTOR 25C1623	Q601	8-729-100-66 TRANSISTOR 25C1623	Q705	8-729-100-66 TRANSISTOR 25C1623
C1 3	0223	8-729-100-66 TRANSISTOR 25C1623	Q339	8-729-100-66 TRANSISTOR 25C1623	Q503	8-729-100-66 TRANSISTOR 25C1623	Q602	8-729-301-01 TRANSISTOR DT4144EK	Q706	8-729-100-66 TRANSISTOR 25C1623
C1 3	0224	8-729-100-66 TRANSISTOR 25C1623	Q340	8-729-100-66 TRANSISTOR 25C1623	Q504	8-729-100-66 TRANSISTOR 25C1623	Q603	8-729-100-66 TRANSISTOR 25C1623	Q707	8-729-100-66 TRANSISTOR 25C1623
SC1623	0225	8-729-100-66 TRANSISTOR 25C1623	Q341	8-729-100-66 TRANSISTOR 25C1623	Q505	8-729-100-66 TRANSISTOR 25C1623	Q604	8-729-100-66 TRANSISTOR 25C1623	Q708	8-729-100-66 TRANSISTOR 25C1623
SA11220D	0226	8-729-320-17 TRANSISTOR 25A11220D	Q342	8-729-100-66 TRANSISTOR 25C1623	Q506	8-729-100-66 TRANSISTOR 25C1623	Q605	8-729-100-66 TRANSISTOR 25C1623	Q709	8-729-100-66 TRANSISTOR 25C1623
SC 3	0227	8-729-100-66 TRANSISTOR 25C1623	Q401	8-729-100-66 TRANSISTOR 25C1623	Q507	8-729-901-06 TRANSISTOR DT4144EK	Q606	8-729-100-66 TRANSISTOR 25C1623	Q710	8-729-100-66 TRANSISTOR 25C1623
SC1623	0228	8-729-100-66 TRANSISTOR 25C1623	Q402	8-729-100-66 TRANSISTOR 25C1623	Q508	8-729-100-66 TRANSISTOR 25C1623	Q607	8-729-100-66 TRANSISTOR 25C1623	Q711	8-729-100-66 TRANSISTOR 25C1623
SC1623	0229	8-729-100-66 TRANSISTOR 25C1623	Q403	8-729-100-66 TRANSISTOR 25C1623	Q509	8-729-100-66 TRANSISTOR 25C1623	Q608	8-729-100-66 TRANSISTOR 25C1623	Q712	8-729-100-66 TRANSISTOR 25C1623
SA 1220	0230	8-729-100-66 TRANSISTOR 25C1623	Q404	8-729-100-66 TRANSISTOR 25C1623	Q510	8-729-100-66 TRANSISTOR 25C1623	Q609	8-729-100-66 TRANSISTOR 25C1623	Q713	8-729-100-66 TRANSISTOR 25C1623
SA 1220	0231	8-729-100-66 TRANSISTOR 25C1623	Q405	8-729-100-66 TRANSISTOR 25C1623	Q511	8-729-100-66 TRANSISTOR 25C1623	Q610	8-729-100-66 TRANSISTOR 25C1623	Q714	8-729-100-66 TRANSISTOR 25C1623



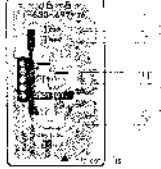
7N-40 100-66 TRANSISTOR



JB-4 8-729-100-66 TRANSISTOR



JB-5 8-729-100-66 TRANSISTOR



A 1-633-697-11 JB-5 BOARD

(DIODE)
 D301 8-729-500-76 DIODE 1SS226
 (TRANSISTOR)
 D302 8-729-216-22 TRANSISTOR 25A1182

IF-20 (VIDEO SIGNAL SELECT, SHARPNESS, NOISE CANCEL, YX FILTER, Y/C MIX, AUDIO SIGNAL SELECT), JB-4 (VIDEO, AUDIO JACK), JB-5 (VIDEO, AUDIO, RFU DC OUT JACK), TR-40 (S VIDEO JACK EDIT, SYNC SWITCH) PRINTED WIRING BOARD

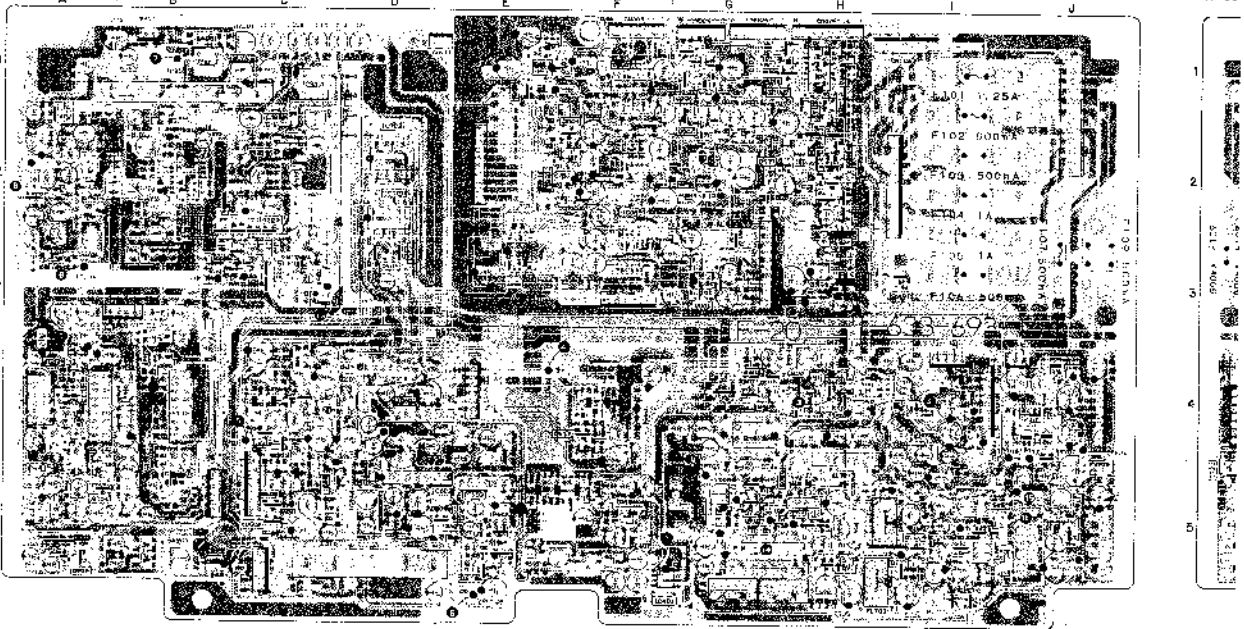
— Ref No. IF-20 BOARD, 8000 series: IM-4, JB-5, TR-40 BOARD: 3000 series

IF-T302-009-A IF-20 BOARD, COMPLETE

(DIODE)

F/C (MARK) EQUIPMENT SIZE	IF-20 BOARD (CONDUCTOR SIZE)	QTY	DESCRIPTION	REF. NO.
2661	F-0	1	2N692	C-4
3004	F-1	1	2N2222	C-4
3005	F-2	1	2N2222	C-4
3006	F-3	1	2N2222	C-4
3007	F-4	1	2N2222	C-4
3008	F-5	1	2N2222	C-4
3009	F-6	1	2N2222	C-4
3010	F-7	1	2N2222	C-4
3011	F-8	1	2N2222	C-4
3012	F-9	1	2N2222	C-4
3013	F-10	1	2N2222	C-4
3014	F-11	1	2N2222	C-4
3015	F-12	1	2N2222	C-4
3016	F-13	1	2N2222	C-4
3017	F-14	1	2N2222	C-4
3018	F-15	1	2N2222	C-4
3019	F-16	1	2N2222	C-4
3020	F-17	1	2N2222	C-4
3021	F-18	1	2N2222	C-4
3022	F-19	1	2N2222	C-4
3023	F-20	1	2N2222	C-4
3024	F-21	1	2N2222	C-4
3025	F-22	1	2N2222	C-4
3026	F-23	1	2N2222	C-4
3027	F-24	1	2N2222	C-4
3028	F-25	1	2N2222	C-4
3029	F-26	1	2N2222	C-4
3030	F-27	1	2N2222	C-4
3031	F-28	1	2N2222	C-4
3032	F-29	1	2N2222	C-4
3033	F-30	1	2N2222	C-4
3034	F-31	1	2N2222	C-4
3035	F-32	1	2N2222	C-4
3036	F-33	1	2N2222	C-4
3037	F-34	1	2N2222	C-4
3038	F-35	1	2N2222	C-4
3039	F-36	1	2N2222	C-4
3040	F-37	1	2N2222	C-4
3041	F-38	1	2N2222	C-4
3042	F-39	1	2N2222	C-4
3043	F-40	1	2N2222	C-4
3044	F-41	1	2N2222	C-4
3045	F-42	1	2N2222	C-4
3046	F-43	1	2N2222	C-4
3047	F-44	1	2N2222	C-4
3048	F-45	1	2N2222	C-4
3049	F-46	1	2N2222	C-4
3050	F-47	1	2N2222	C-4
3051	F-48	1	2N2222	C-4
3052	F-49	1	2N2222	C-4
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3054	F-51	1	2N2222	C-4
3055	F-52	1	2N2222	C-4
3056	F-53	1	2N2222	C-4
3057	F-54	1	2N2222	C-4
3058	F-55	1	2N2222	C-4
3059	F-56	1	2N2222	C-4
3060	F-57	1	2N2222	C-4
3061	F-58	1	2N2222	C-4
3062	F-59	1	2N2222	C-4
3063	F-60	1	2N2222	C-4
3064	F-61	1	2N2222	C-4
3065	F-62	1	2N2222	C-4
3066	F-63	1	2N2222	C-4
3067	F-64	1	2N2222	C-4
3068	F-65	1	2N2222	C-4
3069	F-66	1	2N2222	C-4
3070	F-67	1	2N2222	C-4
3071	F-68	1	2N2222	C-4
3072	F-69	1	2N2222	C-4
3073	F-70	1	2N2222	C-4
3074	F-71	1	2N2222	C-4
3075	F-72	1	2N2222	C-4
3076	F-73	1	2N2222	C-4
3077	F-74	1	2N2222	C-4
3078	F-75	1	2N2222	C-4
3079	F-76	1	2N2222	C-4
3080	F-77	1	2N2222	C-4
3081	F-78	1	2N2222	C-4
3082	F-79	1	2N2222	C-4
3083	F-80	1	2N2222	C-4
3084	F-81	1	2N2222	C-4
3085	F-82	1	2N2222	C-4
3086	F-83	1	2N2222	C-4
3087	F-84	1	2N2222	C-4
3088	F-85	1	2N2222	C-4
3089	F-86	1	2N2222	C-4
3090	F-87	1	2N2222	C-4
3091	F-88	1	2N2222	C-4
3092	F-89	1	2N2222	C-4
3093	F-90	1	2N2222	C-4
3094	F-91	1	2N2222	C-4
3095	F-92	1	2N2222	C-4
3096	F-93	1	2N2222	C-4
3097	F-94	1	2N2222	C-4
3098	F-95	1	2N2222	C-4
3099	F-96	1	2N2222	C-4
3100	F-97	1	2N2222	C-4
3101	F-98	1	2N2222	C-4
3102	F-99	1	2N2222	C-4
3103	F-100	1	2N2222	C-4

IF-20 BOARD DIMENSIONS



(IC)	(TRANSISTOR)	(TRANSISTOR)	(TRANSISTOR)	(TRANSISTOR)			
IC001	8-759-081-92 IC RC4559U	IC401	8-759-111-71 IC NJM2234W	Q001	8-729-202-38 TRANSISTOR 2SC3326N	Q058	8-729-202-38 TRANSISTOR 2S
IC002	8-759-081-92 IC RC4559U	IC402	8-759-111-71 IC NJM2234W	Q002	8-729-202-38 TRANSISTOR 2SC3326N	Q059	8-729-202-38 TRANSISTOR 2S
IC003	8-759-081-92 IC RC4559U	IC403	8-759-111-71 IC NJM2234W	Q003	8-729-202-38 TRANSISTOR 2SC3326N	Q060	8-729-202-38 TRANSISTOR 2S
IC004	8-759-081-92 IC RC4559U	IC404	8-759-111-71 IC NJM2234W	Q004	8-729-202-38 TRANSISTOR 2SC3326N	Q061	8-729-202-38 TRANSISTOR 2S
IC005	8-759-081-92 IC RC4559U	IC405	8-759-111-71 IC NJM2234W	Q005	8-729-202-38 TRANSISTOR 2SC3326N	Q062	8-729-202-38 TRANSISTOR 2S
IC006	8-759-081-92 IC RC4559U	IC406	8-759-111-71 IC NJM2234W	Q006	8-729-202-38 TRANSISTOR 2SC3326N	Q063	8-729-202-38 TRANSISTOR 2S
IC007	8-759-081-92 IC RC4559U	IC407	8-759-111-71 IC NJM2234W	Q007	8-729-202-38 TRANSISTOR 2SC3326N	Q064	8-729-202-38 TRANSISTOR 2S
IC008	8-759-081-92 IC RC4559U	IC408	8-759-111-71 IC NJM2234W	Q008	8-729-202-38 TRANSISTOR 2SC3326N	Q065	8-729-202-38 TRANSISTOR 2S
IC009	8-759-081-92 IC RC4559U	IC409	8-759-111-71 IC NJM2234W	Q009	8-729-202-38 TRANSISTOR 2SC3326N	Q066	8-729-202-38 TRANSISTOR 2S
IC010	8-759-081-92 IC RC4559U	IC410	8-759-111-71 IC NJM2234W	Q010	8-729-202-38 TRANSISTOR 2SC3326N	Q067	8-729-202-38 TRANSISTOR 2S
IC011	8-759-081-92 IC RC4559U	IC411	8-759-111-71 IC NJM2234W	Q011	8-729-202-38 TRANSISTOR 2SC3326N	Q068	8-729-202-38 TRANSISTOR 2S
IC012	8-759-081-92 IC RC4559U	IC412	8-759-111-71 IC NJM2234W	Q012	8-729-202-38 TRANSISTOR 2SC3326N	Q069	8-729-202-38 TRANSISTOR 2S
IC013	8-759-081-92 IC RC4559U	IC413	8-759-111-71 IC NJM2234W	Q013	8-729-202-38 TRANSISTOR 2SC3326N	Q070	8-729-202-38 TRANSISTOR 2S
IC014	8-759-081-92 IC RC4559U	IC414	8-759-111-71 IC NJM2234W	Q014	8-729-202-38 TRANSISTOR 2SC3326N	Q071	8-729-202-38 TRANSISTOR 2S
IC015	8-759-081-92 IC RC4559U	IC415	8-759-111-71 IC NJM2234W	Q015	8-729-202-38 TRANSISTOR 2SC3326N	Q072	8-729-202-38 TRANSISTOR 2S
IC016	8-759-081-92 IC RC4559U	IC416	8-759-111-71 IC NJM2234W	Q016	8-729-202-38 TRANSISTOR 2SC3326N	Q073	8-729-202-38 TRANSISTOR 2S
IC017	8-759-081-92 IC RC4559U	IC417	8-759-111-71 IC NJM2234W	Q017	8-729-202-38 TRANSISTOR 2SC3326N	Q074	8-729-202-38 TRANSISTOR 2S
IC018	8-759-081-92 IC RC4559U	IC418	8-759-111-71 IC NJM2234W	Q018	8-729-202-38 TRANSISTOR 2SC3326N	Q075	8-729-202-38 TRANSISTOR 2S
IC019	8-759-081-92 IC RC4559U	IC419	8-759-111-71 IC NJM2234W	Q019	8-729-202-38 TRANSISTOR 2SC3326N	Q076	8-729-202-38 TRANSISTOR 2S
IC020	8-759-081-92 IC RC4559U	IC420	8-759-111-71 IC NJM2234W	Q020	8-729-202-38 TRANSISTOR 2SC3326N	Q077	8-729-202-38 TRANSISTOR 2S
IC021	8-759-081-92 IC RC4559U	IC421	8-759-111-71 IC NJM2234W	Q021	8-729-202-38 TRANSISTOR 2SC3326N	Q078	8-729-202-38 TRANSISTOR 2S
IC022	8-759-081-92 IC RC4559U	IC422	8-759-111-71 IC NJM2234W	Q022	8-729-202-38 TRANSISTOR 2SC3326N	Q079	8-729-202-38 TRANSISTOR 2S
IC023	8-759-081-92 IC RC4559U	IC423	8-759-111-71 IC NJM2234W	Q023	8-729-202-38 TRANSISTOR 2SC3326N	Q080	8-729-202-38 TRANSISTOR 2S
IC024	8-759-081-92 IC RC4559U	IC424	8-759-111-71 IC NJM2234W	Q024	8-729-202-38 TRANSISTOR 2SC3326N	Q081	8-729-202-38 TRANSISTOR 2S
IC025	8-759-081-92 IC RC4559U	IC425	8-759-111-71 IC NJM2234W	Q025	8-729-202-38 TRANSISTOR 2SC3326N	Q082	8-729-202-38 TRANSISTOR 2S
IC026	8-759-081-92 IC RC4559U	IC426	8-759-111-71 IC NJM2234W	Q026	8-729-202-38 TRANSISTOR 2SC3326N	Q083	8-729-202-38 TRANSISTOR 2S
IC027	8-759-081-92 IC RC4559U	IC427	8-759-111-71 IC NJM2234W	Q027	8-729-202-38 TRANSISTOR 2SC3326N	Q084	8-729-202-38 TRANSISTOR 2S
IC028	8-759-081-92 IC RC4559U	IC428	8-759-111-71 IC NJM2234W	Q028	8-729-202-38 TRANSISTOR 2SC3326N	Q085	8-729-202-38 TRANSISTOR 2S
IC029	8-759-081-92 IC RC4559U	IC429	8-759-111-71 IC NJM2234W	Q029	8-729-202-38 TRANSISTOR 2SC3326N	Q086	8-729-202-38 TRANSISTOR 2S
IC030	8-759-081-92 IC RC4559U	IC430	8-759-111-71 IC NJM2234W	Q030	8-729-202-38 TRANSISTOR 2SC3326N	Q087	8-729-202-38 TRANSISTOR 2S
IC031	8-759-081-92 IC RC4559U	IC431	8-759-111-71 IC NJM2234W	Q031	8-729-202-38 TRANSISTOR 2SC3326N	Q088	8-729-202-38 TRANSISTOR 2S
IC032	8-759-081-92 IC RC4559U	IC432	8-759-111-71 IC NJM2234W	Q032	8-729-202-38 TRANSISTOR 2SC3326N	Q089	8-729-202-38 TRANSISTOR 2S
IC033	8-759-081-92 IC RC4559U	IC433	8-759-111-71 IC NJM2234W	Q033	8-729-202-38 TRANSISTOR 2SC3326N	Q090	8-729-202-38 TRANSISTOR 2S

VIDEO JACK EDIT, SYNC SWITCH) PRINTED WIRING BOARDS

(TRANSISTOR)		
0056	8-729-202-38	TRANSISTOR 25C3269H
0057	8-729-202-38	TRANSISTOR 25C3322H
0060	8-729-101-07	TRANSISTOR 25C3798
0061	8-729-901-01	TRANSISTOR DT1A446X
0163	8-729-901-56	TRANSISTOR DT1A446X
0165	8-729-901-84	TRANSISTOR DT1A446X
0167	8-729-100-86	TRANSISTOR 25C1623
0168	8-729-901-96	TRANSISTOR DT1A446X
0169	8-729-901-56	TRANSISTOR DT1A446X
0170	8-729-901-16	TRANSISTOR DT1A446X
0171	8-729-901-95	TRANSISTOR DT1A446X
0172	8-729-100-86	TRANSISTOR 25C1623
0174	8-729-901-16	TRANSISTOR DT1A446X
0175	8-729-901-18	TRANSISTOR DT1A446X
0176	8-729-901-85	TRANSISTOR DT1A446X

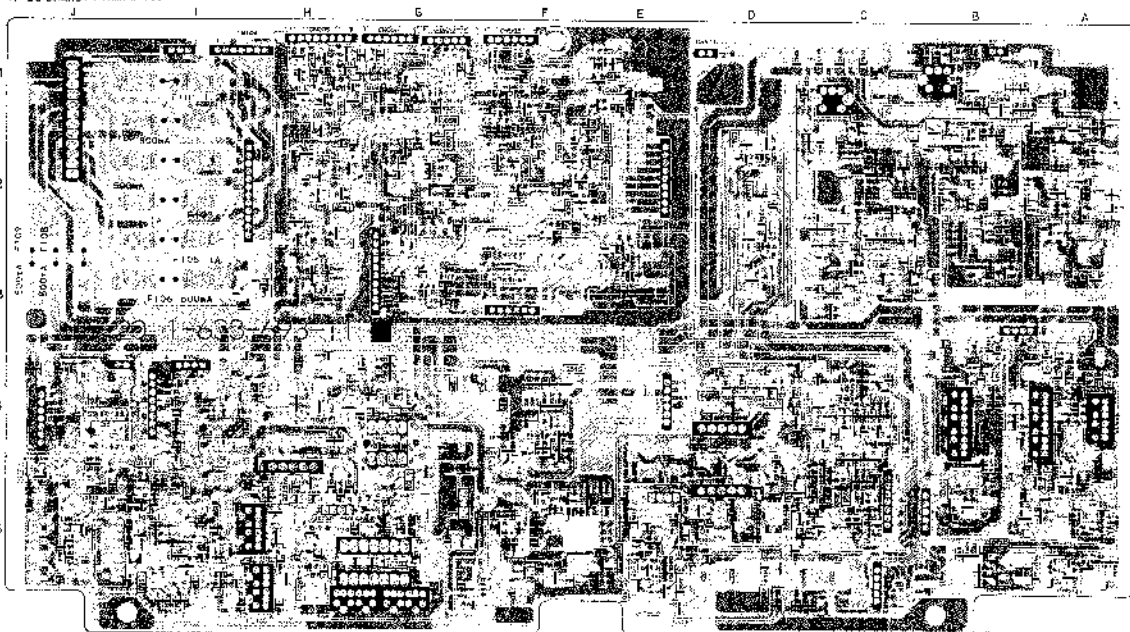
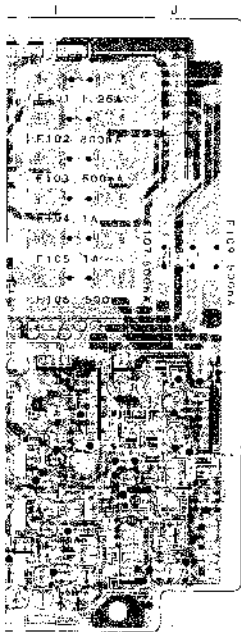
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0180	8-729-901-01	TRANSISTOR DT1A446X
0182	8-729-216-22	TRANSISTOR 25A1162
0183	8-729-901-01	TRANSISTOR DT1A446X
0184	8-729-901-01	TRANSISTOR DT1A446X
0186	8-729-901-06	TRANSISTOR DT1A446X
0188	8-729-901-96	TRANSISTOR DT1A446X
0191	8-729-216-22	TRANSISTOR 25A1162
0201	8-729-100-86	TRANSISTOR 25C1623
0202	8-729-100-86	TRANSISTOR 25C1623
0203	8-729-100-86	TRANSISTOR 25C1623
0204	8-729-320-17	TRANSISTOR 25A1122CD
0205	8-729-100-86	TRANSISTOR 25C1623
0206	8-729-100-86	TRANSISTOR 25C1623
0207	8-729-100-86	TRANSISTOR 25C1623
0208	8-729-320-17	TRANSISTOR 25A1122CD
0209	8-729-320-17	TRANSISTOR 25A1122CD

0210	8-729-320-11	TRANSISTOR 25A1122CD
0211	8-729-320-11	TRANSISTOR 25A1122CD
0212	8-729-100-86	TRANSISTOR 25C1623
0213	8-729-100-86	TRANSISTOR 25C1623
0214	8-729-100-86	TRANSISTOR 25C1623
0215	8-729-100-86	TRANSISTOR 25C1623
0216	8-729-100-86	TRANSISTOR 25C1623
0217	8-729-100-86	TRANSISTOR 25C1623
0218	8-729-100-86	TRANSISTOR 25C1623
0219	8-729-100-86	TRANSISTOR 25C1623
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0221	8-729-100-86	TRANSISTOR 25C1623
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0223	8-729-100-86	TRANSISTOR 25C1623
0224	8-729-100-86	TRANSISTOR 25C1623
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0227	8-729-100-86	TRANSISTOR 25C1623
0228	8-729-100-86	TRANSISTOR 25C1623
0229	8-729-100-86	TRANSISTOR 25C1623
0230	8-729-100-86	TRANSISTOR 25C1623
0231	8-729-100-86	TRANSISTOR 25C1623

0232	8-729-100-86	TRANSISTOR 25C1623
0233	8-729-100-86	TRANSISTOR 25C1623
0238	8-729-100-86	TRANSISTOR 25C1623
0239	8-729-100-86	TRANSISTOR 25C1623
0240	8-729-100-86	TRANSISTOR 25C1623
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0242	8-729-100-86	TRANSISTOR 25C1623
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0250	8-729-100-86	TRANSISTOR 25C1623
0251	8-729-100-86	TRANSISTOR 25C1623

0252	8-729-100-86	TRANSISTOR 25C1623
0253	8-729-100-86	TRANSISTOR 25C1623
0254	8-729-100-86	TRANSISTOR 25C1623
0255	8-729-100-86	TRANSISTOR 25C1623
0256	8-729-100-86	TRANSISTOR 25C1623
0257	8-729-901-56	TRANSISTOR DT1A446X
0258	8-729-100-86	TRANSISTOR 25C1623
0259	8-729-100-86	TRANSISTOR 25C1623
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0261	8-729-100-86	TRANSISTOR 25C1623
0262	8-729-901-01	TRANSISTOR DT1A446X
0263	8-729-100-86	TRANSISTOR 25C1623
0264	8-729-100-86	TRANSISTOR 25C1623
0265	8-729-100-86	TRANSISTOR 25C1623
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0267	8-729-100-86	TRANSISTOR 25C1623
0268	8-729-100-86	TRANSISTOR 25C1623
0269	8-729-100-86	TRANSISTOR 25C1623
0270	8-729-100-86	TRANSISTOR 25C1623

IF-20 BOARD (PRINTED WIRING BOARD)



IF-20 BOARD



IF-20 BOARD

UT VIDEO, AUDIO IN/OUT

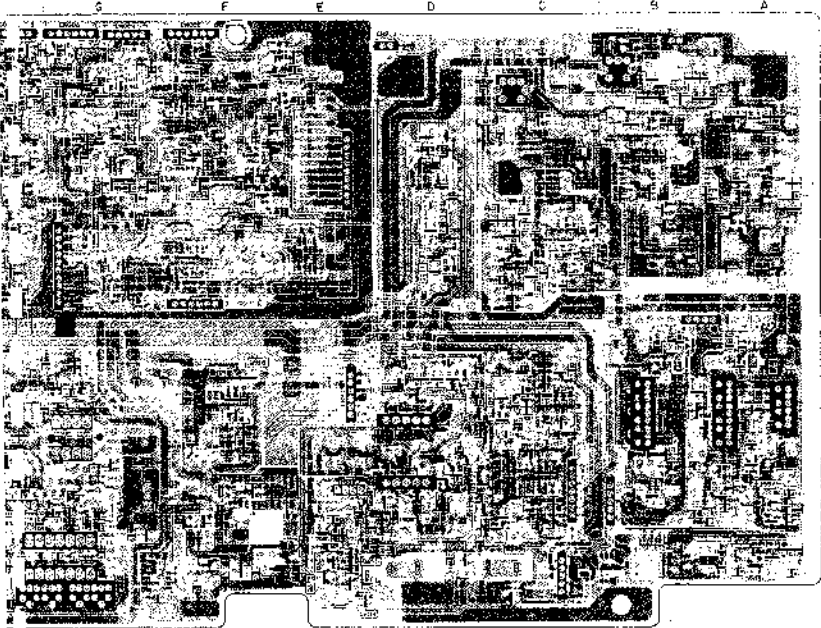
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163

VIDEO, AUDIO IN/OUT

VIDEO, AUDIO IN

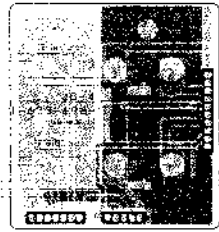
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0211	8-729-320-17 TRANSISTOR 25A1122D3	0234	8-729-100-66 TRANSISTOR 25C1623	0407	8-729-100-66 TRANSISTOR 25C1623	0513	8-729-100-66 TRANSISTOR 25C1623	0612	8-729-501-06 TRANSISTOR DT4144EK	0721	8-729-320-17 TRANSISTOR 25A1122D3
0212	8-729-100-66 TRANSISTOR 25C1623	0239	8-729-100-66 TRANSISTOR 25C1623	0408	8-729-100-66 TRANSISTOR 25C1623	0514	8-729-100-66 TRANSISTOR 25C1623	0613	8-729-501-01 TRANSISTOR DT4144EK	0722	8-729-100-66 TRANSISTOR 25C1623
0213	8-729-100-66 TRANSISTOR 25C1623	0240	8-729-100-66 TRANSISTOR 25C1623	0409	8-729-100-66 TRANSISTOR 25C1623	0515	8-729-100-66 TRANSISTOR 25C1623	0614	8-729-501-01 TRANSISTOR DT4144EK	0723	8-729-100-66 TRANSISTOR 25C1623
0214	8-729-400-66 TRANSISTOR 25C1623	0242	8-729-100-66 TRANSISTOR 25C1623	0410	8-729-100-66 TRANSISTOR 25C1623	0516	8-729-100-66 TRANSISTOR 25C1623	0615	8-729-501-06 TRANSISTOR DT4144EK	0724	8-729-100-66 TRANSISTOR 25C1623
0215	8-729-400-66 TRANSISTOR 25C1623	0243	8-729-100-66 TRANSISTOR 25C1623	0411	8-729-400-66 TRANSISTOR 25C1623	0517	8-729-501-06 TRANSISTOR DT4144EK	0616	8-729-501-06 TRANSISTOR DT4144EK	0725	8-729-100-66 TRANSISTOR 25C1623
0216	8-729-100-66 TRANSISTOR 25C1623	0244	8-729-100-66 TRANSISTOR 25C1623	0412	8-729-100-66 TRANSISTOR 25C1623	0518	8-729-100-66 TRANSISTOR 25C1623	0701	8-729-100-66 TRANSISTOR 25C1623	0728	8-729-100-66 TRANSISTOR 25C1623
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0223	8-729-100-66 TRANSISTOR 25C1623	0249	8-729-100-66 TRANSISTOR 25C1623	0503	8-729-501-06 TRANSISTOR DT4144EK	0602	8-729-501-01 TRANSISTOR DT4144EK	0706	8-729-100-66 TRANSISTOR 25C1623	0704	8-729-100-66 TRANSISTOR 25C1623
0224	8-729-100-66 TRANSISTOR 25C1623	0250	8-729-100-66 TRANSISTOR 25C1623	0504	8-729-100-66 TRANSISTOR 25C1623	0603	8-729-100-66 TRANSISTOR 25C1623	0707	8-729-100-66 TRANSISTOR 25C1623	0705	8-729-501-06 TRANSISTOR DT4144EK
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0226	8-729-320-17 TRANSISTOR 25A1122D3	0252	8-729-100-66 TRANSISTOR 25C1623	0506	8-729-100-66 TRANSISTOR 25C1623	0605	8-729-100-66 TRANSISTOR 25C1623	0709	8-729-100-66 TRANSISTOR 25C1623	0707	8-729-100-66 TRANSISTOR 25C1623
0227	8-729-100-66 TRANSISTOR 25C1623	0401	8-729-100-66 TRANSISTOR 25C1623	0507	8-729-501-06 TRANSISTOR DT4144EK	0606	8-729-100-66 TRANSISTOR 25C1623	0710	8-729-100-66 TRANSISTOR 25C1623	0708	8-729-100-66 TRANSISTOR 25C1623
0228	8-729-100-66 TRANSISTOR 25C1623	0402	8-729-100-66 TRANSISTOR 25C1623	0508	8-729-100-66 TRANSISTOR 25C1623	0607	8-729-100-66 TRANSISTOR 25C1623	0711	8-729-100-66 TRANSISTOR 25C1623	0709	8-729-100-66 TRANSISTOR 25C1623
0229	8-729-100-66 TRANSISTOR 25C1623	0403	8-729-100-66 TRANSISTOR 25C1623	0509	8-729-100-66 TRANSISTOR 25C1623	0608	8-729-100-66 TRANSISTOR 25C1623	0712	8-729-100-66 TRANSISTOR 25C1623	0710	8-729-100-66 TRANSISTOR 25C1623
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0231	8-729-100-66 TRANSISTOR 25C1623	0405	8-729-100-66 TRANSISTOR 25C1623	0511	8-729-100-66 TRANSISTOR 25C1623	0610	8-729-100-66 TRANSISTOR 25C1623	0714	8-729-100-66 TRANSISTOR 25C1623		



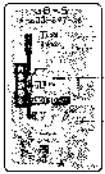
TR-40 BOARD



JB-A BOARD



JB-S BOARD

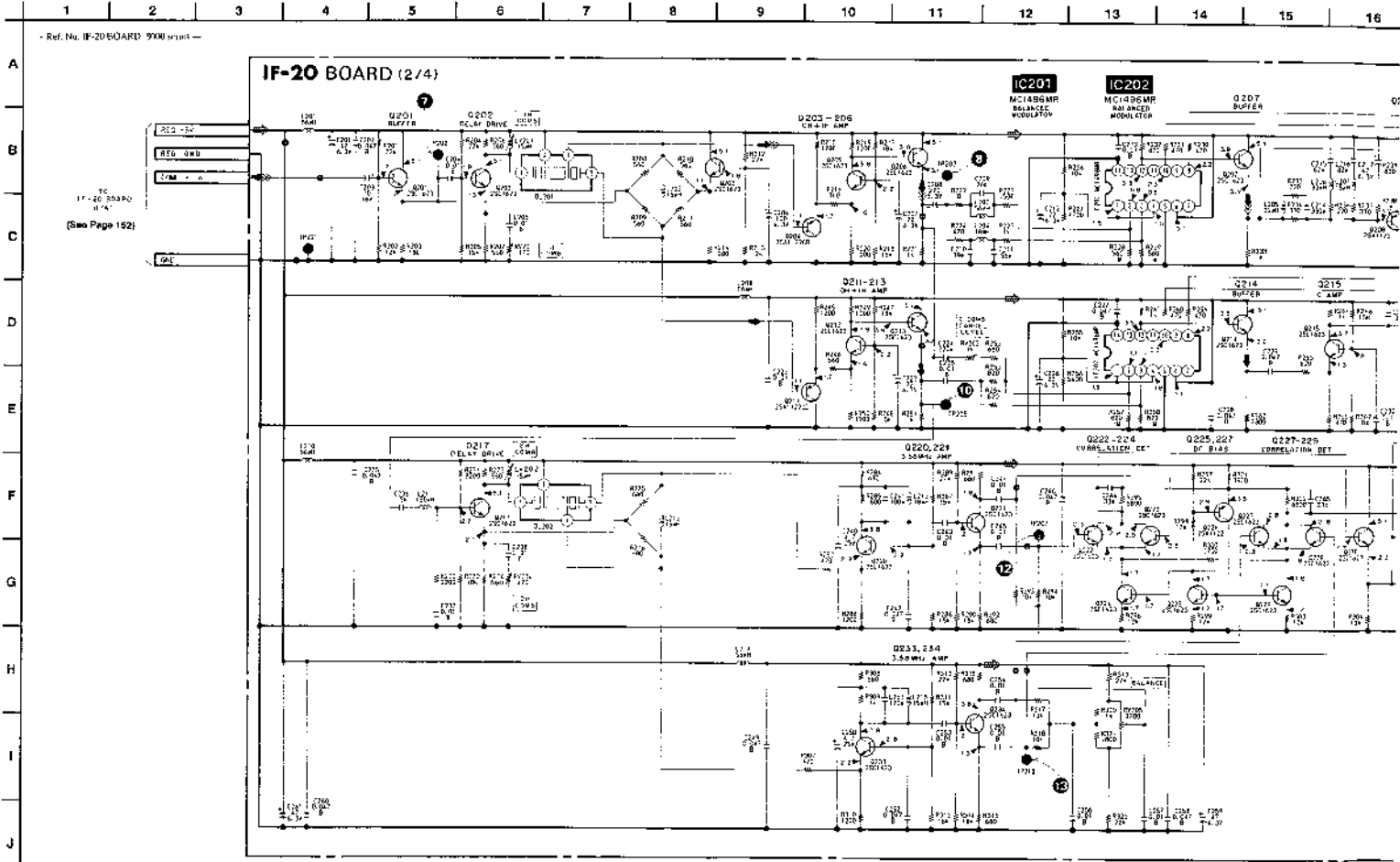


+ 1-033-087-11 JB-5 BOARD

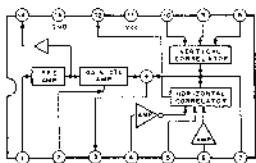
- (DIODE)
- 0301 8-719-800-76 DIODE 15S226
- (TRANSISTOR)
- 0301 8-729-210-22 TRANSISTOR 25A1162

IF-20 (YX FILTER) SCHEMATIC DIAGRAM

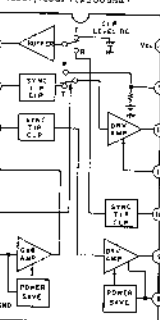
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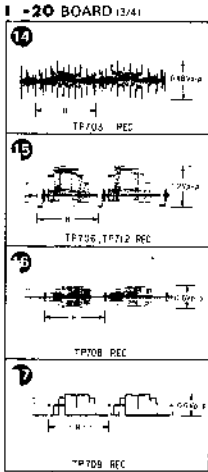
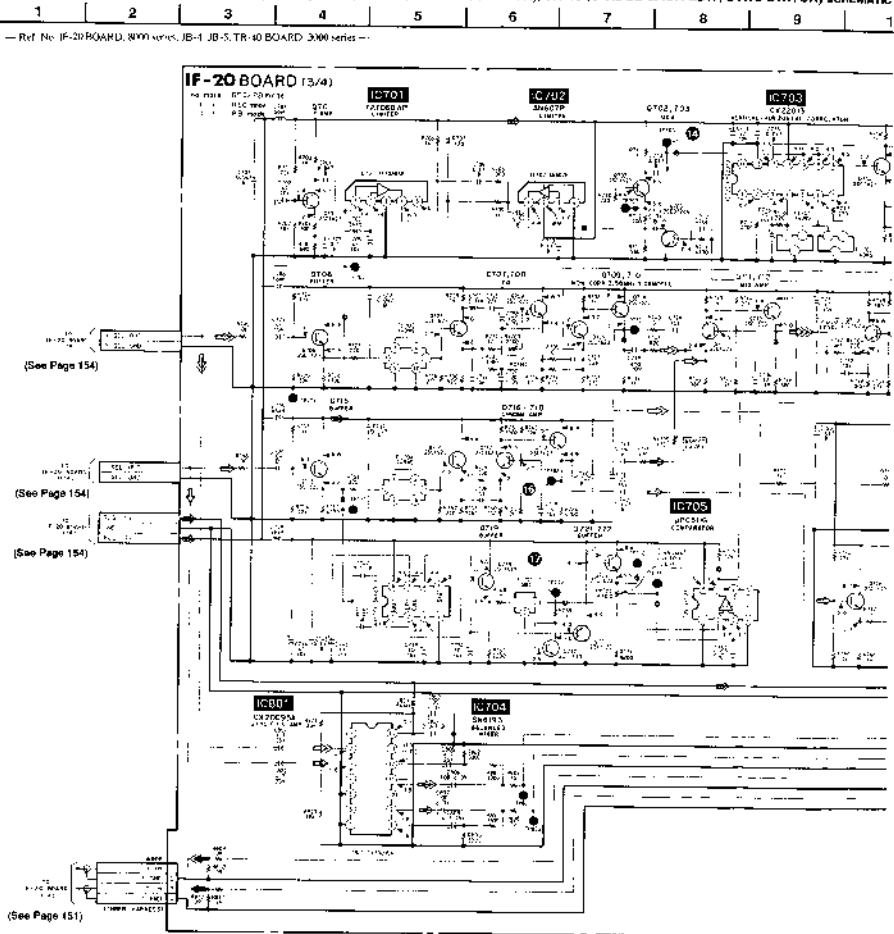
IC7031, Cx 220121



IC601, IC802 1-C720095A1



IF-20 (Y/C MIX), JB-4 (VIDEO, AUDIO JACK), JB-5 (VIDEO, AUDIO, RFU DC OUT JACK), TR-40 (S VIDEO JACK EDIT, SYNC SWITCH) SCHEMATIC



— Ref No. IF-20 BOARD: #900 vms, JB-4, JB-5 TR-40 BOARD, #600 vms —

4-7002-009 A IF-20 BOARD, COMPLETE

IF-20 BOARD
CONDUCTIVE
SOLDER

IC001	F-7	0060	E-1	IC201	C-4
IC002	F-7	0060	E-1	IC202	L-4
IC003	F-7	0060	E-1	IC203	F-4
IC004	F-7	0060	E-1	IC204	H-4
IC005	F-7	0060	E-1	IC205	C-5
IC006	F-7	0060	E-1	IC206	C-5
IC007	F-7	0060	E-1	IC207	D-5
IC008	F-7	0060	E-1	IC208	C-4
IC009	F-7	0060	E-1	IC209	D-4
IC010	F-7	0060	E-1	IC210	F-4
IC011	F-7	0060	E-1	IC211	L-4
IC012	F-7	0060	E-1	IC212	H-4
IC013	F-7	0060	E-1	IC213	F-4
IC014	F-7	0060	E-1	IC214	H-4
IC015	F-7	0060	E-1	IC215	C-4
IC016	F-7	0060	E-1	IC216	D-4
IC017	F-7	0060	E-1	IC217	F-4
IC018	F-7	0060	E-1	IC218	H-4
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IC023	F-7	0060	E-1	IC223	F-4
IC024	F-7	0060	E-1	IC224	H-4
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IC047	F-7	0060	E-1	IC247	C-4
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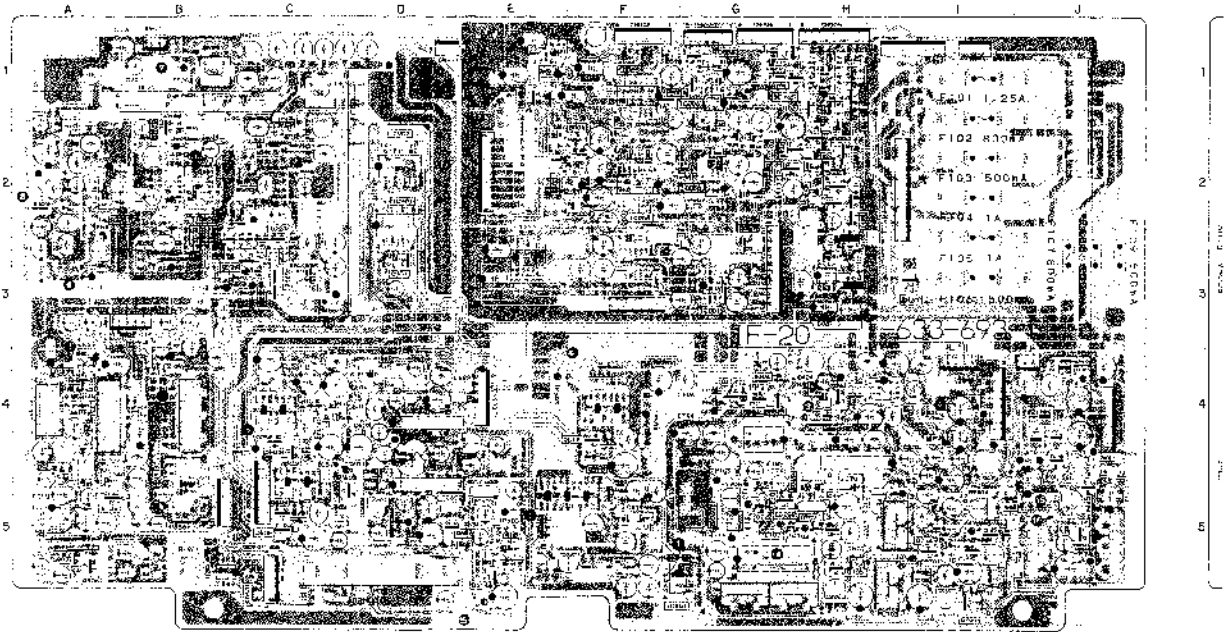
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D190	8-719-400-76	DIODE	155228
D191	8-719-400-76	DIODE	155228
D192	8-719-400-76	DIODE	155228
D193	8-719-400-76	DIODE	155228
D194	8-719-400-76	DIODE	155228
D195	8-719-400-76	DIODE	155228
D196	8-719-400-76	DIODE	155228
D197	8-719-400-76	DIODE	155228
D198	8-719-400-76	DIODE	155228
D199	8-719-400-76	DIODE	155228
D200	8-719-400-76	DIODE	155228

(TRANSISTOR)

IC001	8-759-901-92	IC	RC455BU
IC002	8-759-901-92	IC	RC455BU
IC003	8-759-901-92	IC	RC455BU
IC004	8-759-901-92	IC	RC455BU
IC005	8-759-901-92	IC	RC455BU
IC006	8-759-901-92	IC	RC455BU
IC007	8-759-901-92	IC	RC455BU
IC008	8-759-901-92	IC	RC455BU
IC009	8-759-901-92	IC	RC455BU
IC010	8-759-901-92	IC	RC455BU
IC011	8-759-901-92	IC	RC455BU
IC012	8-759-901-92	IC	RC455BU
IC013	8-759-901-92	IC	RC455BU
IC014	8-759-901-92	IC	RC455BU
IC015	8-759-901-92	IC	RC455BU
IC016	8-759-901-92	IC	RC455BU
IC017	8-759-901-92	IC	RC455BU
IC018	8-759-901-92	IC	RC455BU
IC019	8-759-901-92	IC	RC455BU
IC020	8-759-901-92	IC	RC455BU
IC021	8-759-901-92	IC	RC455BU
IC022	8-759-901-92	IC	RC455BU
IC023	8-759-901-92	IC	RC455BU
IC024	8-759-901-92	IC	RC455BU
IC025	8-759-901-92	IC	RC455BU
IC026	8-759-901-92	IC	RC455BU
IC027	8-759-901-92	IC	RC455BU
IC028	8-759-901-92	IC	RC455BU
IC029	8-759-901-92	IC	RC455BU
IC030	8-759-901-92	IC	RC455BU
IC031	8-759-901-92	IC	RC455BU
IC032	8-759-901-92	IC	RC455BU
IC033	8-759-901-92	IC	RC455BU
IC034	8-759-901-92	IC	RC455BU
IC035	8-759-901-92	IC	RC455BU
IC036	8-759-901-92	IC	RC455BU
IC037	8-759-901-92	IC	RC455BU
IC038	8-759-901-92	IC	RC455BU
IC039	8-759-901-92	IC	RC455BU
IC040	8-759-901-92	IC	RC455BU
IC041	8-759-901-92	IC	RC455BU
IC042	8-759-901-92	IC	RC455BU
IC043	8-759-901-92	IC	RC455BU
IC044	8-759-901-92	IC	RC455BU
IC045	8-759-901-92	IC	RC455BU
IC046	8-759-901-92	IC	RC455BU
IC047	8-759-901-92	IC	RC455BU
IC048	8-759-901-92	IC	RC455BU
IC049	8-759-901-92	IC	RC455BU
IC050	8-759-901-92	IC	RC455BU
IC051	8-759-901-92	IC	RC455BU
IC052	8-759-901-92	IC	RC455BU
IC053	8-759-901-92	IC	RC455BU
IC054	8-759-901-92	IC	RC455BU
IC055	8-759-901-92	IC	RC455BU
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IC057	8-759-901-92	IC	RC455BU
IC058	8-759-901-92	IC	RC455BU
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IC060	8-759-901-92	IC	RC455BU
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IC064	8-759-901-92	IC	RC455BU
IC065	8-759-901-92	IC	RC455BU
IC066	8-759-901-92	IC	RC455BU
IC067	8-759-901-92	IC	RC455BU
IC068	8-759-901-92	IC	RC455BU
IC069	8-759-901-92	IC	RC455BU
IC070	8-759-901-92	IC	RC455BU
IC071	8-759-901-92	IC	RC455BU
IC072	8-759-901-92	IC	RC455BU
IC073	8-759-901-92	IC	RC455BU
IC074	8-759-901-92	IC	RC455BU
IC075	8-759-901-92	IC	RC455BU
IC076	8-759-901-92	IC	RC455BU
IC077	8-759-901-92	IC	RC455BU
IC078	8-759-901-92	IC	RC455BU
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IC084	8-759-901-92	IC	RC455BU
IC085	8-759-901-92	IC	RC455BU
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IC092	8-759-901-92	IC	RC455BU
IC093	8-759-901-92	IC	RC455BU
IC094	8-759-901-92	IC	RC455BU
IC095	8-759-901-92	IC	RC455BU
IC096	8-759-901-92	IC	RC455BU
IC097	8-759-901-92	IC	RC455BU
IC098	8-759-901-92	IC	RC455BU
IC099	8-759-901-92	IC	RC455BU
IC100	8-759-901-92	IC	RC455BU

IF-20 BOARD COMPONENTS



(YMC SWITCH) PRINTED WIRING BOARD

0056 8-729-202-53 TRANSISTOR 25C326H
 0057 8-729-202-32 TRANSISTOR 25C326H
 0060 8-729-101-07 TRANSISTOR 25B790
 0061 8-729-901-08 TRANSISTOR DTA144EK
 0165 8-729-901-05 TRANSISTOR DTA144EK

 0166 8-729-901-04 TRANSISTOR DTC144EK
 0167 8-729-100-66 TRANSISTOR 25C1623
 0168 8-729-901-06 TRANSISTOR DTA144EK
 0169 8-729-901-06 TRANSISTOR DTA144EK
 0170 8-729-901-06 TRANSISTOR DTA144EK

 0171 8-729-901-06 TRANSISTOR DTA144EK
 0172 8-729-100-66 TRANSISTOR 25C1623
 0174 8-729-901-05 TRANSISTOR DTA144EK
 0175 8-729-901-06 TRANSISTOR DTA144EK
 0176 8-729-901-06 TRANSISTOR DTA144EK

0177 8-729-901-06 TRANSISTOR DTA144EK
 0178 8-729-901-01 TRANSISTOR DTC144EK
 0179 8-729-901-06 TRANSISTOR DTA144EK
 0180 8-729-901-01 TRANSISTOR DTC144EK
 0181 8-729-901-01 TRANSISTOR DTC144EK
 0182 8-729-216-22 TRANSISTOR 25A1162
 0183 8-729-901-01 TRANSISTOR DTC144EK
 0184 8-729-901-01 TRANSISTOR DTC144EK
 0186 8-729-901-06 TRANSISTOR DTA144EK
 0188 8-729-901-06 TRANSISTOR DTA144EK

 0191 8-729-216-22 TRANSISTOR 25A1162
 0201 8-729-100-66 TRANSISTOR 25C1623
 0202 8-729-100-66 TRANSISTOR 25C1623
 0203 8-729-100-66 TRANSISTOR 25C1623
 0204 8-729-320-17 TRANSISTOR 25A1122CD

 0205 8-729-100-66 TRANSISTOR 25C1623
 0206 8-729-100-66 TRANSISTOR 25C1623
 0207 8-729-100-66 TRANSISTOR 25C1623
 0208 8-729-320-17 TRANSISTOR 25A1122CD
 0209 8-729-320-17 TRANSISTOR 25A1122CD

0210 8-729-320-17 TRANSISTOR 25A1122CD
 0211 8-729-320-17 TRANSISTOR 25A1122CD
 0212 8-729-100-66 TRANSISTOR 25C1623
 0213 8-729-100-66 TRANSISTOR 25C1623
 0214 8-729-100-66 TRANSISTOR 25C1623

 0215 8-729-100-66 TRANSISTOR 25C1623
 0216 8-729-100-66 TRANSISTOR 25C1623
 0217 8-729-100-66 TRANSISTOR 25C1623
 0220 8-729-100-66 TRANSISTOR 25C1623
 0221 8-729-100-66 TRANSISTOR 25C1623

 0222 8-729-100-66 TRANSISTOR 25C1623
 0223 8-729-100-66 TRANSISTOR 25C1623
 0224 8-729-100-66 TRANSISTOR 25C1623
 0225 8-729-100-66 TRANSISTOR 25C1623
 0226 8-729-320-17 TRANSISTOR 25A1122CD

 0227 8-729-100-66 TRANSISTOR 25C1623
 0228 8-729-100-66 TRANSISTOR 25C1623
 0229 8-729-100-66 TRANSISTOR 25C1623
 0230 8-729-100-66 TRANSISTOR 25C1623
 0231 8-729-100-66 TRANSISTOR 25C1623

0232 8-729-100-66 TRANSISTOR 25C1623
 0234 8-729-100-66 TRANSISTOR 25C1623
 0230 8-729-100-66 TRANSISTOR 25C1623
 0231 8-729-100-66 TRANSISTOR 25C1623
 0232 8-729-100-66 TRANSISTOR 25C1623

 0233 8-729-100-66 TRANSISTOR 25C1623
 0234 8-729-100-66 TRANSISTOR 25C1623
 0235 8-729-100-66 TRANSISTOR 25C1623
 0236 8-729-100-66 TRANSISTOR 25C1623
 0237 8-729-100-66 TRANSISTOR 25C1623

 0238 8-729-100-66 TRANSISTOR 25C1623
 0239 8-729-100-66 TRANSISTOR 25C1623
 0240 8-729-100-66 TRANSISTOR 25C1623
 0241 8-729-100-66 TRANSISTOR 25C1623
 0242 8-729-100-66 TRANSISTOR 25C1623

 0401 8-729-100-66 TRANSISTOR 25C1623
 0402 8-729-100-66 TRANSISTOR 25C1623
 0403 8-729-100-66 TRANSISTOR 25C1623
 0404 8-729-100-66 TRANSISTOR 25C1623
 0405 8-729-100-66 TRANSISTOR 25C1623

0406 8-729-100-66 TRANSISTOR 25C1623
 0407 8-729-100-66 TRANSISTOR 25C1623
 0408 8-729-100-66 TRANSISTOR 25C1623
 0409 8-729-100-66 TRANSISTOR 25C1623
 0410 8-729-100-66 TRANSISTOR 25C1623

 0411 8-729-100-66 TRANSISTOR 25C1623
 0412 8-729-100-66 TRANSISTOR 25C1623
 0413 8-729-100-66 TRANSISTOR 25C1623
 0414 8-729-100-66 TRANSISTOR 25C1623
 0501 8-729-100-66 TRANSISTOR 25C1623

 0502 8-729-100-66 TRANSISTOR 25C1623
 0503 8-729-901-06 TRANSISTOR DTA144EK
 0504 8-729-100-66 TRANSISTOR 25C1623
 0505 8-729-100-66 TRANSISTOR 25C1623
 0506 8-729-100-66 TRANSISTOR 25C1623

 0507 8-729-901-06 TRANSISTOR DTA144EK
 0508 8-729-100-66 TRANSISTOR 25C1623
 0509 8-729-100-66 TRANSISTOR 25C1623
 0510 8-729-100-66 TRANSISTOR 25C1623
 0511 8-729-100-66 TRANSISTOR 25C1623

0512 8-729-100-66 TRANSISTOR 25C1623
 0513 8-729-100-66 TRANSISTOR 25C1623
 0514 8-729-100-66 TRANSISTOR 25C1623
 0515 8-729-100-66 TRANSISTOR 25C1623
 0516 8-729-100-66 TRANSISTOR 25C1623

 0517 8-729-901-06 TRANSISTOR DTA144EK
 0518 8-729-100-66 TRANSISTOR 25C1623
 0519 8-729-100-66 TRANSISTOR 25C1623
 0520 8-729-901-06 TRANSISTOR DTA144EK
 0521 8-729-901-06 TRANSISTOR DTA144EK

 0501 8-729-100-66 TRANSISTOR 25C1623
 0502 8-729-901-01 TRANSISTOR DTC144EK
 0503 8-729-100-66 TRANSISTOR 25C1623
 0504 8-729-100-66 TRANSISTOR 25C1623
 0505 8-729-100-66 TRANSISTOR 25C1623

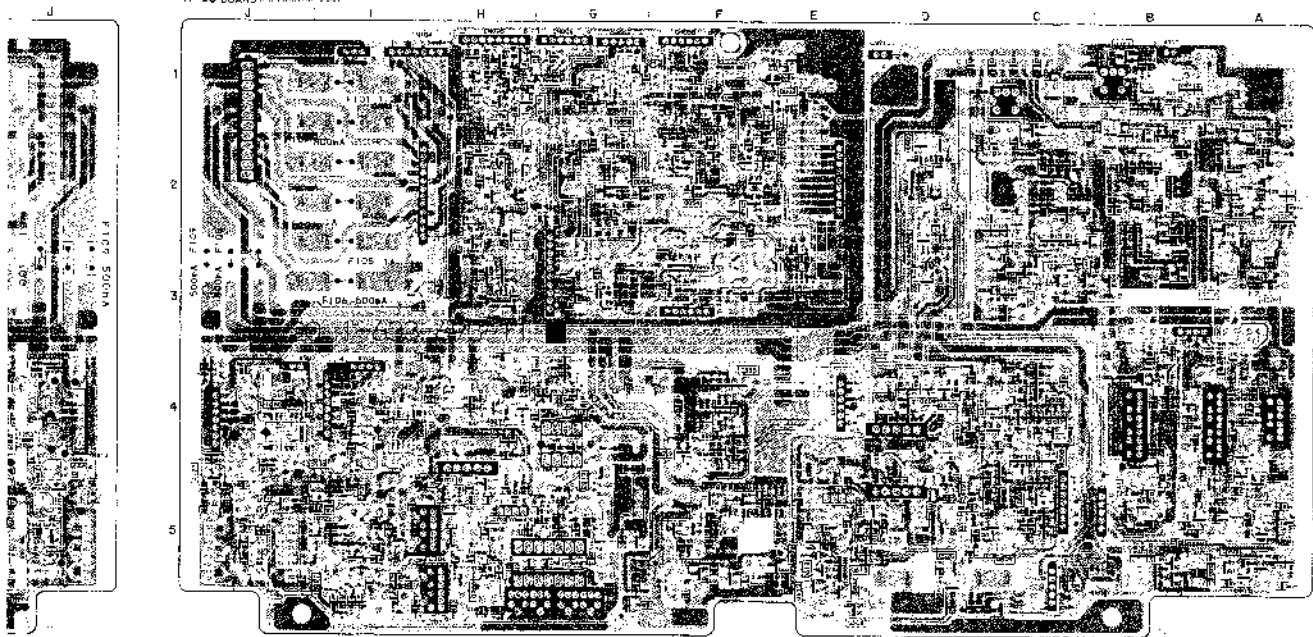
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 0507 8-729-100-66 TRANSISTOR 25C1623
 0508 8-729-100-66 TRANSISTOR 25C1623
 0509 8-729-100-66 TRANSISTOR 25C1623
 0510 8-729-100-66 TRANSISTOR 25C1623

0511 8-729-100-66
 0512 8-729-901-06
 0513 8-729-901-01
 0514 8-729-901-01
 0515 8-729-901-01
 0516 8-729-901-06
 0517 8-729-100-66
 0518 8-729-100-66
 0519 8-729-100-66
 0520 8-729-202-32
 0521 8-729-100-66

 0522 8-729-100-66
 0523 8-729-100-66
 0524 8-729-100-66
 0525 8-729-100-66
 0526 8-729-100-66

 0527 8-729-100-66
 0528 8-729-100-66
 0529 8-729-100-66
 0530 8-729-100-66
 0531 8-729-100-66

IF-20 BOARD (CONTINUED)



IF-4 BOARD (CONTINUED)

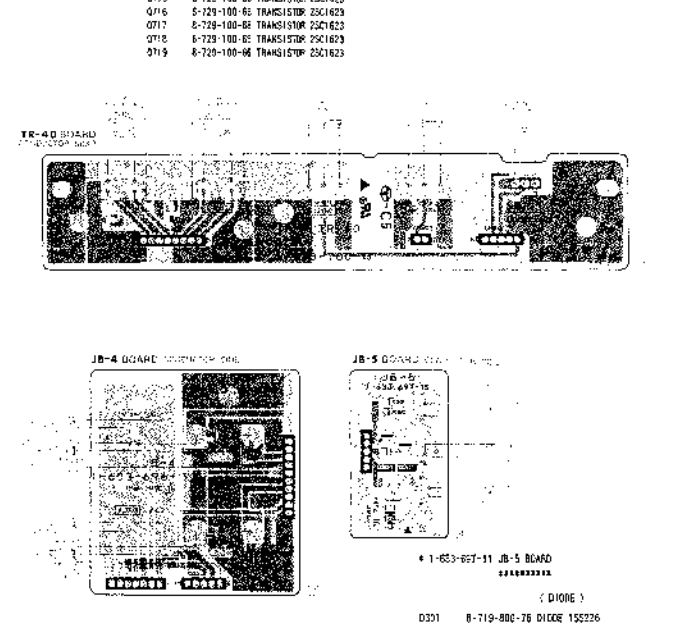
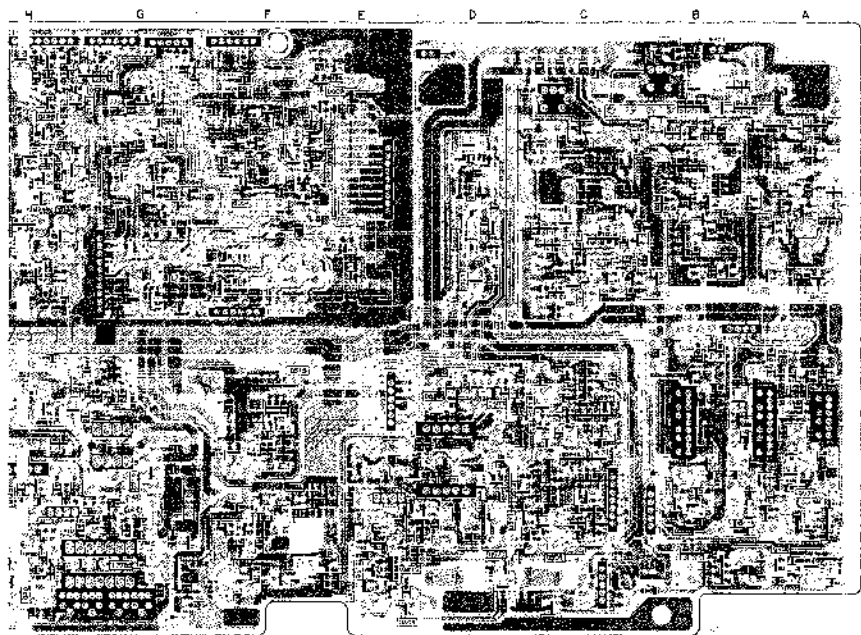


IF-4 BOARD (CONTINUED)



14AK	0210	8-729-320-11	TRANSISTOR 25A11220D	0230	8-729-100-66	TRANSISTOR 25C1623	0406	8-729-100-66	TRANSISTOR 25C1623	0312	8-729-100-66	TRANSISTOR 25C1623
14 C	0211	8-729-320-17	TRANSISTOR 25A11220D	0231	8-729-100-66	TRANSISTOR 25C1623	0407	8-729-100-66	TRANSISTOR 25C1623	0313	8-729-100-66	TRANSISTOR 25C1623
14 E	0212	8-729-100-66	TRANSISTOR 25C1623	0232	8-729-100-66	TRANSISTOR 25C1623	0408	8-729-100-66	TRANSISTOR 25C1623	0314	8-729-100-66	TRANSISTOR 25C1623
14eK	0213	8-729-100-66	TRANSISTOR 25C1623	0233	8-729-100-66	TRANSISTOR 25C1623	0409	8-729-100-66	TRANSISTOR 25C1623	0315	8-729-100-66	TRANSISTOR 25C1623
14EK	0214	8-729-100-66	TRANSISTOR 25C1623	0234	8-729-100-66	TRANSISTOR 25C1623	0410	8-729-100-66	TRANSISTOR 25C1623	0316	8-729-100-66	TRANSISTOR 25C1623
11	0215	8-729-100-66	TRANSISTOR 25C1623	0235	8-729-100-66	TRANSISTOR 25C1623	0411	8-729-100-66	TRANSISTOR 25C1623	0317	8-729-901-06	TRANSISTOR DT4144EK
14eK	0216	8-729-100-66	TRANSISTOR 25C1623	0236	8-729-100-66	TRANSISTOR 25C1623	0412	8-729-100-66	TRANSISTOR 25C1623	0318	8-729-100-66	TRANSISTOR 25C1623
14EK	0217	8-729-100-66	TRANSISTOR 25C1623	0237	8-729-100-66	TRANSISTOR 25C1623	0413	8-729-100-66	TRANSISTOR 25C1623	0319	8-729-100-66	TRANSISTOR 25C1623
14 K	0218	8-729-100-66	TRANSISTOR 25C1623	0238	8-729-100-66	TRANSISTOR 25C1623	0414	8-729-100-66	TRANSISTOR 25C1623	0320	8-729-901-06	TRANSISTOR DT4144EK
14 F	0223	8-729-100-66	TRANSISTOR 25C1623	0237	8-729-100-66	TRANSISTOR 25C1623	0501	8-729-100-66	TRANSISTOR 25C1623	0521	8-729-901-06	TRANSISTOR DT4144EK
115D	0222	8-729-100-66	TRANSISTOR 25C1623	0338	8-729-100-66	TRANSISTOR 25C1623	0502	8-729-100-66	TRANSISTOR 25C1623	0501	8-729-100-66	TRANSISTOR 25C1623
11	0225	8-729-100-66	TRANSISTOR 25C1623	0339	8-729-100-66	TRANSISTOR 25C1623	0503	8-729-100-66	TRANSISTOR 25C1623	0502	8-729-901-01	TRANSISTOR DT4144EK
116C	0224	8-729-100-66	TRANSISTOR 25C1623	0340	8-729-100-66	TRANSISTOR 25C1623	0504	8-729-100-66	TRANSISTOR 25C1623	0503	8-729-100-66	TRANSISTOR 25C1623
116C	0225	8-729-100-66	TRANSISTOR 25C1623	0341	8-729-100-66	TRANSISTOR 25C1623	0505	8-729-100-66	TRANSISTOR 25C1623	0504	8-729-100-66	TRANSISTOR 25C1623
1122CD	0226	8-729-320-17	TRANSISTOR 25A11220D	0342	8-729-100-66	TRANSISTOR 25C1623	0506	8-729-100-66	TRANSISTOR 25C1623	0505	8-729-100-66	TRANSISTOR 25C1623
14	0227	8-729-100-66	TRANSISTOR 25C1623	0429	8-729-100-66	TRANSISTOR 25C1623	0507	8-729-901-06	TRANSISTOR DT4144EK	0506	8-729-100-66	TRANSISTOR 25C1623
116C	0228	8-729-100-66	TRANSISTOR 25C1623	0430	8-729-100-66	TRANSISTOR 25C1623	0508	8-729-100-66	TRANSISTOR 25C1623	0507	8-729-100-66	TRANSISTOR 25C1623
122D	0229	8-729-100-66	TRANSISTOR 25C1623	0403	8-729-100-66	TRANSISTOR 25C1623	0509	8-729-100-66	TRANSISTOR 25C1623	0508	8-729-100-66	TRANSISTOR 25C1623
11 DD	0230	8-729-100-66	TRANSISTOR 25C1623	0404	8-729-100-66	TRANSISTOR 25C1623	0510	8-729-100-66	TRANSISTOR 25C1623	0509	8-729-100-66	TRANSISTOR 25C1623
11 CD	0231	8-729-100-66	TRANSISTOR 25C1623	0405	8-729-100-66	TRANSISTOR 25C1623	0511	8-729-100-66	TRANSISTOR 25C1623	0510	8-729-100-66	TRANSISTOR 25C1623

0611	8-729-100-66	TRANSISTOR 25C1623
0612	8-729-901-06	TRANSISTOR DT4144EK
0613	8-729-901-01	TRANSISTOR DT4144EK
0614	8-729-901-01	TRANSISTOR DT4144EK
0615	8-729-901-06	TRANSISTOR DT4144EK
0616	8-729-901-06	TRANSISTOR DT4144EK
0701	8-729-100-66	TRANSISTOR 25C1623
0702	8-729-100-66	TRANSISTOR 25C1623
0703	8-729-902-38	TRANSISTOR 25C3320N
0704	8-729-100-66	TRANSISTOR 25C1623
0705	8-729-100-66	TRANSISTOR 25C1623
0706	8-729-100-66	TRANSISTOR 25C1623
0707	8-729-100-66	TRANSISTOR 25C1623
0708	8-729-100-66	TRANSISTOR 25C1623
0709	8-729-100-66	TRANSISTOR 25C1623
0710	8-729-100-66	TRANSISTOR 25C1623
0711	8-729-100-66	TRANSISTOR 25C1623
0712	8-729-100-66	TRANSISTOR 25C1623
0713	8-729-100-66	TRANSISTOR 25C1623
0714	8-729-100-66	TRANSISTOR 25C1623
0715	8-729-100-66	TRANSISTOR 25C1623
0716	8-729-100-66	TRANSISTOR 25C1623
0717	8-729-100-66	TRANSISTOR 25C1623
0718	8-729-100-66	TRANSISTOR 25C1623
0719	8-729-100-66	TRANSISTOR 25C1623
0720	8-729-100-66	TRANSISTOR 25C1623
0721	8-729-320-17	TRANSISTOR 25A11220D
0722	8-729-100-66	TRANSISTOR 25C1623
0723	8-729-100-66	TRANSISTOR 25C1623
0724	8-729-100-66	TRANSISTOR 25C1623
0725	8-729-100-66	TRANSISTOR 25C1623
0726	8-729-100-66	TRANSISTOR 25C1623
0727	8-729-210-22	TRANSISTOR 25A1152
0907	8-729-901-01	TRANSISTOR DT4144EK
0908	8-729-901-01	TRANSISTOR DT4144EK
0909	8-729-901-01	TRANSISTOR DT4144EK
0910	8-729-100-66	TRANSISTOR 25C1623
0911	8-729-901-06	TRANSISTOR DT4144EK



1-653-897-11 JB-5 BOARD
 (DIODE)
 0301 8-719-800-76 DIODE 15S226
 (TRANSISTOR)
 0301 8-729-210-22 TRANSISTOR 25A1152

IF-20 (VIDEO SIGNAL SELECT, SHARPNESS, NOISE CANCEL, YX FILTER, Y/C MIX, AUDIO SIGNAL SELECT), JB-4 (VIDEO, AUDIO JACK), JB-5 (VIDEO, AUDIO, RFU DC OUT JACK), TR-40 (S VIDEO JACK EDIT, SYNC SWITCH) PRINTED WIRING BOARD

— Ref No. IF-20 BOARD, 5000 series, JB-4, JB-5, TR-40 BOARD, 3400 series —

IF-20 BOARD (COMMON) S-PIN

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

Table with 2 columns: Component (e.g., IC1, IC2, IC3) and Pin Number (e.g., P1, P2, P3).

A-7062-003-A IF-20 BOARD, COMPLETE

XXXXXXXXXXXXXXXXXXXX

(DIODE)

Table of diode components including part numbers (e.g., D185, D186, D187) and descriptions (e.g., 8-719-40C-1R DIODE M41524K).

IF-20 BOARD PIN LIST

Large table listing pin numbers and component identifiers for the IF-20 board, organized in columns A through J.

(IC)

Table of IC components including part numbers (e.g., IC001, IC002, IC003) and descriptions (e.g., 8-759-801-92 IC RC4555M).

(TRANSISTOR)

Table of transistor components including part numbers (e.g., 8-729-711-71 IC M42234H) and descriptions.

VIDEO, AUDIO IN/OUT

VIDEO, AUDIO IN/OUT

VIDEO, AUDIO IN/OUT

VIDEO JACK EDIT, SYNC SWITCH) PRINTED WIRING BOARDS

(TRANSISTOR)

12	TRANSISTOR	25C3326H	0056	8-729-202-06	TRANSISTOR	25C3326H	C177	8-729-901-06	TRANSISTOR	DTA1446K
12	TRANSISTOR	25C3326H	0057	8-729-202-06	TRANSISTOR	25C3326H	C178	8-729-901-01	TRANSISTOR	DTA1446K
12	TRANSISTOR	25C3326H	0060	8-729-101-07	TRANSISTOR	25C3326H	C179	8-729-901-06	TRANSISTOR	DTA1446K
12	TRANSISTOR	25C3326H	0061	8-729-901-01	TRANSISTOR	DTA1446K	C180	8-729-901-01	TRANSISTOR	DTA1446K
12	TRANSISTOR	25C3326H	0065	8-729-901-06	TRANSISTOR	DTA1446K	C181	8-729-901-01	TRANSISTOR	DTA1446K

12	TRANSISTOR	25C3326H	C166	8-729-901-01	TRANSISTOR	DTA1446K	C194	8-729-216-22	TRANSISTOR	25A1122D
12	TRANSISTOR	25C3326H	C167	8-729-100-66	TRANSISTOR	25C1623	C195	8-729-901-01	TRANSISTOR	DTA1446K
12	TRANSISTOR	25C3326H	C168	8-729-901-06	TRANSISTOR	DTA1446K	C196	8-729-901-01	TRANSISTOR	DTA1446K
12	TRANSISTOR	25C3326H	C169	8-729-901-06	TRANSISTOR	DTA1446K	C197	8-729-901-06	TRANSISTOR	DTA1446K
12	TRANSISTOR	25C3326H	C170	8-729-901-06	TRANSISTOR	DTA1446K	C198	8-729-901-06	TRANSISTOR	DTA1446K

12	TRANSISTOR	25C3326H	C171	8-729-901-06	TRANSISTOR	DTA1446K	C200	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C172	8-729-100-66	TRANSISTOR	25C1623	C201	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C173	8-729-901-06	TRANSISTOR	DTA1446K	C202	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C174	8-729-901-06	TRANSISTOR	DTA1446K	C203	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C175	8-729-901-06	TRANSISTOR	DTA1446K	C204	8-729-320-17	TRANSISTOR	25A1122D

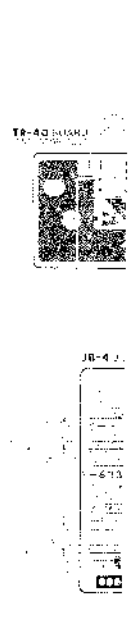
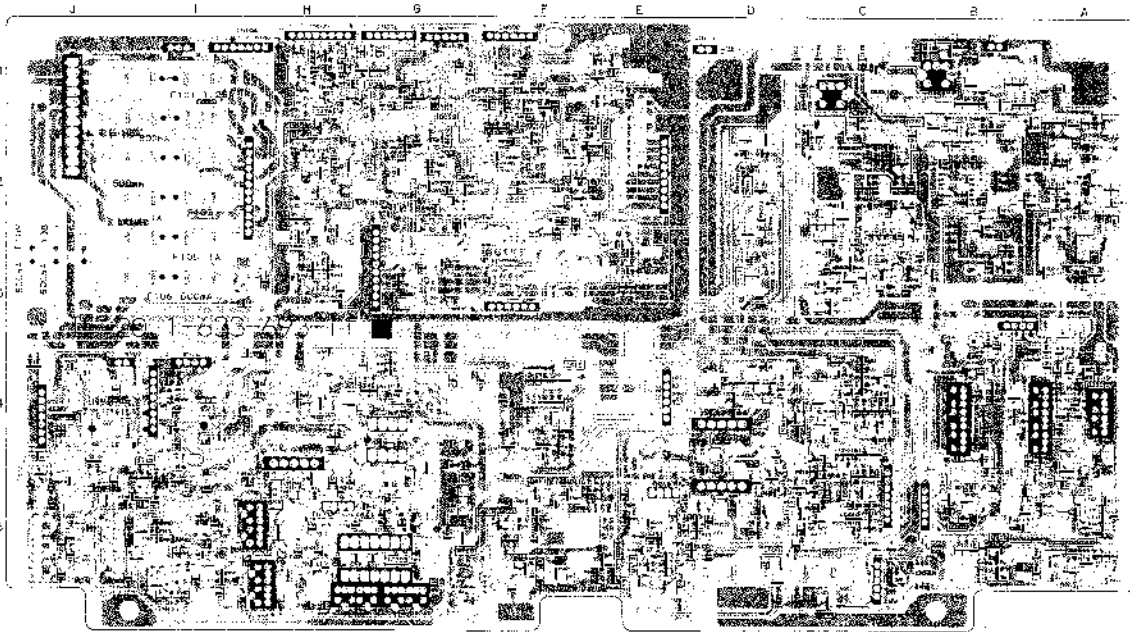
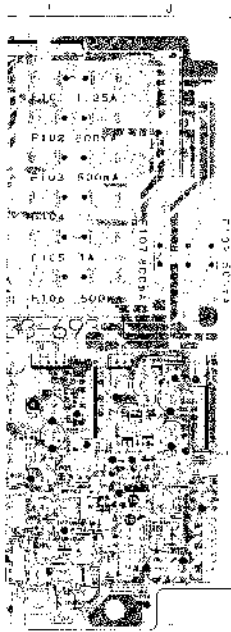
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12	TRANSISTOR	25C3326H	C177	8-729-100-66	TRANSISTOR	25C1623	C206	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C178	8-729-901-06	TRANSISTOR	DTA1446K	C207	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C179	8-729-320-17	TRANSISTOR	25A1122D	C208	8-729-320-17	TRANSISTOR	25A1122D
12	TRANSISTOR	25C3326H	C180	8-729-901-06	TRANSISTOR	DTA1446K	C209	8-729-100-66	TRANSISTOR	25C1623

12	TRANSISTOR	25C3326H	C181	8-729-100-66	TRANSISTOR	25C1623	C210	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C182	8-729-100-66	TRANSISTOR	25C1623	C211	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C183	8-729-100-66	TRANSISTOR	25C1623	C212	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C184	8-729-100-66	TRANSISTOR	25C1623	C213	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C185	8-729-100-66	TRANSISTOR	25C1623	C214	8-729-100-66	TRANSISTOR	25C1623

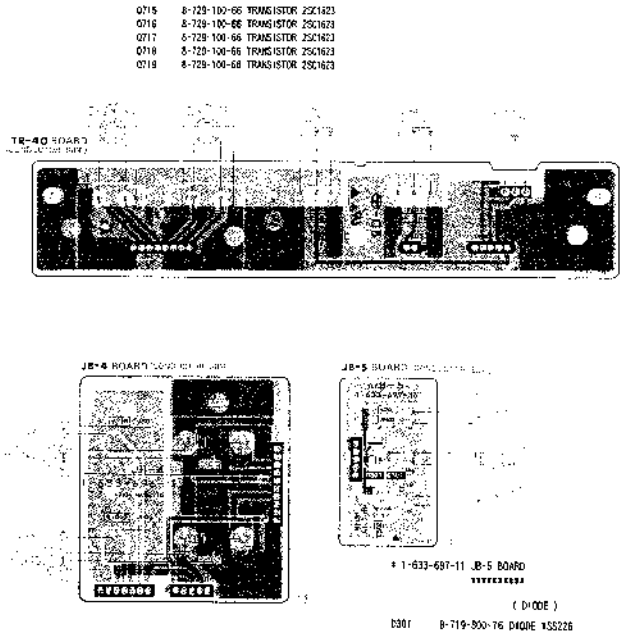
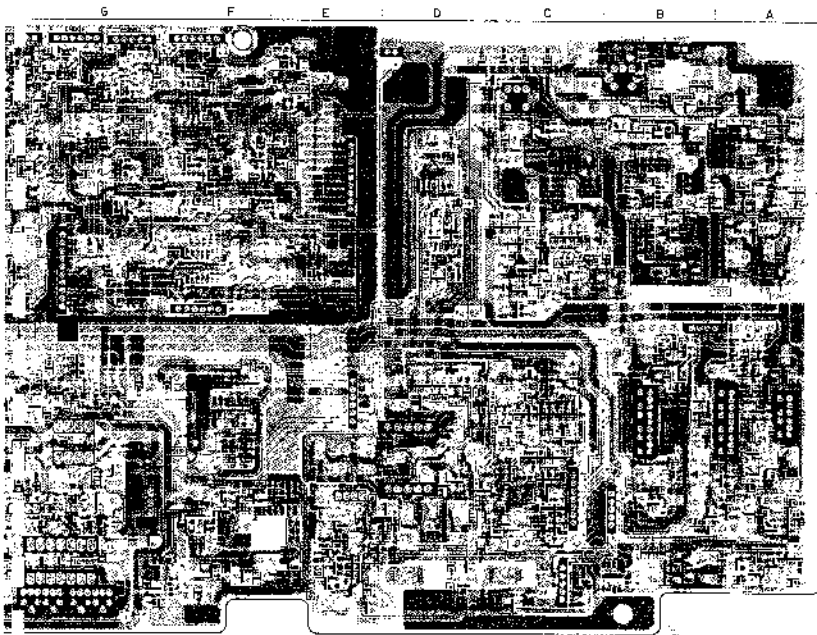
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12	TRANSISTOR	25C3326H	C187	8-729-100-66	TRANSISTOR	25C1623	C216	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C188	8-729-100-66	TRANSISTOR	25C1623	C217	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C189	8-729-100-66	TRANSISTOR	25C1623	C218	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C190	8-729-100-66	TRANSISTOR	25C1623	C219	8-729-100-66	TRANSISTOR	25C1623

12	TRANSISTOR	25C3326H	C191	8-729-100-66	TRANSISTOR	25C1623	C220	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C192	8-729-100-66	TRANSISTOR	25C1623	C221	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C193	8-729-100-66	TRANSISTOR	25C1623	C222	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C194	8-729-100-66	TRANSISTOR	25C1623	C223	8-729-100-66	TRANSISTOR	25C1623
12	TRANSISTOR	25C3326H	C195	8-729-100-66	TRANSISTOR	25C1623	C224	8-729-100-66	TRANSISTOR	25C1623

11-20



Q10	8-729-320-17 TRANSISTOR 25A11220D	C332	8-729-100-66 TRANSISTOR 25C1623	Q409	8-729-100-66 TRANSISTOR 25C1623	Q512	8-729-100-66 TRANSISTOR 25C1623	Q611	8-729-100-66 TRANSISTOR 25C1623	Q720	8-729-100-66 TRANSISTOR 25C1623
Q101	8-729-320-17 TRANSISTOR 25A11220D	C334	8-729-100-66 TRANSISTOR 25C1623	Q417	8-729-100-66 TRANSISTOR 25C1623	Q513	8-729-100-66 TRANSISTOR 25C1623	Q612	8-729-901-06 TRANSISTOR DT1A44K	Q721	8-729-320-17 TRANSISTOR 25A11220D
Q102	8-729-100-66 TRANSISTOR 25C1623	C330	8-729-100-66 TRANSISTOR 25C1623	Q408	8-729-100-66 TRANSISTOR 25C1623	Q514	8-729-300-66 TRANSISTOR 25C1623	Q613	8-729-901-01 TRANSISTOR DT1A44K	Q712	8-729-100-66 TRANSISTOR 25C1623
Q7-3	8-729-100-66 TRANSISTOR 25C1623	Q311	8-729-100-66 TRANSISTOR 25C1623	Q409	8-729-100-66 TRANSISTOR 25C1623	Q515	8-729-300-66 TRANSISTOR 25C1623	Q614	8-729-901-01 TRANSISTOR DT1A44K	Q723	8-729-100-66 TRANSISTOR 25C1623
Q214	8-729-100-66 TRANSISTOR 25C1623	C332	8-729-100-66 TRANSISTOR 25C1623	Q415	8-729-100-66 TRANSISTOR 25C1623	Q516	8-729-100-66 TRANSISTOR 25C1623	Q615	8-729-901-06 TRANSISTOR DT1A44K	Q724	8-729-100-66 TRANSISTOR 25C1623
Q215	8-729-100-66 TRANSISTOR 25C1623	C333	8-729-100-66 TRANSISTOR 25C1623	Q411	8-729-100-66 TRANSISTOR 25C1623	Q517	8-729-901-06 TRANSISTOR DT1A44K	Q616	8-729-901-06 TRANSISTOR DT1A44K	Q725	8-729-100-66 TRANSISTOR 25C1623
Q216	8-729-100-66 TRANSISTOR 25C1623	C334	8-729-100-66 TRANSISTOR 25C1623	Q412	8-729-100-66 TRANSISTOR 25C1623	Q518	8-729-100-66 TRANSISTOR 25C1623	Q701	8-729-100-66 TRANSISTOR 25C1623	Q726	8-729-100-66 TRANSISTOR 25C1623
Q217	8-729-100-66 TRANSISTOR 25C1623	C335	8-729-100-66 TRANSISTOR 25C1623	Q413	8-729-100-66 TRANSISTOR 25C1623	Q519	8-729-100-66 TRANSISTOR 25C1623	Q702	8-729-100-66 TRANSISTOR 25C1623	Q727	8-729-216-22 TRANSISTOR 25C1623
Q270	8-729-100-66 TRANSISTOR 25C1623	C336	8-729-100-66 TRANSISTOR 25C1623	Q414	8-729-100-66 TRANSISTOR 25C1623	Q520	8-729-901-06 TRANSISTOR DT1A44K	Q703	8-729-216-22 TRANSISTOR 25C1623	Q921	8-729-901-04 TRANSISTOR DT1A44K
Q271	8-729-100-66 TRANSISTOR 25C1623	C337	8-729-100-66 TRANSISTOR 25C1623	Q501	8-729-100-66 TRANSISTOR 25C1623	Q521	8-729-901-06 TRANSISTOR DT1A44K	Q704	8-729-100-66 TRANSISTOR 25C1623	Q922	8-729-901-09 TRANSISTOR DT1A44K
Q212	8-729-100-66 TRANSISTOR 25C1623	C338	8-729-100-66 TRANSISTOR 25C1623	Q502	8-729-100-66 TRANSISTOR 25C1623	Q501	8-729-100-66 TRANSISTOR 25C1623	Q705	8-729-100-66 TRANSISTOR 25C1623	Q923	8-729-901-01 TRANSISTOR DT1A44K
Q213	8-729-100-66 TRANSISTOR 25C1623	C339	8-729-100-66 TRANSISTOR 25C1623	Q503	8-729-901-06 TRANSISTOR DT1A44K	Q502	8-729-901-01 TRANSISTOR DT1A44K	Q706	8-729-300-66 TRANSISTOR 25C1623	Q924	8-729-100-66 TRANSISTOR 25C1623
Q224	8-729-100-66 TRANSISTOR 25C1623	C340	8-729-100-66 TRANSISTOR 25C1623	Q504	8-729-100-66 TRANSISTOR 25C1623	Q503	8-729-100-66 TRANSISTOR 25C1623	Q707	8-729-100-66 TRANSISTOR 25C1623	Q925	8-729-100-66 TRANSISTOR 25C1623
Q225	8-729-100-66 TRANSISTOR 25C1623	C341	8-729-100-66 TRANSISTOR 25C1623	Q505	8-729-100-66 TRANSISTOR 25C1623	Q504	8-729-100-66 TRANSISTOR 25C1623	Q708	8-729-100-66 TRANSISTOR 25C1623	Q926	8-729-100-66 TRANSISTOR 25C1623
3226	8-729-320-17 TRANSISTOR 25A11220D	C342	8-729-100-66 TRANSISTOR 25C1623	Q506	8-729-100-66 TRANSISTOR 25C1623	Q505	8-729-100-66 TRANSISTOR 25C1623	Q709	8-729-100-66 TRANSISTOR 25C1623	Q927	8-729-100-66 TRANSISTOR 25C1623
Q227	8-729-100-66 TRANSISTOR 25C1623	C401	8-729-100-66 TRANSISTOR 25C1623	Q507	8-729-901-06 TRANSISTOR DT1A44K	Q506	8-729-100-66 TRANSISTOR 25C1623	Q710	8-729-100-66 TRANSISTOR 25C1623	Q908	8-729-100-66 TRANSISTOR 25C1623
Q228	8-729-100-66 TRANSISTOR 25C1623	C402	8-729-100-66 TRANSISTOR 25C1623	Q508	8-729-100-66 TRANSISTOR 25C1623	Q507	8-729-100-66 TRANSISTOR 25C1623	Q711	8-729-100-66 TRANSISTOR 25C1623	Q909	8-729-100-66 TRANSISTOR 25C1623
Q229	8-729-100-66 TRANSISTOR 25C1623	C403	8-729-100-66 TRANSISTOR 25C1623	Q509	8-729-100-66 TRANSISTOR 25C1623	Q508	8-729-100-66 TRANSISTOR 25C1623	Q712	8-729-100-66 TRANSISTOR 25C1623	Q910	8-729-100-66 TRANSISTOR 25C1623
Q230	8-729-100-66 TRANSISTOR 25C1623	C404	8-729-100-66 TRANSISTOR 25C1623	Q510	8-729-100-66 TRANSISTOR 25C1623	Q509	8-729-100-66 TRANSISTOR 25C1623	Q713	8-729-100-66 TRANSISTOR 25C1623	Q911	8-729-901-06 TRANSISTOR DT1A44K
Q231	8-729-100-66 TRANSISTOR 25C1623	C405	8-729-100-66 TRANSISTOR 25C1623	Q511	8-729-100-66 TRANSISTOR 25C1623	Q510	8-729-100-66 TRANSISTOR 25C1623	Q714	8-729-100-66 TRANSISTOR 25C1623		

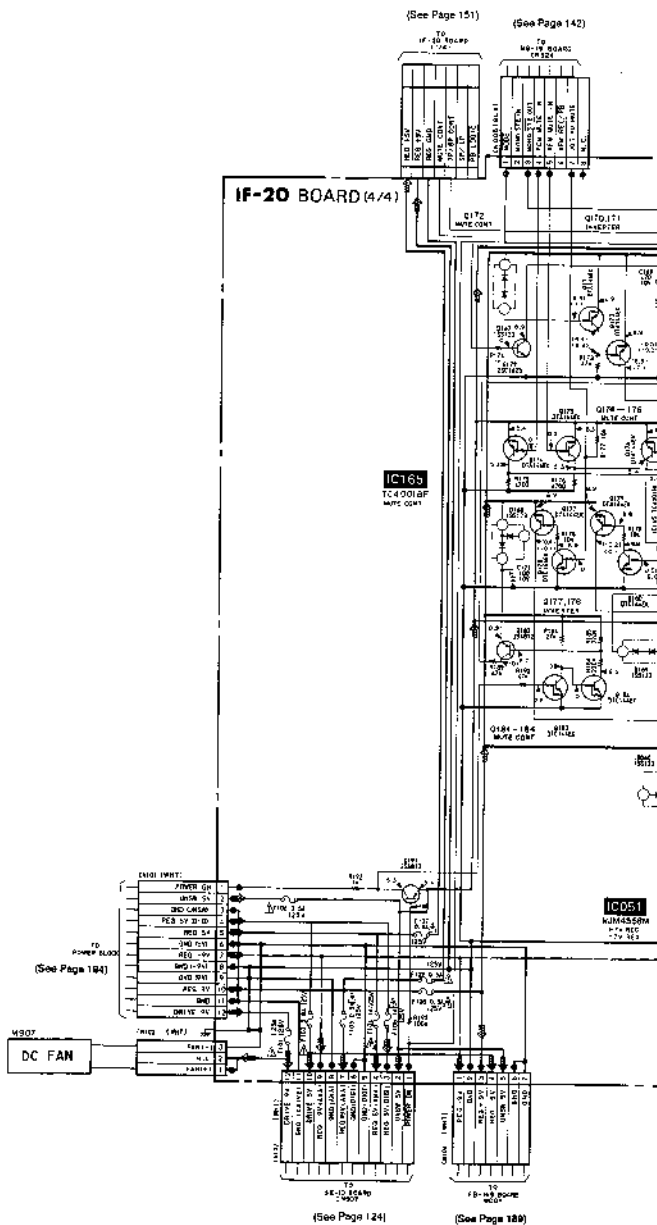


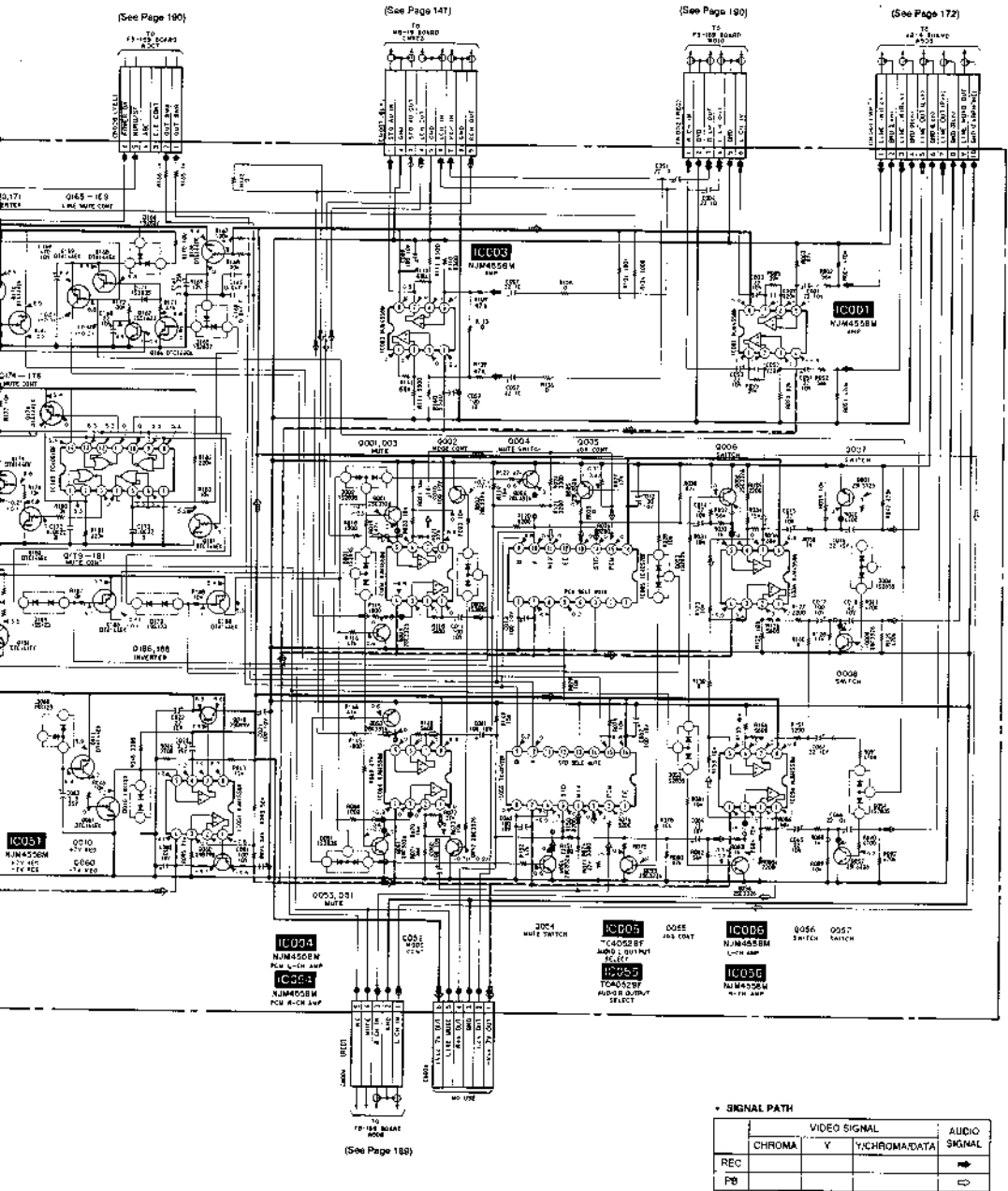
+ 1-633-697-11 JE-5 BOARD
 (DIODE)
 Q301 8-729-900-76 DIODE 15S226
 (TRANSISTOR)
 Q303 8-729-216-22 TRANSISTOR 25A1122

IF-20 (AUDIO SIGNAL SELECT) SCHEMATIC DIAGRAM

-- Ref No: IF-20 BOARD 8000 series --

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O





* SIGNAL PATH

	VIDEO SIGNAL		AUDIO SIGNAL
	CHROMA	Y	YCHROMA/DA/TA
REC			→
PB			↔

FB-169 (FUNCTION CONTROL, FUNCTION SWITCH), TC-20 (LED INDICATOR), MI-25 (MIC IN), HE-2 (HEADPHONE OUT) PRINTED WIRING BOARDS

— Ref No. HF-2 BOARD 5000 series, FH-169, MI-25 TC-20 BOARD 7000 series

* 4-7062-654-A FB-169 (P) BOARD, COMPLETE

(DIODE)

- D001 8-719-800-75 DIODE 1S5276
- D009 8-719-945-02 DIODE 6L5643 (STANDBY)
- D010 8-719-920-05 DIODE TLG1234 (POWER)
- D011 8-719-907-92 DIODE 6L5641 (POU)
- D012 8-719-941-45 DIODE 6L5644 (SP)
- D013 8-719-941-46 DIODE 6L5644 (EP)
- D014 8-719-918-96 DIODE TLR1233 (LED)
- D015 8-719-912-32 DIODE TLR1233 (←)
- D016 8-719-920-05 DIODE TLG1234 (←)
- D017 8-719-912-32 DIODE TLR1233 (←)
- D018 8-719-939-38 DIODE 6L5642 (▲)
- D019 8-719-912-31 DIODE TLR1233 (●)
- D020 8-719-913-59 DIODE LT-9235N (H1R)
- D024 8-719-906-53 DIODE 6L5644 (TIMER RED)
- D025 8-719-912-31 DIODE TLR1233 (AUDIO SUB)
- D026 8-719-912-31 DIODE TLR1233 (TC DUB)
- D041 8-719-104-34 DIODE 1S2835
- D042 8-719-104-34 DIODE 1S2835
- D043 1-520-503-11 METER UNIT, LED LUBE

- D153 8-719-104-34 DIODE 1S2835
- D156 8-719-104-34 DIODE 1S2835
- D157 8-719-400-18 DIODE NAL550K
- D158 8-719-104-34 DIODE 1S2835

(IC)

- IC001 8-752-830-17 IC CXP5466-2820
- IC002 8-759-537-56 IC S-5054ALB-LW-5
- IC003 8-741-100-48 IC SRX1610-59
- IC004 8-759-927-46 IC SM74HC00AMS
- IC101 8-759-991-2X IC NLM559M
- IC102 8-759-300-71 IC TC4053BFB
- IC152 8-759-991-92 IC NLM559M
- IC153 8-759-991-92 IC NLM559M
- IC154 8-759-700-62 IC NLM559M

- Q018 8-729-921-36 TRANSISTOR DT1444C
- Q019 8-729-921-31 TRANSISTOR DT1444C
- Q101 8-729-921-01 TRANSISTOR DT1444C
- Q103 8-729-216-22 TRANSISTOR 2SA1162
- Q104 8-729-100-66 TRANSISTOR 2SC1623
- Q105 8-729-202-36 TRANSISTOR 2SC3326M
- Q106 8-729-202-36 TRANSISTOR 2SC3326M
- Q153 8-729-202-36 TRANSISTOR 2SC3326M
- Q154 8-729-202-36 TRANSISTOR 2SC3326M
- Q155 8-729-202-36 TRANSISTOR 2SC3326M
- Q156 8-729-100-66 TRANSISTOR 2SC1623
- Q157 8-729-921-36 TRANSISTOR DT1444C
- Q158 8-729-921-06 TRANSISTOR DT1444C
- Q159 8-729-921-01 TRANSISTOR DT1444C
- Q160 8-729-140-75 TRANSISTOR 2SO999-DLX
- Q161 8-729-101-07 TRANSISTOR 2SB708-BLK
- Q162 8-729-202-36 TRANSISTOR 2SC3326M

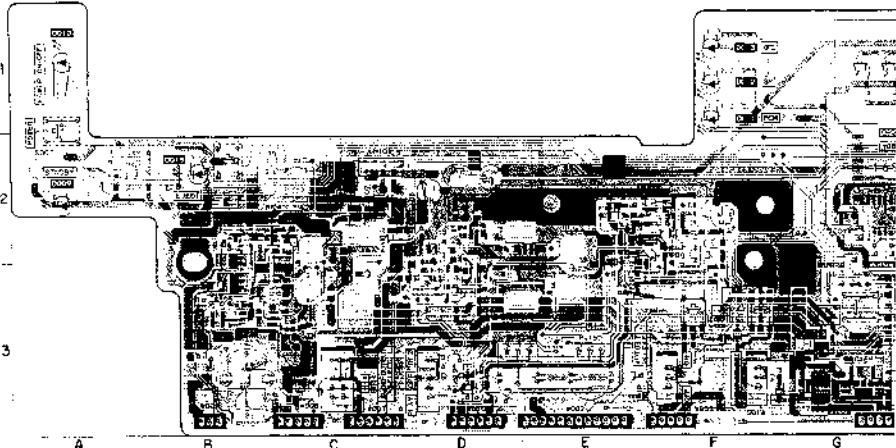
(TRANSISTOR)

- Q072 8-729-501-09 TRANSISTOR DT1444C
- Q073 8-729-140-85 TRANSISTOR FPI13M
- Q015 8-729-216-22 TRANSISTOR 2SA1162
- Q016 8-729-900-53 TRANSISTOR DT1444C
- Q017 8-729-921-06 TRANSISTOR DT1444C

FB-169 BOARD (CONDUCTOR SIDE)

- D651 I-2
- D656 O-2
- D659 A-2
- D610 A-1
- D611 F-1
- D612 F-1
- D613 F-1
- D614 F-1
- D615 F-2
- D616 F-2
- D617 F-2
- D618 F-2
- D619 F-2
- D620 F-2
- D621 F-2
- D622 F-2
- D623 F-2
- D624 F-2
- D625 F-2
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- D699 F-2
- D700 F-2

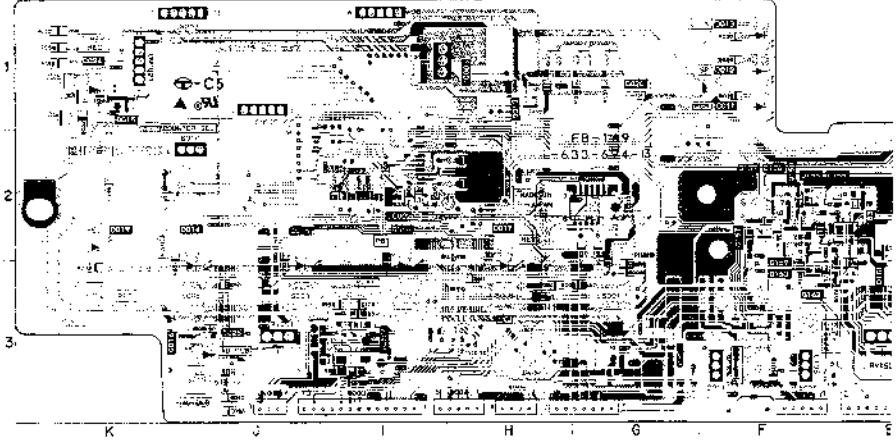
FB-169 BOARD (COMPONENT SIDE)



FB-169 BOARD (CONDUCTOR SIDE)

- D659 O-2
- D660 O-2
- D661 A-2
- D662 A-2
- D663 A-2
- D664 A-2
- D665 A-2
- D666 A-2
- D667 A-2
- D668 A-2
- D669 A-2
- D670 A-2
- D671 A-2
- D672 A-2
- D673 A-2
- D674 A-2
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- D735 A-2
- D736 A-2
- D737 A-2
- D738 A-2
- D739 A-2
- D740 A-2
- D741 A-2
- D742 A-2
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- D746 A-2
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- D748 A-2
- D749 A-2
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- D764 A-2
- D765 A-2
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- D769 A-2
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- D800 A-2

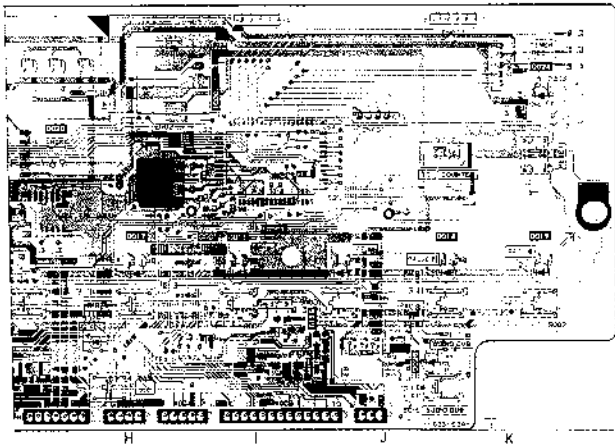
FB-169 BOARD (CONDUCTOR SIDE)



* 1-633-599-11 TC-20 BOARD

(TRANSISTOR)

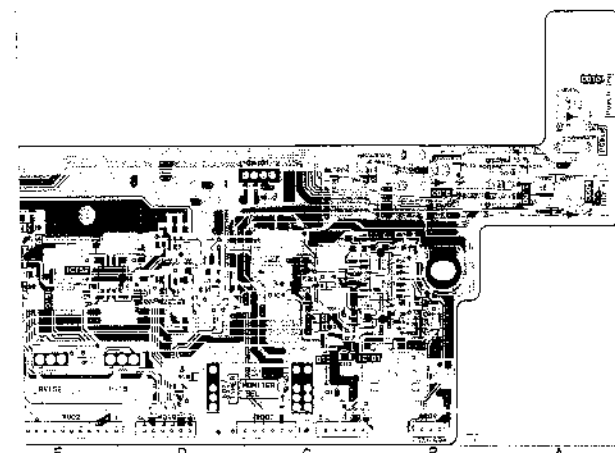
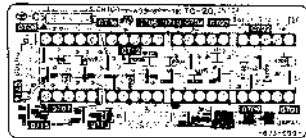
Q201	8-729-140-88	TRANSISTOR	FP1A3M
Q202	8-729-140-88	TRANSISTOR	FP1A3M
Q203	8-729-140-88	TRANSISTOR	FP1A3M
Q204	8-729-140-88	TRANSISTOR	FP1A3M
Q205	8-729-140-88	TRANSISTOR	FP1A3M
Q206	8-729-140-88	TRANSISTOR	FP1A3M
Q207	8-729-140-88	TRANSISTOR	FP1A3M
Q208	8-729-140-88	TRANSISTOR	FP1A3M
Q209	8-729-900-53	TRANSISTOR	DT1C14EX
Q210	8-729-900-53	TRANSISTOR	DT1C14EX
Q211	8-729-900-53	TRANSISTOR	DT1C14EX
Q212	8-729-900-53	TRANSISTOR	DT1C14EX
Q213	8-729-900-53	TRANSISTOR	DT1C14EX
Q214	8-729-900-53	TRANSISTOR	DT1C14EX
Q215	8-729-900-53	TRANSISTOR	DT1C14EX



TC-20 BOARD (COMPONENT SIDE)



TC-20 BOARD (CONDUCTOR SIDE)



HE-2 BOARD (COMPONENT SIDE)

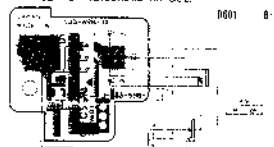


* 1-633-599-11 MJ-25 BOARD

(DIODE)

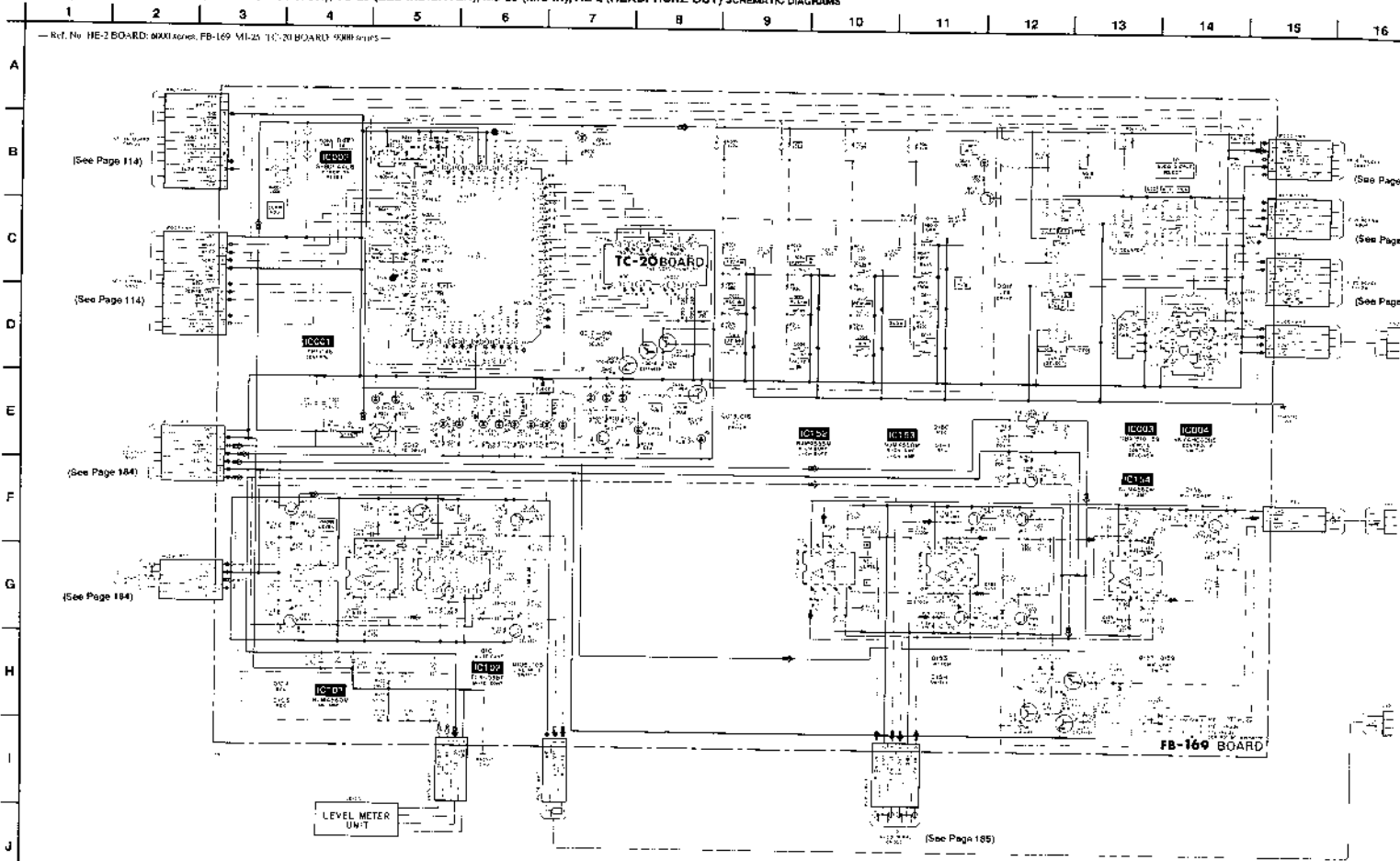
D001	8-719-106-80	DIODE	MO13W-01
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MJ-25 BOARD (CONDUCTOR SIDE)



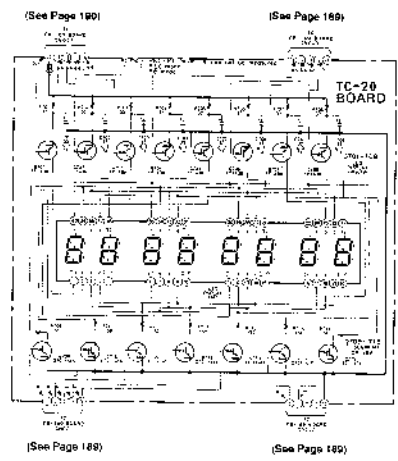
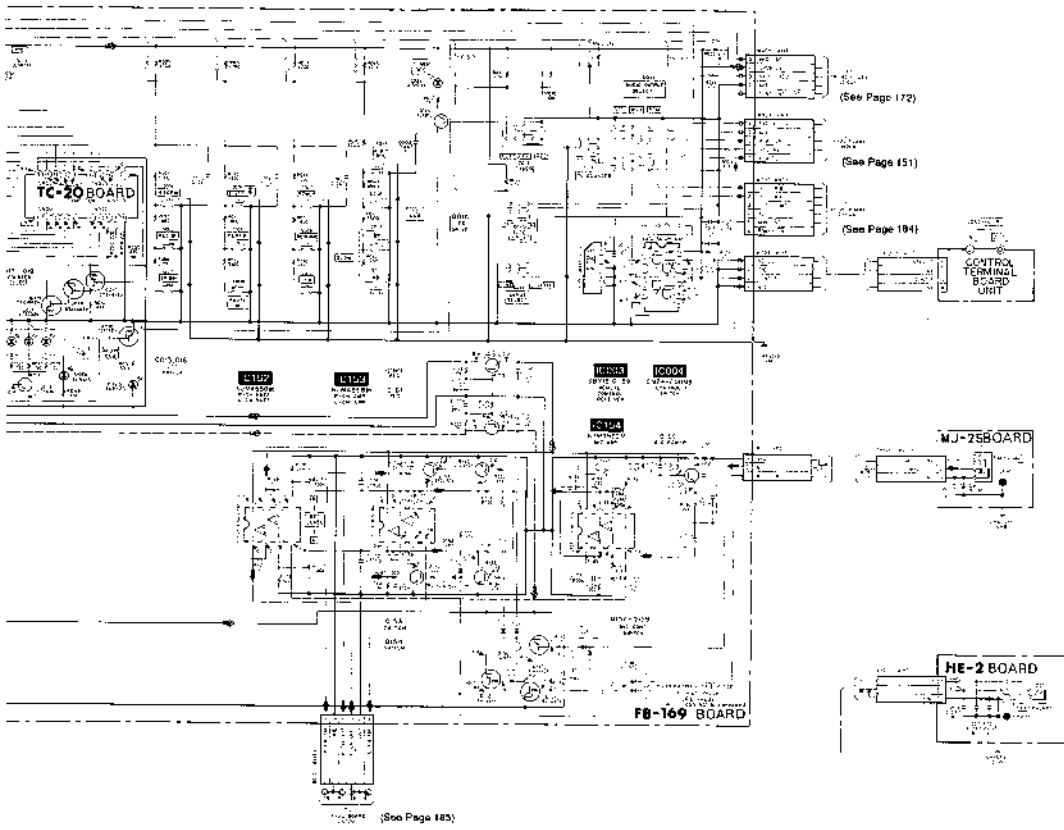
FB-169 (FUNCTION CONTROL, FUNCTION SWITCH), TC-20 (LED INDICATOR), MJ-25 (MIC IN), HE-2 (HEADPHONE OUT) SCHEMATIC DIAGRAMS

— Ref. No. HE-2 BOARD: MAXI-Panel, FB-169 MJ-25 TC-20 BOARD: 9388-3415 —



5-2 (HEADPHONE OUT) SCHEMATIC DIAGRAMS

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

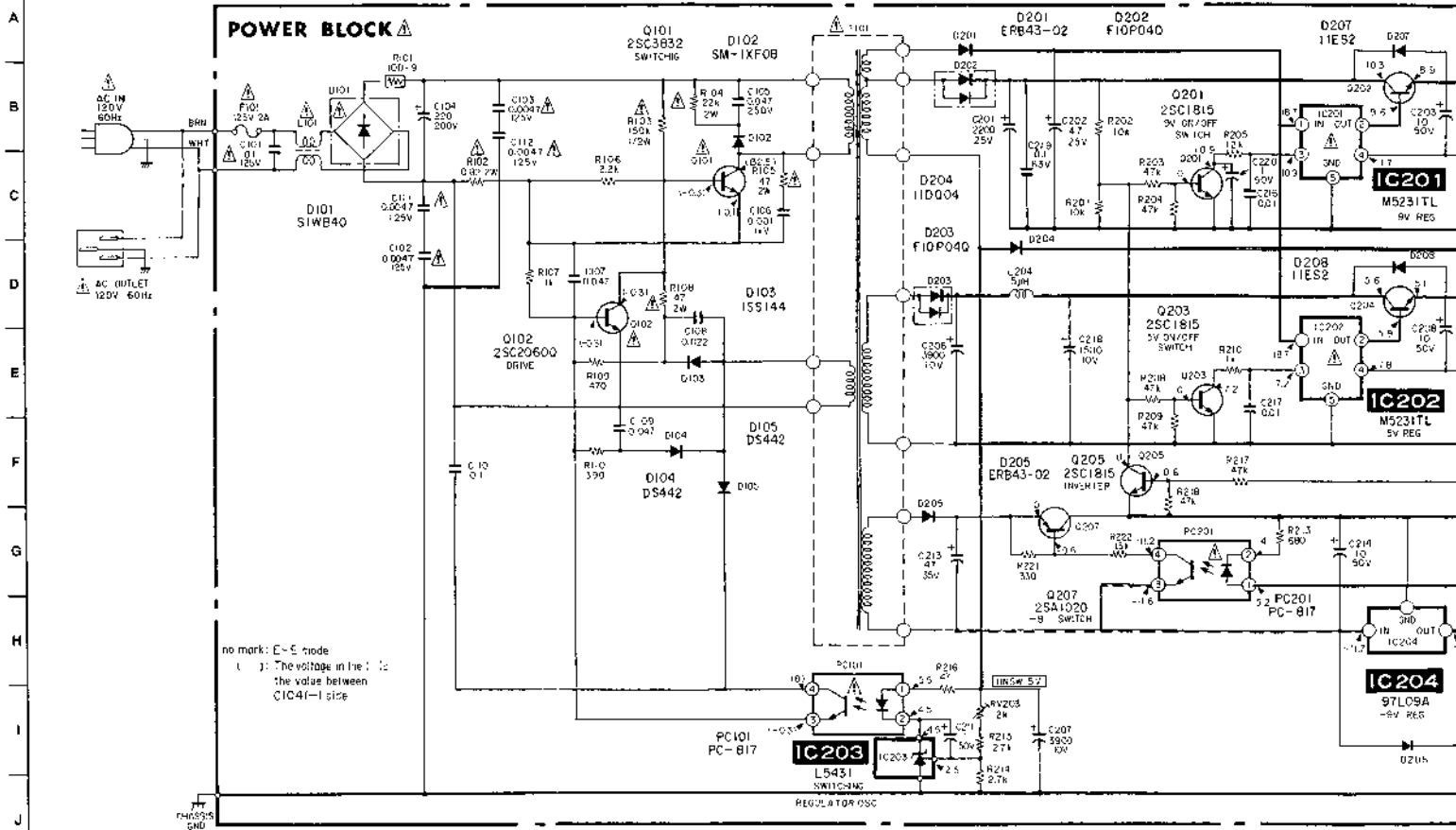


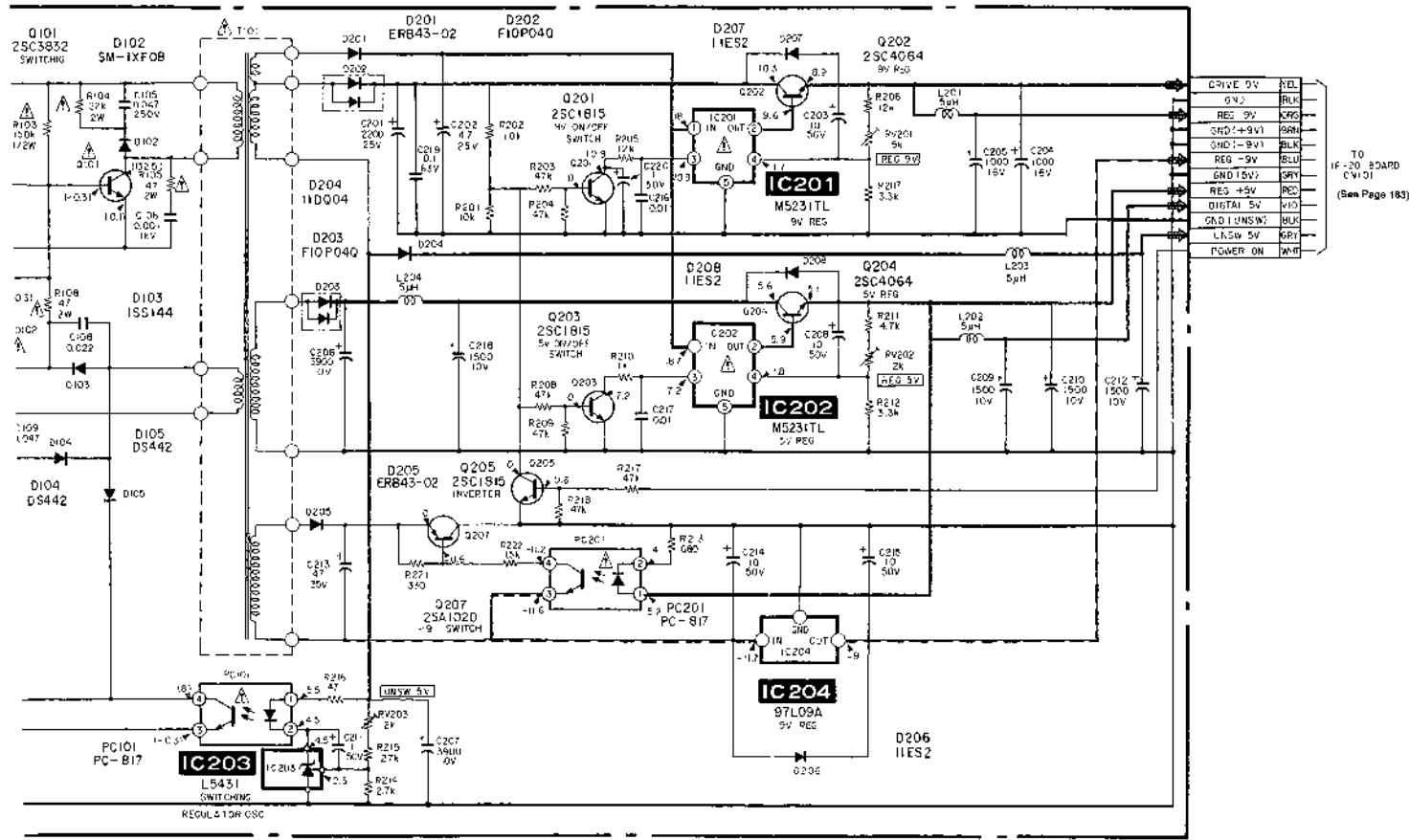
• SIGNAL PATH

	VIDEO SIGNAL		AUDIO SIGNAL
	CHROMA	Y	
REC			→
PB			↔

POWER BLOCK SCHEMATIC DIAGRAM

Ref. No. POWER BLOCK: 1000 series





POWER BLOCK PRINTED WIRING BOARD

— Ref. No. POWER BLOCK 10000 series —

1-413-519-11 POWER BLOCK

(DIODE)

- D101 8-719-500-04 DIODE 117B40
- D102 9-993-709-01 DIODE SM-1FX08
- D103 9-993-710-01 DIODE 1SS44
- D104 9-993-711-02 DIODE DS442
- D105 9-993-711-01 DIODE DS442

- D201 8-719-907-40 DIODE ERB43-02
- D202 9-993-712-01 DIODE F10P40
- D203 9-993-712-01 DIODE F10P40
- D204 8-719-200-29 DIODE 110R04
- D205 8-719-907-40 DIODE ERB43-02
- D206 8-719-200-82 DIODE 11ES2
- D207 8-719-200-82 DIODE 11ES2
- D208 8-719-200-82 DIODE 11ES2

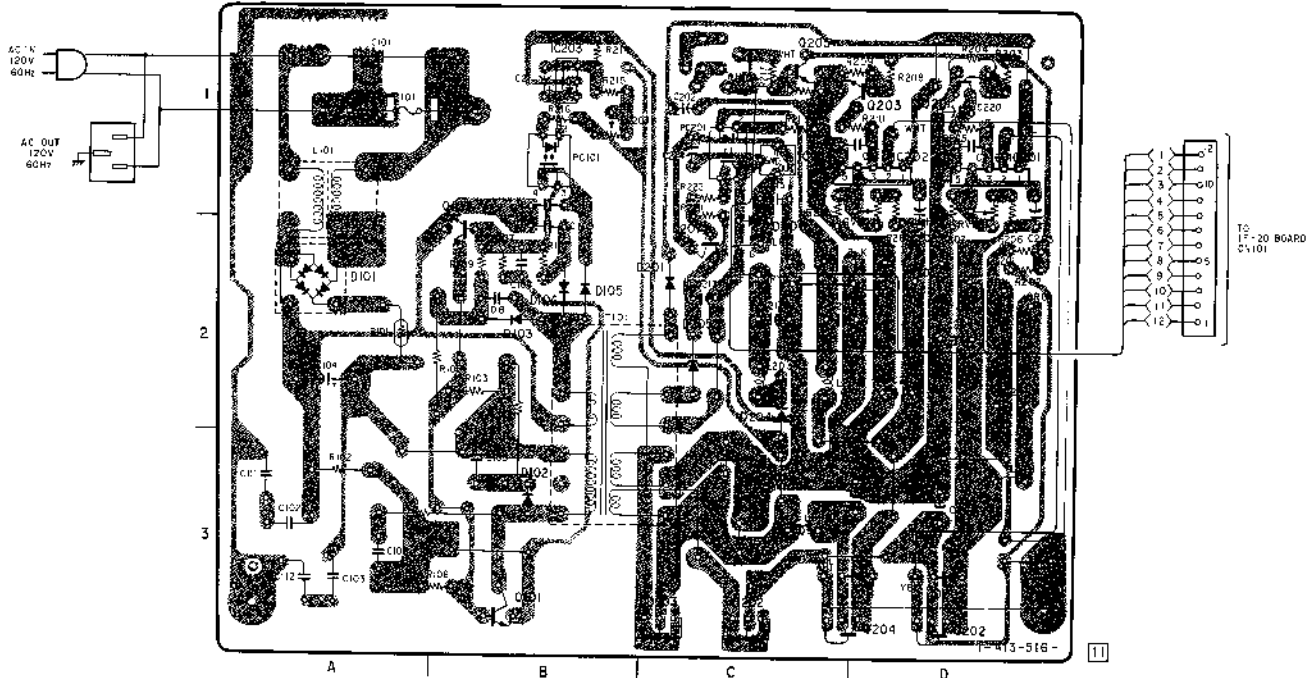
(IC)

- IC201 8-759-805-43 IC MS231TL
- IC202 8-759-805-43 IC MS231TL
- IC203 9-993-714-01 IC L5431
- IC204 9-993-707-04 IC 92C09A

(TRANSISTOR)

- Q101 8-729-303-04 TRANSISTOR 2SC2782
- Q102 8-729-906-02 TRANSISTOR 2SC2060D
- Q201 8-729-281-53 TRANSISTOR 2SC1819
- Q202 9-993-708-01 TRANSISTOR 2SC4204
- Q203 8-729-281-53 TRANSISTOR 2SC1815
- Q204 9-993-708-01 TRANSISTOR 2SC4204
- Q205 8-729-281-53 TRANSISTOR 2SC1815
- Q207 8-729-282-45 TRANSISTOR 2SA1202

POWER BLOCK (CONDUCTOR SIDE)



4-3. SEMICONDUCTORS

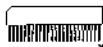
AN567P
AN568P



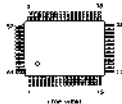
BA401
TA7090AP



9A7035LB



CF77365FT
CXP5024M
CXP5048H-264Q
CXP5048H-265Q
CXP5048H-210Q
μPD75166Q-573-1B
μPD75166G-899-1B



CF77308FR



CXA1047M
LB1516M



CXA1109M
TA8607F



CXP60116-638Q



MC14069LDF
MC1488MR
RC3403AM



NJM2234M
NJM2230M
NJM2246M
RC3414M



SBX1585-01



TA7745F



TLA31CLP



28A1175-HFE



28A1385-ZL
28C2516



29C1327-B
DTA144ES



FNG2



IMX1



IMZ1



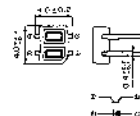
NJL7141E



1S5119
RDS-1E5B2
RDS-1E5B3



GP2500-B



AA3422B



QL-4506



GL-5EG821-B



QL-SHD21
QL-SHY41



QL-SHS42
QL-SHY42



LB-202DB



LT-8230D



SLP281C-50



TLR123



TLY123



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C742	1-183-809-11	CERAMIC CHIP	0.047uF 10% 25V	C910	1-126-157-11	ELECT	10uF 20% 16V
C743	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V	C911	1-126-157-11	ELECT	10uF 20% 16V
C744	1-124-589-11	ELECT	47uF 20% 16V			(CONNECTOR)	
C745	1-183-809-11	CERAMIC CHIP	0.047uF 10% 25V				
C746	1-126-157-11	ELECT	10uF 20% 16V	CM001	1-506-475-11	CONNECTOR 10P, MALE	
C747	1-164-232-11	CERAMIC CHIP	0.01uF 50V	CM002	1-506-471-11	CONNECTOR 9P, MALE	
C748	1-164-232-11	CERAMIC CHIP	0.01uF 50V	CM004	1-506-470-11	CONNECTOR 9P, MALE	
C749	1-126-157-11	ELECT	10uF 20% 16V	CM005	1-506-473-11	CONNECTOR 9P, MALE	
C750	1-126-157-11	ELECT	10uF 20% 16V	CM006	1-506-471-11	CONNECTOR 9P, MALE	
C752	1-183-809-11	CERAMIC CHIP	0.047uF 10% 25V	CM007	1-506-476-11	CONNECTOR 9P, MALE	
C753	1-183-809-11	CERAMIC CHIP	0.047uF 10% 25V	CM008	1-506-471-11	CONNECTOR 9P, MALE	
C754	1-124-589-11	ELECT	47uF 20% 16V	CM101	1-500-900-00	PIN, CONNECTOR 12P	
C755	1-163-095-00	CERAMIC CHIP	12PF 5% 50V	CM102	1-506-477-11	CONNECTOR 12P, MALE	
C756	1-126-157-11	ELECT	10uF 20% 16V	CM103	1-506-488-11	CONNECTOR 3P, MALE	
C757	1-183-809-11	CERAMIC CHIP	0.047uF 10% 25V	CM104	1-506-472-11	CONNECTOR 7P, MALE	
C758	1-124-584-00	ELECT	100uF 20% 10V	CM901	1-506-470-11	CONNECTOR 5P, MALE	
C801	1-126-163-11	ELECT	4.7uF 20% 50V	CM902	1-506-472-11	CONNECTOR 7P, MALE	
C802	1-126-163-11	ELECT	4.7uF 20% 50V	CM903	1-506-471-11	CONNECTOR 9P, MALE	
C803	1-124-584-00	ELECT	100uF 20% 10V	CM904	1-506-470-11	CONNECTOR 5P, MALE	
C804	1-183-809-11	CERAMIC CHIP	0.047uF 10% 25V	CM905	1-506-473-11	CONNECTOR 9P, MALE	
C806	1-126-163-11	ELECT	4.7uF 20% 50V	CM906	1-506-472-11	CONNECTOR 7P, MALE	
C806	1-124-584-00	ELECT	100uF 20% 10V	CM911	1-506-467-11	CONNECTOR 2P, MALE	
C807	1-124-584-00	ELECT	100uF 20% 10V			(DIODE)	
C808	1-126-163-11	ELECT	4.7uF 20% 50V	D001	8-719-104-34	DIODE 1S2836	
C809	1-135-155-21	TANTALUM CHIP	4.7uF 10% 10V	D002	8-719-104-34	DIODE 1S2836	
C810	1-135-155-21	TANTALUM CHIP	4.7uF 10% 10V	D003	8-719-104-34	DIODE 1S2836	
C811	1-124-584-00	ELECT	100uF 20% 10V	D004	8-719-104-34	DIODE 1S2836	
C812	1-183-809-11	CERAMIC CHIP	0.047uF 10% 25V	D010	8-719-800-76	DIODE 1S5226	
C813	1-135-155-21	TANTALUM CHIP	4.7uF 10% 10V	D051	8-719-104-34	DIODE 1S2836	
C814	1-124-584-00	ELECT	100uF 20% 10V	D052	8-719-104-34	DIODE 1S2836	
C815	1-124-584-00	ELECT	100uF 20% 10V	D053	8-719-104-34	DIODE 1S2836	
C816	1-135-155-21	TANTALUM CHIP	4.7uF 10% 10V	D054	8-719-104-34	DIODE 1S2836	
C817	1-124-584-00	ELECT	100uF 20% 10V	D060	8-719-800-76	DIODE 1S5226	
C901	1-183-809-11	CERAMIC CHIP	0.047uF 10% 25V	D165	8-719-400-18	DIODE MAX 520K	
C902	1-183-809-11	CERAMIC CHIP	0.047uF 10% 25V	D166	8-719-400-18	DIODE MAX 520K	
C903	1-184-161-11	CERAMIC CHIP	0.0022uF 10% 100V	D167	8-719-800-76	DIODE 1S5226	
C904	1-184-161-11	CERAMIC CHIP	0.0022uF 10% 100V	D168	8-719-800-76	DIODE 1S5226	
C905	1-124-465-00	ELECT	0.47uF 20% 50V	D169	8-719-800-76	DIODE 1S5226	
C906	1-126-162-11	ELECT	3.3uF 20% 50V	D170	8-719-800-76	DIODE 1S5226	
C907	1-183-125-00	CERAMIC CHIP	220PF 5% 90V	D171	8-719-104-34	DIODE 1S2836	
C908	1-126-154-11	ELECT	47uF 20% 6.3V	D201	8-719-800-76	DIODE 1S5226	
C909	1-183-809-11	CERAMIC CHIP	0.047uF 10% 25V				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D801	8-719-400-18	DIODE MA152MK		IC005	8-759-932-84	IC BU4052BF	
D802	8-719-400-18	DIODE MA152MK		IC006	8-759-981-92	IC PC4558M	
D903	8-719-104-34	DIODE 1S2836		IC051	8-759-981-92	IC PC4558M	
D904	8-719-400-18	DIODE MA152MK		IC054	8-759-981-92	IC PC4558M	
		(DELAY LINE)		IC055	8-759-932-84	IC BU4052BF	
DL201	1-415-342-00	DELAY LINE, 1H		IC056	8-759-981-92	IC PC4558M	
DL202	1-415-342-00	DELAY LINE, 1H		IC165	8-759-200-67	IC TC4001BF	
		(FUSE)		IC204	8-759-030-55	IC MC1496MR	
F101	1-532-777-21	FUSE, MICRO (SECONDARY) (1.25A 125V)		IC202	8-759-030-55	IC MC1496MR	
F102	1-532-775-11	FUSE, MICRO (SECONDARY) (0.8A 125V)		IC331	8-759-710-62	IC NJM2246M	
F103	1-532-773-21	FUSE, MICRO (SECONDARY) (0.8A 125V)		IC332	8-759-710-62	IC NJM2246M	
F104	1-532-778-21	FUSE, MICRO (SECONDARY) (1A 125V)		IC333	8-759-710-09	IC NJM2234M	
F105	1-532-776-21	FUSE, MICRO (SECONDARY) (1A 125V)		IC401	8-759-711-71	IC NJM2234M	
F106	1-532-773-21	FUSE, MICRO (SECONDARY) (0.8A 125V)		IC402	8-759-711-71	IC NJM2234M	
F107	1-532-775-11	FUSE, MICRO (SECONDARY) (0.8A 125V)		IC601	8-759-200-60	IC TA7060AP	
F108	1-532-773-21	FUSE, MICRO (SECONDARY) (0.8A 125V)		IC602	8-759-200-80	IC TA7060AP	
F109	1-532-773-21	FUSE, MICRO (SECONDARY) (0.8A 125V)		IC603	8-759-400-06	IC AM602P	
		(HOURS METER)		IC701	8-759-200-80	IC TA7060AP	
FC001	1-548-119-21	HOURS METER		IC702	8-759-402-33	IC AM607P	
		(FILTER)		IC703	8-752-201-30	IC CA22013	
FL331	1-236-564-11	FILTER, LOW PASS		IC704	8-759-969-13	IC SAE9813P	
FL332	1-235-779-11	LFF		IC705	8-759-101-12	IC CPC316Z	
FL333	1-236-563-11	FILTER, BAND PASS		IC801	8-752-009-51	IC CX20095A	
FL401	1-415-647-11	DELAY LINE, LC 250NS		IC802	8-752-009-51	IC CA20095A	
FL501	1-415-637-11	DELAY LINE, LC 150NS		IC901	8-759-008-10	IC MC140890BF	
FL502	1-415-637-11	DELAY LINE, LC 150NS		IC902	8-759-009-10	IC MC140890BF	
FL503	1-415-637-11	DELAY LINE, LC 150NS		IC903	8-759-100-93	IC CPC3930Z	
FL701	1-415-551-11	DELAY LINE 140NS				(COIL)	
FL702	1-415-551-11	DELAY LINE 140NS		L201	1-408-978-21	INDUCTOR 56uH	
FL703	1-415-551-11	DELAY LINE 140NS		L202	1-408-972-21	INDUCTOR 15uH	
FL704	1-415-551-11	DELAY LINE 140NS		L203	1-408-979-21	INDUCTOR 56uH	
FL705	1-235-617-11	FILTER, LOW-PASS 1MHz		L204	1-408-973-21	INDUCTOR 18uH	
		(IC)		L205	1-408-974-21	INDUCTOR 22uH	
IC001	8-759-981-92	IC IC4558M		L206	1-408-976-21	INDUCTOR 33uH	
IC003	8-759-981-92	IC IC4558M		L207	1-408-972-21	INDUCTOR 15uH	
IC004	8-759-981-92	IC IC4558M		L208	1-408-979-21	INDUCTOR 56uH	
				L209	1-408-980-21	INDUCTOR 68uH	
				L210	1-408-979-21	INDUCTOR 56uH	
				L211	1-408-984-21	INDUCTOR 150uH	
				L212	1-408-972-21	INDUCTOR 15uH	
				L213	1-408-973-21	INDUCTOR 18uH	

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  ou une ligne pointillée avec la marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark		
C254	1-164-232-11	CERAMIC CHIP	0.01uF	50V	C370	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C255	1-164-232-11	CERAMIC CHIP	0.01uF	50V	C371	1-126-154-11	ELECT	47uF	20% 6.3V
C256	1-164-232-11	CERAMIC CHIP	0.01uF	50V	C372	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C257	1-164-232-11	CERAMIC CHIP	0.01uF	50V	C373	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C258	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C401	1-163-099-00	CERAMIC CHIP	18PF	5% 50V
C259	1-126-154-11	ELECT	47uF	20% 6.3V	C402	1-126-154-11	ELECT	47uF	20% 6.3V
C260	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C404	1-163-101-00	CERAMIC CHIP	22PF	5% 50V
C261	1-126-154-11	ELECT	47uF	20% 6.3V	C405	1-126-154-11	ELECT	47uF	20% 6.3V
C263	1-126-154-11	ELECT	47uF	20% 6.3V	C407	1-124-229-00	ELECT	33uF	20% 10V
C264	1-163-105-00	CERAMIC CHIP	33PF	5% 50V	C408	1-163-809-11	CERAMIC CHIP	18PF	5% 50V
C265	1-163-105-00	CERAMIC CHIP	33PF	5% 50V	C409	1-126-154-11	ELECT	47uF	20% 6.3V
C330	1-126-162-11	ELECT	3.3uF	20% 50V	C410	1-124-229-00	ELECT	33uF	20% 10V
C331	1-126-157-11	ELECT	10uF	20% 16V	C411	1-126-154-11	ELECT	47uF	20% 6.3V
C332	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C412	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C333	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C413	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C334	1-124-584-00	ELECT	100uF	20% 10V	C414	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C335	1-124-584-00	ELECT	100uF	20% 10V	C415	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C336	1-163-099-00	CERAMIC CHIP	18PF	5% 50V	C416	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C337	1-124-584-00	ELECT	100uF	20% 10V	C418	1-126-157-11	ELECT	10uF	20% 16V
C339	1-163-104-00	CERAMIC CHIP	30PF	5% 50V	C419	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C340	1-126-153-11	ELECT	22uF	20% 6.3V	C421	1-126-157-11	ELECT	10uF	20% 16V
C344	1-126-154-11	ELECT	47uF	20% 6.3V	C422	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C345	1-126-157-11	ELECT	10uF	20% 16V	C423	1-126-154-11	ELECT	47uF	20% 6.3V
C346	1-126-153-11	ELECT	22uF	20% 6.3V	C424	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C350	1-126-154-11	ELECT	47uF	20% 6.3V	C425	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C351	1-126-157-11	ELECT	10uF	20% 16V	C426	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C352	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C427	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C353	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C428	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C354	1-126-154-11	ELECT	47uF	20% 6.3V	C429	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C355	1-126-153-11	ELECT	22uF	20% 6.3V	C501	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C356	1-126-157-11	ELECT	10uF	20% 16V	C502	1-124-589-11	ELECT	47uF	20% 16V
C357	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C503	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C358	1-126-154-11	ELECT	47uF	20% 6.3V	C504	1-124-584-00	ELECT	100uF	20% 10V
C359	1-126-157-11	ELECT	10uF	20% 16V	C505	1-163-091-00	CERAMIC CHIP	8PF	50V
C360	1-126-157-11	ELECT	10uF	20% 16V	C506	1-163-101-00	CERAMIC CHIP	22PF	5% 50V
C361	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C507	1-163-101-00	CERAMIC CHIP	22PF	5% 50V
C363	1-126-154-11	ELECT	47uF	20% 6.3V	C508	1-163-109-00	CERAMIC CHIP	47PF	5% 50V
C364	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C509	1-124-589-11	ELECT	47uF	20% 16V
C365	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C510	1-163-091-00	CERAMIC CHIP	8PF	50V
C368	1-126-157-11	ELECT	10uF	20% 16V	C511	1-163-109-00	CERAMIC CHIP	22PF	5% 50V
					C512	1-163-101-00	CERAMIC CHIP	22PF	5% 50V
					C513	1-163-109-00	CERAMIC CHIP	47PF	5% 50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	
CS14	1-124-589-11	ELECT	47uF 20%	16V	C032	1-163-009-11 CERAMIC CHIP	0.001uF 10%	50V
CS15	1-163-093-00	CERAMIC CHIP	10PF	5%	50V			
CS16	1-126-157-11	ELECT	10uF	20%	16V			
CS17	1-124-584-00	ELECT	100uF	20%	10V			
CS18	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
CS19	1-163-091-00	CERAMIC CHIP	8PF	50V				
CS20	1-163-101-00	CERAMIC CHIP	22PF	5%	50V			
CS21	1-163-101-00	CERAMIC CHIP	22PF	5%	50V			
CS22	1-163-809-00	CERAMIC CHIP	47PF	5%	50V			
CS23	1-124-589-11	ELECT	47uF	20%	16V			
CS24	1-124-589-11	ELECT	47uF	20%	16V			
CS25	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
CS26	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
CS27	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
CS01	1-124-589-11	ELECT	47uF	20%	16V			
CS02	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
CS03	1-124-589-11	ELECT	47uF	20%	16V			
CS04	1-163-133-00	CERAMIC CHIP	27PF	5%	50V			
CS05	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
CS06	1-126-157-11	ELECT	10uF	20%	16V			
CS07	1-126-157-11	ELECT	10uF	20%	16V			
CS08	1-126-157-11	ELECT	10uF	20%	16V			
CS09	1-124-584-00	ELECT	100uF	20%	10V			
CS10	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
CS11	1-163-105-00	CERAMIC CHIP	33PF	5%	50V			
CS12	1-124-589-11	ELECT	47uF	20%	16V			
CS13	1-163-093-00	CERAMIC CHIP	10PF	5%	50V			
CS14	1-126-157-11	ELECT	10uF	20%	16V			
CS15	1-124-589-11	ELECT	47uF	20%	16V			
CS16	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
CS17	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
CS18	1-126-157-11	ELECT	10uF	20%	16V			
CS19	1-126-157-11	ELECT	10uF	20%	16V			
CS20	1-126-157-11	ELECT	10uF	20%	16V			
CS21	1-126-157-11	ELECT	10uF	20%	16V			
CS22	1-124-234-00	ELECT	22uF	20%	16V			
CS23	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
CS24	1-126-157-11	ELECT	10uF	20%	16V			
CS27	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
CS28	1-126-157-11	ELECT	10uF	20%	16V			
CS29	1-126-157-11	ELECT	10uF	20%	16V			
CS31	1-126-157-11	ELECT	10uF	20%	16V			
C033	1-163-133-00	CERAMIC CHIP	470PF	5%	50V			
C034	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
C701	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
C702	1-124-589-11	ELECT	47uF	20%	16V			
C703	1-164-633-11	CERAMIC CHIP	0.3uF	10%	25V			
C704	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
C705	1-124-589-11	ELECT	47uF	20%	16V			
C706	1-164-232-11	CERAMIC CHIP	0.01uF	50V				
C709	1-164-232-11	CERAMIC CHIP	0.01uF	50V				
C710	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
C711	1-164-232-11	CERAMIC CHIP	0.01uF	50V				
C712	1-163-133-00	CERAMIC CHIP	470PF	5%	50V			
C713	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
C714	1-124-234-00	ELECT	22uF	20%	16V			
C715	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
C716	1-126-157-11	ELECT	10uF	20%	16V			
C718	1-163-093-00	CERAMIC CHIP	10PF	5%	50V			
C719	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
C720	1-124-589-11	ELECT	47uF	20%	16V			
C721	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
C722	1-124-589-11	ELECT	47uF	20%	16V			
C723	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
C724	1-163-068-00	CERAMIC CHIP	5PF	50V				
C725	1-163-101-00	CERAMIC CHIP	22PF	5%	50V			
C726	1-124-584-00	ELECT	100uF	20%	10V			
C727	1-163-101-00	CERAMIC CHIP	22PF	5%	50V			
C728	1-124-472-11	ELECT	470uF	20%	10V			
C729	1-163-093-00	CERAMIC CHIP	10PF	5%	50V			
C730	1-126-157-11	ELECT	10uF	20%	16V			
C731	1-124-589-11	ELECT	47uF	20%	16V			
C732	1-163-093-00	CERAMIC CHIP	10PF	5%	50V			
C733	1-126-157-11	ELECT	10uF	20%	16V			
C734	1-124-589-11	ELECT	47uF	20%	16V			
C735	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
C736	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
C737	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
C738	1-163-091-00	CERAMIC CHIP	15PF	5%	50V			
C739	1-126-157-11	ELECT	10uF	20%	16V			
C740	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V			
C741	1-124-234-00	ELECT	22uF	20%	16V			

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R831	1-216-049-00	METAL CHIP	1K 5% 1/10W	RV402	1-230-866-11	RES. ADJ. METAL 4.7K	
R832	1-216-047-00	METAL CHIP	520 5% 1/10W	RV403	1-230-868-11	RES. ADJ. METAL 2.2K	
R833	1-216-055-00	METAL CHIP	1.8K 5% 1/10W	RV404	1-230-868-11	RES. ADJ. METAL 2.2K	
R834	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	RV405	1-230-866-11	RES. ADJ. METAL 470	
R835	1-216-049-00	METAL CHIP	1K 5% 1/10W	RV501	1-230-870-11	RES. ADJ. METAL 10K	
R836	1-218-295-00	METAL CHIP	0 5% 1/10W	RV502	1-230-870-11	RES. ADJ. METAL 10K	
R837	1-216-073-00	METAL CHIP	10K 5% 1/10W	RV503	1-230-876-11	RES. ADJ. METAL 470K	
R838	1-216-105-00	METAL CHIP	220K 5% 1/10W	RV601	1-230-871-11	RES. ADJ. METAL 22K	
R839	1-216-748-11	METAL CHIP	39K 5% 1/10W	RV602	1-230-870-11	RES. ADJ. METAL 10K	
R852	1-216-075-00	METAL CHIP	12K 5% 1/10W	RV701	1-230-866-11	RES. ADJ. METAL 470	
R853	1-216-055-00	METAL CHIP	1.8K 5% 1/10W	RV702	1-230-866-11	RES. ADJ. METAL 470	
R854	1-216-041-00	METAL CHIP	470 5% 1/10W	RV801	1-230-866-11	RES. ADJ. METAL 470	
R856	1-216-839-11	METAL CHIP	330 0.5% 1/10W	RV802	1-230-866-11	RES. ADJ. METAL 470	
R857	1-216-639-11	METAL CHIP	330 0.5% 1/10W			(COIL)	
R858	1-216-038-00	METAL CHIP	360 5% 1/10W	T101	1-409-456-21	TRAP	
R859	1-216-081-00	METAL CHIP	22K 5% 1/10W	T501	1-235-397-11	PS C B/F	
R860	1-216-081-00	METAL CHIP	22K 5% 1/10W	T601	1-409-396-11	REC C TRAP	
R861	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	T602	1-409-396-11	C E TRAP	
R862	1-216-087-00	METAL CHIP	5.1K 5% 1/10W			(CRYSTAL)	
R901	1-216-047-00	METAL CHIP	820 5% 1/10W	X501	1-567-303-11	RESONATOR, CERAMIC (10.7MHz)	
R902	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	X601	1-567-505-11	OSCILLATOR, CRYSTAL (3.58MHz)	
R903	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	X802	1-567-735-11	CRYSTAL (5.9MHz)	
R904	1-216-081-00	METAL CHIP	22K 5% 1/10W				
R905	1-216-055-00	METAL CHIP	1.8K 5% 1/10W				
R907	1-216-041-00	METAL CHIP	470 5% 1/10W				
R910	1-216-089-00	METAL CHIP	47K 5% 1/10W				
R911	1-216-089-00	METAL CHIP	47K 5% 1/10W				
R912	1-216-089-00	METAL CHIP	47K 5% 1/10W				
R913	1-216-089-00	METAL CHIP	47K 5% 1/10W				
R914	1-216-089-00	METAL CHIP	47K 5% 1/10W				
		(VARIABLE RESISTOR)					
RV101	1-230-870-11	RES. ADJ. METAL 10K					
RV201	1-230-868-11	RES. ADJ. METAL 2.2K					
RV202	1-230-867-11	RES. ADJ. METAL 1K					
RV299	1-230-873-11	RES. ADJ. METAL 47K					
RV300	1-230-868-11	RES. ADJ. METAL 2.2K					
RV302	1-230-870-11	RES. ADJ. METAL 10K					
RV303	1-230-870-11	RES. ADJ. METAL 10K					
RV304	1-230-870-11	RES. ADJ. METAL 10K					
RV305	1-230-875-21	RES. ADJ. METAL 220K					
RV401	1-230-873-11	RES. ADJ. METAL 47K					
		(CAPACITOR)					
C001	1-124-234-00	ELECT	22uF 20% 16V				
C002	1-163-125-00	CERAMIC CHIP	220PF 5% 50V				
C003	1-124-234-00	ELECT	22uF 20% 16V				
C004	1-124-234-00	ELECT	22uF 20% 16V				
C007	1-124-234-00	ELECT	22uF 20% 16V				
C008	1-124-584-00	ELECT	100uF 20% 10V				
C010	1-124-584-00	ELECT	100uF 20% 10V				
C011	1-124-584-00	ELECT	100uF 20% 10V				
C012	1-124-584-00	ELECT	100uF 20% 10V				
C013	1-124-584-00	ELECT	100uF 20% 10V				

* A-7082-009-A IF-20 BOARD, COMPLETE

* 1-523-189-11 HOLDER, FUSE

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C014	1-124-234-00	ELECT	22uF	20K	16V		
C015	1-124-234-00	ELECT	22uF	20K	16V		
C016	1-124-234-00	ELECT	22uF	20K	16V		
C017	1-124-504-00	ELECT	100uF	20K	10V		
C018	1-124-234-00	ELECT	22uF	20K	16V		
C021	1-124-504-00	ELECT	100uF	20K	10V		
C022	1-124-234-00	ELECT	22uF	20K	16V		
C023	1-126-162-11	ELECT	3.3uF	20K	50V		
C051	1-124-234-00	ELECT	22uF	20K	16V		
C052	1-163-125-00	CERAMIC CHIP	220PF	5K	50V		
C053	1-124-234-00	ELECT	22uF	20K	16V		
C054	1-124-234-00	ELECT	22uF	20K	16V		
C057	1-124-234-00	ELECT	22uF	20K	16V		
C059	1-124-504-00	ELECT	100uF	20K	10V		
C060	1-124-504-00	ELECT	100uF	20K	10V		
C061	1-124-504-00	ELECT	100uF	20K	10V		
C062	1-124-504-00	ELECT	100uF	20K	10V		
C063	1-124-504-00	ELECT	100uF	20K	10V		
C064	1-124-234-00	ELECT	22uF	20K	16V		
C065	1-124-234-00	ELECT	22uF	20K	16V		
C066	1-124-234-00	ELECT	22uF	20K	16V		
C067	1-124-234-00	ELECT	22uF	20K	16V		
C081	1-124-504-00	ELECT	100uF	20K	10V		
C082	1-124-234-00	ELECT	22uF	20K	16V		
C083	1-126-162-11	ELECT	3.3uF	20K	50V		
C155	1-163-035-00	CERAMIC CHIP	0.047uF		50V		
C166	1-163-035-00	CERAMIC CHIP	0.047uF		50V		
C167	1-126-162-11	ELECT	3.3uF	20K	50V		
C168	1-124-234-00	ELECT	22uF	20K	16V		
C170	1-124-472-11	ELECT	470uF	20K	10V		
C171	1-124-504-00	ELECT	100uF	20K	10V		
C172	1-164-161-11	CERAMIC CHIP	0.0022uF	10K	100V		
C173	1-164-161-11	CERAMIC CHIP	0.0022uF	10K	100V		
C201	1-126-154-11	ELECT	47uF	20K	6.3V		
C202	1-163-809-11	CERAMIC CHIP	0.047uF	10K	25V		
C203	1-126-167-11	ELECT	10uF	20K	16V		
C204	1-164-232-11	CERAMIC CHIP	0.01uF		50V		
C205	1-164-232-11	CERAMIC CHIP	0.01uF		50V		
C206	1-124-504-00	ELECT	100uF	20K	10V		
C207	1-126-153-11	ELECT	22uF	20K	6.3V		
C208	1-126-369-11	ELECT	22uF	20K	6.3V		
C209	1-163-106-00	CERAMIC CHIP	36PF	5K	50V		
C210	1-163-107-00	CERAMIC CHIP	36PF	5K	50V		
C211	1-163-111-00	CERAMIC CHIP	56PF	5K	50V		
C212	1-126-153-11	ELECT	22uF	20K	6.3V		
C213	1-164-232-11	CERAMIC CHIP	0.01uF		50V		
C214	1-163-120-00	CERAMIC CHIP	330PF	5K	50V		
C215	1-163-115-00	CERAMIC CHIP	82PF	5K	50V		
C216	1-163-115-00	CERAMIC CHIP	82PF	5K	50V		
C217	1-126-154-11	ELECT	47uF	20K	6.3V		
C219	1-126-154-11	ELECT	47uF	20K	6.3V		
C220	1-164-232-11	CERAMIC CHIP	0.01uF		50V		
C221	1-126-153-11	ELECT	22uF	20K	6.3V		
C222	1-164-232-11	CERAMIC CHIP	0.01uF		50V		
C223	1-126-153-11	ELECT	22uF	20K	6.3V		
C224	1-163-125-00	CERAMIC CHIP	220PF	5K	50V		
C225	1-164-232-11	CERAMIC CHIP	0.01uF		50V		
C226	1-126-153-11	ELECT	22uF	20K	6.3V		
C227	1-163-809-11	CERAMIC CHIP	0.047uF	10K	25V		
C228	1-163-809-11	CERAMIC CHIP	0.047uF	10K	25V		
C229	1-163-809-11	CERAMIC CHIP	0.047uF	10K	25V		
C230	1-164-633-11	CERAMIC CHIP	0.1uF	10K	25V		
C231	1-163-105-00	CERAMIC CHIP	33PF	5K	50V		
C232	1-163-105-00	CERAMIC CHIP	33PF	5K	50V		
C233	1-163-809-11	CERAMIC CHIP	0.047uF	10K	25V		
C234	1-126-153-11	ELECT	22uF	20K	6.3V		
C235	1-163-809-11	CERAMIC CHIP	0.047uF	10K	25V		
C236	1-163-097-00	CERAMIC CHIP	15PF	5K	50V		
C237	1-164-232-11	CERAMIC CHIP	0.01uF		50V		
C238	1-164-232-11	CERAMIC CHIP	0.01uF		50V		
C240	1-126-163-11	ELECT	4.7uF	20K	50V		
C241	1-163-117-00	CERAMIC CHIP	100PF	5K	50V		
C242	1-163-809-11	CERAMIC CHIP	0.047uF	10K	25V		
C243	1-164-232-11	CERAMIC CHIP	0.01uF		50V		
C244	1-164-232-11	CERAMIC CHIP	0.01uF		50V		
C245	1-164-232-11	CERAMIC CHIP	0.01uF		50V		
C246	1-163-809-11	CERAMIC CHIP	0.047uF	10K	25V		
C247	1-163-809-11	CERAMIC CHIP	0.047uF	10K	25V		
C248	1-126-154-11	ELECT	47uF	20K	6.3V		
C249	1-163-809-11	CERAMIC CHIP	0.047uF	10K	25V		
C250	1-126-163-11	ELECT	4.7uF	20K	50V		
C251	1-163-118-00	CERAMIC CHIP	120PF	5K	50V		
C252	1-163-809-11	CERAMIC CHIP	0.047uF	10K	25V		
C253	1-164-232-11	CERAMIC CHIP	0.01uF		50V		

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R684	1-216-075-00	METAL CHIP	12K 5X 1/10W	R540	1-216-295-00	METAL CHIP	0 5X 1/10W
R485	1-216-295-00	METAL CHIP	0 5X 1/10W	R601	1-216-295-00	METAL CHIP	0 5X 1/10W
R488	1-216-295-00	METAL CHIP	0 5X 1/10W	R602	1-216-013-00	METAL CHIP	10K 5X 1/10W
R501	1-216-137-11	METAL GLAZE	1K 1X 1/10W	R603	1-216-635-11	METAL CHIP	220 0.5X 1/10W
R502	1-216-155-11	METAL GLAZE	3.9K 1X 1/10W	R604	1-216-073-00	METAL CHIP	10K 5X 1/10W
R503	1-216-737-11	METAL GLAZE	1K 1X 1/10W	R605	1-216-723-11	METAL GLAZE	5.6K 1X 1/10W
R504	1-216-596-11	METAL GLAZE	2.7K 1X 1/10W	R606	1-216-334-11	METAL GLAZE	22K 1X 1/10W
R525	1-216-150-11	METAL GLAZE	1.2K 1X 1/10W	R607	1-218-132-11	METAL GLAZE	4.7K 1X 1/10W
R506	1-216-057-00	METAL CHIP	2.2K 5X 1/10W	R608	1-216-103-00	METAL CHIP	180K 5X 1/10W
R507	1-216-065-00	METAL CHIP	4.7K 5X 1/10W	R610	1-216-295-00	METAL CHIP	0 5X 1/10W
R508	1-216-085-00	METAL CHIP	33K 5X 1/10W	R612	1-216-073-00	METAL CHIP	10K 5X 1/10W
R509	1-216-077-00	METAL CHIP	15K 5X 1/10W	R613	1-218-152-11	METAL GLAZE	1.5K 1X 1/10W
R510	1-218-132-11	METAL GLAZE	4.7K 1X 1/10W	R614	1-218-132-11	METAL GLAZE	4.7K 1X 1/10W
R511	1-216-647-11	METAL CHIP	560 0.5X 1/10W	R615	1-216-542-11	METAL CHIP	12K 1X 1/10W
R512	1-218-132-11	METAL GLAZE	4.7K 1X 1/10W	R616	1-216-051-00	METAL CHIP	3.3K 5X 1/10W
R513	1-218-144-11	METAL GLAZE	560 1X 1/10W	R617	1-216-065-00	METAL CHIP	4.7K 5X 1/10W
R514	1-216-542-11	METAL CHIP	12K 1X 1/10W	R619	1-216-049-00	METAL CHIP	1K 5X 1/10W
R515	1-216-097-00	METAL CHIP	100K 5X 1/10W	R620	1-216-051-00	METAL CHIP	1.2K 5X 1/10W
R516	1-216-518-00	METAL GLAZE	2.2K 1X 1/10W	R621	1-216-061-00	METAL CHIP	22K 5X 1/10W
R517	1-218-140-11	METAL GLAZE	390 1X 1/10W	R622	1-216-097-00	METAL CHIP	100K 5X 1/10W
R519	1-216-295-00	METAL CHIP	0 5X 1/10W	R623	1-216-295-00	METAL CHIP	0 5X 1/10W
R520	1-216-035-00	METAL CHIP	270 5X 1/10W	R624	1-216-073-00	METAL CHIP	10K 5X 1/10W
R521	1-216-073-00	METAL CHIP	10K 5X 1/10W	R625	1-216-063-00	METAL CHIP	3.9K 5X 1/10W
R522	1-216-748-11	METAL CHIP	39K 5X 1/10W	R626	1-216-295-00	METAL CHIP	0 5X 1/10W
R523	1-216-121-00	METAL CHIP	1M 5X 1/10W	R627	1-216-051-00	METAL CHIP	22K 5X 1/10W
R524	1-216-117-00	METAL CHIP	680K 5X 1/10W	R628	1-216-058-00	METAL CHIP	22K 5X 1/10W
R525	1-216-075-00	METAL CHIP	12K 5X 1/10W	R629	1-218-132-11	METAL GLAZE	4.7K 1X 1/10W
R526	1-216-084-00	METAL CHIP	22K 5X 1/10W	R630	1-218-155-11	METAL GLAZE	3.9K 1X 1/10W
R527	1-216-075-00	METAL CHIP	12K 5X 1/10W	R631	1-216-596-11	METAL GLAZE	2.7K 1X 1/10W
R528	1-216-083-00	METAL CHIP	27K 5X 1/10W	R632	1-218-144-11	METAL GLAZE	560 1X 1/10W
R529	1-216-083-00	METAL CHIP	22K 5X 1/10W	R633	1-216-518-00	METAL GLAZE	2.2K 1X 1/10W
R530	1-216-634-11	METAL CHIP	150 0.5X 1/10W	R634	1-216-085-00	METAL CHIP	33K 5X 1/10W
R531	1-216-629-11	METAL CHIP	120 0.5X 1/10W	R635	1-216-085-00	METAL CHIP	33K 5X 1/10W
R532	1-216-617-11	METAL CHIP	39 1X 1/10W	R636	1-216-049-00	METAL CHIP	3K 5X 1/10W
R533	1-216-083-00	METAL CHIP	27K 5X 1/10W	R637	1-216-051-00	METAL CHIP	22K 5X 1/10W
R534	1-216-049-00	METAL CHIP	1K 5X 1/10W	R638	1-216-055-00	METAL CHIP	33K 5X 1/10W
R535	1-216-641-11	METAL CHIP	390 0.5X 1/10W	R639	1-216-057-00	METAL CHIP	2.2K 5X 1/10W
R536	1-216-633-11	METAL CHIP	180 0.5X 1/10W	R640	1-216-737-11	METAL GLAZE	1K 1X 1/10W
R537	1-216-645-11	METAL CHIP	560 0.5X 1/10W	R641	1-216-737-11	METAL GLAZE	1K 1X 1/10W
R538	1-216-083-00	METAL CHIP	27K 5X 1/10W	R642	1-216-057-00	METAL CHIP	2.2K 5X 1/10W
R539	1-216-081-00	METAL CHIP	22K 5X 1/10W	R644	1-216-073-00	METAL CHIP	10K 5X 1/10W
				R645	1-216-073-00	METAL CHIP	10K 5X 1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark		
R646	1-216-097-00	METAL CHIP	100K 5%	1/10W	R724	1-216-057-00	METAL CHIP	2.2K 5%	1/10W
R647	1-216-085-00	METAL CHIP	33K 5%	1/10W					
R648	1-216-065-00	METAL CHIP	4.7K 5%	1/10W	R725	1-216-089-00	METAL CHIP	47K 5%	1/10W
R649	1-216-079-00	METAL CHIP	18K 5%	1/10W	R726	1-216-025-00	METAL CHIP	100 5%	1/10W
R650	1-216-061-00	METAL CHIP	3.3K 5%	1/10W	R727	1-216-041-00	METAL CHIP	470 5%	1/10W
R651	1-216-061-00	METAL CHIP	3.3K 5%	1/10W	R728	1-216-039-00	METAL CHIP	390 5%	1/10W
R652	1-216-065-00	METAL CHIP	4.7K 5%	1/10W	R729	1-216-295-00	METAL CHIP	0 5%	1/10W
R653	1-216-061-00	METAL CHIP	3.3K 5%	1/10W	R730	1-216-049-00	METAL CHIP	1K 5%	1/10W
R654	1-216-061-00	METAL CHIP	3.3K 5%	1/10W	R731	1-216-047-00	METAL CHIP	820 5%	1/10W
R655	1-216-049-00	METAL CHIP	1K 5%	1/10W	R732	1-216-055-00	METAL CHIP	1.8K 5%	1/10W
R656	1-216-049-00	METAL CHIP	1K 5%	1/10W	R733	1-216-057-00	METAL CHIP	2.2K 5%	1/10W
R657	1-216-085-00	METAL CHIP	33K 5%	1/10W	R734	1-216-049-00	METAL CHIP	1K 5%	1/10W
R658	1-216-039-00	METAL CHIP	390 5%	1/10W	R735	1-216-295-00	METAL CHIP	0 5%	1/10W
R659	1-216-121-00	METAL CHIP	1M 5%	1/10W	R736	1-216-049-00	METAL CHIP	1K 5%	1/10W
R660	1-216-115-00	METAL CHIP	560K 5%	1/10W	R801	1-216-073-00	METAL CHIP	10K 5%	1/10W
R661	1-216-061-00	METAL CHIP	22K 5%	1/10W	R802	1-216-105-00	METAL CHIP	220K 5%	1/10W
R662	1-216-542-11	METAL CHIP	12K 1%	1/10W	R803	1-216-031-60	METAL CHIP	22K 5%	1/10W
R663	1-216-132-11	METAL GLAZE	4.7K 1%	1/10W	R804	1-216-737-11	METAL GLAZE	1K 1%	1/10W
R664	1-216-152-11	METAL GLAZE	1.5K 1%	1/10W	R805	1-216-081-00	METAL CHIP	27K 5%	1/10W
R701	1-216-073-00	METAL CHIP	10K 5%	1/10W	R806	1-216-737-11	METAL GLAZE	1K 1%	1/10W
R702	1-216-105-00	METAL CHIP	220K 5%	1/10W	R807	1-216-081-00	METAL CHIP	27K 5%	1/10W
R703	1-216-129-00	METAL CHIP	2.2K 5%	1/10W	R808	1-216-073-00	METAL CHIP	10K 5%	1/10W
R704	1-216-737-11	METAL GLAZE	1K 1%	1/10W	R809	1-216-105-00	METAL CHIP	220K 5%	1/10W
R705	1-216-129-00	METAL CHIP	2.2K 5%	1/10W	R810	1-216-089-00	METAL CHIP	47K 5%	1/10W
R706	1-216-737-11	METAL GLAZE	1K 1%	1/10W	R811	1-216-829-11	METAL CHIP	120 0.5%	1/10W
R707	1-216-113-00	METAL CHIP	470K 5%	1/10W	R812	1-216-737-11	METAL GLAZE	1K 1%	1/10W
R708	1-216-105-00	METAL CHIP	220K 5%	1/10W	R813	1-216-132-11	METAL GLAZE	4.7K 1%	1/10W
R709	1-216-089-00	METAL CHIP	47K 5%	1/10W	R814	1-216-324-11	METAL GLAZE	10K 1%	1/10W
R710	1-216-105-00	METAL CHIP	220K 5%	1/10W	R815	1-216-039-00	METAL CHIP	390 5%	1/10W
R711	1-216-829-11	METAL CHIP	120 0.5%	1/10W	R816	1-216-029-00	METAL CHIP	150 5%	1/10W
R712	1-216-737-11	METAL GLAZE	1K 1%	1/10W	R817	1-216-039-00	METAL CHIP	390 5%	1/10W
R713	1-216-132-11	METAL GLAZE	4.7K 1%	1/10W	R818	1-216-042-00	METAL CHIP	510 5%	1/10W
R714	1-216-324-11	METAL GLAZE	10K 1%	1/10W	R819	1-216-071-00	METAL CHIP	8.2K 5%	1/10W
R715	1-216-039-00	METAL CHIP	390 5%	1/10W	R820	1-216-079-00	METAL CHIP	18K 5%	1/10W
R716	1-216-033-00	METAL CHIP	220 5%	1/10W	R821	1-216-055-00	METAL CHIP	1.8K 5%	1/10W
R717	1-216-039-00	METAL CHIP	390 5%	1/10W	R822	1-216-119-00	METAL CHIP	820K 5%	1/10W
R718	1-216-039-00	METAL CHIP	390 5%	1/10W	R823	1-216-121-00	METAL CHIP	1M 5%	1/10W
R719	1-216-071-00	METAL CHIP	8.2K 5%	1/10W	R824	1-216-073-00	METAL CHIP	10K 5%	1/10W
R720	1-216-079-00	METAL CHIP	18K 5%	1/10W	R825	1-216-057-00	METAL CHIP	2.2K 5%	1/10W
R721	1-216-055-00	METAL CHIP	1.8K 5%	1/10W	R827	1-216-025-00	METAL CHIP	100 5%	1/10W
R722	1-216-121-00	METAL CHIP	1M 5%	1/10W	R828	1-216-041-00	METAL CHIP	470 5%	1/10W
R723	1-216-073-00	METAL CHIP	10K 5%	1/10W	R829	1-216-025-00	METAL CHIP	100 5%	1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark		
R240	1-216-089-00	METAL CHIP	47K 5%	1/100	R334	1-216-073-00	METAL CHIP	10K 5%	1/100
R241	1-216-041-00	METAL CHIP	470 5%	1/100	R335	1-216-073-00	METAL CHIP	10K 5%	1/100
R242	1-216-295-00	METAL CHIP	0 5%	1/100	R336	1-216-057-00	METAL CHIP	2.2K 5%	1/100
R243	1-216-041-00	METAL CHIP	470 5%	1/100	R337	1-216-073-00	METAL CHIP	10K 5%	1/100
R244	1-216-085-00	METAL CHIP	4.7K 5%	1/100	R338	1-216-073-00	METAL CHIP	10K 5%	1/100
R245	1-216-043-00	METAL CHIP	560 5%	1/100	R339	1-216-057-00	METAL CHIP	2.2K 5%	1/100
R247	1-216-041-00	METAL CHIP	470 5%	1/100	R340	1-218-150-11	METAL GLAZE	1.2K 1%	1/100
R251	1-216-043-00	METAL CHIP	560 5%	1/100	R341	1-218-140-11	METAL GLAZE	390 1%	1/100
R252	1-216-033-00	METAL CHIP	220 5%	1/100	R342	1-216-049-00	METAL CHIP	1K 5%	1/100
R253	1-216-041-00	METAL CHIP	470 5%	1/100	R343	1-216-049-00	METAL CHIP	1K 5%	1/100
R257	1-216-091-00	METAL CHIP	22K 5%	1/100	R344	1-216-099-00	METAL CHIP	120K 5%	1/100
R298	1-216-085-00	METAL CHIP	33K 5%	1/100	R345	1-216-113-00	METAL CHIP	470K 5%	1/100
R299	1-216-602-11	METAL GLAZE	6.8K 1%	1/100	R346	1-216-075-00	METAL CHIP	12K 5%	1/100
R301	1-216-049-00	METAL CHIP	1K 5%	1/100	R347	1-216-039-00	METAL CHIP	22K 5%	1/100
R302	1-216-737-11	METAL GLAZE	1K 1%	1/100	R348	1-216-077-00	METAL CHIP	15K 5%	1/100
R303	1-216-518-00	METAL GLAZE	2.2K 1%	1/100	R349	1-216-085-00	METAL CHIP	33K 5%	1/100
R304	1-218-156-11	METAL GLAZE	8.2K 1%	1/100	R350	1-216-055-00	METAL CHIP	1.8K 5%	1/100
R305	1-216-642-11	METAL CHIP	12K 1%	1/100	R351	1-216-077-00	METAL CHIP	15K 5%	1/100
R306	1-216-049-00	METAL CHIP	1K 5%	1/100	R353	1-216-097-00	METAL CHIP	100K 5%	1/100
R307	1-216-049-00	METAL CHIP	1K 5%	1/100	R354	1-216-109-00	METAL CHIP	330K 5%	1/100
R308	1-216-295-00	METAL CHIP	0 5%	1/100	R355	1-216-049-00	METAL CHIP	1K 5%	1/100
R309	1-216-295-00	METAL CHIP	0 5%	1/100	R356	1-216-081-00	METAL CHIP	22K 5%	1/100
R310	1-216-033-00	METAL CHIP	220 5%	1/100	R357	1-216-081-00	METAL CHIP	22K 5%	1/100
R311	1-216-033-00	METAL CHIP	220 5%	1/100	R358	1-216-296-00	METAL CHIP	0 5%	1/100
R313	1-216-034-00	METAL CHIP	240 5%	1/100	R359	1-216-049-00	METAL CHIP	1K 5%	1/100
R314	1-216-043-00	METAL CHIP	560 5%	1/100	R360	1-216-097-00	METAL CHIP	100K 5%	1/100
R315	1-216-057-00	METAL CHIP	2.2K 5%	1/100	R362	1-216-093-00	METAL CHIP	68K 5%	1/100
R316	1-216-075-00	METAL CHIP	12K 5%	1/100	R363	1-216-073-00	METAL CHIP	10K 5%	1/100
R317	1-216-071-00	METAL CHIP	8.2K 5%	1/100	R364	1-216-097-00	METAL CHIP	100K 5%	1/100
R318	1-216-033-00	METAL CHIP	220 5%	1/100	R365	1-218-132-11	METAL GLAZE	4.7K 1%	1/100
R320	1-216-033-00	METAL CHIP	220 5%	1/100	R366	1-216-089-00	METAL CHIP	47K 5%	1/100
R321	1-216-032-00	METAL CHIP	200 5%	1/100	R367	1-216-091-00	METAL CHIP	56K 5%	1/100
R323	1-218-142-11	METAL GLAZE	470 1%	1/100	R368	1-216-081-00	METAL CHIP	22K 5%	1/100
R324	1-216-073-00	METAL CHIP	10K 5%	1/100	R369	1-216-077-00	METAL CHIP	15K 5%	1/100
R325	1-216-073-00	METAL CHIP	10K 5%	1/100	R370	1-216-081-00	METAL CHIP	22K 5%	1/100
R326	1-216-033-00	METAL CHIP	220 5%	1/100	R371	1-216-296-00	METAL CHIP	0 5%	1/100
R327	1-216-033-00	METAL CHIP	220 5%	1/100	R373	1-216-101-00	METAL CHIP	150K 5%	1/100
R329	1-218-150-11	METAL GLAZE	1.2K 1%	1/100	R374	1-216-049-00	METAL CHIP	1K 5%	1/100
R330	1-216-045-00	METAL CHIP	680 5%	1/100	R376	1-216-057-00	METAL CHIP	2.2K 5%	1/100
R331	1-216-043-00	METAL CHIP	560 5%	1/100	R379	1-216-043-00	METAL CHIP	560 5%	1/100
R332	1-218-144-11	METAL GLAZE	560 1%	1/100	R380	1-216-033-00	METAL CHIP	220 5%	1/100
R333	1-216-623-11	METAL CHIP	68 0.5%	1/100					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R381	1-216-295-00	METAL CHIP	0 5% 1/10R	R441	1-216-064-00	METAL CHIP	4.3K 5% 1/10R
R382	1-216-295-00	METAL CHIP	0 5% 1/10R	R442	1-216-065-00	METAL CHIP	4.7K 5% 1/10R
R383	1-216-295-00	METAL CHIP	0 5% 1/10R	R443	1-216-075-00	METAL CHIP	12K 5% 1/10R
R401	1-216-737-11	METAL GLAZE	1K 1% 1/10R	R444	1-216-071-00	METAL CHIP	8.2K 5% 1/10R
R402	1-216-334-11	METAL GLAZE	22K 1% 1/10R	R445	1-216-295-00	METAL CHIP	0 5% 1/10R
R403	1-216-132-11	METAL GLAZE	4.7K 1% 1/10R	R446	1-216-155-11	METAL GLAZE	3.9K 1% 1/10R
R404	1-216-654-11	METAL CHIP	1.3K 0.5% 1/10R	R447	1-216-333-11	METAL CHIP	15K 1% 1/10R
R405	1-216-057-00	METAL CHIP	2.2K 5% 1/10R	R448	1-216-057-00	METAL CHIP	2.2K 5% 1/10R
R406	1-216-033-00	METAL CHIP	220 5% 1/10R	R449	1-216-077-00	METAL CHIP	15K 5% 1/10R
R407	1-216-033-00	METAL CHIP	220 5% 1/10R	R450	1-216-081-00	METAL CHIP	22K 5% 1/10R
R408	1-216-295-00	METAL CHIP	0 5% 1/10R	R451	1-216-041-00	METAL CHIP	470 5% 1/10R
R409	1-216-653-11	METAL CHIP	1.2K 0.5% 1/10R	R452	1-216-041-00	METAL CHIP	470 5% 1/10R
R411	1-216-037-00	METAL CHIP	330 5% 1/10R	R453	1-216-057-00	METAL CHIP	2.2K 5% 1/10R
R412	1-216-073-00	METAL CHIP	10K 5% 1/10R	R454	1-216-061-00	METAL CHIP	3.3K 5% 1/10R
R413	1-216-111-00	METAL CHIP	350K 5% 1/10R	R455	1-216-150-11	METAL GLAZE	1.2K 1% 1/10R
R414	1-216-061-00	METAL CHIP	22K 5% 1/10R	R456	1-216-083-00	METAL CHIP	27K 5% 1/10R
R415	1-216-097-00	METAL CHIP	100K 5% 1/10R	R457	1-216-084-00	METAL CHIP	22K 5% 1/10R
R416	1-216-077-00	METAL CHIP	15K 5% 1/10R	R458	1-216-047-00	METAL CHIP	520 5% 1/10R
R417	1-216-069-00	METAL CHIP	6.9K 5% 1/10R	R459	1-216-039-00	METAL CHIP	390 5% 1/10R
R418	1-216-041-00	METAL CHIP	470 5% 1/10R	R460	1-216-033-00	METAL CHIP	220 5% 1/10R
R419	1-216-061-00	METAL CHIP	2.2K 5% 1/10R	R462	1-216-049-00	METAL CHIP	1K 5% 1/10R
R420	1-216-057-00	METAL CHIP	2.2K 5% 1/10R	R463	1-216-073-00	METAL CHIP	10K 5% 1/10R
R421	1-216-061-00	METAL CHIP	3.3K 5% 1/10R	R464	1-216-089-00	METAL CHIP	47K 5% 1/10R
R422	1-216-051-00	METAL CHIP	1.2K 5% 1/10R	R465	1-216-089-00	METAL CHIP	47K 5% 1/10R
R423	1-216-049-00	METAL CHIP	1K 5% 1/10R	R466	1-216-142-11	METAL GLAZE	470 1% 1/10R
R424	1-216-059-00	METAL CHIP	2.2K 5% 1/10R	R467	1-216-140-11	METAL GLAZE	390 1% 1/10R
R425	1-216-049-00	METAL CHIP	1K 5% 1/10R	R468	1-216-089-00	METAL CHIP	47K 5% 1/10R
R426	1-216-053-00	METAL CHIP	1.5K 5% 1/10R	R469	1-216-089-00	METAL CHIP	47K 5% 1/10R
R427	1-216-045-00	METAL CHIP	690 5% 1/10R	R470	1-216-073-00	METAL CHIP	10K 5% 1/10R
R428	1-216-748-11	METAL CHIP	39K 5% 1/10R	R471	1-216-057-00	METAL CHIP	2.2K 5% 1/10R
R429	1-216-081-00	METAL CHIP	22K 5% 1/10R	R472	1-216-041-00	METAL CHIP	470 5% 1/10R
R430	1-216-095-00	METAL CHIP	1.8K 5% 1/10R	R473	1-216-049-00	METAL CHIP	1K 5% 1/10R
R431	1-216-065-00	METAL CHIP	4.7K 5% 1/10R	R474	1-216-049-00	METAL CHIP	1K 5% 1/10R
R432	1-216-081-00	METAL CHIP	22K 5% 1/10R	R475	1-216-058-00	METAL GLAZE	2.4K 5% 1/10R
R433	1-216-097-00	METAL CHIP	100K 5% 1/10R	R476	1-216-065-00	METAL CHIP	4.7K 5% 1/10R
R434	1-216-097-00	METAL CHIP	2.2K 5% 1/10R	R477	1-216-041-00	METAL CHIP	470 5% 1/10R
R435	1-216-101-00	METAL CHIP	150K 5% 1/10R	R478	1-216-063-00	METAL CHIP	3.9K 5% 1/10R
R436	1-216-061-00	METAL CHIP	3.3K 5% 1/10R	R479	1-216-048-00	METAL CHIP	1K 5% 1/10R
R437	1-216-132-11	METAL GLAZE	4.7K 1% 1/10R	R480	1-216-085-00	METAL CHIP	33K 5% 1/10R
R438	1-216-737-11	METAL GLAZE	1K 1% 1/10R	R481	1-216-071-00	METAL CHIP	8.2K 5% 1/10R
R439	1-216-064-00	METAL CHIP	4.3K 5% 1/10R	R482	1-216-073-00	METAL CHIP	10K 5% 1/10R
R440	1-216-870-11	METAL CHIP	180K 1% 1/10R	R483	1-216-082-00	METAL GLAZE	24K 5% 1/10R

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
0426	8-729-100-86	TRANSISTOR 2SC1623		Q004	8-729-100-86	TRANSISTOR 2SC1623	
0427	8-729-320-17	TRANSISTOR 2SA1122CD				(RESISTOR)	
0428	8-729-320-17	TRANSISTOR 2SA1122CD					
0429	8-729-901-01	TRANSISTOR DTC144EK		R101	1-216-049-00	METAL CHIP 1K 5% 1/10W	
0430	8-729-901-01	TRANSISTOR DTC144EK		R102	1-216-029-00	METAL CHIP 150 5% 1/10W	
0431	8-729-320-17	TRANSISTOR 2SA1122CD		R103	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0501	8-729-901-06	TRANSISTOR DT144EK		R104	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0502	8-729-901-01	TRANSISTOR DTC144EK		R105	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
0503	8-729-901-00	TRANSISTOR DTC124EK		R106	1-216-041-00	METAL CHIP 470 5% 1/10W	
0601	8-729-901-01	TRANSISTOR DTC144EK		R107	1-216-035-00	METAL CHIP 270 5% 1/10W	
0603	8-729-901-01	TRANSISTOR DTC144EK		R108	1-216-043-00	METAL CHIP 560 5% 1/10W	
0604	8-729-100-86	TRANSISTOR 2SC1623		R109	1-216-061-00	METAL CHIP 22K 5% 1/10W	
0605	8-729-100-86	TRANSISTOR 2SC1623		R110	1-216-061-00	METAL CHIP 22K 5% 1/10W	
0606	8-729-901-01	TRANSISTOR DTC144EK		R111	1-216-045-00	METAL CHIP 680 5% 1/10W	
0607	8-729-100-86	TRANSISTOR 2SC1623		R112	1-216-041-00	METAL CHIP 470 5% 1/10W	
0508	8-729-320-17	TRANSISTOR 2SA1122CD		R113	1-216-041-00	METAL CHIP 470 5% 1/10W	
0701	8-729-901-01	TRANSISTOR DTC144EK		R115	1-216-043-00	METAL CHIP 560 5% 1/10W	
0702	8-729-216-22	TRANSISTOR 2SA1162		R116	1-216-033-00	METAL CHIP 220 5% 1/10W	
0703	8-729-216-22	TRANSISTOR 2SA1162		R117	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
0704	8-729-216-22	TRANSISTOR 2SA1162		R119	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0705	8-729-320-17	TRANSISTOR 2SA1122CD		R120	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0706	8-729-901-01	TRANSISTOR DTC144EK		R121	1-216-093-00	METAL CHIP 68K 5% 1/10W	
0707	8-729-901-01	TRANSISTOR DTC144EK		R122	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0708	8-729-216-22	TRANSISTOR 2SA1162		R124	1-216-049-00	METAL CHIP 1K 5% 1/10W	
0709	8-729-216-22	TRANSISTOR 2SA1162		R125	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0710	8-729-320-17	TRANSISTOR 2SA1122CD		R126	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0801	8-729-901-01	TRANSISTOR DTC144EK		R127	1-216-049-00	METAL CHIP 1K 5% 1/10W	
0802	8-729-320-17	TRANSISTOR 2SA1122CD		R128	1-216-041-00	METAL CHIP 470 5% 1/10W	
0803	8-729-216-22	TRANSISTOR 2SA1162		R130	1-216-033-00	METAL CHIP 220 5% 1/10W	
0804	8-729-216-22	TRANSISTOR 2SA1162		R131	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
0805	8-729-216-22	TRANSISTOR 2SA1162		R132	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0806	8-729-320-17	TRANSISTOR 2SA1122CD		R133	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
0807	8-729-901-01	TRANSISTOR DTC144EK		R137	1-216-033-00	METAL CHIP 220 5% 1/10W	
0808	8-729-216-22	TRANSISTOR 2SA1162		R138	1-216-295-00	METAL CHIP 0 5% 1/10W	
0809	8-729-216-22	TRANSISTOR 2SA1162		R140	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
0810	8-729-320-17	TRANSISTOR 2SA1122CD		R141	1-216-075-00	METAL CHIP 12K 5% 1/10W	
0811	8-729-901-01	TRANSISTOR DTC144EK		R142	1-216-748-11	METAL CHIP 39K 5% 1/10W	
0851	8-729-100-86	TRANSISTOR 2SC1623		R143	1-216-049-00	METAL CHIP 1K 5% 1/10W	
0852	8-729-100-86	TRANSISTOR 2SC1623		R144	1-216-043-00	METAL CHIP 560 5% 1/10W	
0901	8-729-901-00	TRANSISTOR DTC124EK		R145	1-216-037-00	METAL CHIP 330 5% 1/10W	
0902	8-729-901-01	TRANSISTOR DTC144EK		R146	1-216-035-00	METAL CHIP 270 5% 1/10W	
0903	8-729-104-25	TRANSISTOR 2SB804-AV		R147	1-216-081-00	METAL CHIP 22K 5% 1/10W	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R148	1-216-081-00	METAL CHIP	22K 5X 1/10W	R192	1-216-037-00	METAL CHIP	330 5X 1/10W
R149	1-216-049-00	METAL CHIP	1K 5X 1/10W	R193	1-216-057-00	METAL CHIP	2.2K 5X 1/10W
R150	1-216-047-00	METAL CHIP	820 5X 1/10W	R194	1-216-295-00	METAL CHIP	0 5X 1/10W
R151	1-216-049-00	METAL CHIP	1K 5X 1/10W	R195	1-216-041-00	METAL CHIP	470 5X 1/10W
R153	1-216-073-00	METAL CHIP	10K 5X 1/10W	R196	1-216-649-11	METAL CHIP	820 0.5X 1/10A
R154	1-216-073-00	METAL CHIP	10K 5X 1/10W	R197	1-216-142-11	METAL GLAZE	470 1X 1/10W
R155	1-216-049-00	METAL CHIP	1K 5X 1/10W	R198	1-216-089-00	METAL CHIP	47K 5X 1/10W
R156	1-216-295-00	METAL CHIP	0 5X 1/10W	R199	1-216-089-00	METAL CHIP	47K 5X 1/10W
R157	1-216-069-00	METAL CHIP	6.8K 5X 1/10W	R201	1-216-073-00	METAL CHIP	30K 5X 1/10W
R158	1-216-083-00	METAL CHIP	27K 5X 1/10W	R202	1-216-089-00	METAL CHIP	47K 5X 1/10W
R159	1-216-025-00	METAL CHIP	100 5X 1/10W	R203	1-216-073-00	METAL CHIP	10K 5X 1/10W
R160	1-216-045-00	METAL CHIP	600 5X 1/10W	R204	1-216-089-00	METAL CHIP	47K 5X 1/10W
R161	1-216-295-00	METAL CHIP	0 5X 1/10W	R205	1-216-049-00	METAL CHIP	1K 5X 1/10W
R162	1-216-045-00	METAL CHIP	680 5X 1/10W	R206	1-216-043-00	METAL CHIP	560 5X 1/10W
R163	1-216-073-00	METAL CHIP	10K 5X 1/10W	R210	1-216-053-00	METAL CHIP	1 5X 1/10W
R164	1-216-073-00	METAL CHIP	10K 5X 1/10W	R211	1-216-049-00	METAL CHIP	1K 5X 1/10W
R165	1-216-069-00	METAL CHIP	6.8K 5X 1/10W	R212	1-216-071-00	METAL CHIP	8.2K 5X 1/10W
R166	1-216-061-00	METAL CHIP	3.3K 5X 1/10W	R215	1-216-049-00	METAL CHIP	1K 5X 1/10A
R167	1-216-041-00	METAL CHIP	470 5X 1/10W	R216	1-216-081-00	METAL CHIP	22K 5X 1/10W
R168	1-216-073-00	METAL CHIP	10K 5X 1/10W	R217	1-216-081-00	METAL CHIP	22K 5X 1/10W
R169	1-216-049-00	METAL CHIP	1K 5X 1/10W	R218	1-216-041-00	METAL CHIP	470 5X 1/10W
R170	1-216-097-00	METAL CHIP	100K 5X 1/10W	R219	1-216-051-00	METAL CHIP	1.2K 5X 1/10W
R171	1-216-748-11	METAL CHIP	39K 5X 1/10W	R220	1-216-041-00	METAL CHIP	470 5X 1/10W
R173	1-216-057-00	METAL CHIP	100K 5X 1/10W	R221	1-216-041-00	METAL CHIP	475 5X 1/10W
R174	1-216-748-11	METAL CHIP	39K 5X 1/10W	R222	1-216-295-00	METAL CHIP	0 5X 1/10W
R175	1-216-097-00	METAL CHIP	100K 5X 1/10W	R223	1-216-041-00	METAL CHIP	470 5X 1/10W
R176	1-216-073-00	METAL CHIP	10K 5X 1/10W	R224	1-216-041-00	METAL CHIP	470 5X 1/10W
R177	1-216-081-00	METAL CHIP	22K 5X 1/10W	R225	1-216-065-00	METAL CHIP	4.7K 5X 1/10W
R178	1-216-077-00	METAL CHIP	15K 5X 1/10W	R226	1-216-081-00	METAL CHIP	22K 5X 1/10W
R179	1-216-075-00	METAL CHIP	12K 5X 1/10W	R227	1-216-083-00	METAL CHIP	27K 5X 1/10W
R180	1-216-041-00	METAL CHIP	470 5X 1/10W	R228	1-216-053-00	METAL CHIP	1.5K 5X 1/10W
R181	1-216-085-00	METAL CHIP	33K 5X 1/10W	R229	1-216-049-00	METAL CHIP	1K 5X 1/10W
R182	1-216-073-00	METAL CHIP	10K 5X 1/10W	R230	1-216-047-00	METAL CHIP	820 5X 1/10W
R183	1-216-067-00	METAL CHIP	5.6K 5X 1/10W	R231	1-216-069-00	METAL CHIP	6.8K 5X 1/10W
R184	1-216-055-00	METAL CHIP	1.8K 5X 1/10W	R232	1-216-137-11	METAL GLAZE	1K 1X 1/10W
R185	1-216-073-00	METAL CHIP	10K 5X 1/10W	R233	1-216-602-11	METAL GLAZE	8.8K 1X 1/10W
R186	1-216-065-00	METAL CHIP	4.7K 5X 1/10W	R234	1-216-033-00	METAL CHIP	220 5X 1/10W
R187	1-216-081-00	METAL CHIP	22K 5X 1/10W	R235	1-216-057-00	METAL CHIP	2.2K 5X 1/10W
R188	1-216-065-00	METAL CHIP	4.7K 5X 1/10W	R236	1-216-089-00	METAL CHIP	47K 5X 1/10W
R190	1-216-065-00	METAL CHIP	4.7K 5X 1/10W	R237	1-216-089-00	METAL CHIP	47K 5X 1/10W
R191	1-216-072-00	METAL CHIP	8.2K 5X 1/10W	R238	1-216-053-00	METAL CHIP	1.5K 5X 1/10W
				R239	1-216-059-00	METAL CHIP	47K 5X 1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
IC401	8-752-031-01	IC CXA104TM		L501	1-408-984-21	INDUCTOR CHIP 150uH	
IC501	8-752-003-12	IC CX20031		L502	1-408-785-21	INDUCTOR CHIP 47uH	
IC601	8-752-202-10	IC CX22021		L503	1-408-781-21	INDUCTOR CHIP 1.5uH	
IC802	8-752-003-22	IC CX20032		L504	1-408-787-21	INDUCTOR CHIP 1.5uH	
IC803	8-758-914-56	IC CX23054		L505	1-408-779-31	INDUCTOR CHIP 15uH	
IC701	8-752-322-24	IC CXL700BM		L601	1-407-169-XX	INDUCTOR CHIP 100uH	
IC801	8-752-322-24	IC CXL700BM		L602	1-408-792-00	INDUCTOR CHIP 180uH	
IC851	8-759-710-05	IC HJMC238M		L603	1-408-783-00	INDUCTOR CHIP 33uH	
IC901	8-759-925-74	IC TC74HC04AF		L604	1-408-789-21	INDUCTOR CHIP 100uH	
IC902	8-759-925-74	IC TC74HC04AF		L605	1-408-790-00	INDUCTOR CHIP 120uH	
		(COIL)		L606	1-408-793-21	INDUCTOR CHIP 220uH	
L101	1-408-974-21	INDUCTOR CHIP 22uH		L701	1-407-169-XX	INDUCTOR CHIP 100uH	
L102	1-410-167-41	INDUCTOR CHIP 820uH		L702	1-408-787-00	INDUCTOR CHIP 68uH	
L103	1-408-792-00	INDUCTOR CHIP 180uH		L703	1-408-777-00	INDUCTOR CHIP 10uH	
L104	1-408-775-21	INDUCTOR CHIP 6.8uH		L704	1-407-169-XX	INDUCTOR CHIP 100uH	
L105	1-408-776-11	INDUCTOR CHIP 2.7uH		L705	1-408-789-21	INDUCTOR CHIP 100uH	
L106	1-408-775-21	INDUCTOR CHIP 6.8uH		L706	1-408-789-21	INDUCTOR CHIP 100uH	
L107	1-408-775-21	INDUCTOR CHIP 6.8uH		L801	1-407-169-XX	INDUCTOR CHIP 100uH	
L108	1-408-780-21	INDUCTOR CHIP 18uH		L802	1-408-787-00	INDUCTOR CHIP 68uH	
L111	1-408-797-11	INDUCTOR CHIP 470uH		L803	1-408-777-00	INDUCTOR CHIP 10uH	
L112	1-408-797-11	INDUCTOR CHIP 470uH		L804	1-407-169-XX	INDUCTOR CHIP 100uH	
L113	1-420-777-00	INDUCTOR CHIP 10uH		L805	1-408-781-00	INDUCTOR CHIP 22uH	
L114	1-408-779-31	INDUCTOR CHIP 15uH		L851	1-407-169-XX	INDUCTOR CHIP 100uH	
L115	1-408-780-21	INDUCTOR CHIP 18uH		L852	1-408-777-00	INDUCTOR CHIP 10uH	
L201	1-407-169-XX	INDUCTOR CHIP 100uH				(COIL VARIABLE)	
L202	1-408-795-21	INDUCTOR CHIP 330uH		EV501	1-459-547-11	COIL, VARIABLE 15uH	
L203	1-408-784-11	INDUCTOR CHIP 39uH				(TRANSISTOR)	
L204	1-408-782-11	INDUCTOR CHIP 27uH		Q101	8-729-102-07	TRANSISTOR 2SC2223	
L205	1-408-776-00	INDUCTOR CHIP 8.2uH		Q102	8-729-901-04	TRANSISTOR DTA114EK	
L301	1-408-790-00	INDUCTOR CHIP 120uH		Q103	8-729-102-07	TRANSISTOR 2SC2223	
L302	1-408-789-21	INDUCTOR CHIP 100uH		Q104	8-729-901-01	TRANSISTOR DTC144EK	
L303	1-408-780-21	INDUCTOR CHIP 18uH		Q105	8-729-904-07	TRANSISTOR FM32-T-148	
L305	1-408-779-31	INDUCTOR CHIP 15uH		Q107	8-729-100-66	TRANSISTOR 2SC1623	
L306	1-408-782-11	INDUCTOR CHIP 27uH		Q110	8-729-901-01	TRANSISTOR DTC144EK	
L307	1-408-779-31	INDUCTOR CHIP 15uH		Q111	8-729-102-07	TRANSISTOR 2SC2223	
L308	1-408-783-00	INDUCTOR CHIP 33uH		Q112	8-729-901-01	TRANSISTOR DTC144EK	
L309	1-408-777-00	INDUCTOR CHIP 10uH		Q113	8-729-102-07	TRANSISTOR 2SC2223	
L310	1-407-169-XX	INDUCTOR CHIP 100uH		Q116	8-729-102-07	TRANSISTOR 2SC2223	
L312	1-408-781-00	INDUCTOR CHIP 22uH		Q117	8-729-102-07	TRANSISTOR 2SC2223	
L401	1-408-782-11	INDUCTOR CHIP 27uH		Q118	8-729-102-07	TRANSISTOR 2SC2223	
L402	1-408-970-21	INDUCTOR CHIP 10uH					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
0119	8-729-102-07	TRANSISTOR 2SC2223		0311	8-729-100-66	TRANSISTOR 2SC1623	
0120	8-729-102-07	TRANSISTOR 2SC2223		0312	8-729-901-06	TRANSISTOR DT144EK	
0121	8-729-100-66	TRANSISTOR 2SC1623		0313	8-729-320-17	TRANSISTOR 2SA1122CD	
0122	8-729-901-01	TRANSISTOR DT144EK		0314	8-729-100-66	TRANSISTOR 2SC1623	
0123	8-729-901-01	TRANSISTOR DT144EK		0315	8-729-100-66	TRANSISTOR 2SC1623	
0124	8-729-901-06	TRANSISTOR DT144EK		0316	8-729-901-01	TRANSISTOR DT144EK	
0125	8-729-901-07	TRANSISTOR DT144EK		0317	8-729-100-66	TRANSISTOR 2SC1623	
0126	8-729-100-66	TRANSISTOR 2SC1623		0318	8-729-901-06	TRANSISTOR DT144EK	
0127	8-729-100-66	TRANSISTOR 2SC1623		0319	8-729-100-66	TRANSISTOR 2SC1623	
0128	8-729-102-07	TRANSISTOR 2SC2223		0320	8-729-901-01	TRANSISTOR DT144EK	
0129	8-729-100-66	TRANSISTOR 2SC1623		0321	8-729-901-01	TRANSISTOR DT144EK	
0130	8-729-907-76	TRANSISTOR 1MA1		0322	8-729-320-17	TRANSISTOR 2SA1122CD	
0131	8-729-320-17	TRANSISTOR 2SA1122CD		0323	8-729-901-01	TRANSISTOR DT144EK	
0132	8-729-202-38	TRANSISTOR 2SC3326N		0324	8-729-901-01	TRANSISTOR DT144EK	
0181	8-729-907-40	TRANSISTOR 1MC1		0325	8-729-901-06	TRANSISTOR DT144EK	
0182	8-729-903-10	TRANSISTOR FMM1		0326	8-729-901-06	TRANSISTOR DT144EK	
0184	8-729-320-17	TRANSISTOR 2SA1122CD		0328	8-729-100-66	TRANSISTOR 2SC1623	
0201	8-729-102-07	TRANSISTOR 2SC2223		0401	8-729-100-66	TRANSISTOR 2SC1623	
0202	8-729-202-38	TRANSISTOR 2SC3326N		0402	8-729-100-66	TRANSISTOR 2SC1623	
0203	8-729-202-38	TRANSISTOR 2SC3326N		0403	8-729-901-01	TRANSISTOR DT144EK	
0204	8-729-904-07	TRANSISTOR FMG2		0404	8-729-901-01	TRANSISTOR DT144EK	
0206	8-729-122-63	TRANSISTOR 2SA1226		0405	8-729-901-06	TRANSISTOR DT144EK	
0207	8-729-202-38	TRANSISTOR 2SC3326N		0406	8-729-100-66	TRANSISTOR 2SC1623	
0208	8-729-201-27	TRANSISTOR 2SC2715		0407	8-729-320-17	TRANSISTOR 2SA1122CD	
0209	8-729-201-27	TRANSISTOR 2SC2715		0408	8-729-320-17	TRANSISTOR 2SA1122CD	
0210	8-729-102-07	TRANSISTOR 2SC2223		0409	8-729-100-66	TRANSISTOR 2SC1623	
0211	8-729-102-07	TRANSISTOR 2SC2223		0410	8-729-320-17	TRANSISTOR 2SA1122CD	
0212	8-729-901-01	TRANSISTOR DT144EK		0411	8-729-901-01	TRANSISTOR DT144EK	
0213	8-729-901-06	TRANSISTOR DT144EK		0412	8-729-901-01	TRANSISTOR DT144EK	
0214	8-729-102-07	TRANSISTOR 2SC2223		0413	8-729-901-01	TRANSISTOR DT144EK	
0215	8-729-902-96	TRANSISTOR FMS1		0414	8-729-100-66	TRANSISTOR 2SC1623	
0217	8-729-102-07	TRANSISTOR 2SC2223		0415	8-729-320-17	TRANSISTOR 2SA1122CD	
0218	8-729-102-07	TRANSISTOR 2SC2223		0416	8-729-320-17	TRANSISTOR 2SA1122CD	
0219	8-729-901-01	TRANSISTOR DT144EK		0417	8-729-901-01	TRANSISTOR DT144EK	
0299	8-729-901-06	TRANSISTOR DT144EK		0418	8-729-100-66	TRANSISTOR 2SC1623	
0301	8-729-100-66	TRANSISTOR 2SC1623		0419	8-729-100-66	TRANSISTOR 2SC1623	
0302	8-729-100-66	TRANSISTOR 2SC1623		0420	8-729-202-38	TRANSISTOR 2SC3326N	
0305	8-729-100-66	TRANSISTOR 2SC1623		0421	8-729-202-38	TRANSISTOR 2SC3326N	
0306	8-729-100-66	TRANSISTOR 2SC1623		0422	8-729-100-66	TRANSISTOR 2SC1623	
0307	8-729-100-66	TRANSISTOR 2SC1623		0423	8-729-100-66	TRANSISTOR 2SC1623	
0309	8-729-100-66	TRANSISTOR 2SC1623		0424	8-729-901-01	TRANSISTOR DT144EK	
0310	8-729-100-66	TRANSISTOR 2SC1623		0425	8-729-100-66	TRANSISTOR 2SC1623	

Ref. No.	Part No.	Description	Remark	Ref No	Part No.	Description	Remark		
C611	1-163-035-00	CERAMIC CHIP	0.047uF	50V	C655	1-163-113-00	CERAMIC CHIP	68PF	5% 50V
C612	1-163-035-00	CERAMIC CHIP	0.047uF	50V	C656	1-163-123-00	CERAMIC CHIP	470PF	5% 50V
C613	1-135-073-00	TANTALUM CHIP	0.33uF	70% 35V	C657	1-163-133-00	CERAMIC CHIP	470PF	5% 50V
C614	1-163-098-00	CERAMIC CHIP	18PF	5% 50V	C658	1-163-141-00	CERAMIC CHIP	0.001uF	5% 50V
C615	1-163-141-00	CERAMIC CHIP	0.001uF	5% 50V	C659	1-163-111-00	CERAMIC CHIP	50PF	5% 50V
C616	1-163-109-00	CERAMIC CHIP	47PF	5% 50V	C660	1-163-145-00	CERAMIC CHIP	0.0015uF	5% 50V
C617	1-163-129-00	CERAMIC CHIP	330PF	5% 50V	C661	1-163-235-11	CERAMIC CHIP	22PF	5% 50V
C618	1-163-129-00	CERAMIC CHIP	330PF	5% 50V	C662	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C619	1-163-035-00	CERAMIC CHIP	0.047uF	50V	C663	1-163-125-00	CERAMIC CHIP	330PF	5% 50V
C620	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	C664	1-163-129-00	CERAMIC CHIP	330PF	5% 50V
C621	1-135-156-21	TANTALUM CHIP	4.7uF	10% 19V	C701	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C622	1-135-156-21	TANTALUM CHIP	6.8uF	10% 6.3V	C702	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C623	1-135-156-21	TANTALUM CHIP	6.8uF	10% 6.3V	C703	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C624	1-163-035-00	CERAMIC CHIP	0.047uF	50V	C704	1-135-157-21	TANTALUM CHIP	10uF	20% 6.3V
C625	1-163-141-00	CERAMIC CHIP	0.001uF	5% 50V	C705	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C627	1-135-149-21	TANTALUM CHIP	2.2uF	20% 10V	C706	1-163-105-00	CERAMIC CHIP	33PF	5% 50V
C628	1-163-035-00	CERAMIC CHIP	0.047uF	50V	C707	1-163-105-00	CERAMIC CHIP	33PF	5% 50V
C629	1-163-035-00	CERAMIC CHIP	0.047uF	50V	C708	1-135-161-21	TANTALUM CHIP	22uF	10% 6.3V
C630	1-163-141-00	CERAMIC CHIP	0.001uF	5% 50V	C709	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C631	1-135-072-21	TANTALUM CHIP	0.22uF	10% 35V	C710	1-135-091-00	TANTALUM CHIP	1uF	20% 16V
C632	1-135-149-21	TANTALUM CHIP	2.2uF	20% 10V	C711	1-163-125-00	CERAMIC CHIP	220PF	5% 50V
C634	1-135-149-21	TANTALUM CHIP	2.2uF	20% 10V	C712	1-163-127-00	CERAMIC CHIP	270PF	5% 50V
C635	1-164-182-11	CERAMIC CHIP	0.0033uF	10% 50V	C713	1-135-097-21	TANTALUM CHIP	15uF	10% 10V
C636	1-163-129-00	CERAMIC CHIP	330PF	5% 50V	C714	1-135-097-21	TANTALUM CHIP	15uF	10% 10V
C637	1-135-149-21	TANTALUM CHIP	2.2uF	20% 10V	C715	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V
C638	1-163-141-00	CERAMIC CHIP	0.001uF	5% 50V	C716	1-135-161-21	TANTALUM CHIP	22uF	10% 6.3V
C639	1-163-129-00	CERAMIC CHIP	330PF	5% 50V	C717	1-135-156-21	TANTALUM CHIP	6.8uF	10% 6.3V
C640	1-163-109-00	CERAMIC CHIP	47PF	5% 50V	C718	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C641	1-163-035-00	CERAMIC CHIP	0.047uF	50V	C719	1-135-148-21	TANTALUM CHIP	1.5uF	20% 10V
C642	1-163-035-00	CERAMIC CHIP	0.047uF	50V	C721	1-124-584-00	ELECT	100uF	20% 10V
C644	1-163-115-00	CERAMIC CHIP	62PF	5% 50V	C722	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C645	1-163-245-11	CERAMIC CHIP	56PF	5% 50V	C724	1-163-235-11	CERAMIC CHIP	22PF	5% 50V
C646	1-163-119-00	CERAMIC CHIP	120PF	5% 50V	C801	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C647	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	C802	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C648	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	C803	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C649	1-163-105-00	CERAMIC CHIP	33PF	5% 50V	C804	1-135-157-21	TANTALUM CHIP	10uF	20% 6.3V
C650	1-163-109-00	CERAMIC CHIP	47PF	5% 50V	C805	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C651	1-163-109-00	CERAMIC CHIP	47PF	5% 50V	C806	1-163-105-00	CERAMIC CHIP	33PF	5% 50V
C652	1-135-161-21	TANTALUM CHIP	22uF	10% 6.3V	C807	1-163-105-00	CERAMIC CHIP	33PF	5% 50V
C653	1-163-035-00	CERAMIC CHIP	0.047uF	50V	C808	1-135-161-21	TANTALUM CHIP	22uF	10% 6.3V
C654	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	C809	1-163-035-00	CERAMIC CHIP	0.047uF	50V
					C810	1-135-091-00	TANTALUM CHIP	1uF	20% 16V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	
CB11	1-163-125-00	CERAMIC CHIP	220PF 5%	50V	CH912	1-506-472-11	CONNECTOR 7P, MALE	
CB12	1-163-127-00	CERAMIC CHIP	270PF	5%	50V	CH914	1-506-471-11	CONNECTOR 6P, MALE
CB13	1-163-133-00	CERAMIC CHIP	470PF	5%	50V		(CAP TRIMMER)	
CB14	1-135-007-21	TANTALUM CHIP	15uF	10%	30V			
CB15	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	CV601	1-141-311-11	CAP, TRIMMER 20PF
CB16	1-135-161-21	TANTALUM CHIP	22uF	10%	6.3V		(DIODE)	
CB17	1-135-156-21	TANTALUM CHIP	6.8uF	10%	6.3V			
CB18	1-163-035-00	CERAMIC CHIP	0.047uF		50V	D101	8-719-400-18	DIODE MA1520K
CB19	1-135-148-21	TANTALUM CHIP	1.5uF	20%	10V	D102	8-719-400-18	DIODE MA1520K
CB20	1-135-166-21	TANTALUM CHIP	47uF	10%	10V	D105	8-719-800-76	DIODE 1SS226
CB21	1-124-584-00	ELECT	100uF	20%	10V	D106	8-719-400-18	DIODE MA1520K
CB22	1-163-035-00	CERAMIC CHIP	0.047uF		50V	D107	8-719-400-18	DIODE MA1520K
CB24	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	D108	8-719-400-18	DIODE MA1520K
CB25	1-163-099-00	CERAMIC CHIP	18PF	5%	50V	D109	8-719-400-18	DIODE MA1520K
CB26	1-163-035-00	CERAMIC CHIP	0.047uF		50V	D301	8-719-400-18	DIODE MA1520K
CB51	1-135-181-21	TANTALUM CHIP	22uF	10%	6.3V	D302	8-719-400-18	DIODE MA1520K
CB52	1-163-035-00	CERAMIC CHIP	0.047uF		50V	D401	8-719-400-18	DIODE MA1520K
CB53	1-163-035-00	CERAMIC CHIP	0.047uF		50V	D402	8-719-400-18	DIODE MA1520K
CB54	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	D403	8-719-400-18	DIODE MA1520K
CB55	1-163-035-00	CERAMIC CHIP	0.047uF		50V	D404	8-719-400-18	DIODE MA1520K
CB56	1-163-035-00	CERAMIC CHIP	0.047uF		50V	D405	8-719-400-18	DIODE MA1520K
CB57	1-135-155-21	TANTALUM CHIP	4.7uF	10%	10V	D501	8-719-400-18	DIODE MA1520K
CB58	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	D701	8-719-104-34	DIODE 1S2836
CB59	1-163-035-00	CERAMIC CHIP	0.047uF		50V	D702	8-719-400-18	DIODE 1S2837
CB60	1-163-093-00	CERAMIC CHIP	10PF	5%	50V	D801	8-719-400-18	DIODE 1S2837
CB01	1-163-035-00	CERAMIC CHIP	0.047uF		50V	D802	8-719-400-18	DIODE 1S2837
CB02	1-163-035-00	CERAMIC CHIP	0.047uF		50V	D803	8-719-104-34	DIODE 1S2836
CB03	1-163-035-00	CERAMIC CHIP	0.047uF		50V	D901	8-719-400-18	DIODE MA1520K
CB04	1-163-035-00	CERAMIC CHIP	0.047uF		50V		(DELAY LINE)	
CB05	1-135-156-21	TANTALUM CHIP	8.8uF	10%	6.3V			
CB06	1-163-035-00	CERAMIC CHIP	0.047uF		50V	DL501	1-415-611-11	DELAY LINE, GLASS (3.59MHz/10 70MHz)
CB07	1-135-166-21	TANTALUM CHIP	47uF	10%	10V		(FILTER)	
CB08	1-163-035-00	CERAMIC CHIP	0.047uF		50V			
		(CERAMIC FILTER)						
CF601	1-567-306-11	RESONATOR, CERAMIC				FL301	1-236-370-11	LPF, DEMOD (V)
CF851	1-567-390-11	FILTER, CERAMIC	10.7M			FL401	1-415-647-11	DELAY LINE, LC (250ms)
		(CONNECTOR)					(IC)	
CH101	1-566-943-11	CONNECTOR, BOARD TO BOARD 18P				IC101	8-759-233-84	IC TAB607F
CH102	1-566-943-11	CONNECTOR, BOARD TO BOARD 18P				IC102	8-759-325-60	IC BA401
CH811	1-506-470-11	CONNECTOR 6P, MALE				IC280	8-759-239-58	IC TC74HC221AF
						IC301	8-752-002-XX	IC CX20030

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark				
C112	1-163-245-11	CERAMIC CHIP	56PF	5%	50V	C209	1-163-235-11	CERAMIC CHIP	32PF	5%	50V
C113	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C210	1-163-106-00	CERAMIC CHIP	36PF	5%	50V
C114	1-163-035-00	CERAMIC CHIP	0.047uF		50V						
C115	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C211	1-163-035-00	CERAMIC CHIP	0.047uF		50V
						C212	1-135-156-21	TANTALUM CHIP	6.8uF	10%	6.3V
C116	1-135-070-00	TANTALUM CHIP	0.1uF	10%	35V	C213	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C117	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C214	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C118	1-163-224-11	CERAMIC CHIP	7PF		0.25PF 50V	C215	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C119	1-163-227-11	CERAMIC CHIP	10PF	5%	50V						
C120	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C216	1-163-035-00	CERAMIC CHIP	0.047uF		50V
						C217	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C122	1-163-068-00	CERAMIC CHIP	5PF		50V	C218	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C123	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C219	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C124	1-163-104-00	CERAMIC CHIP	30PF	5%	50V	C220	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C126	1-163-035-00	CERAMIC CHIP	0.047uF		50V						
C127	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C221	1-163-035-00	CERAMIC CHIP	0.047uF		50V
						C222	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C128	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C223	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C129	1-163-095-00	CERAMIC CHIP	12PF	5%	50V	C224	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C130	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C225	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C131	1-163-251-11	CERAMIC CHIP	100PF	5%	50V						
C132	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C226	1-163-122-00	CERAMIC CHIP	160PF	5%	50V
						C227	1-163-120-00	CERAMIC CHIP	130PF	5%	50V
C133	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	C228	1-163-122-00	CERAMIC CHIP	160PF	5%	50V
C134	1-163-227-11	CERAMIC CHIP	10PF	5%	50V	C297	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C135	1-163-224-11	CERAMIC CHIP	7PF		0.25PF 50V	C298	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C136	1-163-099-00	CERAMIC CHIP	18PF	5%	50V						
C137	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C299	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
						C302	1-135-162-21	TANTALUM CHIP	33uF	20%	6.3V
C138	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C303	1-163-095-00	CERAMIC CHIP	12PF	5%	50V
C139	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C304	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C140	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C305	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C141	1-163-035-00	CERAMIC CHIP	0.047uF		50V						
C142	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C307	1-163-035-00	CERAMIC CHIP	0.047uF		50V
						C308	1-135-156-21	TANTALUM CHIP	6.8uF	10%	6.3V
C143	1-135-149-21	TANTALUM CHIP	2.2uF	20%	10V	C309	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C145	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C311	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C146	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C313	1-135-166-21	TANTALUM CHIP	4uF	10%	10V
C147	1-163-035-00	CERAMIC CHIP	0.047uF		50V						
C181	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	C314	1-163-241-11	CERAMIC CHIP	39PF	5%	50V
						C316	1-163-241-11	CERAMIC CHIP	39PF	5%	50V
C182	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	C317	1-163-245-11	CERAMIC CHIP	56PF	5%	50V
C183	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C318	1-164-491-11	CERAMIC CHIP	300PF	1%	50V
C201	1-135-166-21	TANTALUM CHIP	47uF	10%	10V	C319	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C202	1-163-035-00	CERAMIC CHIP	0.047uF		50V						
C204	1-163-127-00	CERAMIC CHIP	270PF	5%	50V	C320	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
						C321	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C206	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C322	1-163-038-00	CERAMIC CHIP	0.1uF	25%	50V
C207	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C323	1-163-012-00	CERAMIC CHIP	0.0015uF	10%	50V
C208	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	C324	1-163-035-00	CERAMIC CHIP	0.047uF		50V

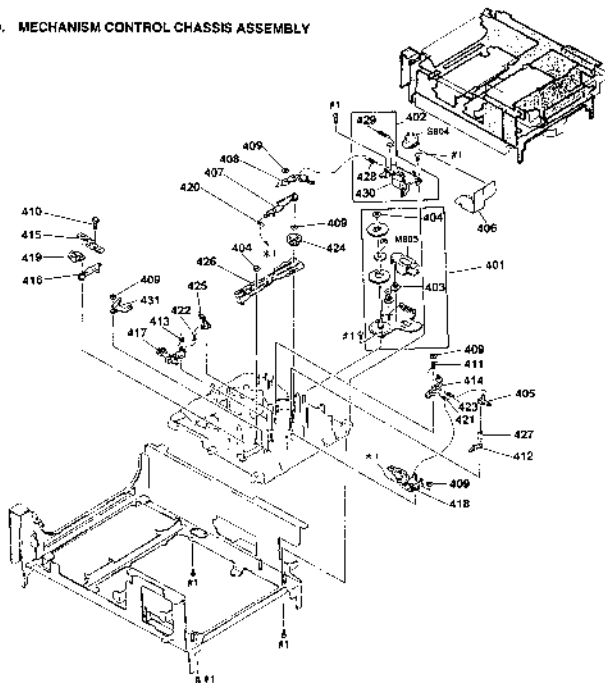
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark			
C325	1-135-156-21	TANTALUM CHIP	6.8uF 10%	6.3V	424	1-135-155-21	TANTALUM CHIP	4.7uF 10%	10V	
C326	1-163-035-00	CERAMIC CHIP	0.047uF	50V	427	1-135-157-21	TANTALUM CHIP	10uF	20%	
C327	1-135-156-21	TANTALUM CHIP	6.8uF 10%	6.3V	428	1-135-161-21	TANTALUM CHIP	22uF	10%	
C328	1-163-035-00	CERAMIC CHIP	0.047uF	50V						
C329	1-135-166-21	TANTALUM CHIP	47uF	10%	10V	429	1-135-157-21	TANTALUM CHIP	10uF	20%
C330	1-163-035-00	CERAMIC CHIP	0.047uF	50V		4501	1-135-166-21	TANTALUM CHIP	47uF	10%
C331	1-135-091-00	TANTALUM CHIP	1uF	20%	16V	C502	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C332	1-135-155-21	TANTALUM CHIP	4.7uF	10%	10V	C503	1-163-141-00	CERAMIC CHIP	0.001uF	5%
C334	1-135-155-21	TANTALUM CHIP	4.7uF	10%	10V	C504	1-163-038-00	CERAMIC CHIP	0.1uF	25V
C335	1-163-035-00	CERAMIC CHIP	0.047uF	50V		C505	1-154-232-11	CERAMIC CHIP	0.01uF	50V
C337	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	C506	1-163-105-00	CERAMIC CHIP	33PF	5%
C338	1-163-035-00	CERAMIC CHIP	0.047uF	50V		C507	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C339	1-163-035-00	CERAMIC CHIP	0.047uF	50V		C508	1-163-105-00	CERAMIC CHIP	33PF	5%
C340	1-135-012-21	TANTALUM CHIP	0.22uF	10%	35V	C509	1-135-156-21	TANTALUM CHIP	6.8uF	10%
C341	1-135-157-21	TANTALUM CHIP	10uF	20%	6.3V	C510	1-135-156-21	TANTALUM CHIP	6.8uF	10%
C343	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	C512	1-135-149-21	TANTALUM CHIP	2.2uF	20%
C344	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	C513	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C345	1-163-134-00	CERAMIC CHIP	510PF	5%	50V	C514	1-163-133-00	CERAMIC CHIP	470PF	5%
C347	1-163-035-00	CERAMIC CHIP	0.047uF	50V		C515	1-163-105-00	CERAMIC CHIP	33PF	5%
C401	1-163-308-00	CERAMIC CHIP	47PF	5%	50V	C516	1-135-155-21	TANTALUM CHIP	4.7uF	10%
C402	1-124-988-11	ELECT	22uF	20%	6.3V	C517	1-163-121-00	CERAMIC CHIP	150PF	5%
C403	1-163-106-00	CERAMIC CHIP	36PF	5%	50V	C519	1-135-149-21	TANTALUM CHIP	2.2uF	20%
C404	1-163-245-11	CERAMIC CHIP	56PF	5%	50V	C520	1-163-245-11	CERAMIC CHIP	56PF	5%
C405	1-163-208-00	CERAMIC CHIP	18PF	5%	50V	C521	1-163-103-00	CERAMIC CHIP	27PF	5%
C406	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C522	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C407	1-135-149-21	TANTALUM CHIP	2.2uF	20%	10V	C523	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C408	1-163-093-00	CERAMIC CHIP	10PF	5%	50V	C524	1-163-141-00	CERAMIC CHIP	0.001uF	5%
C409	1-164-232-11	CERAMIC CHIP	0.02uF	5%	50V	C525	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C410	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	C526	1-135-164-21	TANTALUM CHIP	22uF	10%
C411	1-163-088-00	CERAMIC CHIP	5PF			C527	1-135-161-21	TANTALUM CHIP	22uF	10%
C412	1-135-156-21	TANTALUM CHIP	6.8uF	10%	6.3V	C528	1-163-141-00	CERAMIC CHIP	0.001uF	5%
C413	1-163-035-00	CERAMIC CHIP	0.047uF	50V		C529	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C414	1-164-232-11	CERAMIC CHIP	0.01uF	50V		C530	1-163-277-11	CERAMIC CHIP	10PF	5%
C415	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	C601	1-135-158-21	TANTALUM CHIP	8.8uF	10%
C416	1-164-232-11	CERAMIC CHIP	0.01uF	50V		C602	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C417	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	C603	1-163-129-00	CERAMIC CHIP	330PF	5%
C418	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	C604	1-163-035-00	CERAMIC CHIP	0.047uF	50V
C419	1-164-491-11	CERAMIC CHIP	300PF	1%	50V	C605	1-163-251-11	CERAMIC CHIP	100PF	5%
C420	1-135-156-21	TANTALUM CHIP	6.8uF	10%	6.3V	C606	1-163-141-00	CERAMIC CHIP	0.001uF	5%
C421	1-163-035-00	CERAMIC CHIP	0.047uF	50V		C607	1-135-070-00	TANTALUM CHIP	0.1uF	10%
C422	1-163-035-00	CERAMIC CHIP	0.047uF	50V		C608	1-163-129-00	CERAMIC CHIP	330PF	5%
C423	1-163-035-00	CERAMIC CHIP	0.047uF	50V		C609	1-135-156-21	TANTALUM CHIP	6.8uF	10%
						C610	1-163-035-00	CERAMIC CHIP	0.047uF	50V

Ref. No	Part No	Description	Remark	Ref. No.	Part No	Description	Remark
D155	8-719-104-34	DIODE 152836		D161	8-729-001-07	TRANSISTOR 25B798-CLKK	
D156	8-719-104-34	DIODE 152836		D162	8-729-202-38	TRANSISTOR 25C3326N	
D157	8-719-400-18	DIODE MA152MK				(RESISTOR)	
D158	8-719-104-34	DIODE 152836					
		(IC)		R001	1-216-097-00	METAL CHIP 100K 5%	1/10W
IC001	8-752-830-17	IC CIP5046H-262Q		R002	1-216-083-00	METAL CHIP 47K 5%	1/10W
IC002	8-759-937-56	IC S-8054ALB-LM-S		R003	1-216-089-00	METAL CHIP 47K 5%	1/10W
IC003	8-741-100-48	IC SBX1610-59		R005	1-216-085-00	METAL CHIP 4.7K 5%	1/10W
IC004	8-759-927-46	IC SH74HC00ANS		R006	1-216-051-00	METAL CHIP 1.2K 5%	1/10W
IC101	8-759-981-XX	IC NJM4562N		R007	1-216-055-00	METAL CHIP 1.8K 5%	1/10W
				R008	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
IC102	8-759-300-71	IC TC4053BF80		R009	1-216-085-00	METAL CHIP 4.7K 5%	1/10W
IC152	8-759-981-92	IC NJM4558N		R010	1-216-051-00	METAL CHIP 1.2K 5%	1/10W
IC153	8-759-981-92	IC NJM4558N		R011	1-216-055-00	METAL CHIP 1.8K 5%	1/10W
IC154	8-759-700-62	IC NJM4562N					
		(COIL)		R012	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
L001	1-408-789-21	INDUCTOR, CHIP 100UH		R013	1-216-089-00	METAL CHIP 4.7K 5%	1/10W
L101	1-408-879-21	INDUCTOR 66UH		R014	1-216-051-00	METAL CHIP 1.2K 5%	1/10W
		(TRANSISTOR)		R015	1-216-055-00	METAL CHIP 1.8K 5%	1/10W
				R016	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
Q042	8-729-901-06	TRANSISTOR DTA144EK		R017	1-216-089-00	METAL CHIP 47K 5%	1/10W
Q073	8-729-140-66	TRANSISTOR FP1A2W		R018	1-216-073-00	METAL CHIP 10K 5%	1/10W
Q075	8-729-216-22	TRANSISTOR 25A1162		R019	1-216-089-00	METAL CHIP 47K 5%	1/10W
Q076	8-729-900-52	TRANSISTOR DTC114EK		R020	1-216-089-00	METAL CHIP 47K 5%	1/10W
Q017	8-729-901-06	TRANSISTOR DTA144EK		R021	1-216-049-60	METAL CHIP 9K 5%	1/10W
Q018	8-729-901-06	TRANSISTOR DTA144EK		R022	1-216-089-00	METAL CHIP 47K 5%	1/10W
Q019	8-729-901-01	TRANSISTOR DTC114EK		R023	1-216-089-00	METAL CHIP 47K 5%	1/10W
Q101	8-729-901-01	TRANSISTOR DTC114EK		R024	1-216-089-00	METAL CHIP 47K 5%	1/10W
Q103	8-729-216-22	TRANSISTOR 25A1162		R025	1-216-089-00	METAL CHIP 47K 5%	1/10W
Q104	8-729-100-66	TRANSISTOR 25C1623		R026	1-216-037-00	METAL CHIP 330 5%	1/10W
Q105	8-729-202-38	TRANSISTOR 25C3326N					
Q106	8-729-202-38	TRANSISTOR 25C3326N		R027	1-216-029-00	METAL CHIP 150 5%	1/10W
Q153	8-729-202-38	TRANSISTOR 25C3326N		R028	1-216-029-00	METAL CHIP 150 5%	1/10W
Q194	8-729-202-38	TRANSISTOR 25C3326N		R029	1-216-037-00	METAL CHIP 330 5%	1/10W
Q155	8-729-202-38	TRANSISTOR 25C3326N		R030	1-216-037-00	METAL CHIP 330 5%	1/10W
				R031	1-216-037-00	METAL CHIP 330 5%	1/10W
D150	8-729-100-66	TRANSISTOR 25C1623		R032	1-216-037-00	METAL CHIP 330 5%	1/10W
D157	8-729-901-06	TRANSISTOR DTA144EK		R033	1-216-037-00	METAL CHIP 330 5%	1/10W
D158	8-729-901-06	TRANSISTOR DTA144EK		R034	1-216-037-00	METAL CHIP 330 5%	1/10W
D159	8-729-901-01	TRANSISTOR DTC114EK		R035	1-216-037-00	METAL CHIP 330 5%	1/10W
Q160	8-729-140-75	TRANSISTOR 25D999-CLKK		RC36	1-216-037-00	METAL CHIP 330 5%	1/10W
				R037	1-216-029-00	METAL CHIP 150 5%	1/10W
				R038	1-216-029-00	METAL CHIP 150 5%	1/10W
				R039	1-216-029-00	METAL CHIP 150 5%	1/10W

FB-169 (P)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
RD40	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	R171	1-216-295-00	METAL CHIP	0 5% 1/10W
RD41	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	RS73	1-216-082-00	METAL GLAZE	24K 5% 1/10W
RD42	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	RS74	1-216-079-00	METAL CHIP	18K 5% 1/10W
RD43	1-216-089-00	METAL CHIP	47K 5% 1/10W	R175	1-216-049-00	METAL CHIP	1K 5% 1/10W
RD44	1-216-089-00	METAL CHIP	47K 5% 1/10W	R176	1-216-057-00	METAL CHIP	100K 5% 1/10W
RD45	1-216-085-00	METAL CHIP	4.7K 5% 1/10W	R177	1-216-065-00	METAL CHIP	33K 5% 1/10W
RD46	1-216-049-00	METAL CHIP	1K 5% 1/10W	R178	1-216-097-00	METAL CHIP	100K 5% 1/10W
RD47	1-216-055-00	METAL CHIP	1.8K 5% 1/10W	R179	1-216-083-00	METAL CHIP	33K 5% 1/10W
RD48	1-216-037-00	METAL CHIP	330 5% 1/10W	R180	1-216-079-00	METAL CHIP	18K 5% 1/10W
RD50	1-216-037-00	METAL CHIP	330 5% 1/10W	R181	1-216-049-00	METAL CHIP	1K 5% 1/10W
RD51	1-216-037-00	METAL CHIP	330 5% 1/10W	R182	1-216-089-00	METAL CHIP	47K 5% 1/10W
RD52	1-216-089-00	METAL CHIP	47K 5% 1/10W	R183	1-216-089-00	METAL CHIP	47K 5% 1/10W
RD53	1-216-030-00	METAL CHIP	220 5% 1/10W	R184	1-216-089-00	METAL CHIP	47K 5% 1/10W
RD54	1-216-030-00	METAL CHIP	220 5% 1/10W	R185	1-216-075-00	METAL CHIP	12K 5% 1/10W
RD55	1-216-033-00	METAL CHIP	220 5% 1/10W	RA56	1-216-049-00	METAL CHIP	1K 5% 1/10W
R103	1-216-073-00	METAL CHIP	10K 5% 1/10W	P187	1-216-075-00	METAL CHIP	12K 5% 1/10W
R104	1-216-073-00	METAL CHIP	10K 5% 1/10W	R188	1-216-103-00	METAL CHIP	180K 5% 1/10W
R105	1-216-113-00	METAL CHIP	470K 5% 1/10W	R189	1-216-107-00	METAL CHIP	270K 5% 1/10W
R106	1-216-085-00	METAL CHIP	33K 5% 1/10W	R190	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
R107	1-216-085-00	METAL CHIP	33K 5% 1/10W	R191	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R108	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R192	1-216-090-00	METAL CHIP	68K 5% 1/10W
R109	1-216-069-00	METAL CHIP	3.3K 5% 1/10W	R193	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R110	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R194	1-216-295-00	METAL CHIP	0 5% 1/10W
R111	1-216-133-00	METAL CHIP	470K 5% 1/10W	R195	1-216-049-00	METAL CHIP	1K 5% 1/10W
R112	1-216-037-00	METAL CHIP	330 5% 1/10W	R196	1-216-089-00	METAL CHIP	47K 5% 1/10W
R113	1-216-073-00	METAL CHIP	10K 5% 1/10W	R197	1-216-089-00	METAL CHIP	47K 5% 1/10W
R114	1-216-073-00	METAL CHIP	10K 5% 1/10W	R198	1-216-073-00	METAL CHIP	10K 5% 1/10W
R123	1-216-089-00	METAL CHIP	47K 5% 1/10W	R199	1-216-107-00	METAL CHIP	270K 5% 1/10W
R124	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R200	1-216-073-00	METAL CHIP	10K 5% 1/10W
R125	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R201	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R126	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R202	1-216-089-00	METAL CHIP	47K 5% 1/10W
R127	1-216-037-00	METAL CHIP	330 5% 1/10W	R203	1-216-105-00	METAL CHIP	220K 5% 1/10W
R128	1-216-089-00	METAL CHIP	47K 5% 1/10W	R204	1-216-105-00	METAL CHIP	220K 5% 1/10W
R129	1-216-065-00	METAL CHIP	4.7K 5% 1/10W			(VARIABLE RESISTOR)	
R130	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	RV001	1-230-122-00	RES. VAR. CARBON 100K	
R131	1-216-295-00	METAL CHIP	0 5% 1/10W	RV002	1-230-874-11	RES. ADJ. METAL 100K	
R132	1-216-069-00	METAL CHIP	6.8K 5% 1/10W	RV101	1-228-988-00	RES. VAR. CARBON 10K/10K	
R133	1-216-089-00	METAL CHIP	6.8K 5% 1/10W	RV151	1-230-122-00	RES. VAR. CARBON 100K	
R134	1-216-081-00	METAL CHIP	3.3K 5% 1/10W	RV152	1-230-122-00	RES. VAR. CARBON 100K	
R135	1-216-295-00	METAL CHIP	0 5% 1/10W				
R168	1-216-295-00	METAL CHIP	0 5% 1/10W				
R170	1-216-082-00	METAL GLAZE	24K 5% 1/10W				

5-9. MECHANISM CONTROL CHASSIS ASSEMBLY



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	A-7043-189-A	M-SW ASSY		418	3-686-656-01	SLIDER, B RELEASE	
402	A-7043-198-A	COVER CAP ASSY, C MOTOR		419	3-686-755-01	DISK, EJECT	
403	3-308-602-00	WHEEL, NORM		420	3-686-903-01	SPRING, TENSION	
404	3-515-384-31	WASHER, STOPPER		421	3-686-904-01	SPRING, TENSION	
405	X-3711-983-1	BRAKE ASSY, REM		422	3-686-905-02	SPRING, TENSION	
406	#1-630-923-11	FP-206 FLEXIBLE BOARD		423	3-686-906-01	SPRING, TENSION	
407	X-3686-528-4	ARM ASSY, B RELEASE		424	3-686-909-01	GEAR, MODE OUTPUT	
408	X-3711-987-2	BRAKE ASSY, T. 5		425	3-686-980-01	BRAKE (S), HARD	
409	3-699-465-00	WASHER (1, 5), STOPPER		426	3-716-925-01	SLIDER, M	
410	3-686-528-01	SCREW (2x6), #PSW		427	3-710-933-01	SPACER, REM BRAKE	
411	3-686-570-01	SPRING		428	3-714-035-01	SPRING, TENSION	
412	#3-686-580-01	ARM, SET UP		429	3-727-110-01	SPRING, TENSION	
413	3-686-603-04	SPRING		430	3-739-107-01	COVER (M), C MOTOR	
414	#3-686-634-01	ARM, RL		431	X-3686-930-01	ARM (A) ASSY, SELECTION	
415	#3-686-642-01	PLATE, ADJUSTMENT, BAND		M905	8-825-138-01	MOTOR, DC (DMR-53018) (CONTROL)	
416	#3-686-643-01	ARM, MODE		S904	1-572-298-21	SWITCH, PUSH (REC PROOF, MFG. WE/MP)	
417	#3-686-644-01	ARM, BAND					

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

The components identified by mark Δ or dotted line will mark Δ are critical for safety. Replace only with part number specified.

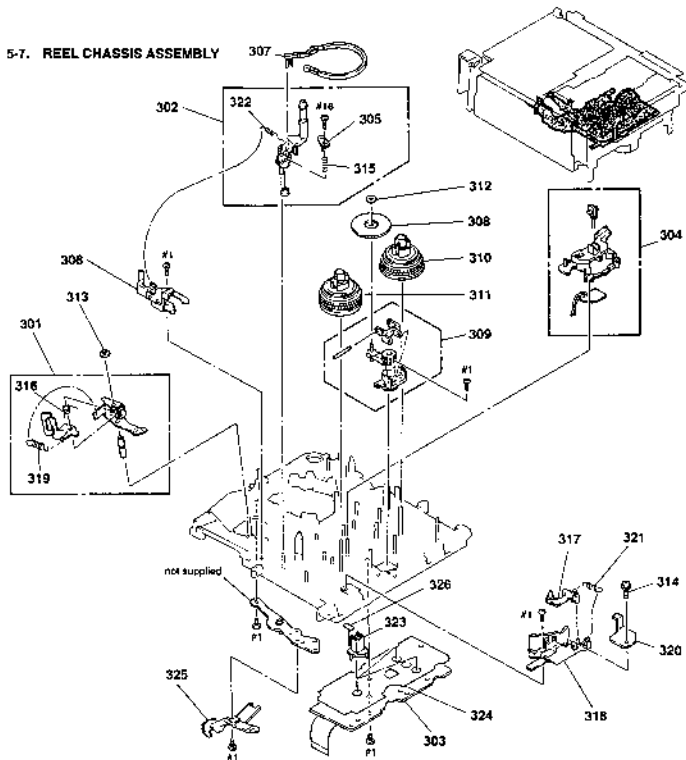
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in this parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- Items marked "X" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, μ : μ ; for example:
 μA , μG , μPA , μPA , μPB , μPC , μPD , μPE , μPF , μPG , μPH .
- CAPACITORS
 μF : μF
- COILS
 μH : μH

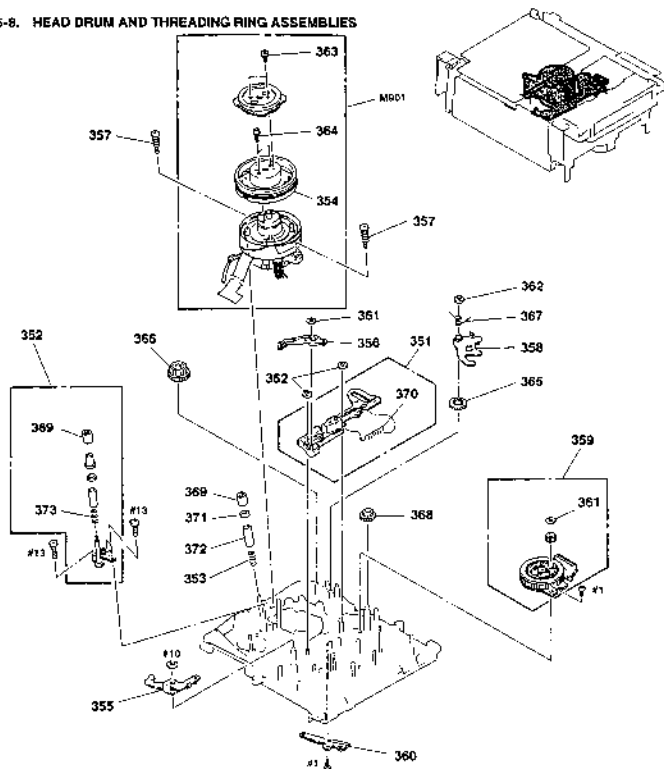
Part No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	# A-7062-654-A	FB-169 (P) BOARD, COMPLETE					
	# 3-689-521-01	HOLDER, LED, ROUND					
	# 3-697-607-01	HOLDER (SU), LED					
	# 3-739-130-01	HOLDER, LEVEL METER					
	# 3-739-131-01	HOLDER (H), LED					
		(CAPACITOR)					
C001	1-163-035-00	CERAMIC CHIP	0.047 μF	50V			
C002	1-135-157-21	TANTALUM CHIP	10 μF	20X	6.3V		
C003	1-163-035-00	CERAMIC CHIP	0.047 μF	50V			
C006	1-163-035-00	CERAMIC CHIP	0.047 μF	50V			
C007	1-163-035-00	CERAMIC CHIP	0.047 μF	50V			
C008	1-163-105-00	CERAMIC CHIP	33PF	5X	50V		
C009	1-163-105-00	CERAMIC CHIP	33PF	5X	50V		
C010	1-163-035-00	CERAMIC CHIP	0.047 μF	50V			
C011	1-163-035-00	CERAMIC CHIP	0.047 μF	50V			
C012	1-163-035-00	CERAMIC CHIP	0.047 μF	50V			
C013	1-163-035-00	CERAMIC CHIP	0.047 μF	50V			
C014	1-135-157-21	TANTALUM CHIP	10 μF	20X	6.3V		
C015	1-163-035-00	CERAMIC CHIP	0.047 μF	50V			
C101	1-163-038-00	CERAMIC CHIP	0.1 μF	25V			
C102	1-163-038-00	CERAMIC CHIP	0.1 μF	25V			
C103	1-135-168-21	TANTALUM CHIP	100 μF	20X	4V		
C104	1-135-164-21	TANTALUM CHIP	22 μF	10X	6.3V		
C105	1-135-168-21	TANTALUM CHIP	100 μF	20X	4V		
C106	1-135-161-21	TANTALUM CHIP	22 μF	10X	6.3V		
C107	1-135-158-21	TANTALUM CHIP	10 μF	10X	16V		
C108	1-135-158-21	TANTALUM CHIP	10 μF	10X	16V		
C111	1-128-369-11	ELECT	220 μF	20X	6.3V		
C112	1-128-369-11	ELECT	220 μF	20X	6.3V		
C113	1-163-125-00	CERAMIC CHIP	220PF	5X	50V		
C114	1-163-125-00	CERAMIC CHIP	220PF	5X	50V		
C159	1-135-159-21	TANTALUM CHIP	10 μF	10X	16V		
C160	1-163-145-00	CERAMIC CHIP	0.0015 μF	5X	50V		
C161	1-163-038-00	CERAMIC CHIP	0.1 μF	25V			
C162	1-135-149-21	TANTALUM CHIP	2.2 μF	20X	10V		
C163	1-135-159-21	TANTALUM CHIP	10 μF	10X	16V		
C164	1-135-070-00	TANTALUM CHIP	0.1 μF	10X	35V		
C165	1-163-038-00	CERAMIC CHIP	0.1 μF	25V			
C166	1-163-038-00	CERAMIC CHIP	0.1 μF	25V			
C167	1-128-160-11	ELECT	1 μF	20X	50V		
C168	1-135-159-21	TANTALUM CHIP	10 μF	10X	16V		
C169	1-135-153-21	TANTALUM CHIP	2.2 μF	10X	20V		
C170	1-135-153-21	TANTALUM CHIP	2.2 μF	10X	20V		
C171	1-135-159-21	TANTALUM CHIP	10 μF	10X	16V		
C172	1-163-038-00	CERAMIC CHIP	0.1 μF	25V			
C173	1-163-014-00	CERAMIC CHIP	0.0027 μF	5X	50V		
C174	1-163-014-00	CERAMIC CHIP	0.0027 μF	5X	50V		
C175	1-163-012-00	CERAMIC CHIP	0.0018 μF	10X	50V		
C176	1-163-129-00	CERAMIC CHIP	330PF	5X	50V		
		(CONNECTOR)					
CN001	1-569-301-11	PIN, CONNECTOR (PC BOARD)		5P			
CN002	1-569-301-11	PIN, CONNECTOR (PC BOARD)		5P			
CN003	1-569-301-11	PIN, CONNECTOR (PC BOARD)		5P			
CN004	1-569-301-11	PIN, CONNECTOR (PC BOARD)		5P			
CN101	1-508-469-11	CONNECTOR 4P, MALE					
		(DIODE)					
D001	8-719-800-76	DIODE 1SS228					
D009	8-719-945-82	DIODE GL94542 (STANDBY)					
D010	8-719-929-05	DIODE TL6123A (POWER)					
D011	8-719-907-92	DIODE GLE5041 (PCN)					
D012	8-719-941-48	DIODE GL5041 (SP)					
D013	8-719-941-46	DIODE GL5041 (LDR)					
D014	8-719-918-96	DIODE TL6123 (JID)					
D015	8-719-812-32	DIODE TL6123 (++)					
D016	8-719-920-05	DIODE TL6123A (D)					
D017	8-719-812-32	DIODE TL6123 (++)					
D018	8-719-939-36	DIODE GL5042 (Δ)					
D019	8-719-812-31	DIODE TL6123 (●)					
D020	8-719-813-69	DIODE LT-9230N (Hx4)					
D024	8-719-906-58	DIODE GLE5041 (TIMER REC)					
D025	8-719-812-31	DIODE TL6123 (AUDIO BOB)					
D026	8-719-812-31	DIODE TL6123 (TC DUB)					
D101	8-719-104-34	DIODE 1S2836					
D102	8-719-104-34	DIODE 1S2836					
D103	1-520-503-41	METER UNIT, LED LEVEL					

5-7. REEL CHASSIS ASSEMBLY



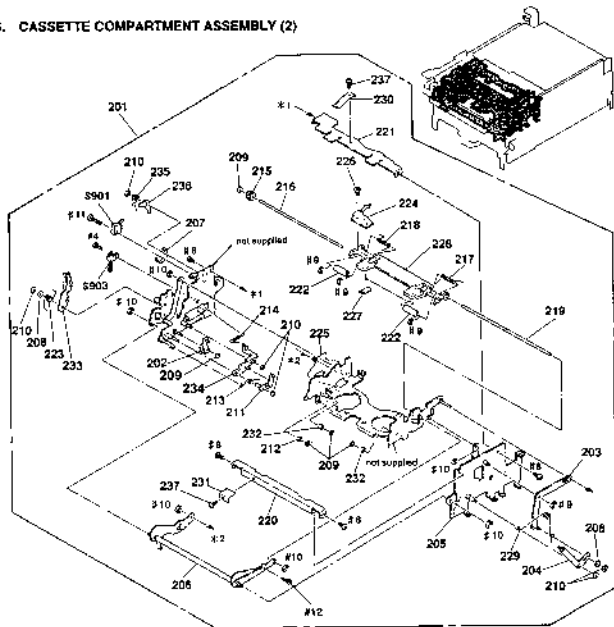
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	A-7040-008-A	ARM ASSY, PINCK PRESS		314	3-689-485-11	+ PTP#1 2	
302	A-7040-071-A	ARM ASSY, TENSION REGULATOR		315	3-689-666-00	SPRING, COMPRESSION	
303	#A-7061-818-A	PS-31 BOARD, COMPLETE		316	3-686-568-01	SPRING, TENSION	
304	#A-7070-024-A	LD-1 BOARD, COMPLETE		317	#3-688-637-01	BRAKE (S), SOFT	
305	#X-3688-523-1	PLATE ASSY, TENSION REGULATOR		318	#3-688-760-01	GUIDE, BAND	
306	#X-3688-525-1	HROCK ASSY, SPRING		319	3-686-885-01	SPRING, TENSION	
307	X-3688-531-1	BAND ASSY, TENSION REGULATOR		320	#3-686-991-01	STOPPER, REEL TABLE	
308	X-3688-763-1	GEAR (B) ASSY, DRIVING		321	3-714-014-01	SPRING, TENSION	
309	X-3711-963-1	DRIVING COMPLETE ASSY		322	3-699-519-01	SPRING, TENSION	
310	X-3711-998-1	TABLE ASSY, REEL, TAKE-UP		323	3-712-410-01	HOLDER, RS	
311	X-3713-427-1	TABLE ASSY, REEL, S		324	3-712-411-01	INSULATOR, RS	
312	3-315-384-31	WASHER, STOPPER		325	3-712-406-01	CLAMP, WIRE	
313	3-689-465-00	WASHER (O. 5), STOPPER		326	3-722-175-01	SPACER, WD	

5-8. HEAD DRUM AND THREADING RING ASSEMBLIES



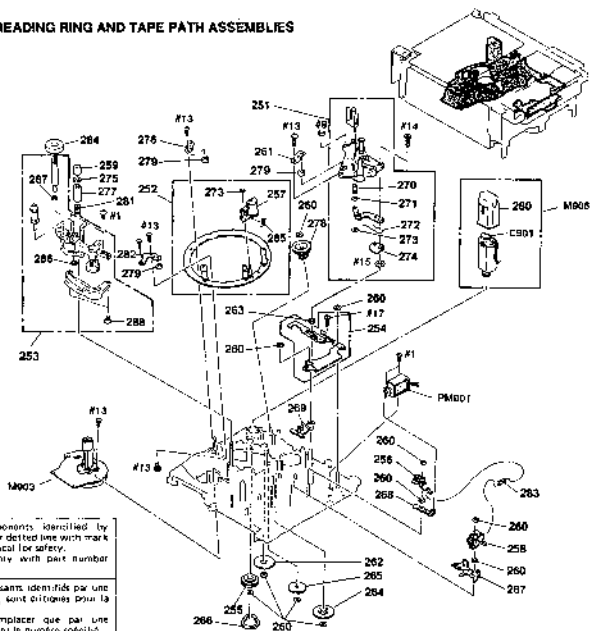
Part No.	Part No.	Description	Remark	Part No.	Description	Remark
351	XA-7040-010-A	SLIDER ASSY, L		363	3-686-422-01	WASHER (2X2.7), BOLT HOLE
352	X-7040-050-A	GUIDE BLOCK COMPLETE ASSY, #5		364	3-686-493-01	SCREW (M2X5), PM
353	3-699-609-01	SPRING, COMPRESSION		365	3-686-535-01	GEAR, NO. 6
354	X-7049-138-A	DRUM ASSY, ROTARY DRESS (DGR-35-R)		366	3-686-539-01	GEAR, NO. 9
355	XK-3866-509-1	LEVER ASSY, PINCH PRESS		367	3-686-540-01	SPRING, TORSION
356	XK-3866-518-3	ARM ASSY		368	3-686-702-01	GEAR, DRIVING GUIDE, SLANT
357	X-388R-669-1	SCREW ASSY, FITTING		369	3-686-724-01	ROF, GUIDE
358	X-3866-579-1	CHANGE ASSY, DRIVE		370	3-686-806-01	SPRING, TENSION
359	X-3712-403-1	L-SM ASSY (LS-9 BOARD)		371	3-686-894-01	FLANGE, #3 #4 GUIDE
360	I-535-635-11	TERMINAL, SHAFT GROUND		372	3-686-912-01	GUIDE, #3 #4
361	3-315-334-31	WASHER, STOPPER		373	3-699-514-01	SPRING, COMPRESSION
362	3-689-465-00	WASHER (1.5), STOPPER		M901	X-7049-261-A	DRUM ASSY (DGR-35A-R)

5-5. CASSETTE COMPARTMENT ASSEMBLY (2)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
204	A-7090-845-A	CASSETTE COMPARTMENT BLOCK ASSY		221	43-713-462-03	STOPPER, HOLDER	
202	X-2686-541-1	CLAW, LOCK		222	3-713-466-01	ROLLER	
203	X-3711-930-0	LEVER ASSY, HOLDER		223	3-713-486-01	SPRINT (2), TORSION	
204	X-3711-931-4	LEVER ASSY, DOOR		224	3-724-912-01	PLATE, FUNCTION, LEVER	
205	X-3711-952-1	PLATE (R) ASSY, SIDE		225	3-713-620-01	SPRING (1), TORSION	
206	X-3711-937-1	JOINT ASSY		226	3-713-622-01	SCREW (M3X4), TAPPING, O	
207	X-337-402-01	BAND, BINDING		227	3-713-625-04	SHOE, BRAKE	
208	3-533-073-01	WASHER		228	3-713-626-04	COVER, MULTI	
209	3-576-285-11	WASHER, STOPPER		229	3-713-628-04	SPRING, TORSION	
210	3-686-465-00	WASHER (1.5), STOPPER		230	3-713-658-01	SPRING	
211	3-686-692-01	PREVENTIONAL SLIDER		231	3-716-921-01	SPRING, LEAF	
212	43-686-693-01	ROLLER, LOCK		232	3-719-590-01	ROLLER, ASSIST	
213	3-686-694-01	SPRING, TORSION		233	3-721-425-01	LEVER, LOCK	
214	3-686-047-01	SPRING, TENSION		234	3-721-138-01	SLIDE, LOCK	
215	3-713-429-01	GEAR (D)		235	3-721-163-01	SPRING	
216	43-713-440-01	SHAFT, ROLLER		236	3-721-166-01	LEVER, SWITCH	
217	3-713-442-01	SPRING (RIGHT)		237	3-739-116-01	SCREW (2X3), -PS	
218	3-713-445-01	SPRING (LEFT)		S901	1-576-407-11	SWITCH, SLIDE (CASSETTE LOADING)	
219	43-713-451-04	SHAFT, JOINT		S903	1-553-226-00	SWITCH, LEAF (CASSETTE LOCK)	
220	43-713-458-03	REINFORCEMENT					

5-6. THREADING RING AND TAPE PATH ASSEMBLIES

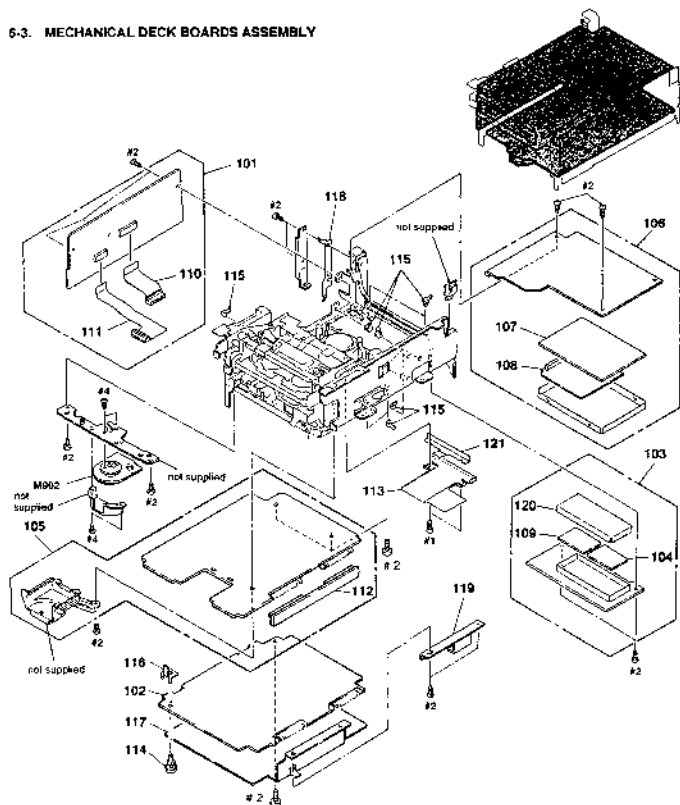


The components identified by mark (A) or dotted line with mark (B) are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque (A) sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

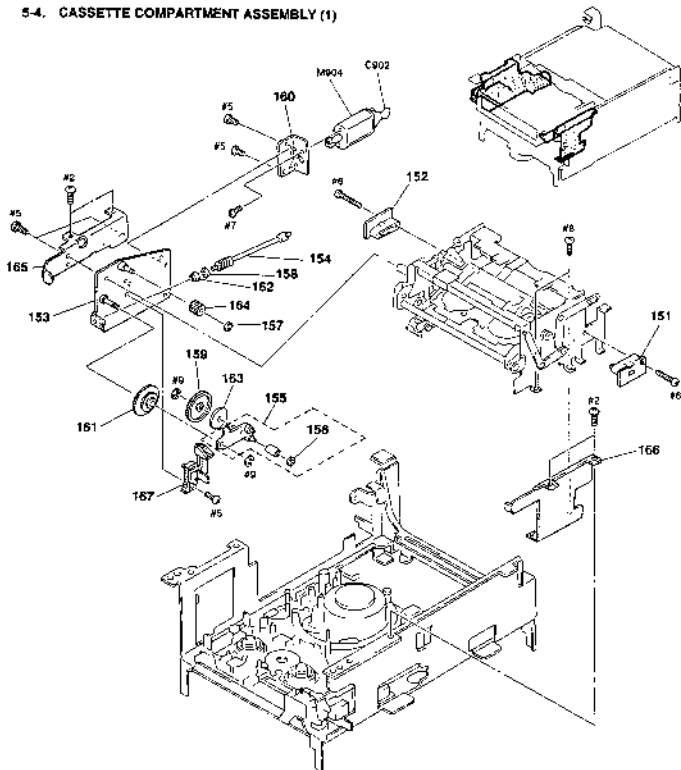
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	A-7040-001-A	GUIDE BLOCK ASSY, SLANT		272	3-686-701-01	SPRING	
252	A-7040-123-A	RING ASSY, THREADING		273	3-315-384-31	WASHER, STOPPER	
253	A-7040-188-D	GUIDE (P) ASSY, ENTRANCE		274	3-699-599-01	GEAR, SECTOR	
254	A-7040-199-A	SLIDER (M) BLOCK ASSY, LOCK		275	3-686-894-01	FLANGE, #3 #4 GUIDE	
255	X-3686-514-1	GEAR ASSY, NO. 1		276	3-686-911-01	PLATE, TOP, ROLLER	
256	X-3686-574-1	BRAKE ASSY, MAIN, TAKE-UP		277	3-686-912-01	GUIDE, #3 #4	
257	X-3686-576-1	ARM ASSY, PINCH ROLLER		278	3-697-518-01	GEAR, NO. 10	
258	X-3713-429-1	BRAKE ASSY, MAIN, S		279	3-697-538-01	ROLLER, RING	
259	3-686-724-01	MUT. GUIDE		280	3-686-757-01	CAP, SHIELD, L MOTOR	
260	3-689-465-09	WASHER (1, S), STOPPER		281	3-686-689-01	SPRING, COMPRESSION	
261	3-686-503-01	RETAINER, ROLLER		282	3-686-675-01	STOPPER, RING	
262	3-686-508-01	GEAR, NO. 2		283	3-713-580-01	SPRING, TENSION	
263	3-686-537-01	RETAINER, LOCK SLIDER		284	3-722-153-01	FLYWHEEL	
264	3-686-544-01	GEAR, NO. 4		285	3-726-704-01	SPRING, TORSION	
265	3-686-545-01	GEAR, NO. 3		286	3-315-414-00	WASHER	
266	3-686-546-01	GELT, L-MOTOR		287	3-578-254-00	RING, RETAINING, E1, 2	
267	3-686-629-04	SLIDER, SELECTION, UPPER & LOWER		288	3-316-830-31	SCREW (B1, #24), TAPPING	
268	3-686-835-04	ARM, P		289	1-161-057-00	CERAMIC, 0.033UF 10% 50V	
269	3-686-636-04	ARM, T, S RELEASE		4903	8-835-364-01	MOTOR, DC BHF-20026 (CAPSTANG)	
270	3-686-663-04	WASHER, STOPPER, 2 GANG		M906	A-7040-065-A	MOTOR ASSY, L (LOADING)	
271	3-701-436-21	WASHER, POLYETHYLENE		M901	1-454-377-21	SOLENOID, PLUNGER	

6-3. MECHANICAL DECK BOARDS ASSEMBLY



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	4A-7061-819-A	MD-23 BOARD, COMPLETE		112	4A-7070-955-A	IG-8 BOARD, COMPLETE	
102	4A-7061-820-A	HK-4 BOARD, COMPLETE		113	4X-3749-135-1	COVER BLOCK ASSY, FLEXIBLE	
103	4A-7061-821-A	FR-40 BOARD, COMPLETE		114	3-531-576-01	RIVET	
104	4A-7061-822-A	PP-73 (SP) BOARD, COMPLETE		115	43-671-750-11	CLAMP	
105	4A-7061-823-A	SE-10 BOARD, COMPLETE		116	43-724-107-01	RETAINER, PC BOARD	
106	4A-7062-585-A	MB-19 BOARD, COMPLETE		117	43-840-848-01	PLATE, SHIELD, CORE	
107	4A-7062-586-A	PD-19 BOARD, COMPLETE		118	43-724-199-01	PLATE, SUPPORT, MB	
108	4A-7061-826-A	PA-27 BOARD, COMPLETE		119	43-738-954-01	STOPPER, MC	
109	4A-7061-827-A	PP-73 (LP) BOARD, COMPLETE		120	43-739-102-01	LID (R), UPPER, FR SHIELD CASE	
110	4A-7070-624-A	FP-84 BOARD, COMPLETE		121	3-724-706-01	PLATE, GUARD, FLEXIBLE	
111	4A-7070-625-A	FP-122 BOARD, COMPLETE		M902	B-835-304-11	MOTOR, DC U-11B (REEL)	

5-4. CASSETTE COMPARTMENT ASSEMBLY (1)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	44-7070-027-X	TS-74 (RIGHT) BOARD, COMPLETE		161	3-713-433-01	GEAR (A)	
152	44-7070-028-A	TS-74 (LEFT) BOARD, COMPLETE		162	3-713-439-01	BEARING	
153	45-3711-934-1	PLATE SUB ASSY, BLOCK		163	3-713-441-01	SPRING LEAF	
154	3-3711-935-3	SHAFT ASSY, NORM		164	3-713-452-01	GEAR (C)	
155	3-3714-193-1	LEVER ASSY (B), GEAR		165	3-724-140-04	BRACKET (LEFT)	
156	3-315-414-31	WASHER		166	3-724-141-04	BRACKET (RIGHT)	
157	3-660-465-00	WASHER (# 5), STOPPER		167	3-124-913-02	RACK	
158	3-701-437-14	WASHER		C902	1-161-057-00	CERAMIC	0.033uF 1X 50V
159	3-713-430-04	GEAR (B)		M904	3-3711-936-1	MOTOR ASSY, FL (CASSETTE LOADING)	
160	43-713-431-01	BRACKET, MOTOR					



SECTION 5


EXPLODED VIEWS

NOTE:

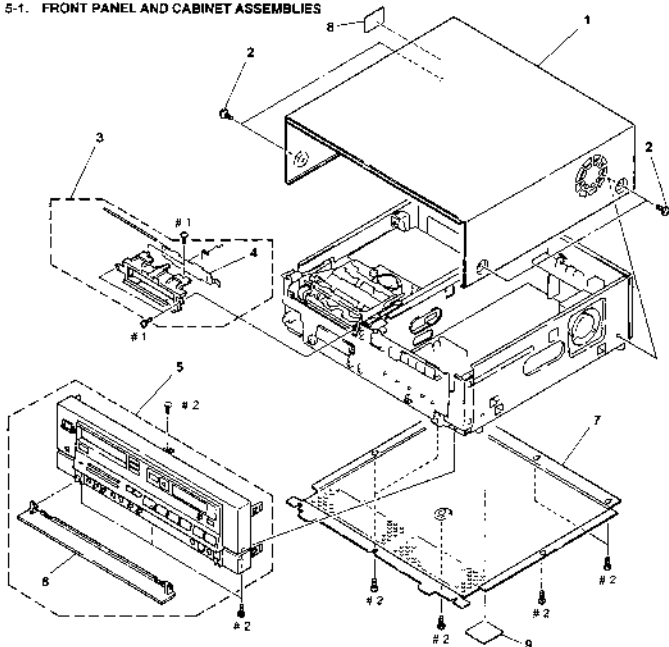
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collar number in the remark column.

- Items marked * * * are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (if mark) list is given in the last of this parts list.

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. FRONT PANEL AND CABINET ASSEMBLIES

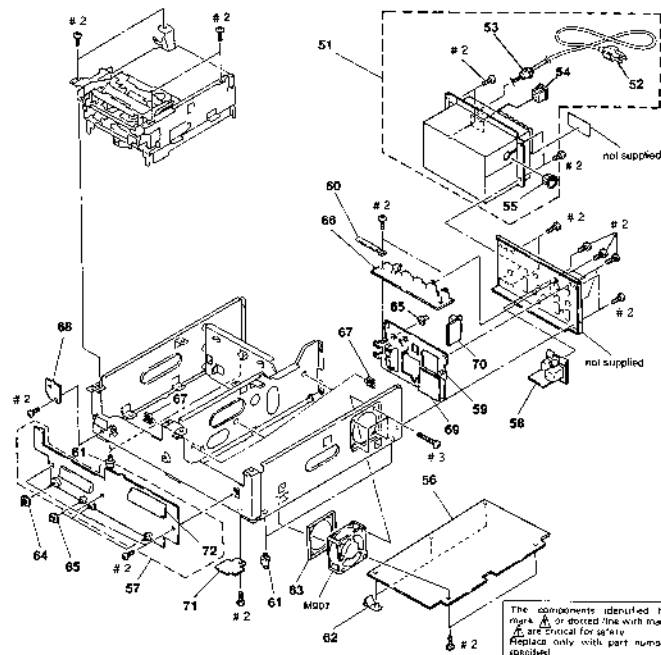


Ref. No.	Part No.	Description
1	*3-724-167-01	CASE, UPPER
2	4 886-821-31	SCREW, M3 CASE
3	*X-3738-805-1	WINDOW ASSY
4	*3-721-101-71	DOOR
5	X-3940-639-1	PANEL ASSY, FRONT

Remark	Ref. No.	Part No.	Description
	6	X-3940-638-1	DOOR ASSY
	7	*3-724-168-01	PLATE, BOTTOM
	8	3 703-849-01	LABEL (NO. 21/C), MAIN CAUTION
	9	3-703-848-01	LABEL (NO.), SUB CAUTION

Remark

5-2. PC BOARDS AND POWER SUPPLY ASSEMBLIES



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	1-413-519-11	POWER BLOCK		62	*3-696-448-01	HINGE, SS	
52	A-634-547-01	CORD, POWER (10A 125V)		63	*3-697-998-01	BRACKET, FAN	
53	9-995-205-01	BUSHING, LDRD		64	3-124-112-01	KNOB, PHONE	
54	1-526-320-12	OUTLET, AC (15A 125V)		65	3-124-113-01	KNOB, ADJUST	
55	9-958-728-01	BUSHING		66	*1-633-700-11	TR-40 BOARD	
56	*A-7062-009-A	IF-20 BOARD, COMPLETE		67	*A-314-320-00	HOLDER, WIRE	
57	*A-7082-054-A	FB-169 (P) BOARD, COMPLETE		68	*1-633-695-11	HE-2 BOARD	
58	*1-536-977-11	TERMINAL BOARD UNIT, CONTROL (CONTROL P)		69	*1-633-696-11	JB-4 BOARD	
59	1-537-137-41	TERMINAL BOARD (J501 VIDEO IN, J502 VIDEO OUT, J503 AUDIO IN, J504 AUDIO OUT)		70	*1-633-697-11	JB-5 BOARD	
60	*3-101-822-06	HOLDER, WIRE		71	*1-633-698-11	WJ-5 BOARD	
61	3-684-479-01	POUT		72	*1-633-599-11	TC-20 BOARD	
				M607	1-541-360-21	MOTOR, DC BRUSHLESS FAN	

Rel. No.	Part No.	Description	Remark	Rel. No.	Part No.	Description	Remark
Q213	8-729-100-66	TRANSISTOR 2SC1623		Q431	8-729-100-66	TRANSISTOR 2SC1623	
Q214	8-729-100-66	TRANSISTOR 2SC1623		Q412	8-729-100-66	TRANSISTOR 2SC1623	
Q215	8-729-100-66	TRANSISTOR 2SC1623		Q413	8-729-100-66	TRANSISTOR 2SC1623	
Q216	8-729-100-66	TRANSISTOR 2SC1623		Q414	8-729-100-66	TRANSISTOR 2SC1623	
Q217	8-729-100-66	TRANSISTOR 2SC1623		Q501	8-729-100-66	TRANSISTOR 2SC1623	
Q220	8-729-100-66	TRANSISTOR 2SC1623		Q502	8-729-100-66	TRANSISTOR 2SC1623	
Q221	8-729-100-66	TRANSISTOR 2SC1623		Q503	8-729-901-06	TRANSISTOR DTA144EK	
Q222	8-729-100-66	TRANSISTOR 2SC1623		Q504	8-729-100-66	TRANSISTOR 2SC1623	
Q223	8-729-100-66	TRANSISTOR 2SC1623		Q505	8-729-100-66	TRANSISTOR 2SC1623	
Q224	8-729-100-66	TRANSISTOR 2SC1623		Q506	8-729-100-66	TRANSISTOR 2SC1623	
Q225	8-729-100-66	TRANSISTOR 2SC1623		Q507	8-729-901-06	TRANSISTOR DTA144EK	
Q226	8-729-320-17	TRANSISTOR 2SA1122C3		Q508	8-729-100-66	TRANSISTOR 2SC1623	
Q227	8-729-100-66	TRANSISTOR 2SC1623		Q509	8-729-100-66	TRANSISTOR 2SC1623	
Q228	8-729-100-66	TRANSISTOR 2SC1623		Q510	8-729-100-66	TRANSISTOR 2SC1623	
Q229	8-729-100-66	TRANSISTOR 2SC1623		Q511	8-729-100-66	TRANSISTOR 2SC1623	
Q230	8-729-100-66	TRANSISTOR 2SC1623		Q512	8-729-100-66	TRANSISTOR 2SC1623	
Q231	8-729-100-66	TRANSISTOR 2SC1623		Q513	8-729-100-66	TRANSISTOR 2SC1623	
Q233	8-729-100-66	TRANSISTOR 2SC1623		Q514	8-729-100-66	TRANSISTOR 2SC1623	
Q234	8-729-100-66	TRANSISTOR 2SC1623		Q515	8-729-100-66	TRANSISTOR 2SC1623	
Q230	8-729-100-66	TRANSISTOR 2SC1623		Q516	8-729-100-66	TRANSISTOR 2SC1623	
Q251	8-729-100-66	TRANSISTOR 2SC1623		Q517	8-729-901-06	TRANSISTOR DTA144EK	
Q252	8-729-100-66	TRANSISTOR 2SC1623		Q518	8-729-100-66	TRANSISTOR 2SC1623	
Q333	8-729-100-66	TRANSISTOR 2SC1623		Q519	8-729-100-66	TRANSISTOR 2SC1623	
Q334	8-729-100-66	TRANSISTOR 2SC1623		Q520	8-729-901-06	TRANSISTOR DTA144EK	
Q335	8-729-100-66	TRANSISTOR 2SC1623		Q521	8-729-901-06	TRANSISTOR DTA144EK	
Q336	8-729-100-66	TRANSISTOR 2SC1623		Q601	8-729-100-66	TRANSISTOR 2SC1623	
Q337	8-729-100-66	TRANSISTOR 2SC1623		Q602	8-729-901-01	TRANSISTOR DTC144EK	
Q338	8-729-100-66	TRANSISTOR 2SC1623		Q603	8-729-100-66	TRANSISTOR 2SC1623	
Q339	8-729-100-66	TRANSISTOR 2SC1623		Q604	8-729-100-66	TRANSISTOR 2SC1623	
Q340	8-729-100-66	TRANSISTOR 2SC1623		Q605	8-729-100-66	TRANSISTOR 2SC1623	
Q341	8-729-100-66	TRANSISTOR 2SC1623		Q606	8-729-100-66	TRANSISTOR 2SC1623	
Q342	8-729-100-66	TRANSISTOR 2SC1623		Q607	8-729-100-66	TRANSISTOR 2SC1623	
Q401	8-729-100-66	TRANSISTOR 2SC1623		Q608	8-729-100-66	TRANSISTOR 2SC1623	
Q402	8-729-100-66	TRANSISTOR 2SC1623		Q609	8-729-100-66	TRANSISTOR 2SC1623	
Q403	8-729-100-66	TRANSISTOR 2SC1623		Q610	8-729-100-66	TRANSISTOR 2SC1623	
Q404	8-729-100-66	TRANSISTOR 2SC1623		Q611	8-729-100-66	TRANSISTOR 2SC1623	
Q405	8-729-100-66	TRANSISTOR 2SC1623		Q612	8-729-901-06	TRANSISTOR DTA144EK	
Q406	8-729-100-66	TRANSISTOR 2SC1623		Q613	8-729-901-01	TRANSISTOR DTC144EK	
Q407	8-729-100-66	TRANSISTOR 2SC1623		Q614	8-729-901-01	TRANSISTOR DTC144EK	
Q408	8-729-100-66	TRANSISTOR 2SC1623		Q615	8-729-901-06	TRANSISTOR DTA144EK	
Q409	8-729-100-66	TRANSISTOR 2SC1623		Q616	8-729-901-06	TRANSISTOR DTA144EK	
Q410	8-729-100-66	TRANSISTOR 2SC1623		Q701	8-729-100-66	TRANSISTOR 2SC1623	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
L214	1-408-979-21	INDUCTOR 56uH		0052	8-729-202-38	TRANSISTOR 25C3326N	
L215	1-408-979-21	INDUCTOR 56uH		0053	8-729-202-38	TRANSISTOR 25C3326N	
L332	1-408-979-21	INDUCTOR 56uH		0054	8-729-202-38	TRANSISTOR 25C3326N	
L334	1-408-979-21	INDUCTOR 56uH		0055	8-729-202-38	TRANSISTOR 25C3326N	
L335	1-408-975-21	INDUCTOR 27uH		0056	8-729-202-38	TRANSISTOR 25C3326N	
L402	1-408-979-21	INDUCTOR 56uH		0057	8-729-202-38	TRANSISTOR 25C3326N	
L403	1-408-979-21	INDUCTOR 56uH		0060	8-729-104-01	TRANSISTOR 25B796	
L501	1-408-962-21	INDUCTOR 2.2uH		0061	8-729-901-01	TRANSISTOR DT144EK	
L502	1-408-962-21	INDUCTOR 2.2uH		0185	8-729-905-06	TRANSISTOR DT144EK	
L503	1-408-962-21	INDUCTOR 2.2uH		0166	8-729-901-01	TRANSISTOR DT144EK	
L505	1-408-979-21	INDUCTOR 56uH		0187	8-729-100-86	TRANSISTOR 25C1623	
L506	1-408-979-21	INDUCTOR 56uH		0168	8-729-901-06	TRANSISTOR DT144EK	
L601	1-408-989-21	INDUCTOR 470uH		0189	8-729-901-06	TRANSISTOR DT144EK	
L602	1-408-979-21	INDUCTOR 56uH		0170	8-729-901-06	TRANSISTOR DT144EK	
L603	1-410-071-11	INDUCTOR 10uH		0171	8-729-901-06	TRANSISTOR DT144EK	
L701	1-408-979-21	INDUCTOR 56uH		0172	8-729-100-66	TRANSISTOR 25C1823	
L702	1-408-979-21	INDUCTOR 56uH		0174	8-729-901-06	TRANSISTOR DT144EK	
L705	1-408-964-21	INDUCTOR 3.3uH		0175	8-729-901-06	TRANSISTOR DT144EK	
L706	1-408-979-21	INDUCTOR 56uH		0176	8-729-901-06	TRANSISTOR DT144EK	
L707	1-408-964-21	INDUCTOR 3.3uH		0177	8-729-901-06	TRANSISTOR DT144EK	
L709	1-408-979-21	INDUCTOR 56uH		0178	8-729-901-01	TRANSISTOR DTC144EK	
L709	1-408-979-21	INDUCTOR 56uH		0179	8-729-901-06	TRANSISTOR DT144EK	
L801	1-408-979-21	INDUCTOR 56uH		0180	8-729-901-01	TRANSISTOR DTC144EK	
L802	1-408-979-21	INDUCTOR 56uH		0181	8-729-901-01	TRANSISTOR DTC144EK	
		(COIL VARIABLE)		0182	8-729-216-22	TRANSISTOR 25A1162	
				0183	8-729-901-01	TRANSISTOR DTC144EK	
LY201	1-408-520-00	COIL, VARIABLE 15uH		0184	8-729-901-01	TRANSISTOR DTC144EK	
LY202	1-408-520-00	COIL, VARIABLE 15uH		0186	8-729-901-06	TRANSISTOR DT144EK	
		(TRANSISTOR)		0185	8-729-901-06	TRANSISTOR DT144EK	
0001	8-729-202-38	TRANSISTOR 25C3326N		0190	8-729-216-22	TRANSISTOR 25A1162	
0002	8-729-202-38	TRANSISTOR 25C3326N		0201	8-729-100-66	TRANSISTOR 25C1623	
0003	8-729-202-38	TRANSISTOR 25C3326N		0202	8-729-100-66	TRANSISTOR 25C1623	
0004	8-729-202-38	TRANSISTOR 25C3326N		0203	8-729-100-66	TRANSISTOR 25C1623	
0005	8-729-202-38	TRANSISTOR 25C3326N		0204	8-729-320-17	TRANSISTOR 25A1122CD	
0006	8-729-202-38	TRANSISTOR 25C3326N		0205	8-729-100-66	TRANSISTOR 25C1623	
0007	8-729-202-38	TRANSISTOR 25C3326N		0206	8-729-100-66	TRANSISTOR 25C1623	
0008	8-729-202-38	TRANSISTOR 25C3326N		0207	8-729-100-66	TRANSISTOR 25C1623	
0010	8-729-140-75	TRANSISTOR 25D999		0208	8-729-320-17	TRANSISTOR 25A1122CD	
0011	8-729-901-06	TRANSISTOR DT144EK		0209	8-729-320-17	TRANSISTOR 25A1122CD	
0051	8-729-202-38	TRANSISTOR 25C3326N		0210	8-729-320-17	TRANSISTOR 25A1122CD	
				0211	8-729-320-17	TRANSISTOR 25A1122CD	
				0212	8-729-100-66	TRANSISTOR 25C1623	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R077	1-216-089-00	METAL CHIP	47K 5% 1/10W	R140	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R078	1-216-073-00	METAL CHIP	10K 5% 1/10W	R141	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R079	1-216-073-00	METAL CHIP	10K 5% 1/10W	R142	1-216-083-00	METAL CHIP	68K 5% 1/10W
R080	1-216-095-00	METAL CHIP	82K 5% 1/10W	R143	1-216-295-00	METAL CHIP	0 5% 1/10W
R081	1-216-073-00	METAL CHIP	10K 5% 1/10W	R145	1-216-049-00	METAL CHIP	1K 5% 1/10W
R082	1-216-091-00	METAL CHIP	58K 5% 1/10W	R146	1-216-089-00	METAL CHIP	47K 5% 1/10W
R083	1-216-049-00	METAL CHIP	1K 5% 1/10W	R148	1-216-087-00	METAL CHIP	5.6K 5% 1/10W
R084	1-216-084-00	METAL GLAZE	75K 5% 1/10W	R149	1-216-077-00	METAL CHIP	15K 5% 1/10W
R085	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R150	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R086	1-216-093-00	METAL CHIP	68K 5% 1/10W	R151	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R088	1-216-049-00	METAL CHIP	1K 5% 1/10W	R152	1-216-089-00	METAL CHIP	47K 5% 1/10W
R089	1-216-073-00	METAL CHIP	10K 5% 1/10W	R153	1-216-073-00	METAL CHIP	10K 5% 1/10W
R090	1-216-085-00	METAL CHIP	4.7K 5% 1/10W	R155	1-216-079-00	METAL CHIP	18K 5% 1/10W
R096	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R158	1-216-067-00	METAL CHIP	5.6K 5% 1/10W
R092	1-216-113-00	METAL CHIP	470K 5% 1/10W	R157	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R093	1-216-091-00	METAL CHIP	58K 5% 1/10W	R160	1-216-295-00	METAL CHIP	0 5% 1/10W
R094	1-216-091-00	METAL CHIP	58K 5% 1/10W	R165	1-216-049-00	METAL CHIP	1K 5% 1/10W
R095	1-216-083-00	METAL CHIP	27K 5% 1/10W	R166	1-216-048-00	METAL CHIP	1K 5% 1/10W
R104	1-216-097-00	METAL CHIP	100K 5% 1/10W	R167	1-216-097-00	METAL CHIP	100K 5% 1/10W
R106	1-216-295-00	METAL CHIP	0 5% 1/10W	R168	1-216-097-00	METAL CHIP	100K 5% 1/10W
R108	1-216-085-00	METAL CHIP	47K 5% 1/10W	R169	1-216-073-00	METAL CHIP	10K 5% 1/10W
R110	1-216-081-00	METAL CHIP	3.3K 5% 1/10W	R170	1-216-025-00	METAL CHIP	100 5% 1/10W
R111	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R171	1-216-089-00	METAL CHIP	47K 5% 1/10W
R112	1-216-093-00	METAL CHIP	68K 5% 1/10W	R172	1-216-097-00	METAL CHIP	100K 5% 1/10W
R113	1-216-295-00	METAL CHIP	0 5% 1/10W	R173	1-216-089-00	METAL CHIP	47K 5% 1/10W
R115	1-216-049-00	METAL CHIP	1K 5% 1/10W	R174	1-216-049-00	METAL CHIP	1K 5% 1/10W
R116	1-216-089-00	METAL CHIP	47K 5% 1/10W	R175	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R118	1-216-087-00	METAL CHIP	5.6K 5% 1/10W	R176	1-216-085-00	METAL CHIP	4.7K 5% 1/10W
R119	1-216-077-00	METAL CHIP	15K 5% 1/10W	R177	1-216-073-00	METAL CHIP	10K 5% 1/10W
R120	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	R178	1-216-073-00	METAL CHIP	10K 5% 1/10W
R121	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R179	1-216-073-00	METAL CHIP	10K 5% 1/10W
R122	1-216-089-00	METAL CHIP	47K 5% 1/10W	R180	1-216-073-00	METAL CHIP	10K 5% 1/10W
R123	1-216-073-00	METAL CHIP	10K 5% 1/10W	R181	1-216-105-00	METAL CHIP	220K 5% 1/10W
R125	1-216-079-00	METAL CHIP	18K 5% 1/10W	R182	1-216-105-00	METAL CHIP	220K 5% 1/10W
R126	1-216-067-00	METAL CHIP	5.6K 5% 1/10W	R183	1-216-073-00	METAL CHIP	10K 5% 1/10W
R127	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R184	1-216-083-00	METAL CHIP	27K 5% 1/10W
R128	1-216-089-00	METAL CHIP	47K 5% 1/10W	R185	1-216-105-00	METAL CHIP	220K 5% 1/10W
R129	1-216-113-00	METAL CHIP	470K 5% 1/10W	R186	1-216-105-00	METAL CHIP	220K 5% 1/10W
R130	1-216-295-00	METAL CHIP	0 5% 1/10W	R187	1-216-073-00	METAL CHIP	10K 5% 1/10W
R134	1-216-049-00	METAL CHIP	1K 5% 1/10W	R188	1-216-073-00	METAL CHIP	10K 5% 1/10W
R136	1-216-295-00	METAL CHIP	0 5% 1/10W	R189	1-216-089-00	METAL CHIP	47K 5% 1/10W
R139	1-216-089-00	METAL CHIP	47K 5% 1/10W	R190	1-216-089-00	METAL CHIP	47K 5% 1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
0702	8-729-100-66	TRANSISTOR 2SC1623		R005	1-216-748-11	METAL CHIP 38K 5X 1/10W	
0703	8-729-202-38	TRANSISTOR 2SC3326M		R018	1-216-049 00	METAL CHIP 1K 5X 1/10W	
0704	8-729-100-66	TRANSISTOR 2SC1623		R019	1-216-089-00	METAL CHIP 47K 5X 1/10W	
0705	8-729-100-66	TRANSISTOR 2SC1623		R020	1-216-079-00	METAL CHIP 18K 5X 1/10W	
0706	8-729-100-66	TRANSISTOR 2SC1623		R021	1 216 086 00	METAL GLAZE 36K 5X 1/10W	
0707	8-729-100-66	TRANSISTOR 2SC1623		R022	1-216-063-00	METAL CHIP 27K 5X 1/10W	
0708	8-729-100-66	TRANSISTOR 2SC1623		R023	1-216-073-00	METAL CHIP 10K 5X 1/10W	
0709	8-729-100-66	TRANSISTOR 2SC1623		R024	1-216-061-00	METAL CHIP 3.3K 5X 1/10W	
0710	8-729-100-66	TRANSISTOR 2SC1623		R025	1-216-295-00	METAL CHIP 0 5X 1/10W	
0711	8-729-100-66	TRANSISTOR 2SC1623		R026	1-216-071-00	METAL CHIP 8.2K 5X 1/10W	
0712	8-729-100-66	TRANSISTOR 2SC1623		R027	1-216-089-00	METAL CHIP 47K 5X 1/10W	
0713	8-729-100-66	TRANSISTOR 2SC1623		R028	1-216-073-00	METAL CHIP 10K 5X 1/10W	
0714	8-729-100-66	TRANSISTOR 2SC1623		R029	1-216-073-00	METAL CHIP 10K 5X 1/10W	
0715	8-729-100-66	TRANSISTOR 2SC1623		R030	1-216-095-00	METAL CHIP 82K 5X 1/10W	
0716	8-729-100-66	TRANSISTOR 2SC1623		R031	1-216-073-00	METAL CHIP 10K 5X 1/10W	
0717	8-729-100-66	TRANSISTOR 2SC1623		R032	1-216-091-00	METAL CHIP 56K 5X 1/10W	
0718	8-729-100-66	TRANSISTOR 2SC1623		R033	1-216-049-00	METAL CHIP 1K 5X 1/10W	
0719	8-729-100-66	TRANSISTOR 2SC1623		R034	1-216-094-00	METAL GLAZE 75K 5X 1/10W	
0720	8-729-100-66	TRANSISTOR 2SC1623		R035	1-216-057-00	METAL CHIP 2.2K 5X 1/10W	
0721	8-729-320-17	TRANSISTOR 2SA1122CD		R036	1-216-093-00	METAL CHIP 68K 5X 1/10W	
0722	8-729-100-66	TRANSISTOR 2SC1623		R038	1-216-049-00	METAL CHIP 1K 5X 1/10W	
0723	8-729-100-66	TRANSISTOR 2SC1623		R039	1-216-073-00	METAL CHIP 10K 5X 1/10W	
0724	8-729-100-66	TRANSISTOR 2SC1623		R040	1-216-065-00	METAL CHIP 4.7K 5X 1/10W	
0725	8-729-100-66	TRANSISTOR 2SC1623		R041	1-216-065-00	METAL CHIP 4.7K 5X 1/10W	
0726	8-729-100-66	TRANSISTOR 2SC1623		R042	1-216-113 00	METAL CHIP 470K 5X 1/10W	
0727	8-729-216-22	TRANSISTOR 2SA1162		R043	1-216-075-00	METAL CHIP 12K 5X 1/10W	
0901	8-729-901-01	TRANSISTOR DTC144EK		R044	1-216-059-00	METAL CHIP 2.7K 5X 1/10W	
0902	8-729-901-01	TRANSISTOR DTC144EK		R045	1-216-057-00	METAL CHIP 2.2K 5X 1/10W	
0903	8-729-901-01	TRANSISTOR DTC144EK		R046	1-216-073-00	METAL CHIP 10K 5X 1/10W	
0904	8-729-901-01	TRANSISTOR DTC144EK		R051	1-216-113-00	METAL CHIP 470K 5X 1/10W	
0905	8-729-901-05	TRANSISTOR DTA124EK		R052	1-216 091-00	METAL CHIP 56K 5X 1/10W	
0906	8-729-100-66	TRANSISTOR 2SC1623		R053	1-216-095-00	METAL CHIP 82K 5X 1/10W	
0907	8-729-100-66	TRANSISTOR 2SC1623		R055	1-216-748-11	METAL CHIP 39K 5X 1/10W	
0908	8-729-100-66	TRANSISTOR 2SC1623		R068	1-216-049-00	METAL CHIP 1K 5X 1/10W	
0909	8-729-100-66	TRANSISTOR 2SC1623		R069	1-216-089-00	METAL CHIP 47K 5X 1/10W	
0910	8-729-100-66	TRANSISTOR 2SC1623		R070	1-216-079-00	METAL CHIP 18K 5X 1/10W	
0911	8-729-901-05	TRANSISTOR DTA144EK		R071	1-216-036 00	METAL GLAZE 39K 5X 1/10W	
		(RESISTOR)		R072	1-216-023-00	METAL CHIP 27K 5X 1/10W	
R001	1-216-113-00	METAL CHIP 470K 5X 1/10W		R073	1-216-073-00	METAL CHIP 10K 5X 1/10W	
R002	1-216-091-00	METAL CHIP 56K 5X 1/10W		R074	1-216-061-00	METAL CHIP 3.3K 5X 1/10W	
R003	1-216-095-00	METAL CHIP 82K 5X 1/10W		R075	1-216-295-00	METAL CHIP 0 5X 1/10W	
				R076	1-216-071-00	METAL CHIP 8.2K 5X 1/10W	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark		
R288	1-216-079-00	METAL CHIP	18K 5%	1/10W	R338	1-216-081-00	METAL CHIP	22K 5%	1/10W
R289	1-216-083-00	METAL CHIP	27K 5%	1/10W	R339	1-216-057-00	METAL CHIP	2.2K 5%	1/10W
R290	1-216-078-00	METAL CHIP	10K 5%	1/10W	R340	1-216-033-00	METAL CHIP	22K 5%	1/10W
R291	1-216-045-00	METAL CHIP	680 5%	1/10W	R341	1-216-295-00	METAL CHIP	0 5%	1/10W
R292	1-216-045-00	METAL CHIP	680 5%	1/10W	R342	1-216-079-00	METAL CHIP	18K 5%	1/10W
R293	1-216-073-00	METAL CHIP	10K 5%	1/10W	R343	1-216-075-00	METAL CHIP	12K 5%	1/10W
R294	1-216-073-00	METAL CHIP	10K 5%	1/10W	R344	1-216-295-00	METAL CHIP	0 5%	1/10W
R295	1-216-069-00	METAL CHIP	6.8K 5%	1/10W	R345	1-216-041-00	METAL CHIP	470 5%	1/10W
R296	1-216-075-00	METAL CHIP	12K 5%	1/10W	R346	1-216-041-00	METAL CHIP	470 5%	1/10W
R297	1-216-081-00	METAL CHIP	22K 5%	1/10W	R348	1-216-043-00	METAL CHIP	560 5%	1/10W
R298	1-216-075-00	METAL CHIP	12K 5%	1/10W	R349	1-216-043-00	METAL CHIP	560 5%	1/10W
R299	1-216-075-00	METAL CHIP	12K 5%	1/10W	R350	1-216-079-00	METAL CHIP	18K 5%	1/10W
R300	1-216-059-00	METAL CHIP	2.7K 5%	1/10W	R351	1-216-075-00	METAL CHIP	12K 5%	1/10W
R301	1-216-083-00	METAL CHIP	3.5K 5%	1/10W	R352	1-216-059-00	METAL CHIP	2.7K 5%	1/10W
R302	1-216-069-00	METAL CHIP	6.8K 5%	1/10W	R353	1-216-737-11	METAL GLAZE	1K 1%	1/10W
R303	1-216-075-00	METAL CHIP	12K 5%	1/10W	R354	1-216-152-11	METAL GLAZE	1.5K 1%	1/10W
R304	1-216-073-00	METAL CHIP	10K 5%	1/10W	R355	1-216-079-00	METAL CHIP	18K 5%	1/10W
R305	1-216-073-00	METAL CHIP	10K 5%	1/10W	R356	1-216-075-00	METAL CHIP	12K 5%	1/10W
R307	1-216-041-00	METAL CHIP	470 5%	1/10W	R357	1-216-295-00	METAL CHIP	0 5%	1/10W
R308	1-216-045-00	METAL CHIP	680 5%	1/10W	R358	1-216-041-00	METAL CHIP	470 5%	1/10W
R309	1-216-049 00	METAL CHIP	1K 5%	1/10W	R359	1-216-041-00	METAL CHIP	470 5%	1/10W
R310	1-216-054-00	METAL CHIP	1.2K 5%	1/10W	R361	1-216-042-00	METAL CHIP	510 5%	1/10W
R311	1-216-077-00	METAL CHIP	15K 5%	1/10W	R362	1-216-043-00	METAL CHIP	560 5%	1/10W
R312	1-216-079-00	METAL CHIP	18K 5%	1/10W	R363	1-216-079-00	METAL CHIP	18K 5%	1/10W
R313	1-216-083-00	METAL CHIP	27K 5%	1/10W	R364	1-216-075-00	METAL CHIP	12K 5%	1/10W
R314	1-216-079-00	METAL CHIP	78K 5%	1/10W	R365	1-216-059-00	METAL CHIP	2.7K 5%	1/10W
R315	1-216-045-00	METAL CHIP	680 5%	1/10W	R366	1-216-049-00	METAL CHIP	1K 5%	1/10W
R316	1-216-045-00	METAL CHIP	680 5%	1/10W	R367	1-216-079-00	METAL CHIP	18K 5%	1/10W
R317	1-216-073-00	METAL CHIP	10K 5%	1/10W	R368	1-216-079-00	METAL CHIP	18K 5%	1/10W
R318	1-216-073-00	METAL CHIP	10K 5%	1/10W	R369	1-216-049-00	METAL CHIP	1K 5%	1/10W
R319	1-216-083-00	METAL CHIP	27K 5%	1/10W	R370	1-216-049-00	METAL CHIP	1K 5%	1/10W
R320	1-216-049-00	METAL CHIP	1K 5%	1/10W	R371	1-216-077-00	METAL CHIP	15K 5%	1/10W
R321	1-216-055-00	METAL CHIP	1.8K 5%	1/10W	R372	1-216-081-00	METAL CHIP	22K 5%	1/10W
R322	1-216-081-00	METAL CHIP	22K 5%	1/10W	R373	1-216-049-00	METAL CHIP	1K 5%	1/10W
R330	1-216-040-00	METAL CHIP	1K 5%	1/10W	R374	1-216-737-11	METAL GLAZE	1K 1%	1/10W
R331	1-216-077-00	METAL CHIP	15K 5%	1/10W	R375	1-216-150-11	METAL GLAZE	1.2K 1%	1/10W
R332	1-216-081-00	METAL CHIP	22K 5%	1/10W	R376	1-216-079-00	METAL CHIP	18K 5%	1/10W
R333	1-216-041-00	METAL CHIP	470 5%	1/10W	R377	1-216-075-00	METAL CHIP	12K 5%	1/10W
R334	1-216-737-11	METAL GLAZE	1K 1%	1/10W	R378	1-216-041-00	METAL CHIP	470 5%	1/10W
R335	1-216-518-00	METAL GLAZE	2.2K 1%	1/10W	R379	1-216-295-00	METAL CHIP	0 5%	1/10W
R336	1-216-149-11	METAL GLAZE	1.1K 1%	1/10W	R380	1-216-041-00	METAL CHIP	470 5%	1/10W
R337	1-216-077-00	METAL CHIP	15K 5%	1/10W					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R182	1-216-049-00	METAL CHIP	1K 5% 1/10W	R240	1-216-047-00	METAL CHIP	820 5% 1/10W
R183	1-216-087-00	METAL CHIP	100K 5% 1/10W	R241	1-216-053-00	METAL CHIP	1.5K 5% 1/10W
R201	1-216-081-00	METAL CHIP	22K 5% 1/10W	R242	1-216-073-00	METAL CHIP	10K 5% 1/10W
R202	1-216-075-00	METAL CHIP	12K 5% 1/10W	R243	1-216-111-00	METAL CHIP	390K 5% 1/10W
R203	1-216-034-00	METAL CHIP	180 5% 1/10W	R244	1-216-041-00	METAL CHIP	470 5% 1/10W
R204	1-216-089-00	METAL CHIP	22K 5% 1/10W	R245	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R205	1-216-077-00	METAL CHIP	15K 5% 1/10W	R246	1-216-043-00	METAL CHIP	560 5% 1/10W
R205	1-216-043-00	METAL CHIP	560 5% 1/10W	R247	1-216-079-00	METAL CHIP	18K 5% 1/10W
R207	1-216-043-00	METAL CHIP	560 5% 1/10W	R248	1-216-077-00	METAL CHIP	15K 5% 1/10W
R208	1-216-043-00	METAL CHIP	560 5% 1/10W	R249	1-216-049-00	METAL CHIP	1K 5% 1/10W
R209	1-216-043-00	METAL CHIP	560 5% 1/10W	R250	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R210	1-216-043-00	METAL CHIP	560 5% 1/10W	R251	1-216-049-00	METAL CHIP	1K 5% 1/10W
R211	1-216-043-00	METAL CHIP	560 5% 1/10W	R252	1-216-045-00	METAL CHIP	680 5% 1/10W
R212	1-216-081-00	METAL CHIP	22K 5% 1/10W	R253	1-216-047-00	METAL CHIP	820 5% 1/10W
R213	1-216-075-00	METAL CHIP	12K 5% 1/10W	R254	1-216-047-00	METAL CHIP	820 5% 1/10W
R214	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	R255	1-216-073-00	METAL CHIP	10K 5% 1/10W
R215	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	R256	1-216-067-00	METAL CHIP	5 5% 5% 1/10W
R216	1-216-038-00	METAL CHIP	360 5% 1/10W	R257	1-216-649-11	METAL CHIP	820 0.5% 1/10W
R217	1-216-079-00	METAL CHIP	18K 5% 1/10W	R258	1-216-649-11	METAL CHIP	820 0.5% 1/10W
R218	1-216-077-00	METAL CHIP	15K 5% 1/10W	R259	1-216-041-00	METAL CHIP	470 5% 1/10W
R219	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	R260	1-216-041-00	METAL CHIP	470 5% 1/10W
R220	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	R261	1-216-049-00	METAL CHIP	1K 5% 1/10W
R221	1-216-049-00	METAL CHIP	1K 5% 1/10W	R262	1-216-051-00	METAL CHIP	3.3K 5% 1/10W
R222	1-216-295-00	METAL CHIP	0 5% 1/10W	R263	1-216-044-00	METAL CHIP	820 5% 1/10W
R223	1-216-053-00	METAL CHIP	1.5K 5% 1/10W	R264	1-216-049-00	METAL CHIP	1K 5% 1/10W
R224	1-216-041-00	METAL CHIP	470 5% 1/10W	R265	1-216-041-00	METAL CHIP	470 5% 1/10W
R225	1-216-049-00	METAL CHIP	1K 5% 1/10W	R266	1-216-077-00	METAL CHIP	15K 5% 1/10W
R226	1-216-073-00	METAL CHIP	10K 5% 1/10W	R267	1-216-073-00	METAL CHIP	10K 5% 1/10W
R227	1-216-046-00	METAL CHIP	4.7K 5% 1/10W	R268	1-216-049-00	METAL CHIP	1K 5% 1/10W
R228	1-216-645-11	METAL CHIP	560 0.5% 1/10W	R269	1-216-049-00	METAL CHIP	1K 5% 1/10W
R229	1-216-645-11	METAL CHIP	560 0.5% 1/10W	R270	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R230	1-216-041-00	METAL CHIP	470 5% 1/10W	R271	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R231	1-216-041-00	METAL CHIP	470 5% 1/10W	R272	1-216-073-00	METAL CHIP	10K 5% 1/10W
R232	1-216-047-00	METAL CHIP	820 5% 1/10W	R273	1-216-043-00	METAL CHIP	560 5% 1/10W
R233	1-216-049-00	METAL CHIP	1K 5% 1/10W	R274	1-216-043-00	METAL CHIP	560 5% 1/10W
R234	1-216-037-00	METAL CHIP	330 5% 1/10W	R275	1-216-045-00	METAL CHIP	680 5% 1/10W
R235	1-216-033-00	METAL CHIP	220 5% 1/10W	R276	1-216-045-00	METAL CHIP	680 5% 1/10W
R236	1-216-033-00	METAL CHIP	220 5% 1/10W	R283	1-216-041-00	METAL CHIP	470 5% 1/10W
R237	1-216-037-00	METAL CHIP	330 5% 1/10W	R284	1-216-045-00	METAL CHIP	680 5% 1/10W
R238	1-216-049-00	METAL CHIP	1K 5% 1/10W	R285	1-216-055-00	METAL CHIP	1.5K 5% 1/10W
R239	1-216-047-00	METAL CHIP	820 5% 1/10W	R286	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
				R287	1-216-077-00	METAL CHIP	15K 5% 1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
RS30	1-216-079-00	METAL CHIP	10K 5K 1/10M	RS08	1-216-049-00	METAL CHIP	1K 5K 1/10M
RS31	1-216-049-00	METAL CHIP	1K 5K 1/10M	RS09	1-216-049-00	METAL CHIP	1K 5K 1/10M
RS32	1-216-049-00	METAL CHIP	1K 5K 1/10M	RS10	1-216-073-00	METAL CHIP	10K 5K 1/10M
RS33	1-216-621-11	METAL CHIP	50 0.50K 1/10M	RS11	1-216-071-00	METAL CHIP	8.2K 5K 1/10M
RS34	1-216-737-11	METAL GLAZE	1K 1K 1/10M	RS12	1-216-065-00	METAL CHIP	4.7K 5K 1/10M
RS35	1-216-079-00	METAL CHIP	18K 5K 1/10M	RS13	1-216-049-00	METAL CHIP	1K 5K 1/10M
RS36	1-216-079-00	METAL CHIP	18K 5K 1/10M	RS14	1-216-037-00	METAL CHIP	330 5K 1/10M
RS37	1-216-051-00	METAL CHIP	1.2K 5K 1/10M	RS15	1-216-041-00	METAL CHIP	470 5K 1/10M
RS38	1-216-057-00	METAL CHIP	2.2K 5K 1/10M	RS16	1-216-073-00	METAL CHIP	10K 5K 1/10M
RS39	1-216-065-00	METAL CHIP	4.7K 5K 1/10M	RS17	1-216-046-00	METAL CHIP	910 5K 1/10M
RS40	1-216-295-00	METAL CHIP	0 5K 1/10M	RS18	1-216-049-00	METAL CHIP	1K 5K 1/10M
RS41	1-216-069-00	METAL CHIP	6.8K 5K 1/10M	RS19	1-216-049-00	METAL CHIP	1K 5K 1/10M
RS42	1-216-065-00	METAL CHIP	4.7K 5K 1/10M	RS20	1-216-071-00	METAL CHIP	8.2K 5K 1/10M
RS43	1-216-051-00	METAL CHIP	1.2K 5K 1/10M	RS21	1-216-073-00	METAL CHIP	10K 5K 1/10M
RS44	1-216-057-00	METAL CHIP	2.2K 5K 1/10M	RS22	1-216-065-00	METAL CHIP	4.7K 5K 1/10M
RS45	1-216-518-00	METAL GLAZE	2.2K 1K 1/10M	RS23	1-216-059-00	METAL CHIP	2.7K 5K 1/10M
RS46	1-216-518-00	METAL GLAZE	2.2K 1K 1/10M	RS24	1-216-077-00	METAL CHIP	15K 5K 1/10M
RS47	1-216-079-00	METAL CHIP	18K 5K 1/10M	RS25	1-216-073-00	METAL CHIP	10K 5K 1/10M
RS48	1-216-081-00	METAL CHIP	22K 5K 1/10M	RS26	1-216-039-00	METAL CHIP	350 5K 1/10M
RS49	1-216-049-00	METAL CHIP	1K 5K 1/10M	RS27	1-216-041-00	METAL CHIP	470 5K 1/10M
RS50	1-216-155-11	METAL GLAZE	8.2K 1K 1/10M	RS28	1-216-057-00	METAL CHIP	2.2K 5K 1/10M
RS51	1-216-737-11	METAL GLAZE	1K 1K 1/10M	RS29	1-216-037-00	METAL CHIP	330 5K 1/10M
RS52	1-216-327-11	METAL GLAZE	2K 1K 1/10M	RS30	1-216-053-00	METAL CHIP	1.5K 5K 1/10M
RS53	1-216-327-11	METAL GLAZE	2K 1K 1/10M	RS31	1-216-061-00	METAL CHIP	3.3K 5K 1/10M
RS54	1-216-047-00	METAL CHIP	820 5K 1/10M	RS32	1-216-061-00	METAL CHIP	3.3K 5K 1/10M
RS55	1-216-295-00	METAL CHIP	0 5K 1/10M	RS33	1-216-031-00	METAL CHIP	160 5K 1/10M
RS56	1-216-049-00	METAL CHIP	1K 5K 1/10M	RS34	1-216-057-00	METAL CHIP	2.2K 5K 1/10M
RS57	1-216-295-00	METAL CHIP	0 5K 1/10M	RS35	1-216-077-00	METAL CHIP	15K 5K 1/10M
RS58	1-216-737-11	METAL GLAZE	1K 1K 1/10M	RS36	1-216-073-00	METAL CHIP	10K 5K 1/10M
RS59	1-216-518-00	METAL GLAZE	2.2K 1K 1/10M	RS37	1-216-041-00	METAL CHIP	470 5K 1/10M
RS60	1-216-057-00	METAL CHIP	2.2K 5K 1/10M	RS38	1-216-051-00	METAL CHIP	1.2K 5K 1/10M
RS61	1-216-079-00	METAL CHIP	18K 5K 1/10M	RS39	1-216-059-00	METAL CHIP	2.7K 5K 1/10M
RS62	1-216-079-00	METAL CHIP	18K 5K 1/10M	RS40	1-216-093-00	METAL CHIP	68K 5K 1/10M
RS63	1-216-049-00	METAL CHIP	1K 5K 1/10M	RS41	1-216-043-00	METAL CHIP	560 5K 1/10M
RS64	1-216-333-11	METAL CHIP	15K 1K 1/10M	RS42	1-216-055-00	METAL CHIP	1.8K 5K 1/10M
RS65	1-216-073-00	METAL CHIP	10K 5K 1/10M	RS43	1-216-065-00	METAL CHIP	4.7K 5K 1/10M
RS66	1-216-073-00	METAL CHIP	10K 5K 1/10M	RS44	1-216-053-00	METAL CHIP	1.5K 5K 1/10M
RS67	1-216-041-00	METAL CHIP	470 5K 1/10M	R701	1-216-081-00	METAL CHIP	22K 5K 1/10M
RS68	1-216-037-00	METAL CHIP	330 5K 1/10M	R702	1-216-073-00	METAL CHIP	10K 5K 1/10M
RS69	1-216-049-00	METAL CHIP	1K 5K 1/10M	R703	1-216-049-00	METAL CHIP	1K 5K 1/10M
RS70	1-216-049-00	METAL CHIP	1K 5K 1/10M	R704	1-216-036-00	METAL CHIP	300 5K 1/10M
RS71	1-216-049-00	METAL CHIP	1K 5K 1/10M	R705	1-216-045-00	METAL CHIP	580 5K 1/10M

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark		
R382	1-216-041-00	METAL CHIP	470 5%	1/10W	R436	1-216-073-00	METAL CHIP	10K 5%	1/10W
R383	1-216-043-00	METAL CHIP	560 5%	1/10W	R437	1-216-041-00	METAL CHIP	470 5%	1/10W
R384	1-216-079-00	METAL CHIP	13K 5%	1/10W	R438	1-216-041-00	METAL CHIP	470 5%	1/10W
R385	1-216-075-00	METAL CHIP	12K 5%	1/10W	R439	1-216-045-00	METAL CHIP	680 5%	1/10W
R386	1-216-059-00	METAL CHIP	2.7K 5%	1/10W	R440	1-216-043-00	METAL CHIP	560 5%	1/10W
R391	1-216-025-00	METAL CHIP	100 5%	1/10W	R441	1-216-037-00	METAL CHIP	15K 5%	1/10W
R392	1-216-025-00	METAL CHIP	100 5%	1/10W	R442	1-216-073-00	METAL CHIP	10K 5%	1/10W
R393	1-216-025-00	METAL CHIP	100 5%	1/10W	R443	1-216-059-00	METAL CHIP	2.7K 5%	1/10W
R401	1-216-723-11	METAL GLAZE	5 8K 1%	1/10W	R444	1-216-048-00	METAL CHIP	1K 5%	1/10W
R402	1-216-737-11	METAL GLAZE	1K 1%	1/10W	R445	1-216-081-00	METAL CHIP	22K 5%	1/10W
R403	1-216-737-11	METAL GLAZE	1K 1%	1/10W	R446	1-216-081-00	METAL CHIP	22K 5%	1/10W
R404	1-216-081-00	METAL CHIP	22K 5%	1/10W	R447	1-216-081-00	METAL CHIP	22K 5%	1/10W
R405	1-216-075-00	METAL CHIP	12K 5%	1/10W	R448	1-216-081-00	METAL CHIP	22K 5%	1/10W
R406	1-216-041-00	METAL CHIP	470 5%	1/10W	R501	1-216-079-00	METAL CHIP	18K 5%	1/10W
R408	1-216-142-11	METAL GLAZE	470 1%	1/10W	R502	1-216-081-00	METAL CHIP	22K 5%	1/10W
R409	1-216-631-11	METAL CHIP	150 0.5%	1/10W	R503	1-216-048-00	METAL CHIP	1K 5%	1/10W
R410	1-216-737-11	METAL GLAZE	1K 1%	1/10W	R504	1-216-156-11	METAL GLAZE	8.2K 1%	1/10W
R411	1-216-043-00	METAL CHIP	560 5%	1/10W	R505	1-216-737-11	METAL GLAZE	1K 1%	1/10W
R412	1-216-081-00	METAL CHIP	22K 5%	1/10W	R506	1-216-327-11	METAL GLAZE	2K 1%	1/10W
R413	1-216-075-00	METAL CHIP	12K 5%	1/10W	R507	1-216-327-11	METAL GLAZE	2K 1%	1/10W
R414	1-216-057-00	METAL CHIP	2.2K 5%	1/10W	R508	1-216-047-00	METAL CHIP	820 5%	1/10W
R415	1-216-077-00	METAL CHIP	15K 5%	1/10W	R509	1-216-295-00	METAL CHIP	0 5%	1/10W
R416	1-216-075-00	METAL CHIP	10K 5%	1/10W	R510	1-216-048-00	METAL CHIP	1K 5%	1/10W
R417	1-216-041-00	METAL CHIP	470 5%	1/10W	R511	1-216-737-11	METAL GLAZE	1K 1%	1/10W
R418	1-216-041-00	METAL CHIP	470 5%	1/10W	R512	1-216-295-00	METAL CHIP	0 5%	1/10W
R419	1-216-045-00	METAL CHIP	680 5%	1/10W	R513	1-216-518-00	METAL GLAZE	2.2K 1%	1/10W
R420	1-216-043-00	METAL CHIP	560 5%	1/10W	R514	1-216-057-00	METAL CHIP	2.2K 5%	1/10W
R421	1-216-077-00	METAL CHIP	15K 5%	1/10W	R515	1-216-078-00	METAL CHIP	18K 5%	1/10W
R422	1-216-073-00	METAL CHIP	10K 5%	1/10W	R516	1-216-079-00	METAL CHIP	18K 5%	1/10W
R423	1-216-059-00	METAL CHIP	2.7K 5%	1/10W	R517	1-216-048-00	METAL CHIP	1K 5%	1/10W
R424	1-216-049-00	METAL CHIP	1K 5%	1/10W	R518	1-216-156-11	METAL GLAZE	8.2K 1%	1/10W
R425	1-216-081-00	METAL CHIP	22K 5%	1/10W	R519	1-216-737-11	METAL GLAZE	1K 1%	1/10W
R426	1-216-075-00	METAL CHIP	12K 5%	1/10W	R520	1-216-327-11	METAL GLAZE	2K 1%	1/10W
R427	1-216-041-00	METAL CHIP	470 5%	1/10W	R521	1-216-327-11	METAL GLAZE	2K 1%	1/10W
R428	1-216-142-11	METAL GLAZE	470 1%	1/10W	R522	1-216-047-00	METAL CHIP	820 5%	1/10W
R429	1-216-295-00	METAL CHIP	0 5%	1/10W	R523	1-216-295-00	METAL CHIP	0 5%	1/10W
R430	1-216-737-11	METAL GLAZE	1K 1%	1/10W	R524	1-216-049-00	METAL CHIP	1K 5%	1/10W
R431	1-216-043-00	METAL CHIP	560 5%	1/10W	R525	1-216-737-11	METAL GLAZE	1K 1%	1/10W
R432	1-216-081-00	METAL CHIP	22K 5%	1/10W	R526	1-216-295-00	METAL CHIP	0 5%	1/10W
R433	1-216-075-00	METAL CHIP	12K 5%	1/10W	R527	1-216-518-00	METAL GLAZE	2.2K 1%	1/10W
R434	1-216-057-00	METAL CHIP	2.2K 5%	1/10W	R528	1-216-057-00	METAL CHIP	2.2K 5%	1/10W
R435	1-216-077-00	METAL CHIP	15K 5%	1/10W	R529	1-216-079-00	METAL CHIP	18K 5%	1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R794	1-216-295-00	METAL CHIP	0 5% 1/10W	R821	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R795	1-216-025-00	METAL CHIP	100 5% 1/10W	R822	1-216-093-00	METAL CHIP	68K 5% 1/10W
R796	1-216-025-00	METAL CHIP	100 5% 1/10W	R823	1-216-091-00	METAL CHIP	50K 5% 1/10W
R802	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R824	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
R803	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R825	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R804	1-216-022-00	METAL CHIP	75 5% 1/10W	R826	1-216-077-00	METAL CHIP	15K 5% 1/10W
R806	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R827	1-216-085-00	METAL CHIP	33K 5% 1/10W
R807	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R828	1-216-049-00	METAL CHIP	7K 5% 1/10W
R808	1-216-022-00	METAL CHIP	75 5% 1/10W	R829	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R809	1-216-018-00	METAL CHIP	39 5% 1/10W			(VARIABLE RESISTOR)	
R810	1-216-015-00	METAL CHIP	39 5% 1/10W	RV201	1-230-519-11	RES. ADJ. METAL 470	
R811	1-216-015-00	METAL CHIP	39 5% 1/10W	RV202	1-230-520-11	RES. ADJ. METAL 1K	
R812	1-216-015-00	METAL CHIP	39 5% 1/10W	RV203	1-230-520-11	RES. ADJ. METAL 1K	
R814	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	RV204	1-230-519-11	RES. ADJ. METAL 470	
R815	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	RV205	1-230-521-11	RES. ADJ. METAL 2.2K	
R816	1-216-022-00	METAL CHIP	75 5% 1/10W	RV401	1-230-519-11	RES. ADJ. METAL 470	
R818	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	RV402	1-230-519-11	RES. ADJ. METAL 470	
R819	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	RV601	1-230-520-11	RES. ADJ. METAL 1K	
R820	1-216-022-00	METAL CHIP	75 5% 1/10W	RV602	1-230-520-11	RES. ADJ. METAL 1K	
R821	1-216-015-00	METAL CHIP	39 5% 1/10W	RV702	1-230-522-11	RES. ADJ. METAL 4.7K	
R822	1-216-015-00	METAL CHIP	39 5% 1/10W	RV703	1-230-521-11	RES. ADJ. METAL 2.2K	
R823	1-216-075-00	METAL CHIP	18K 5% 1/10W	RV704	1-230-531-11	RES. ADJ. METAL GLAZE 220	
R824	1-216-085-00	METAL CHIP	33K 5% 1/10W	RV705	1-230-519-11	RES. ADJ. METAL 470	
R901	1-216-085-00	METAL CHIP	47K 5% 1/10W	RV706	1-230-522-11	RES. ADJ. METAL 4.7K	
R902	1-216-089-00	METAL CHIP	47K 5% 1/10W	RV707	1-230-519-11	RES. ADJ. METAL 470	
R903	1-216-089-00	METAL CHIP	47K 5% 1/10W	RV708	1-230-519-11	RES. ADJ. METAL 470	
R904	1-216-089-00	METAL CHIP	47K 5% 1/10W	RV901	1-230-523-11	RES. ADJ. METAL 10K	
R906	1-216-081-00	METAL CHIP	22K 5% 1/10W			(THERMISTOR)	
R907	1-216-081-00	METAL CHIP	22K 5% 1/10W	TH701	1-500-200-00	THERMISTOR 5-3K	
R908	1-216-073-00	METAL CHIP	10K 5% 1/10W			*****	
R909	1-216-245-00	METAL CHIP	1K 3% 1/10W			* 1-633-696-11 JB-4 BOARD	
R910	1-216-107-00	METAL CHIP	270K 5% 1/10W			*****	
R911	1-216-073-00	METAL CHIP	10K 5% 1/10W			(CAPACITOR)	
R912	1-216-069-00	METAL CHIP	6.8K 3% 1/10W	C501	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
R913	1-216-073-00	METAL CHIP	10K 5% 1/10W	C502	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
R914	1-216-081-00	METAL CHIP	22K 5% 1/10W	C503	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V
R915	1-216-081-00	METAL CHIP	22K 5% 1/10W				
R916	1-216-065-00	METAL CHIP	4.7K 5% 1/10W				
R917	1-216-025-00	METAL CHIP	100 5% 1/10W				
R918	1-216-057-00	METAL CHIP	2.2K 5% 1/10W				
R919	1-216-067-00	METAL CHIP	5.6K 5% 1/10W				
R920	1-216-031-00	METAL CHIP	180 5% 1/10W				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark		
R706	1-216-048-00	METAL CHIP	1K 5%	1/10W	R750	1-216-081-00	METAL CHIP	22K 5%	1/10W
R707	1-216-041-00	METAL CHIP	470 5%	1/10W	R751	1-216-083-00	METAL CHIP	27K 5%	1/10W
R708	1-216-052-00	METAL CHIP	1.3K 5%	1/10W	R752	1-216-065-00	METAL CHIP	4.7K 5%	1/10W
R709	1-216-049-00	METAL CHIP	1K 5%	1/10W	R753	1-216-075-00	METAL CHIP	12K 5%	1/10W
R710	1-216-033-00	METAL CHIP	220 5%	1/10W	R754	1-216-081-00	METAL CHIP	22K 5%	1/10W
R711	1-216-049-00	METAL CHIP	1K 5%	1/10W	R755	1-216-085-00	METAL CHIP	4.7K 5%	1/10W
R712	1-216-051-00	METAL CHIP	1.2K 5%	1/10W	R756	1-216-635-11	METAL CHIP	220 0.5%	1/10W
R713	1-216-043-00	METAL CHIP	560 5%	1/10W	R757	1-216-635-11	METAL CHIP	220 0.5%	1/10W
R714	1-216-065-00	METAL CHIP	4.7K 5%	1/10W	R758	1-216-057-00	METAL CHIP	2.2K 5%	1/10W
R715	1-216-065-00	METAL CHIP	4.7K 5%	1/10W	R759	1-216-053-00	METAL CHIP	1.5K 5%	1/10W
R716	1-216-635-11	METAL CHIP	220 0.5%	1/10W	R760	1-216-059-00	METAL CHIP	2.7K 5%	1/10W
R717	1-216-635-11	METAL CHIP	220 0.5%	1/10W	R761	1-216-061-00	METAL CHIP	3.3K 5%	1/10W
R718	1-216-049-00	METAL CHIP	1K 5%	1/10W	R762	1-216-081-00	METAL CHIP	22K 5%	1/10W
R720	1-216-047-00	METAL CHIP	820 5%	1/10W	R763	1-216-073-00	METAL CHIP	10K 5%	1/10W
R721	1-216-044-00	METAL CHIP	620 5%	1/10W	R764	1-216-065-00	METAL CHIP	4.7K 5%	1/10W
R722	1-216-061-00	METAL CHIP	3.3K 5%	1/10W	R765	1-216-041-00	METAL CHIP	470 5%	1/10W
R723	1-216-295-00	METAL CHIP	0 5%	1/10W	R767	1-216-057-00	METAL CHIP	2.2K 5%	1/10W
R724	1-216-075-00	METAL CHIP	12K 5%	1/10W	R768	1-216-737-11	METAL GLAZE	1K 1%	1/10W
R725	1-216-085-00	METAL CHIP	3.3K 5%	1/10W	R769	1-216-737-11	METAL GLAZE	1K 1%	1/10W
R726	1-216-065-00	METAL CHIP	4.7K 5%	1/10W	R770	1-216-073-00	METAL CHIP	10K 5%	1/10W
R727	1-216-635-11	METAL CHIP	220 0.5%	1/10W	R771	1-216-071-00	METAL CHIP	8.2K 5%	1/10W
R728	1-216-635-11	METAL CHIP	220 0.5%	1/10W	R772	1-216-073-00	METAL CHIP	10K 5%	1/10W
R729	1-216-049-00	METAL CHIP	1K 5%	1/10W	R773	1-216-737-11	METAL GLAZE	1K 1%	1/10W
R730	1-216-047-00	METAL CHIP	620 5%	1/10W	R774	1-216-737-11	METAL GLAZE	1K 1%	1/10W
R732	1-216-041-00	METAL CHIP	470 5%	1/10W	R775	1-216-081-00	METAL CHIP	22K 5%	1/10W
R733	1-216-081-00	METAL CHIP	3.3K 5%	1/10W	R776	1-216-075-00	METAL CHIP	12K 5%	1/10W
R734	1-216-041-00	METAL CHIP	470 5%	1/10W	R777	1-216-049-00	METAL CHIP	1K 5%	1/10W
R735	1-216-295-00	METAL CHIP	0 5%	1/10W	R778	1-216-033-00	METAL CHIP	220 5%	1/10W
R736	1-216-041-00	METAL CHIP	470 5%	1/10W	R779	1-216-054-00	METAL CHIP	3.2K 5%	1/10W
R737	1-216-035-00	METAL CHIP	270 5%	1/10W	R780	1-216-049-00	METAL CHIP	1K 5%	1/10W
R738	1-216-049-00	METAL CHIP	1K 5%	1/10W	R781	1-216-081-00	METAL CHIP	22K 5%	1/10W
R739	1-216-049-00	METAL CHIP	1K 5%	1/10W	R782	1-216-075-00	METAL CHIP	12K 5%	1/10W
R740	1-216-295-00	METAL CHIP	0 5%	1/10W	R783	1-216-065-00	METAL CHIP	4.7K 5%	1/10W
R741	1-216-047-00	METAL CHIP	620 5%	1/10W	R784	1-216-061-00	METAL CHIP	22K 5%	1/10W
R742	1-216-043-00	METAL CHIP	560 5%	1/10W	R785	1-216-075-00	METAL CHIP	12K 5%	1/10W
R743	1-216-049-00	METAL CHIP	1K 5%	1/10W	R786	1-216-049-00	METAL CHIP	1K 5%	1/10W
R744	1-216-081-00	METAL CHIP	22K 5%	1/10W	R787	1-216-737-11	METAL GLAZE	1K 1%	1/10W
R745	1-216-075-00	METAL CHIP	12K 5%	1/10W	R788	1-216-737-11	METAL GLAZE	1K 1%	1/10W
R746	1-216-045-00	METAL CHIP	680 5%	1/10W	R789	1-216-069-00	METAL CHIP	6.8K 5%	1/10W
R747	1-216-043-00	METAL CHIP	560 5%	1/10W	R790	1-216-033-00	METAL CHIP	220 5%	1/10W
R748	1-216-049-00	METAL CHIP	1K 5%	1/10W	R793	1-216-295-00	METAL CHIP	0 5%	1/10W
R749	1-216-045-00	METAL CHIP	680 5%	1/10W					

MB-19

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		(CONNECTOR)		Q608	8-729-901-01	TRANSISTOR DTCA44EK	
Q601	1-566-943-11	CONNECTOR, BOARD TO BOARD 18P		Q609	8-729-901-06	TRANSISTOR DTAI44EK	
Q602	1-566-944-11	CONNECTOR, BOARD TO BOARD 22P		Q671	8-729-100-66	TRANSISTOR ZSC1623	
Q603	1-506-487-11	CONNECTOR 2P, MALE				(RESISTOR)	
Q605	1-506-473-11	CONNECTOR 8P, MALE		R601	1-216-089-00	METAL CHIP 47K 5% 1/10W	
Q606	1-506-470-11	CONNECTOR 5P, MALE		R602	1-216-089-00	METAL CHIP 47K 5% 1/10W	
CR923	1-506-474-11	CONNECTOR 8P, MALE		R603	1-216-097-00	METAL CHIP 100K 5% 1/10W	
CR924	1-506-473-11	CONNECTOR 8P, MALE		R604	1-216-073-00	METAL CHIP 10K 5% 1/10W	
		(DIODE)		R611	1-216-081-00	METAL CHIP 22K 5% 1/10W	
D601	8-719-104-34	DIODE 1S2836		R612	1-216-081-00	METAL CHIP 22K 5% 1/10W	
D602	8-719-104-34	DIODE 1S2836		R613	1-216-081-00	METAL CHIP 22K 5% 1/10W	
D603	8-719-104-34	DIODE 1S2836		R614	1-216-081-00	METAL CHIP 22K 5% 1/10W	
D604	8-719-800-18	DIODE MA1522K		R615	1-216-081-00	METAL CHIP 22K 5% 1/10W	
D641	8-719-800-16	DIODE 1SS226		R616	1-216-081-00	METAL CHIP 22K 5% 1/10W	
D642	8-719-800-76	DIODE 1SS226		R617	1-216-081-00	METAL CHIP 22K 5% 1/10W	
		(IC)		R618	1-216-079-00	METAL CHIP 18K 5% 1/10W	
IC601	8-759-149-34	IC uPD75106G-501-1B		R619	1-216-081-00	METAL CHIP 22K 5% 1/10W	
IC603	8-759-300-71	IC TC4053BFHB		R625	1-216-041-00	METAL CHIP 470 5% 1/10W	
IC651	8-759-603-27	IC MS201FP		R626	1-216-089-00	METAL CHIP 47K 5% 1/10W	
IC651	8-759-603-27	IC MS201FP		R627	1-216-089-00	METAL CHIP 47K 5% 1/10W	
IC671	8-741-159-50	IC S8X1505		R628	1-216-089-00	METAL CHIP 47K 5% 1/10W	
		(COIL)		R629	1-216-073-00	METAL CHIP 10K 5% 1/10W	
L601	1-408-970-21	INDUCTOR 10uH		R630	1-216-089-00	METAL CHIP 47K 5% 1/10W	
L602	1-408-970-21	INDUCTOR 10uH		R631	1-216-089-00	METAL CHIP 47K 5% 1/10W	
L603	1-408-970-21	INDUCTOR 10uH		R632	1-216-041-00	METAL CHIP 470 5% 1/10W	
L604	1-408-949-00	INDUCTOR 220uH		R633	1-216-089-00	METAL CHIP 47K 5% 1/10W	
L605	1-408-946-00	INDUCTOR 220uH		R634	1-216-097-00	METAL CHIP 100K 5% 1/10W	
L641	1-410-393-11	INDUCTOR CHIP 100uH		R635	1-216-049-00	METAL CHIP 1K 5% 1/10W	
L671	1-408-948-00	INDUCTOR 220uH		R636	1-216-049-00	METAL CHIP 1K 5% 1/10W	
		(TRANSISTOR)		R637	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q601	8-729-901-06	TRANSISTOR DTAI44EK		R638	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q602	8-729-901-01	TRANSISTOR DTCA44EK		R639	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q603	8-729-901-01	TRANSISTOR DTCA44EK		R641	1-216-072-00	METAL CHIP 9.1K 5% 1/10W	
Q604	8-729-901-01	TRANSISTOR DTCA44EK		R642	1-216-081-00	METAL CHIP 22K 5% 1/10W	
Q605	8-729-901-06	TRANSISTOR DTAI44EK		R643	1-216-089-00	METAL CHIP 47K 5% 1/10W	
Q606	8-729-901-06	TRANSISTOR DTAI44EK		R644	1-216-099-00	METAL CHIP 120K 5% 1/10W	
Q607	8-729-901-01	TRANSISTOR DTCA44EK		R645	1-216-072-00	METAL CHIP 9.1K 5% 1/10W	
				R646	1-216-081-00	METAL CHIP 22K 5% 1/10W	
				R647	1-216-089-00	METAL CHIP 47K 5% 1/10W	
				R648	1-216-099-00	METAL CHIP 120K 5% 1/10W	
				R649	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	

JB-4

JB-5

LD-1

LS-9

MB-19

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark		
C504	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V			LS-9 BOARD, COMPLETE					

	* 1-633-637-11	JB-5 BOARD						1-506-485-11	CONNECTOR GP, MALE				

		(CAPACITOR)						* A-7062-585-A	MB-19 BOARD, COMPLETE				

C301	1-163-035-00	CERAMIC CHIP	0.047uF		50V			* 4-911-047-01	VIBRATION CONTROL (D)				
C302	1-124-584-00	ELECT	100uF	20%	10V				(CAPACITOR)				
C303	1-163-008-11	CERAMIC CHIP	0.001uF	10%	50V								

		(CONNECTOR)						CG01	1-163-035-00	CERAMIC CHIP	0.047uF	50V	
CK001	1-506-470-71	CONNECTOR GP, MALE						CG02	1-163-035-00	CERAMIC CHIP	0.047uF	50V	

		(DIODE)						CG03	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
D301	8-719-800-78	DIODE 1SS228						CG04	1-163-093-00	CERAMIC CHIP	10PF	5%	50V

		(JACK)						CG05	1-163-035-00	CERAMIC CHIP	0.047uF		50V
J301	1-537-085-21	JACK BOARD (VIDEO/AUDIO/RFU DC OUT)						CG06	1-163-035-00	CERAMIC CHIP	0.047uF		50V

		(TRANSISTOR)						CG07	1-163-035-00	CERAMIC CHIP	0.047uF		50V
D301	8-729-216-27	TRANSISTOR 2SA1162						CG08	1-163-035-00	CERAMIC CHIP	0.047uF		50V

		(RESISTOR)						CG09	1-124-234-00	ELECT	22uF	20%	16V
R301	1-216-001-00	METAL CHIP	30	5%	1/10W			CG10	1-163-035-00	CERAMIC CHIP	0.047uF		50V
R302	1-216-085-00	METAL CHIP	4.7K	5%	1/10W			CG11	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V

	* A-7070-024-A	LD-1 BOARD, COMPLETE						CG12	1-124-234-00	ELECT	22uF	20%	16V

	* 1-813-367-11	LD-1 BOARD						CG13	1-163-035-00	CERAMIC CHIP	0.047uF		50V

		(DIODE)						CG14	1-124-584-00	ELECT	100uF	20%	10V
D801	8-719-928-54	DIODE GL-450S						CG15	1-163-035-00	CERAMIC CHIP	0.01uF		50V

								CG16	1-163-019-00	CERAMIC CHIP	0.0050uF	10%	50V
								CG17	1-124-584-00	ELECT	100uF	20%	10V
								CG18	1-163-038-00	CERAMIC CHIP	0.1uF		25V
								CG19	1-124-584-00	ELECT	100uF	20%	10V
								CG20	1-164-232-11	CERAMIC CHIP	0.01uF		50V
								CG21	1-135-155-21	TANTALUM CHIP	4.7uF	10%	10V
								CG22	1-124-584-00	ELECT	100uF	20%	10V
								CG23	1-135-157-21	TANTALUM CHIP	10uF	20%	6.3V
								CG24	1-164-232-11	CERAMIC CHIP	0.01uF		50V

MD-23

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	
CB24	1-163-038-00	CERAMIC CHIP	0.1uF	25V	CB907	1-566-527-11	CONNECTOR, FPC (ZIF) 11P	
CB25	1-126-152-11	ELECT	3.3uF	20%	50V	CB906	1-566-531-11	CONNECTOR, FPC (ZIF) 15P
CB33	1-163-038-00	CERAMIC CHIP	0.1uF	25V	CB909	1-566-945-11	CONNECTOR, BOARD TO BOARD 18P	
CB34	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	CB910	1-566-946-11	CONNECTOR, BOARD TO BOARD 22P
CB35	1-126-501-11	ELECT	0.15uF	20%	50V	CB911	1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)
CB36	1-164-157-11	CERAMIC CHIP	0.068uF	10%	25V	CB912	1-566-942-11	CONNECTOR, HINGE (RECEPTACLE) 30P
CB37	1-124-464-11	ELECT	0.25uF	20%	50V	CB914	1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)
CB38	1-124-589-11	ELECT	47uF	20%	16V		(DIODE)	
CB39	1-126-529-11	ELECT	0.47uF	20%	50V	DB03	8-719-200-27	DIODE E109S2
CB40	1-164-232-11	CERAMIC CHIP	0.01uF	50V	DB10	8-719-400-18	DIODE MA1520K	
CB41	1-124-589-11	ELECT	47uF	20%	16V	DB11	8-719-200-27	DIODE E100S2
CB901	1-124-234-00	ELECT	22uF	20%	16V	DB01	8-719-400-18	DIODE MA1520K
CB902	1-124-234-00	ELECT	22uF	20%	16V	DB02	8-719-400-18	DIODE MA1520K
CB903	1-124-234-00	ELECT	22uF	20%	16V	DB03	8-719-400-18	DIODE MA1520K
CB904	1-124-234-00	ELECT	22uF	20%	16V	DB04	8-719-800-78	DIODE 1SS228
CB905	1-124-257-00	ELECT	2.2uF	20%	50V	DB05	8-719-400-18	DIODE MA1520K
CB906	1-164-232-11	CERAMIC CHIP	0.01uF	50V			(IC)	
CB907	1-163-038-00	CERAMIC CHIP	0.1uF	25V	IC801	8-752-037-08	IC CXAL109N	
CB908	1-126-086-11	ELECT	10uF	20%	35V	IC802	8-759-802-79	IC LB1610N
CB909	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	IC804	8-759-514-98	IC RC344AN
CB910	1-130-491-00	NYLAR	0.047uF	5%	50V	IC805	8-759-100-93	IC uPC3393D
CB911	1-130-491-00	NYLAR	0.047uF	5%	50V	IC806	8-759-207-00	IC TA7733F
CB912	1-130-483-00	NYLAR	0.01uF	5%	50V	IC807	8-759-107-68	IC CA20915A
CB913	1-164-232-11	CERAMIC CHIP	0.01uF	50V	IC808	8-759-700-62	IC MUM4562N	
CB914	1-124-589-11	ELECT	47uF	20%	16V	IC809	8-759-100-94	IC uPC3386Z
CB915	1-164-232-11	CERAMIC CHIP	0.01uF	50V	IC901	8-759-207-50	IC TA7745F	
CB916	1-126-530-11	ELECT	22uF	20%	10V	IC902	8-759-150-05	IC uPC324G2
CB917	1-126-530-11	ELECT	22uF	20%	10V	IC903	8-759-925-66	IC BA6303F
CB918	1-164-232-11	CERAMIC CHIP	0.01uF	50V	IC904	8-759-008-6T	IC TC4066BF	
CB919	1-164-232-11	CERAMIC CHIP	0.01uF	50V			(COIL)	
CB950	1-164-157-11	CERAMIC CHIP	0.068uF	10%	25V	L991	1-408-777-00	INDUCTOR CHIP 10uH
CB991	1-183-035-00	CERAMIC CHIP	0.047uF	50V			(LINK IC)	
CB992	1-163-035-00	CERAMIC CHIP	0.047uF	50V	PS801	1-532-685-00	LINK, IC (0.8A/125V)	
CB993	1-164-232-11	CERAMIC CHIP	0.01uF	50V			(TRANSISTOR)	
CB997	1-506-423-21	CONNECTOR 4P, MALE			DB06	8-729-111-14	TRANSISTOR 2SA1385-Z	
CB903	1-506-481-11	CONNECTOR 2P, MALE			DB07	8-729-901-06	TRANSISTOR DT4144EK	
CB904	1-506-484-11	CONNECTOR 5P, MALE						
CB905	1-506-469-11	CONNECTOR 4P, MALE						
CB906	1-506-469-11	CONNECTOR 4P, MALE						

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ ou traitillés pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MD-23 **MJ-25** **MS-4** **PA-27**

Ref. No.	Part No.	Description	QTY	UNIT	1/100
R912	1-216-089-00	METAL CHIP	6.0K	5%	1/100
R913	1-216-090-00	METAL CHIP	2.7K	5%	1/100
R916	1-216-073-00	METAL CHIP	10K	5%	1/100
R917	1-216-073-00	METAL CHIP	10K	5%	1/100
R918	1-216-073-00	METAL CHIP	10K	5%	1/100
R919	1-216-073-00	METAL CHIP	10K	5%	1/100
R920	1-216-073-00	METAL CHIP	15K	5%	1/100
R921	1-216-083-00	METAL CHIP	27K	5%	1/100
R922	1-216-085-00	METAL CHIP	33K	5%	1/100
R923	1-216-748-11	METAL CHIP	39K	5%	1/100
R924	1-216-089-00	METAL CHIP	47K	5%	1/100
R925	1-216-089-00	METAL CHIP	47K	5%	1/100
R926	1-216-109-00	METAL CHIP	330K	5%	1/100
R927	1-216-117-00	METAL CHIP	680K	5%	1/100
R928	1-216-073-00	METAL CHIP	10K	5%	1/100
R929	1-216-093-00	METAL CHIP	1.5K	5%	1/100
R951	1-216-069-00	METAL CHIP	8.8K	5%	1/100
R952	1-216-063-00	METAL CHIP	3.9K	5%	1/100
R953	1-214-972-00	METAL	0.22	1%	1/40
R955	1-216-078-00	METAL CHIP	18K	5%	1/100
R991	1-216-073-00	METAL CHIP	10K	5%	1/100
R992	1-216-073-00	METAL CHIP	10K	5%	1/100
R993	1-216-048-00	METAL CHIP	1K	5%	1/100
R994	1-216-295-00	METAL CHIP	0	5%	1/100
R996	1-216-048-00	METAL CHIP	1K	5%	1/100
R997	1-216-048-00	METAL CHIP	1K	5%	1/100
R998	1-216-048-00	METAL CHIP	1K	5%	1/100
		(VARIABLE RESISTOR)			
Rv901	1-230-520-11	RES. ADJ. METAL 1K			
Rv902	1-230-523-11	RES. ADJ. METAL 10K			
Rv903	1-230-927-11	RES. ADJ. METAL 100K			
Rv901	1-230-529-11	RES. ADJ. METAL 470K			
		(THERMISTOR)			
THP001	1-202-854-00	THERMISTOR (POSITIVE)			
		(CONNECTOR)			
MS01	1-582-880-11	CONNECTOR, CARD EDGE 15P			
MS01	1-562-860-11	CONNECTOR, CARD EDGE 15P			

Remark	Ref. No.	Part No.	Description	QTY	UNIT	10%	50%

			* 1-633-698-11 MJ-25 BOARD				

			(CAPACITOR)				
CG01	1-163-036-00	CERAMIC CHIP	0.1uF	25K			
			(CONNECTOR)				
CM001	1-506-468-11	CONNECTOR SP, MALE					
			(DIODE)				
OD01	6-719-106-80	DIODE 90L2M-81					
			(JACK)				
J001	1-507-995-21	JACK, MICROPHONE (MIC/CD)					

			A-7046-159-A MS-4 BOARD, COMPLETE				

			1-163-038-00 CERAMIC CHIP	0.1uF	25K		
			1-506-485-11 CONNECTOR SP, MALE				

			* A-7061-826-A PA-27 BOARD, COMPLETE				

			(CAPACITOR)				
CO01	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50K		
CO02	1-124-584-00	ELECT	100uF	20%	10K		
CO03	1-126-154-11	ELECT	47uF	20%	6.3V		
CO04	1-126-154-11	ELECT	47uF	20%	6.3V		
CO05	1-130-490-11	MYLAR	0.039uF	5%	50V		
CO06	1-163-125-00	CERAMIC CHIP	220PF	5%	50V		
CO07	1-130-479-00	MYLAR	0.0047uF	5%	50V		
CO08	1-126-154-11	ELECT	47uF	20%	6.3V		
CO09	1-163-087-00	CERAMIC CHIP	15PF	5%	50V		
CO10	1-126-154-11	ELECT	47uF	20%	6.3V		

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q809	8-729-111-95	TRANSISTOR 2SC3516		R835	1-216-049-00	METAL CHIP 1K 5% 1/10W	
Q810	8-729-805-25	TRANSISTOR 2SB1121		R840	1-216-107-00	METAL CHIP 270K 5% 1/10W	
Q811	8-729-805-25	TRANSISTOR 2SB1121		R841	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q812	8-729-112-14	TRANSISTOR 2SA1385-Z		R842	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q813	8-729-100-66	TRANSISTOR 2SC1623		R843	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q820	8-729-111-95	TRANSISTOR 2SC3516		R844	1-216-107-00	METAL CHIP 270K 5% 1/10W	
Q821	8-729-100-66	TRANSISTOR 2SC1623		R845	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q830	8-729-100-66	TRANSISTOR 2SC1623		R846	1-216-107-00	METAL CHIP 270K 5% 1/10W	
Q901	8-729-920-82	TRANSISTOR 2SB1188-OP		R847	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q902	8-729-920-82	TRANSISTOR 2SB1188-OP		R848	1-216-107-00	METAL CHIP 270K 5% 1/10W	
Q903	8-729-920-82	TRANSISTOR 2SB1188-OP		R849	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q904	8-729-901-06	TRANSISTOR DTA144EK		R852	1-216-081-00	METAL CHIP 22K 5% 1/10W	
Q905	8-729-901-06	TRANSISTOR DTA144EK		R850	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
Q906	8-729-901-01	TRANSISTOR DTC144EK		R801	1-216-055-00	METAL CHIP 1.8K 5% 1/10W	
Q907	8-729-901-01	TRANSISTOR DTC144EK		R864	1-216-033-00	METAL CHIP 220 5% 1/10W	
Q908	8-729-901-01	TRANSISTOR DTC144EK		P870	1-216-113-00	METAL CHIP 470K 5% 1/10W	
Q909	8-729-901-06	TRANSISTOR DTA144EK		R885	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q950	8-729-903-97	TRANSISTOR FM5LFE		R886	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q990	8-729-100-66	TRANSISTOR 2SC1623		R887	1-216-049-00	METAL CHIP 1K 5% 1/10W	
		(RESISTOR)		R888	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R801	1-216-105-00	METAL CHIP 220K 5% 1/10W		R890	1-216-681-11	METAL CHIP 18K 0.5% 1/10W	
R802	1-216-105-00	METAL CHIP 220K 5% 1/10W		R891	1-216-681-11	METAL CHIP 18K 0.5% 1/10W	
R803	1-216-097-00	METAL CHIP 100K 5% 1/10W		R892	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R804	1-216-057-00	METAL CHIP 100K 5% 1/10W		R893	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R805	1-216-055-00	METAL CHIP 3.3K 5% 1/10W		R894	1-216-113-00	METAL CHIP 470K 5% 1/10W	
R806	1-216-065-00	METAL CHIP 4.7K 5% 1/10W		R895	1-216-113-00	METAL CHIP 470K 5% 1/10W	
R807	1-216-049-00	METAL CHIP 1K 5% 1/10W		R896	1-216-025-00	METAL CHIP 100 5% 1/10W	
R810	1-216-051-00	METAL CHIP 1.2K 5% 1/10W		R887	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R811	1-216-051-00	METAL CHIP 1.2K 5% 1/10W		R898	1-216-025-00	METAL CHIP 100 5% 1/10W	
R818	1-216-059-00	METAL CHIP 2.7K 5% 1/10W		R899	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R819	1-216-113-00	METAL CHIP 470K 5% 1/10W		R900	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R820	1-216-025-00	METAL CHIP 100 5% 1/10W		R901	1-216-035-00	METAL CHIP 270 5% 1/10W	
R823	1-216-025-00	METAL CHIP 100 5% 1/10W		R802	1-216-035-00	METAL CHIP 270 5% 1/10W	
R824	1-216-081-00	METAL CHIP 20K 5% 1/10W		R903	1-216-035-00	METAL CHIP 270 5% 1/10W	
R826	1-216-073-00	METAL CHIP 10K 5% 1/10W		R904	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R830	1-216-101-00	METAL CHIP 150K 5% 1/10W		R905	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R831	1-216-049-00	METAL CHIP 1K 5% 1/10W		R906	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R832	1-216-304-11	METAL CHIP 3.3 5% 1/10W		R907	1-216-065-00	METAL CHIP 6.8K 5% 1/10W	
R833	1-216-304-11	METAL CHIP 3.3 5% 1/10W		R908	1-216-027-00	METAL CHIP 120 5% 1/10W	
R834	1-216-304-11	METAL CHIP 3.3 5% 1/10W		R909	1-216-027-00	METAL CHIP 120 5% 1/10W	
				R910	1-216-073-00	METAL CHIP 10K 5% 1/10W	
				R911	1-216-113-00	METAL CHIP 470K 5% 1/10W	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C011	1-130-489-00	MYLAR	660PF	5%	50V	(CONNECTOR)	
C012	1-130-482-00	MYLAR	0.0082uF	5%	50V		
C013	1-135-149-21	TANTALUM CHIP	2.2uF	20%	10V	C001	1-503-314-14 CONNECTOR, BOARD TO BOARD 20P
C014	1-135-156-21	TANTALUM CHIP	6.8uF	10%	6.3V		
C015	1-135-072-21	TANTALUM CHIP	0.22uF	10%	35V		(DIODE)
C016	1-126-153-11	ELECT	22uF	20%	6.3V	D031	8-719-104-34 DIODE 1S2836
C017	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	D032	8-719-104-34 DIODE 1S2836
C018	1-126-153-11	ELECT	22uF	20%	6.3V	D033	8-719-104-34 DIODE 1S2836
C019	1-126-153-11	ELECT	22uF	20%	6.3V		
C031	1-124-584-00	ELECT	100uF	20%	10V		(IC)
C032	1-124-584-00	ELECT	100uF	20%	10V	I0001	8-752-009-90 IC CX20099
C033	1-163-035-00	CERAMIC CHIP	0.047uF	50%		I0002	8-759-981-92 IC NUM555M
C034	1-126-154-11	ELECT	47uF	20%	6.3V	I0003	8-759-981-92 IC NUM555M
C035	1-126-154-11	ELECT	47uF	20%	6.3V	I0004	8-752-322-57 IC CXD1077M
C036	1-163-035-00	CERAMIC CHIP	0.047uF	50%		I0005	8-759-908-15 IC TL431CLP
C037	1-126-154-11	ELECT	47uF	20%	6.3V		(COIL)
C038	1-135-156-21	TANTALUM CHIP	6.8uF	10%	6.3V		
C039	1-164-232-11	CERAMIC CHIP	0.01uF	50%		L001	1-408-793-21 INDUCTOR CHIP 220uH
C040	1-164-232-11	CERAMIC CHIP	0.01uF	50%			(TRANSISTOR)
C041	1-109-814-11	CAP. CHIP MICA	220PF			Q001	8-729-202-38 TRANSISTOR 2SC3326H
C042	1-126-154-11	ELECT	47uF	20%	6.3V	Q002	8-729-202-38 TRANSISTOR 2SC3326H
C043	1-126-153-11	ELECT	22uF	20%	6.3V	Q031	8-729-901-06 TRANSISTOR DTA144EK
C044	1-126-154-11	ELECT	47uF	20%	6.3V	Q032	8-729-901-06 TRANSISTOR DTA144EK
C051	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V	Q033	8-729-901-06 TRANSISTOR DTA144EK
C052	1-124-584-00	ELECT	100uF	20%	10V	Q034	8-729-216-22 TRANSISTOR 2SA1162
C053	1-126-154-11	ELECT	47uF	20%	6.3V	Q035	8-729-216-22 TRANSISTOR 2SA1162
C054	1-126-154-11	ELECT	47uF	20%	6.3V	Q051	8-729-202-38 TRANSISTOR 2SC3326H
C055	1-130-490-11	MYLAR	0.038uF	5%	50V	Q052	8-729-202-38 TRANSISTOR 2SC3326H
C056	1-163-125-00	CERAMIC CHIP	220PF	5%	50V		(RESISTOR)
C057	1-130-479-00	MYLAR	0.0047uF	5%	50V	R001	1-216-043-00 METAL CHIP 560 5% 1/10W
C058	1-126-154-11	ELECT	47uF	20%	6.3V	R002	1-216-078-00 METAL GLAZE 16K 5% 1/10W
C059	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	R003	1-216-072-00 METAL CHIP 9.1K 5% 1/10W
C060	1-126-154-11	ELECT	47uF	20%	6.3V	R004	1-216-089-00 METAL CHIP 47K 5% 1/10W
C061	1-130-469-00	MYLAR	660PF	5%	50V	R005	1-216-073-00 METAL CHIP 10K 5% 1/10W
C062	1-130-482-00	MYLAR	0.0082uF	5%	50V	R006	1-216-005-00 METAL CHIP 4.7K 5% 1/10W
C063	1-135-149-21	TANTALUM CHIP	2.2uF	20%	10V	R007	1-216-073-00 METAL CHIP 10K 5% 1/10W
C064	1-135-156-21	TANTALUM CHIP	6.8uF	10%	6.3V	R008	1-216-058-00 METAL CHIP 2.7K 5% 1/10W
C065	1-135-072-21	TANTALUM CHIP	0.22uF	10%	35V	R009	1-216-045-00 METAL CHIP 880 5% 1/10W
C066	1-126-153-11	ELECT	22uF	20%	6.3V	PD10	1-216-057-00 METAL CHIP 2.2K 5% 1/10W
C067	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	PD12	1-216-677-11 METAL CHIP 12K 0.5% 1/10W
C068	1-126-153-11	ELECT	22uF	20%	6.3V		
C069	1-126-153-11	ELECT	22uF	20%	6.3V		

PD-19 POWER BLOCK

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R885	1-216-073-00	METAL CHIP	10K 5% 1/10W	C708	1-123-875-11	ELECT	10MF 50V
R887	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	C209	9-993-704-01	ELECT	1500NF 50V
R888	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	C210	9-993-704-01	ELECT	1500NF 10V
R889	1-216-073-00	METAL CHIP	10K 5% 1/10W	C211	Δ 9-993-706-01	ELECT	1MF 50V
R890	1-216-085-00	METAL CHIP	33K 5% 1/10W	C212	Δ 9-993-704-01	ELECT	1500NF 10V
R891	1-216-295-00	METAL CHIP	0 5% 1/10W	C213	1-124-787-11	ELECT	47MF 35V
		(VARIABLE RESISTOR)		C214	1-123-875-11	ELECT	10MF 50V
R9351	1-230-859-11	RES. ADJ. METAL 4 7K		C215	1-123-875-11	ELECT	10MF 50V
R9354	1-230-858-11	RES. ADJ. METAL 2 2K		C216	1-130-483-11	MYLAR	0.01MF 50V
		(CRYSTAL)		C217	1-130-483-11	MYLAR	0.01MF 50V
X851	1-567-669-91	VIBRATOR, LITHIUM TANTALATE		C218	9-993-704-01	ELECT	1500NF 10V
X852	1-567-346-11	OSCILLATOR, CERAMIC (SWR2)		C219	1-136-233-21	FILM	0.1MF 63V
				C220	9-993-206-01	ELECT	1MF 50V
						(DIODE)	
				D101	Δ 8-719-500-04	DIODE 51MB40	
				D102	9-993-709-01	DIODE SM-1FX05	
				D103	9-993-710-01	DIODE 1S5144	
				D104	9-993-711-01	DIODE DS442	
				D105	9-993-711-01	DIODE DS442	
				D201	8-719-907-40	DIODE E7843-02	
				D202	9-993-712-04	DIODE F40P040	
				D203	9-993-712-04	DIODE F40P040	
				D204	8-719-200-29	DIODE 1E0004	
				D205	8-719-907-40	DIODE E7843-02	
				D206	8-719-200-82	DIODE 11ES2	
				D207	8-719-200-82	DIODE 11ES2	
				D208	8-719-200-82	DIODE 11ES2	
						(FUSE)	
				F101	Δ 1-532-734-11	FUSE, GLASS TUBE (2A 125V)	
						(IC)	
				IC201	Δ 8-759-605-43	IC MS231TL	
				IC202	Δ 8-159-605-43	IC MS231TL	
				IC203	9-993-714-01	IC LS431	
				IC204	9-993-707-01	IC 97L03A	
						(COIL)	
				L101	Δ 9-993-715-01	COIL, CHOKER 5016V-10060	
				L201	9-993-716-01	COIL, CHOKER 50V	

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ ou une ligne pointillée avec une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C879	1-163-035-00	CERAMIC CHIP	0.047uF	50V			
C880	1-135-156-21	TANTALUM CHIP	6.8uF	10% 6.3V			
C881	1-163-035-00	CERAMIC CHIP	0.047uF	50V			
C882	1-163-035-00	CERAMIC CHIP	0.047uF	50V			
C884	1-163-035-00	CERAMIC CHIP	0.047uF	50V			
C885	1-163-105-00	CERAMIC CHIP	33PF	5% 50V			
C886	1-163-105-00	CERAMIC CHIP	33PF	5% 50V			
C887	1-163-035-00	CERAMIC CHIP	0.047uF	50V			
C888	1-163-035-00	CERAMIC CHIP	0.047uF	50V			
C889	1-135-156-21	TANTALUM CHIP	6.8uF	10% 6.3V			
(CONNECTOR)							
C851	1-565-107-21	PIR. CONNECTOR (PC BOARD) 35P					
C852	1-565-107-21	PIR. CONNECTOR (PC BOARD) 35P					
C853	1-506-777-11	CONNECTOR BOARD TO BOARD 20P					
(DIODE)							
D851	8-719-104-34	DIODE 1S280G					
D852	8-719-400-18	DIODE MA152MK					
D853	8-719-400-18	DIODE MA152MK					
(IC)							
IC854	8-752-324-45	IC CXD10680-Z					
IC852	8-759-929-17	IC CXD105AM					
IC853	8-752-010-30	IC CX20103					
IC854	8-752-010-20	IC CX20102					
IC855	8-752-331-00	IC CXK5864EM-12L					
IC856	8-759-948-61	IC CX23071-C					
IC857	8-758-911-19	IC CX23012					
IC858	8-759-972-12	IC CF77309SF					
IC859	8-752-809-68	IC CXPS024H-0790					
IC860	8-759-972-13	IC CF77309SFR					
(COIL)							
L851	1-410-393-11	INDUCTOR CHIP 100uH					
L852	1-410-393-11	INDUCTOR CHIP 100uH					
L853	1-410-393-11	INDUCTOR CHIP 100uH					
L855	1-410-393-11	INDUCTOR CHIP 100uH					
L856	1-410-393-11	INDUCTOR CHIP 100uH					
L857	1-410-393-11	INDUCTOR CHIP 100uH					
L858	1-410-393-11	INDUCTOR CHIP 100uH					
L859	1-410-393-11	INDUCTOR CHIP 100uH					
L860	1-410-393-11	INDUCTOR CHIP 100uH					
L861	1-410-393-11	INDUCTOR CHIP 100uH					
L862	1-410-393-11	INDUCTOR CHIP 100uH					
(TRANSISTOR)							
Q851	8-729-102-07	TRANSISTOR 2SC2223					
Q852	8-729-122-63	TRANSISTOR 2SA1226					
Q853	8-729-102-06	TRANSISTOR 2SC2223					
Q853	8-729-102-07	TRANSISTOR 2SC2223					
(RESISTOR)							
R851	1-216-073-00	METAL CHIP	10K 5% 1/10W				
R852	1-216-085-00	METAL CHIP	33K 5% 1/10W				
R853	1-216-033-00	METAL CHIP	220 5% 1/10W				
R854	1-216-061-00	METAL CHIP	3.3K 5% 1/10W				
R855	1-216-084-00	METAL CHIP	22K 5% 1/10W				
R856	1-216-079-00	METAL CHIP	18K 5% 1/10W				
R857	1-216-077-00	METAL CHIP	15K 5% 1/10W				
R858	1-216-077-00	METAL CHIP	15K 5% 1/10W				
R859	1-216-049-00	METAL CHIP	1K 5% 1/10W				
R860	1-216-071-00	METAL CHIP	8.2K 5% 1/10W				
R861	1-216-065-00	METAL CHIP	4.7K 5% 1/10W				
R862	1-216-025-00	METAL CHIP	100 5% 1/10W				
R863	1-216-041-00	METAL CHIP	470 5% 1/10W				
R864	1-216-049-00	METAL CHIP	1K 5% 1/10W				
R866	1-216-041-00	METAL CHIP	470 5% 1/10W				
R867	1-216-295-00	METAL CHIP	0 5% 1/10W				
R868	1-216-295-00	METAL CHIP	0 5% 1/10W				
R869	1-216-061-00	METAL CHIP	3.3K 5% 1/10W				
R870	1-216-049-00	METAL CHIP	1K 5% 1/10W				
R871	1-216-049-00	METAL CHIP	1K 5% 1/10W				
R872	1-216-049-00	METAL CHIP	1K 5% 1/10W				
R873	1-216-041-00	METAL CHIP	470 5% 1/10W				
R874	1-216-053-00	METAL CHIP	1.5K 5% 1/10W				
R875	1-216-295-00	METAL CHIP	0 5% 1/10W				
R876	1-216-045-00	METAL CHIP	680 5% 1/10W				
R879	1-216-051-00	METAL CHIP	1.2K 5% 1/10W				
R880	1-216-071-00	METAL CHIP	8.2K 5% 1/10W				
R881	1-216-051-00	METAL CHIP	1.2K 5% 1/10W				
R882	1-216-043-00	METAL CHIP	560 5% 1/10W				
R883	1-216-073-00	METAL CHIP	10K 5% 1/10W				
R884	1-216-073-00	METAL CHIP	10K 5% 1/10W				

RP-73 (LP)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C025	1-164-232-11	CERAMIC CHIP	0.01uF			(TRANSISTOR)	
C027	1-135-091-06	TANTALUM CHIP	1uF				
C028	1-163-809-11	CERAMIC CHIP	0.047uF	0002	8-729-102-07	TRANSISTOR 2SC2223-F13	
C029	1-163-809-11	CERAMIC CHIP	0.047uF	0003	8-729-102-07	TRANSISTOR 2SC2223-F13	
C030	1-162-974-11	CERAMIC CHIP	0.01uF			(RESISTOR)	
C031	1-164-218-11	CERAMIC CHIP	180PF				
C032	1-162-918-11	CERAMIC CHIP	18PF	R001	1-216-089-00	METAL CHIP	47K 5% 1/10W
C033	1-163-809-11	CERAMIC CHIP	0.047uF	R002	1-216-073-00	METAL CHIP	10K 5% 1/10W
C034	1-162-912-11	CERAMIC CHIP	7PF	R003	1-216-081-00	METAL CHIP	22K 5% 1/10W
C035	1-162-974-11	CERAMIC CHIP	0.01uF	R004	1-216-055-00	METAL CHIP	1.8K 5% 1/10W
C036	1-164-218-11	CERAMIC CHIP	180PF	R005	1-216-824-11	METAL CHIP	1.8K 5% 1/16W
C037	1-162-918-11	CERAMIC CHIP	18PF	R006	1-216-081-00	METAL CHIP	22K 5% 1/10W
C038	1-163-809-11	CERAMIC CHIP	0.047uF	R007	1-216-834-11	METAL CHIP	12K 5% 1/16W
C039	1-162-912-11	CERAMIC CHIP	7PF	R008	1-216-835-11	METAL CHIP	15K 5% 1/16W
C040	1-162-913-11	CERAMIC CHIP	8PF	R009	1-216-081-00	METAL CHIP	22K 5% 1/10W
C041	1-162-913-11	CERAMIC CHIP	8PF	R010	1-216-089-00	METAL CHIP	47K 5% 1/10W
C042	1-135-157-21	TANTALUM CHIP	10uF	R011	1-216-073-00	METAL CHIP	10K 5% 1/10W
C043	1-135-157-21	TANTALUM CHIP	10uF	R012	1-216-081-00	METAL CHIP	22K 5% 1/10W
C044	1-162-974-11	CERAMIC CHIP	0.01uF	R013	1-216-055-00	METAL CHIP	1.8K 5% 1/10W
C045	1-163-097-00	CERAMIC CHIP	15PF	R014	1-216-824-11	METAL CHIP	1.8K 5% 1/16W
C046	1-163-097-00	CERAMIC CHIP	15PF	R015	1-216-085-00	METAL CHIP	33K 5% 1/10W
		(DIODE)		R016	1-216-081-00	METAL CHIP	22K 5% 1/10W
D001	8-719-801-41	DIODE 1SS196		R017	1-216-085-00	METAL CHIP	33K 5% 1/10W
D002	8-719-801-41	DIODE 1SS196		R018	1-216-081-00	METAL CHIP	22K 5% 1/10W
		(IC)		R019	1-216-089-00	METAL CHIP	47K 5% 1/10W
IC001	8-752-033-00	IC CXA1234AR		R020	1-216 055-00	METAL CHIP	1.8K 5% 1/10W
		(COIL)		R021	1-216-055-00	METAL CHIP	1.8K 5% 1/10W
L001	1-410-385-11	INDUCTOR CHIP	22uH	R026	1-216-837-11	METAL CHIP	22K 5% 1/16W
L002	1-410-386-11	INDUCTOR CHIP	150uH	R027	1-216-833-11	METAL CHIP	10K 5% 1/16W
L004	1-410-393-11	INDUCTOR CHIP	100uH	R028	1-216-797-11	METAL CHIP	10 5% 1/16W
L005	1-410-381-11	INDUCTOR CHIP	10uH	R029	1-216-842-11	METAL CHIP	180 5% 1/16W
L007	1-410-393-11	INDUCTOR CHIP	100uH	R030	1-216-837-11	METAL CHIP	22K 5% 1/16W
L008	1-410-384-31	INDUCTOR CHIP	18uH	R031	1-216-833-11	METAL CHIP	10K 5% 1/16W
L009	1-410-384-31	INDUCTOR CHIP	18uH	R032	1-216-797-11	METAL CHIP	10 5% 1/16W
L031	1-408-777-00	INDUCTOR CHIP	10uH	R033	1-216-842-11	METAL CHIP	180 5% 1/16W
L041	1-408-793-21	INDUCTOR CHIP	220uH			(VARIABLE RESISTOR)	
L042	1-408-777-00	INDUCTOR CHIP	10uH	RV001	1-230-871-11	RES. ADJ. METAL	22K
L051	1-408-785-21	INDUCTOR CHIP	47uH	RV002	1-230-871-11	RES. ADJ. METAL	22K
				RV003	1-230-869-11	RES. ADJ. METAL	4.7K
				RV004	1-230-869-11	RES. ADJ. METAL	4.7K

RP-73 (SP) RS-31

Ref. No.	Part No.	Description	QTY	UNIT	REMARK
R011	1-216-075-00	METAL CHIP	10K	5%	1/10W
R012	1-216-084-00	METAL CHIP	22K	5%	1/10W
R013	1-216-055-00	METAL CHIP	1.5K	5%	1/10W
R014	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R015	1-216-085-00	METAL CHIP	33K	5%	1/10W
R016	1-216-081-00	METAL CHIP	22K	5%	1/10W
R017	1-216-085-00	METAL CHIP	33K	5%	1/10W
R018	1-216-084-00	METAL CHIP	22K	5%	1/10W
R019	1-216-089-00	METAL CHIP	47K	5%	1/10W
R020	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R021	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R026	1-216-837-11	METAL CHIP	22K	5%	1/10W
R027	1-216-833-11	METAL CHIP	10K	5%	1/10W
R028	1-216-797-11	METAL CHIP	10	5%	1/10W
R029	1-216-812-11	METAL CHIP	180	5%	1/10W
R030	1-216-837-11	METAL CHIP	22K	5%	1/10W
R031	1-216-833-11	METAL CHIP	10K	5%	1/10W
R032	1-216-757-11	METAL CHIP	10	5%	1/10W
R033	1-216-812-11	METAL CHIP	180	5%	1/10W
(VARIABLE RESISTOR)					
RV001	1-230-871-11	RES. ADJ. METAL 22K			
RV002	1-230-871-11	RES. ADJ. METAL 22K			
RV003	1-230-869-11	RES. ADJ. METAL 4.7K			
RV004	1-230-869-11	RES. ADJ. METAL 4.7K			

+ 4-7061-818-A RS-31 BOARD, COMPLETE *****					
+ 1-558-762-11 WIRE, FLAT TYPE 22P 3-712-410-01 HOLDER, RS 3-722-175-01 SPACER, NO (CONNECTOR)					
CH001	1-506-484-11	CONNECTOR 2P, MALE			
CH002	1-506-484-11	CONNECTOR 2P, MALE			
CH004	+ 1-563-494-11	CONNECTOR, F.P.C. 6P			
CH005	+ 1-565-214-11	CONNECTOR, FPC (21P) 22P (DIODE)			
D030	8-719-800-76	DIODE 155226			

Ref. No.	Part No.	Description	QTY	UNIT	REMARK
D031	8-719-800-76	DIODE 155226			
(IC)					
IC001	8-759-908-81	IC MC3763PF			
IC002	8-759-908-81	IC MC3763PF (PHOTO INTERRUPTER)			
PH001	8-719-939-11	PHOTO INTERRUPTER GP-2509-B			
PH002	8-719-939-11	PHOTO INTERRUPTER GP-2509-B			
PH003	8-719-939-11	PHOTO INTERRUPTER GP-2509-B (LINK IC)			
PS001	1-532-727-11	LINK IC (0.25A 125V) (TRANSISTOR)			
Q004	8-729-805-25	TRANSISTOR 2SB1121			
Q002	8-729-216-22	TRANSISTOR 2SA1182			
Q003	8-729-216-22	TRANSISTOR 2SA1182			
Q004	8-729-216-22	TRANSISTOR 2SA1182			
Q005	8-729-501-01	TRANSISTOR DFC144EX			
Q006	8-729-901-01	TRANSISTOR DFC144EX			
Q007	8-729-901-01	TRANSISTOR DFC144EX (RESISTOR)			
R002	1-216-174-00	METAL GLAZE	100	5%	1/8W
R003	1-216-186-00	METAL GLAZE	330	5%	1/8W
R004	1-216-089-00	METAL CHIP	47K	5%	1/10W
R005	1-216-089-00	METAL CHIP	47K	5%	1/10W
R006	1-216-089-00	METAL CHIP	47K	5%	1/10W
R007	1-216-073-00	METAL CHIP	10K	5%	1/10W
R008	1-216-073-00	METAL CHIP	10K	5%	1/10W
R009	1-216-073-00	METAL CHIP	10K	5%	1/10W
R020	1-216-041-00	METAL CHIP	470	5%	1/10W
R021	1-216-041-00	METAL CHIP	470	5%	1/10W
R022	1-216-073-00	METAL CHIP	10K	5%	1/10W
R023	1-216-073-00	METAL CHIP	10K	5%	1/10W
R024	1-216-073-00	METAL CHIP	10K	5%	1/10W
R025	1-216-073-00	METAL CHIP	10K	5%	1/10W
R026	1-216-073-00	METAL CHIP	10K	5%	1/10W
R027	1-216-073-00	METAL CHIP	10K	5%	1/10W
R028	1-216-073-00	METAL CHIP	10K	5%	1/10W

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
*****					C042	1-135-157-21	TANTALUM CHIP	10uF	20% 6.3V
*****					C043	1-135-157-21	TANTALUM CHIP	10uF	20% 6.3V
*****					C044	1-162-974-11	CERAMIC CHIP	0.01uF	50V
*****					C045	1-162-097-00	CERAMIC CHIP	15PF	5% 50V
*****					C046	1-162-097-00	CERAMIC CHIP	15PF	5% 50V
*****					(DFODE)				
C001	1-162-974-11	CERAMIC CHIP	0.01uF	50V	D001	8-719-801-41	DIODE 1SS196		
C002	1-184-232-11	CERAMIC CHIP	0.01uF	50V	D002	8-719-801-41	DIODE 1SS196		
C003	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	(IC)				
C005	1-164-330-21	CERAMIC CHIP	0.22uF	10% 16V	I0001	8-752-033-00	IC CKA1234AR		
C006	1-135-161-21	TANTALUM CHIP	22uF	10% 6.3V	(COIL)				
C007	1-163-077-00	CERAMIC CHIP	0.1uF	10% 25V	L001	1-410-385-11	INDUCTOR CHIP 22uH		
C008	1-184-232-11	CERAMIC CHIP	0.01uF	50V	L002	1-410-656-11	INDUCTOR CHIP 150uH		
C009	1-163-035-00	CERAMIC CHIP	0.047uF	50V	L004	1-410-393-11	INDUCTOR CHIP 700uH		
C010	1-163-077-00	CERAMIC CHIP	0.1uF	10% 25V	L005	1-410-381-11	INDUCTOR CHIP 10uH		
C011	1-164-232-11	CERAMIC CHIP	0.01uF	50V	L007	1-410-393-11	INDUCTOR CHIP 100uH		
C012	1-164-330-21	CERAMIC CHIP	0.22uF	10% 16V	L008	1-410-384-21	INDUCTOR CHIP 15uH		
C013	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	L009	1-410-384-31	INDUCTOR CHIP 3uH		
C015	1-162-974-11	CERAMIC CHIP	0.01uF	50V	L031	1-408-777-00	INDUCTOR CHIP 10uH		
C016	1-164-232-11	CERAMIC CHIP	0.01uF	50V	L041	1-408-783-21	INDUCTOR CHIP 220uH		
C017	1-164-232-11	CERAMIC CHIP	0.01uF	50V	L042	1-408-777-00	INDUCTOR CHIP 10uH		
C020	1-164-232-11	CERAMIC CHIP	0.01uF	50V	L051	1-408-785-21	INDUCTOR CHIP 47uH		
C021	1-162-974-11	CERAMIC CHIP	0.01uF	50V	(TRANSISTOR)				
C022	1-135-094-00	TANTALUM CHIP	1uF	20% 16V	Q002	8-729-102-07	TRANSISTOR 2SC2223-F13		
C023	1-135-157-21	TANTALUM CHIP	10uF	20% 6.3V	Q003	8-729-102-07	TRANSISTOR 2SC2223-F13		
C024	1-184-232-11	CERAMIC CHIP	0.01uF	50V	(RESISTOR)				
C025	1-184-232-11	CERAMIC CHIP	0.01uF	50V	R001	1-216-089-00	METAL CHIP 47K 5% 1/10W		
C027	1-135-094-00	TANTALUM CHIP	1uF	20% 16V	R002	1-216-073-00	METAL CHIP 10K 5% 1/10W		
C028	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	R003	1-216-081-00	METAL CHIP 22K 5% 1/10W		
C029	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	R004	1-216-055-00	METAL CHIP 1.5K 5% 1/10W		
C030	1-162-974-11	CERAMIC CHIP	0.01uF	50V	R005	1-216-024-13	METAL CHIP 1.5K 5% 1/10W		
C031	1-164-218-11	CERAMIC CHIP	180PF	0.25PF 50V	R006	1-216-081-00	METAL CHIP 22K 5% 1/10W		
C032	1-162-918-11	CERAMIC CHIP	18PF	5% 50V	R007	1-216-836-11	METAL CHIP 18K 5% 1/10W		
C033	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	R008	1-216-837-13	METAL CHIP 22K 5% 1/10W		
C034	1-162-912-11	CERAMIC CHIP	7PF	0.5PF 50V	R009	1-216-081-00	METAL CHIP 22K 5% 1/10W		
C035	1-162-974-11	CERAMIC CHIP	0.01uF	50V	R010	1-216-089-00	METAL CHIP 47K 5% 1/10W		
C036	1-164-218-11	CERAMIC CHIP	180PF	0.25PF 50V					
C037	1-162-918-11	CERAMIC CHIP	18PF	5% 50V					
C038	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V					
C039	1-162-912-11	CERAMIC CHIP	7PF	0.5PF 50V					
C040	1-162-913-11	CERAMIC CHIP	8PF	0.5PF 50V					
C041	1-162-913-11	CERAMIC CHIP	8PF	0.5PF 50V					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R329	1-216-073-00	METAL CHIP	10K 5% 1/10W	C102	1-164-232-11	CERAMIC CHIP 0.01uF	50V
R330	1-216-073-00	METAL CHIP	10K 5% 1/10W	C103	1-164-232-11	CERAMIC CHIP 0.01uF	50V
R331	1-216-073-00	METAL CHIP	10K 5% 1/10W	C104	1-164-232-11	CERAMIC CHIP 0.01uF	50V
R332	1-216-073-00	METAL CHIP	10K 5% 1/10W	C105	1-163-263-11	CERAMIC CHIP 330PF 5% 50V	
				C106	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	
				C107	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	

	* X-T861-823-A SE-10 BOARD, COMPLETE						

	3-831-441-XX CUSHION (S)						
	(CAPACITOR)						
C006	1-126-157-11	ELECT	10uF 20% 16V	C113	1-163-809-11	CERAMIC CHIP 0.047uF 10% 25V	
C008	1-163-095-00	CERAMIC CHIP	12PF 5% 50V	C114	1-163-017-00	CERAMIC CHIP 0.0047uF 5% 50V	
C009	1-163-095-00	CERAMIC CHIP	12PF 5% 50V	C115	1-126-157-11	ELECT 10uF 20% 16V	
C010	1-163-105-00	CERAMIC CHIP	33PF 5% 50V	C116	1-124-499-11	ELECT. NONPOLAR1uF 20% 50V	
C011	1-163-105-00	CERAMIC CHIP	33PF 5% 50V	C117	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	
C012	1-126-163-11	ELECT	4.7uF 20% 50V	C119	1-163-017-00	CERAMIC CHIP 0.0047uF 5% 50V	
C013	1-126-157-11	ELECT	10uF 20% 16V	C120	1-163-209-00	CERAMIC CHIP 0.0015uF 5% 50V	
C014	1-163-105-00	CERAMIC CHIP	33PF 5% 50V	C121	1-163-209-00	CERAMIC CHIP 0.0015uF 5% 50V	
C015	1-163-105-00	CERAMIC CHIP	33PF 5% 50V	C122	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C016	1-163-077-00	CERAMIC CHIP	0.1uF 10% 25V	C127	1-163-809-11	CERAMIC CHIP 0.047uF 10% 25V	
C017	1-163-254-11	CERAMIC CHIP	100PF 5% 50V	C128	1-124-767-00	ELECT 2.2uF 20% 50V	
C018	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C129	1-126-163-11	ELECT 4.7uF 20% 50V	
C019	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C130	1-163-809-11	CERAMIC CHIP 0.047uF 10% 25V	
C020	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C131	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C021	1-163-035-00	CERAMIC CHIP	0.1uF 25V	C132	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C022	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C133	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C024	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C134	1-124-499-11	ELECT. NONPOLAR1uF 20% 50V	
C025	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C135	1-163-017-00	CERAMIC CHIP 0.0047uF 5% 50V	
C026	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C136	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C027	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C137	1-124-765-11	ELECT 4.7uF 20% 50V	
C028	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C201	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
C031	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C202	1-163-123-00	CERAMIC CHIP 180PF 5% 50V	
C032	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C203	1-163-137-00	CERAMIC CHIP 880PF 5% 50V	
C033	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C204	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	
C034	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C205	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C035	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C206	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C036	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C207	1-163-141-00	CERAMIC CHIP 0.001uF 5% 50V	
C037	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C208	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V	
C101	1-126-157-11	ELECT	10uF 20% 16V	C209	1-163-809-11	CERAMIC CHIP 0.047uF 10% 25V	
				C210	1-124-234-00	ELECT 22uF 20% 16V	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
L101	1-408-777-00	INDUCTOR CHIP 10uH		0117	8-729-901-06	TRANSISTOR DTA144EK	
L401	1-408-777-00	INDUCTOR CHIP 10uH		0202	8-729-216-22	TRANSISTOR 2SA1162	
L402	1-408-777-00	INDUCTOR CHIP 10uH		0205	8-729-901-01	TRANSISTOR DTC144EK	
L403	1-408-783-00	INDUCTOR CHIP 33uH		0209	8-729-901-06	TRANSISTOR DTA144EK	
L404	1-408-777-00	INDUCTOR CHIP 10uH		0210	8-729-901-01	TRANSISTOR DTC144EK	
L501	1-408-777-00	INDUCTOR CHIP 10uH		0301	8-729-901-06	TRANSISTOR DTA144EK	
L501	1-408-777-00	INDUCTOR CHIP 10uH		0302	8-729-901-01	TRANSISTOR DTC144EK	
L502	1-408-777-00	INDUCTOR CHIP 10uH		0303	8-729-901-01	TRANSISTOR DTC144EK	
		(LINK IC)		0304	8-729-901-01	TRANSISTOR DTC144EK	
				0305	8-729-901-01	TRANSISTOR DTC144EK	
				0306	8-729-901-06	TRANSISTOR DTA144EK	
PS601	△ 1-532-678-00	LINK IC		0307	8-729-901-01	TRANSISTOR DTC144EK	
		(TRANSISTOR)		0308	8-729-901-01	TRANSISTOR DTC144EK	
				0309	8-729-901-01	TRANSISTOR DTC144EK	
0002	8-729-901-04	TRANSISTOR DTC144EK		0401	8-729-216-22	TRANSISTOR 2SA1162	
0003	8-729-901-06	TRANSISTOR DTA144EK		0402	8-729-100-66	TRANSISTOR 2SC1623	
0004	8-729-901-01	TRANSISTOR DTC144EK		0403	8-729-100-66	TRANSISTOR 2SC1623	
0005	8-729-901-01	TRANSISTOR DTC144EK		0404	8-729-216-22	TRANSISTOR 2SA1162	
0006	8-729-901-01	TRANSISTOR DTC144EK		0405	8-729-100-66	TRANSISTOR 2SC1623	
0007	8-729-901-01	TRANSISTOR DTC144EK		0406	8-729-216-22	TRANSISTOR 2SA1162	
0008	8-729-901-04	TRANSISTOR DTC144EK		0407	8-729-100-66	TRANSISTOR 2SC1623	
0009	8-729-901-01	TRANSISTOR DTC144EK		0408	8-729-216-22	TRANSISTOR 2SA1162	
0010	8-729-901-06	TRANSISTOR DTA144EK		0409	8-729-100-66	TRANSISTOR 2SC1623	
0011	8-729-901-06	TRANSISTOR DTA144EK		0410	8-729-100-66	TRANSISTOR 2SC1623	
0014	8-729-901-01	TRANSISTOR DTC144EK		0411	8-729-100-66	TRANSISTOR 2SC1623	
0015	8-729-901-01	TRANSISTOR DTC144EK		0502	8-729-100-66	TRANSISTOR 2SC1623	
0016	8-729-901-01	TRANSISTOR DTC144EK		0503	8-729-901-06	TRANSISTOR DTA144EK	
0101	8-729-901-06	TRANSISTOR DTA144EK		0504	8-729-100-66	TRANSISTOR 2SC1623	
0102	8-729-901-06	TRANSISTOR DTA144EK		0505	8-729-100-66	TRANSISTOR 2SC1623	
0103	8-729-901-06	TRANSISTOR DTA144EK		0506	8-729-100-66	TRANSISTOR 2SC1623	
0104	8-729-901-01	TRANSISTOR DTC144EK		0507	8-729-901-06	TRANSISTOR DTA144EK	
0106	8-729-100-66	TRANSISTOR 2SC1623		0508	8-729-901-06	TRANSISTOR DTA144EK	
0107	8-729-901-06	TRANSISTOR DTA144EK		0601	8-729-901-06	TRANSISTOR DTA144EK	
0108	8-729-901-06	TRANSISTOR DTA144EK		0604	8-729-805-25	TRANSISTOR 2SB1121	
0109	8-729-901-06	TRANSISTOR DTA144EK		0605	8-729-100-66	TRANSISTOR 2SC1623	
0110	8-729-901-06	TRANSISTOR DTA144EK		0606	8-729-901-06	TRANSISTOR DTA144EK	
0111	8-729-100-66	TRANSISTOR 2SC1623		0701	8-729-901-06	TRANSISTOR DTA144EK	
0112	8-729-901-01	TRANSISTOR DTC144EK		0702	8-729-901-06	TRANSISTOR DTA144EK	
0113	8-729-901-01	TRANSISTOR DTC144EK		0703	8-729-901-01	TRANSISTOR DTC144EK	
0114	8-729-901-01	TRANSISTOR DTC144EK		0704	8-729-216-22	TRANSISTOR 2SA1162	
0115	8-729-901-01	TRANSISTOR DTC144EK		0705	8-729-216-22	TRANSISTOR 2SA1162	
0116	8-729-901-06	TRANSISTOR DTA144EK		0706	8-729-100-66	TRANSISTOR 2SC1623	

The components identified by mark △ or dotted line with mark △, are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △, sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
CA011	1-585-212-11	CONNECTOR, FPC (ZIF) 20P		DT01	8-719-400-18	DIODE MA152MK	
CA012	1-585-211-11	CONNECTOR, FPC (ZIF) 22P				(FILTER)	
CA901	1-506-473-11	CONNECTOR 8P, MALE		FL201	1-235-611-11	BPF	
CA902	1-506-477-11	CONNECTOR 12P, MALE		FL202	1-235-612-11	BPF	
CA903	1-506-478-11	CONNECTOR 13P, MALE				(IC)	
CA904	1-506-470-11	CONNECTOR 3P, MALE					
CA905	1-506-474-11	CONNECTOR 9P, MALE		IC001	8-752-816-72	IC CXP80416-8020	
CA906	1-506-472-11	CONNECTOR 7P, MALE		IC002	8-752-817-63	IC CXP5042H-2430	
CA907	1-506-477-11	CONNECTOR 12P, MALE		IC003	8-752-815-13	IC CXP5042H-2220	
		(DIODE)		IC004	8-759-144-21	IC WPD751080-573	
				IC007	8-759-068-67	IC TC4068BF	
D003	8-719-400-18	DIODE MA152MK		IC008	8-759-807-56	IC S-2054ALB-LW	
D004	8-719-400-18	DIODE MA152MK		IC009	8-759-209-15	IC TC43016F	
D005	8-719-400-18	DIODE MA152MK		IC101	8-752-003-50	IC CX20035	
D006	8-719-104-34	DIODE 1S2836		IC102	8-759-805-47	IC LA6059M	
D007	8-719-400-18	DIODE MA152MK		IC103	8-759-925-66	IC BA6303F	
D008	8-719-400-18	DIODE MA152MK		IC104	8-759-981-75	IC RC3403AM	
D009	8-719-400-18	DIODE MA152MK		IC105	8-759-360-71	IC TC4053BF	
D012	8-719-400-18	DIODE MA152MK		IC106	8-759-971-25	IC MB674169U	
D013	8-719-400-18	DIODE MA152MK		IC107	8-759-100-94	IC WPC358Q2	
D015	8-719-104-34	DIODE 1S2836		IC108	8-759-008-67	IC TC4068BF	
D016	8-719-104-34	DIODE 1S2836		IC201	8-759-928-56	IC CXA1942M	
D018	8-719-400-18	DIODE MA152MK		IC202	8-759-150-05	IC WPC324G2	
D101	8-719-800-76	DIODE 1S5228		IC203	8-759-300-71	IC TC4053BF	
D102	8-719-800-76	DIODE 1S5228		IC204	8-759-927-46	IC SN74HC00ANS	
D104	8-719-104-34	DIODE 1S2836		IC205	8-759-035-93	IC TC7532F	
D105	8-719-400-18	DIODE MA152MK		IC301	8-759-100-94	IC WPC358Q2	
D106	8-719-400-18	DIODE MA152MK		IC302	8-759-300-71	IC TC4053BF	
D107	8-719-104-34	DIODE 1S2836		IC303	8-759-300-71	IC TC4053BF	
D108	8-719-400-18	DIODE MA152MK		IC304	8-759-200-90	IC TC4538BF	
D109	8-719-400-18	DIODE MA152MK		IC305	8-759-927-46	IC SN74HC00ANS	
D110	8-719-104-34	DIODE 1S2836		IC601	8-759-927-94	IC BU379TF	
D111	8-719-400-18	DIODE MA152MK		IC602	8-759-927-52	IC BA7036LS	
D112	8-719-104-34	DIODE 1S2836		IC603	8-759-200-93	IC WPC393Q2	
D115	8-719-104-34	DIODE 1S2836		IC604	8-759-150-05	IC WPC324G2	
D201	8-719-400-18	DIODE MA152MK		IC651	8-759-711-79	IC NJM27338M	
D203	8-719-106-82	DIODE PDS, 1W				(COIL)	
D203	8-719-105-83	DIODE PDS, 1W		L001	1-408-777-00	INDUCTOR CHIP 10uH	
D301	8-719-400-18	DIODE MA152MK		L002	1-408-777-00	INDUCTOR CHIP 10uH	
D302	8-719-400-18	DIODE MA152MK		L003	1-408-777-00	INDUCTOR CHIP 10uH	
D401	8-719-800-76	DIODE 1S5228					

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R081	1-216-080-00	METAL CHIP	20K 5% 1/10M	R124	1-216-085-00	METAL CHIP	33K 5% 1/10M
R082	1-216-080-00	METAL CHIP	20K 5% 1/10M	R125	1-216-113-00	METAL CHIP	470K 5% 1/10M
R083	1-216-080-00	METAL CHIP	20K 5% 1/10M	R126	1-216-113-00	METAL CHIP	470K 5% 1/10M
R084	1-216-080-00	METAL CHIP	20K 5% 1/10M	R127	1-216-105-00	METAL CHIP	220K 5% 1/10M
R085	1-216-073-00	METAL CHIP	10K 5% 1/10M	R128	1-216-053-00	METAL CHIP	68K 5% 1/10M
R086	1-216-073-00	METAL CHIP	10K 5% 1/10M	R129	1-216-097-00	METAL CHIP	100K 5% 1/10M
R087	1-216-073-00	METAL CHIP	10K 5% 1/10M	R130	1-216-097-00	METAL CHIP	100K 5% 1/10M
R088	1-216-073-00	METAL CHIP	10K 5% 1/10M	R131	1-216-097-00	METAL CHIP	100K 5% 1/10M
R089	1-216-073-00	METAL CHIP	10K 5% 1/10M	R132	1-216-121-00	METAL CHIP	1M 5% 1/10M
R090	1-216-073-00	METAL CHIP	10K 5% 1/10M	R133	1-216-091-00	METAL CHIP	56K 5% 1/10M
R091	1-216-073-00	METAL CHIP	10K 5% 1/10M	R135	1-216-073-00	METAL CHIP	10K 5% 1/10M
R092	1-216-089-00	METAL CHIP	47K 5% 1/10M	R137	1-216-663-11	METAL CHIP	3.3K 0.5% 1/10M
R093	1-216-089-00	METAL CHIP	47K 5% 1/10M	R138	1-216-667-11	METAL CHIP	4.7K 0.5% 1/10M
R094	1-216-683-11	METAL CHIP	22K 0.5% 1/10M	R139	1-216-295-00	METAL CHIP	0 5% 1/10M
R095	1-216-091-00	METAL CHIP	56K 5% 1/10M	R140	1-216-296-00	METAL CHIP	0 5% 1/10M
R096	1-216-077-00	METAL CHIP	15K 5% 1/10M	R141	1-216-067-00	METAL CHIP	5.6K 5% 1/10M
R097	1-216-049-00	METAL CHIP	1K 5% 1/10M	R142	1-216-073-00	METAL CHIP	10K 5% 1/10M
R098	1-216-073-00	METAL CHIP	10K 5% 1/10M	R143	1-216-681-11	METAL CHIP	33K 0.5% 1/10M
R099	1-216-049-00	METAL CHIP	1K 5% 1/10M	R148	1-216-089-00	METAL CHIP	47K 5% 1/10M
R101	1-216-079-00	METAL CHIP	18K 5% 1/10M	R149	1-216-097-00	METAL CHIP	100K 5% 1/10M
R102	1-216-085-00	METAL CHIP	33K 5% 1/10M	R150	1-216-073-00	METAL CHIP	10K 5% 1/10M
R103	1-216-049-00	METAL CHIP	1K 5% 1/10M	R151	1-216-081-00	METAL CHIP	22K 5% 1/10M
R104	1-216-069-00	METAL CHIP	5.8K 5% 1/10M	R152	1-216-082-00	METAL GLAZE	24K 5% 1/10M
R105	1-216-083-00	METAL CHIP	27K 5% 1/10M	R153	1-216-073-00	METAL CHIP	10K 5% 1/10M
R106	1-216-109-00	METAL CHIP	330K 5% 1/10M	R154	1-216-073-00	METAL CHIP	10K 5% 1/10M
R107	1-216-073-00	METAL CHIP	10K 5% 1/10M	R155	1-216-049-00	METAL CHIP	1K 5% 1/10M
R108	1-216-091-00	METAL CHIP	56K 5% 1/10M	R156	1-216-097-00	METAL CHIP	100K 5% 1/10M
R109	1-216-061-00	METAL CHIP	3.3K 5% 1/10M	R157	1-216-097-00	METAL CHIP	100K 5% 1/10M
R110	1-216-113-00	METAL CHIP	470K 5% 1/10M	R158	1-216-113-00	METAL CHIP	470K 5% 1/10M
R111	1-216-113-00	METAL CHIP	470K 5% 1/10M	R159	1-216-073-00	METAL CHIP	10K 5% 1/10M
R112	1-216-113-00	METAL CHIP	470K 5% 1/10M	R160	1-216-081-00	METAL CHIP	3.3K 5% 1/10M
R113	1-216-113-00	METAL CHIP	470K 5% 1/10M	R161	1-216-103-00	METAL CHIP	180K 5% 1/10M
R114	1-216-105-00	METAL CHIP	220K 5% 1/10M	R162	1-216-049-00	METAL CHIP	1K 5% 1/10M
R115	1-216-105-00	METAL CHIP	220K 5% 1/10M	R163	1-216-065-00	METAL CHIP	4.7K 5% 1/10M
R116	1-216-095-00	METAL CHIP	120K 5% 1/10M	R164	1-216-073-00	METAL CHIP	10K 5% 1/10M
R117	1-216-117-00	METAL CHIP	680K 5% 1/10M	R165	1-216-073-00	METAL CHIP	10K 5% 1/10M
R118	1-216-081-00	METAL CHIP	22K 5% 1/10M	R167	1-216-097-00	METAL CHIP	100K 5% 1/10M
R119	1-216-117-00	METAL CHIP	680K 5% 1/10M	R168	1-216-091-00	METAL CHIP	56K 5% 1/10M
R120	1-216-295-00	METAL CHIP	0 5% 1/10M	R169	1-216-087-00	METAL CHIP	100K 5% 1/10M
R122	1-216-101-00	METAL CHIP	150K 5% 1/10M	R170	1-216-089-00	METAL CHIP	47K 5% 1/10M
R123	1-216-085-00	METAL CHIP	33K 5% 1/10M	R171	1-216-085-00	METAL CHIP	33K 5% 1/10M
				R172	1-216-089-00	METAL CHIP	47K 5% 1/10M

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q707	8-728-100-66	TRANSISTOR 25C1623		R038	1-216-038-00	METAL CHIP	390 5% 1/10W
Q708	8-729-901-06	TRANSISTOR DTA144EK		R039	1-216-089-00	METAL CHIP	47K 5% 1/10W
Q709	8-729-901-06	TRANSISTOR DTA144EK		R040	1-216-089-00	METAL CHIP	47K 5% 1/10W
Q710	8-729-901-06	TRANSISTOR DTA144EK					
Q711	8-729-901-06	TRANSISTOR DTA144EK		R041	1-216-073-00	METAL CHIP	10K 5% 1/10W
				R043	1-216-089-00	METAL CHIP	47K 5% 1/10W
Q712	8-729-901-06	TRANSISTOR DTA144EK		R044	1-216-049-00	METAL CHIP	1K 5% 1/10W
Q713	8-729-901-01	TRANSISTOR DTC144EK		R045	1-216-089-00	METAL CHIP	47K 5% 1/10W
Q714	8-729-901-01	TRANSISTOR DTC144EK		R046	1-216-049-00	METAL CHIP	1K 5% 1/10W
		(RESISTOR)		R047	1-216-049-00	METAL CHIP	1K 5% 1/10W
R001	1-216-049-00	METAL CHIP	1K 5% 1/10W	R048	1-216-049-00	METAL CHIP	1K 5% 1/10W
R002	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R049	1-216-049-00	METAL CHIP	1K 5% 1/10W
R003	1-216-049-00	METAL CHIP	1K 5% 1/10W	R050	1-216-073-00	METAL CHIP	10K 5% 1/10W
R005	1-216-101-00	METAL CHIP	150K 5% 1/10W	R051	1-216-073-00	METAL CHIP	10K 5% 1/10W
R009	1-216-089-00	METAL CHIP	47K 5% 1/10W	R052	1-216-097-00	METAL CHIP	100K 5% 1/10W
				R053	1-216-097-00	METAL CHIP	100K 5% 1/10W
R010	1-216-049-00	METAL CHIP	1K 5% 1/10W	R054	1-216-073-00	METAL CHIP	10K 5% 1/10W
R011	1-216-049-00	METAL CHIP	1K 5% 1/10W	R055	1-216-073-00	METAL CHIP	10K 5% 1/10W
R012	1-216-049-00	METAL CHIP	1K 5% 1/10W	R056	1-216-073-00	METAL CHIP	10K 5% 1/10W
R013	1-216-049-00	METAL CHIP	1K 5% 1/10W				
R014	1-216-049-00	METAL CHIP	1K 5% 1/10W	R057	1-216-073-00	METAL CHIP	10K 5% 1/10W
				R058	1-216-073-00	METAL CHIP	10K 5% 1/10W
R015	1-216-049-00	METAL CHIP	1K 5% 1/10W	R059	1-216-073-00	METAL CHIP	10K 5% 1/10W
R016	1-216-089-00	METAL CHIP	47K 5% 1/10W	R060	1-216-073-00	METAL CHIP	10K 5% 1/10W
R017	1-216-089-00	METAL CHIP	47K 5% 1/10W	R061	1-216-073-00	METAL CHIP	10K 5% 1/10W
R018	1-216-091-11	METAL CHIP	47K 0.5% 1/10W				
				R062	1-216-039-00	METAL CHIP	390 5% 1/10W
R020	1-216-687-11	METAL CHIP	33K 0.5% 1/10W	R063	1-216-073-00	METAL CHIP	10K 5% 1/10W
R021	1-216-687-11	METAL CHIP	33K 0.5% 1/10W	R064	1-216-073-00	METAL CHIP	10K 5% 1/10W
R022	1-216-687-11	METAL CHIP	33K 0.5% 1/10W	R065	1-216-073-00	METAL CHIP	10K 5% 1/10W
R023	1-216-674-11	METAL CHIP	9.1K 0.5% 1/10W	R066	1-216-073-00	METAL CHIP	10K 5% 1/10W
R024	1-216-089-00	METAL CHIP	47K 5% 1/10W				
				R067	1-216-049-00	METAL CHIP	1K 5% 1/10W
R025	1-216-097-00	METAL CHIP	100K 5% 1/10W	R068	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R026	1-216-073-00	METAL CHIP	10K 5% 1/10W	R069	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R027	1-216-049-00	METAL CHIP	1K 5% 1/10W	R070	1-216-073-00	METAL CHIP	10K 5% 1/10W
R028	1-216-039-00	METAL CHIP	390 5% 1/10W	R071	1-216-079-00	METAL CHIP	18K 5% 1/10W
R029	1-216-049-00	METAL CHIP	1K 5% 1/10W				
				R072	1-216-043-00	METAL CHIP	560 5% 1/10W
R031	1-216-097-00	METAL CHIP	100K 5% 1/10W	R073	1-216-089-00	METAL CHIP	33K 5% 1/10W
R032	1-216-097-00	METAL CHIP	100K 5% 1/10W	R074	1-216-049-00	METAL CHIP	1K 5% 1/10W
R033	1-216-049-00	METAL CHIP	1K 5% 1/10W	R075	1-216-039-00	METAL CHIP	390 5% 1/10W
R034	1-216-089-00	METAL CHIP	47K 5% 1/10W	R076	1-216-080-00	METAL CHIP	20K 5% 1/10W
R035	1-216-089-00	METAL CHIP	47K 5% 1/10W				
				R077	1-216-080-00	METAL CHIP	20K 5% 1/10W
R036	1-216-073-00	METAL CHIP	10K 5% 1/10W	R078	1-216-080-00	METAL CHIP	20K 5% 1/10W
R037	1-216-089-00	METAL CHIP	47K 5% 1/10W	R079	1-216-080-00	METAL CHIP	20K 5% 1/10W
				R080	1-216-080-00	METAL CHIP	20K 5% 1/10W

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark		
R422	1-216-081-00	METAL CHIP	22K 5%	1/10N	R615	1-216-049-00	METAL CHIP	1K 5%	1/10N
R502	1-216-045-00	METAL CHIP	880 5%	1/10N	R616	1-216-073-00	METAL CHIP	10K 5%	1/10N
R503	1-216-077-00	METAL CHIP	15K 5%	1/10N	R617	1-216-121-00	METAL CHIP	1M 5%	1/10N
R504	1-216-073-00	METAL CHIP	10K 5%	1/10N	R618	1-216-049-00	METAL CHIP	1K 5%	1/10N
R505	1-216-093-00	METAL CHIP	220 5%	1/10N	R619	1-216-049-00	METAL CHIP	1K 5%	1/10N
R506	1-216-035-00	METAL CHIP	270 5%	1/10N	R620	1-216-049-00	METAL CHIP	1K 5%	1/10N
R507	1-216-041-00	METAL CHIP	470 5%	1/10N	R621	1-216-049-00	METAL CHIP	1K 5%	1/10N
R508	1-216-076-00	METAL GLAZE	13K 5%	1/10N	R622	1-216-049-00	METAL CHIP	1K 5%	1/10N
R509	1-216-057-00	METAL CHIP	2.2K 5%	1/10N	R623	1-216-049-00	METAL CHIP	1K 5%	1/10N
R510	1-216-051-00	METAL CHIP	1.2K 5%	1/10N	R624	1-216-049-00	METAL CHIP	1K 5%	1/10N
R511	1-216-049-00	METAL CHIP	1K 5%	1/10N	R625	1-216-049-00	METAL CHIP	1K 5%	1/10N
R512	1-216-085-00	METAL CHIP	33K 5%	1/10N	R626	1-216-049-00	METAL CHIP	1K 5%	1/10N
R513	1-216-081-00	METAL CHIP	22K 5%	1/10N	R627	1-216-049-00	METAL CHIP	1K 5%	1/10N
R514	1-216-089-00	METAL CHIP	6.8K 5%	1/10N	R628	1-216-049-00	METAL CHIP	1K 5%	1/10N
R515	1-216-041-00	METAL CHIP	470 5%	1/10N	R629	1-216-049-00	METAL CHIP	1K 5%	1/10N
R551	1-216-073-00	METAL CHIP	10K 5%	1/10N	R630	1-216-049-00	METAL CHIP	1K 5%	1/10N
R552	1-216-073-00	METAL CHIP	10K 5%	1/10N	R632	1-216-049-00	METAL CHIP	1K 5%	1/10N
R553	1-216-748-17	METAL CHIP	29K 5%	1/10N	R633	1-216-049-00	METAL CHIP	680 5%	1/10N
R554	1-216-685-11	METAL CHIP	27K 0.5%	1/10N	R634	1-216-045-00	METAL CHIP	680 5%	1/10N
R555	1-216-073-00	METAL CHIP	10K 5%	1/10N	R635	1-216-045-00	METAL CHIP	680 5%	1/10N
R566	1-216-073-00	METAL CHIP	10K 5%	1/10N	R636	1-216-049-00	METAL CHIP	1K 5%	1/10N
R567	1-216-109-00	METAL CHIP	330K 5%	1/10N	R637	1-216-073-00	METAL CHIP	10K 5%	1/10N
R568	1-216-295-00	METAL CHIP	0 5%	1/10N	R638	1-216-073-00	METAL CHIP	10K 5%	1/10N
R569	1-216-073-00	METAL CHIP	10K 5%	1/10N	R639	1-216-073-00	METAL CHIP	10K 5%	1/10N
R562	1-216-090-00	METAL CHIP	51K 5%	1/10N	R640	1-216-073-00	METAL CHIP	10K 5%	1/10N
R503	1-216-083-00	METAL CHIP	27K 5%	1/10N	R641	1-216-073-00	METAL CHIP	10K 5%	1/10N
R564	1-216-073-00	METAL CHIP	10K 5%	1/10N	R643	1-216-049-00	METAL CHIP	1K 5%	1/10N
R565	1-216-049-00	METAL CHIP	1K 5%	1/10N	R644	1-216-049-00	METAL CHIP	1K 5%	1/10N
R566	1-216-041-00	METAL CHIP	470 5%	1/10N	R704	1-216-097-00	METAL CHIP	100K 5%	1/10N
R567	1-216-049-00	METAL CHIP	1K 5%	1/10N	R702	1-216-057-00	METAL CHIP	2.2K 5%	1/10N
R602	1-216-081-00	METAL CHIP	22K 5%	1/10N	R703	1-216-695-11	METAL CHIP	68K 0.5%	1/10N
R604	1-216-045-00	METAL CHIP	1K 5%	1/10N	R704	1-216-897-11	METAL CHIP	82K 0.5%	1/10N
R605	1-216-073-00	METAL CHIP	10K 5%	1/10N	R705	1-216-663-11	METAL CHIP	3.3K 0.5%	1/10N
R606	1-216-069-00	METAL CHIP	6.8K 5%	1/10N	R706	1-216-887-11	METAL CHIP	82K 0.5%	1/10N
R607	1-216-073-00	METAL CHIP	10K 5%	1/10N	R707	1-216-101-00	METAL CHIP	150K 5%	1/10N
R608	1-216-069-00	METAL CHIP	6.8K 5%	1/10N	R708	1-216-695-11	METAL CHIP	27K 0.5%	1/10N
R609	1-216-049-00	METAL CHIP	1K 5%	1/10N	R709	1-216-681-11	METAL CHIP	18K 0.5%	1/10N
R610	1-216-081-00	METAL CHIP	3.3K 5%	1/10N	R710	1-216-681-11	METAL CHIP	18K 0.5%	1/10N
R611	1-216-073-00	METAL CHIP	10K 5%	1/10N	R711	1-216-866-11	METAL CHIP	4.3K 0.5%	1/10N
R612	1-216-073-00	METAL CHIP	10K 5%	1/10N	R712	1-216-893-11	METAL CHIP	56K 0.5%	1/10N
R613	1-216-081-00	METAL CHIP	3.3K 5%	1/10N	R713	1-216-691-11	METAL CHIP	47K 0.5%	1/10N
R614	1-216-049-00	METAL CHIP	1K 5%	1/10N	R714	1-216-683-11	METAL CHIP	3.3K 0.5%	1/10N

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark			
R173	1-216-073-00	METAL CHIP	10K 5%	1/10W	R312	1-216-053-00	METAL CHIP	3.9K 5%	1/10W	
R174	1-216-073-00	METAL CHIP	10K 5%	1/10W	R313	1-216-295-00	METAL CHIP	0	5%	1/10W
R175	1-216-105-00	METAL CHIP	220K 5%	1/10W	R314	1-216-049-00	METAL CHIP	1K	5%	1/10W
R177	1-216-081-00	METAL CHIP	22K 5%	1/10W	R316	1-216-065-00	METAL CHIP	4.7K 5%	1/10W	
R180	1-216-081-00	METAL CHIP	22K 5%	1/10W	R317	1-216-065-00	METAL CHIP	4.7K 5%	1/10W	
R181	1-216-049-00	METAL CHIP	1K 5%	1/10W	R318	1-216-049-00	METAL CHIP	1K 5%	1/10W	
R204	1-216-001-00	METAL CHIP	3.3K 5%	1/10W	R319	1-216-089-00	METAL CHIP	47K 5%	1/10W	
R205	1-216-061-00	METAL CHIP	3.3K 5%	1/10W	R320	1-216-089-00	METAL CHIP	47K 5%	1/10W	
R206	1-216-061-00	METAL CHIP	3.3K 5%	1/10W	R321	1-216-105-00	METAL CHIP	220K 5%	1/10W	
R207	1-216-085-00	METAL CHIP	4.7K 5%	1/10W	R322	1-216-105-00	METAL CHIP	220K 5%	1/10W	
R208	1-216-079-00	METAL CHIP	18K 5%	1/10W	R323	1-216-049-00	METAL CHIP	1K 5%	1/10W	
R209	1-216-117-00	METAL CHIP	680K 5%	1/10W	R324	1-216-073-00	METAL CHIP	10K 5%	1/10W	
R210	1-216-091-00	METAL CHIP	56K 5%	1/10W	R325	1-216-073-00	METAL CHIP	10K 5%	1/10W	
R211	1-216-073-00	METAL CHIP	10K 5%	1/10W	R326	1-216-073-00	METAL CHIP	10K 5%	1/10W	
R215	1-216-097-00	METAL CHIP	100K 5%	1/10W	R327	1-216-081-00	METAL CHIP	22K 5%	1/10W	
R216	1-216-073-00	METAL CHIP	10K 5%	1/10W	R328	1-216-113-00	METAL CHIP	470K 5%	1/10W	
R217	1-216-089-00	METAL CHIP	47K 5%	1/10W	R329	1-216-073-00	METAL CHIP	10K 5%	1/10W	
R218	1-216-073-00	METAL CHIP	10K 5%	1/10W	R330	1-216-073-00	METAL CHIP	10K 5%	1/10W	
R219	1-216-081-00	METAL CHIP	22K 5%	1/10W	R331	1-216-073-00	METAL CHIP	10K 5%	1/10W	
R220	1-216-105-00	METAL CHIP	220K 5%	1/10W	R332	1-216-073-00	METAL CHIP	10K 5%	1/10W	
R221	1-216-111-00	METAL CHIP	390K 5%	1/10W	P401	1-216-043-00	METAL CHIP	580 5%	1/10W	
R222	1-216-097-00	METAL CHIP	100K 5%	1/10W	P402	1-216-077-00	METAL CHIP	15K 5%	1/10W	
R223	1-216-073-00	METAL CHIP	10K 5%	1/10W	R403	1-216-081-00	METAL CHIP	27K 5%	1/10W	
R224	1-216-121-00	METAL CHIP	1M 5%	1/10W	R404	1-216-089-00	METAL CHIP	47K 5%	1/10W	
R225	1-216-089-00	METAL CHIP	47K 5%	1/10W	R405	1-216-085-00	METAL CHIP	33K 5%	1/10W	
R226	1-216-045-00	METAL CHIP	680 5%	1/10W	R406	1-216-073-00	METAL CHIP	10K 5%	1/10W	
R227	1-216-045-00	METAL CHIP	680 5%	1/10W	P407	1-216-073-00	METAL CHIP	10K 5%	1/10W	
R228	1-216-097-00	METAL CHIP	100K 5%	1/10W	R408	1-216-089-00	METAL CHIP	47K 5%	1/10W	
R234	1-216-089-00	METAL CHIP	47K 5%	1/10W	R409	1-216-099-00	METAL CHIP	6.8K 5%	1/10W	
R235	1-216-073-00	METAL CHIP	10K 5%	1/10W	R410	1-216-085-00	METAL CHIP	33K 5%	1/10W	
R236	1-216-049-00	METAL CHIP	1K 5%	1/10W	R411	1-216-055-00	METAL CHIP	33K 5%	1/10W	
R237	1-216-295-00	METAL CHIP	0	5%	1/10W	R412	1-216-079-00	METAL CHIP	18K 5%	1/10W
R301	1-216-071-00	METAL CHIP	3.2K 5%	1/10W	R413	1-216-052-00	METAL CHIP	1.3K 5%	1/10W	
R302	1-216-089-00	METAL CHIP	47K 5%	1/10W	R414	1-216-045-00	METAL CHIP	680 5%	1/10W	
R303	1-216-049-00	METAL CHIP	1K 5%	1/10W	R415	1-216-083-00	METAL CHIP	22K 5%	1/10W	
R304	1-216-081-00	METAL CHIP	22K 5%	1/10W	R416	1-216-084-00	METAL CHIP	22K 5%	1/10W	
R305	1-216-073-00	METAL CHIP	10K 5%	1/10W	R417	1-216-047-00	METAL CHIP	820 5%	1/10W	
R306	1-216-081-00	METAL CHIP	22K 5%	1/10W	R418	1-216-051-00	METAL CHIP	1.2K 5%	1/10W	
R307	1-216-081-00	METAL CHIP	22K 5%	1/10W	R419	1-216-051-00	METAL CHIP	1.2K 5%	1/10W	
R308	1-216-065-00	METAL CHIP	4.7K 5%	1/10W	R420	1-216-029-00	METAL CHIP	150 5%	1/10W	
R309	1-216-065-00	METAL CHIP	4.7K 5%	1/10W	R421	1-216-081-00	METAL CHIP	22K 5%	1/10W	
R310	1-216-295-00	METAL CHIP	0	5%	1/10W					

TR-40 **TS-74 (L)** **TS-74 (R)**

Ref. No.	Part No.	Description	Remark
		(JACK)	
J401	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO OUT)	
J402	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO IN)	
		(VARIABLE RESISTOR)	
RY401	1-230-694-11	RES, VAR, CARBON 250K	
		(SWITCH)	
S401	1-553-725-21	SWITCH, SLIDE (SYNC INT/EXT)	
S402	1-553-725-21	SWITCH, SLIDE (EDIT)	

	* A-7070-628-A	TS-74 (L) BOARD, COMPLETE	

		(TRANSISTOR)	
Q715	B-729-700-08	TRANSISTOR NLT14E	

	* A-7070-627-A	TS-74 (R) BOARD, COMPLETE	

		(TRANSISTOR)	
Q715	B-729-700-08	TRANSISTOR NLT14E	

		MISCELLANEOUS	

C901	1-181-057-00	CERAMIC 0.033uF 10% 50V (DK M906)	
C902	1-181-057-00	CERAMIC 0.033uF 10% 50V (DK M904)	
M902	B-835-304-11	MOTOR, DC 1/8-138 (REEL)	
M904	A-7040-201-A	DRUM ASSY (DMR-35-A-R) (DRUM)	
M903	B-835-304-04	MOTOR, DC BAF-2B02B (CAPSTAN)	
M904	X-3711-936-1	MOTOR ASSY, FL (CASSETTE LOADING)	
M905	B-835-130-04	MOTOR, DC (DMR-5301B) (CONTROL)	
M906	A-7040-065-A	MOTOR ASSY, L (LOADING)	
M907	1-541-360-21	MOTOR, DC BUSHLESS FAN	
PM901	1-454-377-31	SOLENOID, PLUNGER	

Ref. No.	Part No.	Description	Remark
S901	1-570-807-11	SWITCH, SLIDE (CASSETTE LOADING)	
S903	1-553-226-00	SWITCH, LEAF (CASSETTE LOCK)	
S904	1-572-298-21	SWITCH, PUSH (REC PROOF, NPHG, RE/FP)	

		ACCESSORY & PACKING MATERIAL	

	* 3-897-977-51	INDIVIDUAL CARTON	
	* 3-897-978-04	CUSHION (UPPER)	
	* 3-897-979-09	CUSHION (LOWER)	
	* 3-704-350-09	SHEET (STANDARD), PROTECTION	
	3-753-324-21	MANUAL, INSTRUCTION (ENGLISH)	
	3-753-324-31	MANUAL, INSTRUCTION (FRENCH)	
	* 3-795-581-21	SAFEGUARD (SOFT), IMPORTANT	

		HARDWARE LIST	

#1	7-621-255-45	SCREW #BVIT 2X6 (S)	
#2	7-685-046-79	SCREW #BVTP 3X8 TYPE2 IT-3	
#3	7-682-555-09	SCREW #P 3X30	
#4	7-627-850-18	SCREW, PRECISION #P 1.4X2.5	
#5	7-627-772-10	SCREW #B 2X4	
#6	7-621-255-65	SCREW #P 2X10	
#7	7-627-593-28	SCREW, PRECISION #P 2X2.5	
#8	7-621-255-25	SCREW #P 2X4	
#9	7-624-102-04	STOP RING 1.5, TYPE-E	
#10	7-624-105-04	STOP RING 2.3, TYPE-E	
#11	7-628-253-20	SCREW #PS 2X6	
#12	7-628-253-00	SCREW #PSW 2X4	
#13	7-627-593-48	SCREW, PRECISION #P 2X4	
#14	7-621-255-50	SCREW #P 2X8	
#15	7-624-106-04	STOP RING 3.0, TYPE-E	
#16	7-627-593-68	SCREW (±N2X), SPECIAL	
#17	7-621-255-15	SCREW #PTT 2X3 (S)	
#18	7-621-255-20	SCREW #P 2X4	
#19	7-685-133 19	SCREW #P 2.6X6 TYPE2 NON-SLIT	
#20	7-671-154-01	STEEL, BALL	

The components identified by mark Δ , or dotted line with mark Δ , are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ , sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
(VARIABLE RESISTOR)							
RV101	1-230-875-21	RES. ADJ. METAL 220K		0703	8-729-140-88	TRANSISTOR FP1A3M	
RV102	1-230-875-21	RES. ADJ. METAL 220K		0704	8-729-140-88	TRANSISTOR FP1A3M	
RV103	1-230-871-11	RES. ADJ. METAL 22K		0705	8-729-140-88	TRANSISTOR FP1A3M	
RV104	1-230-871-11	RES. ADJ. METAL 22K		0706	8-729-140-88	TRANSISTOR FP1A3M	
RV105	1-230-870-11	RES. ADJ. METAL 10K		0707	8-729-140-88	TRANSISTOR FP1A3M	
RV106	1-230-870-11	RES. ADJ. METAL 10K		0708	8-729-140-88	TRANSISTOR FP1A3M	
RV201	1-230-873-11	RES. ADJ. METAL 47K		0709	8-729-900-53	TRANSISTOR D3C114EX	
RV203	1-230-869-11	RES. ADJ. METAL 4.7K		0710	8-729-900-53	TRANSISTOR D3C114EX	
RV204	1-230-869-11	RES. ADJ. METAL 4.7K		0711	8-729-900-53	TRANSISTOR D3C114EX	
RV301	1-230-868-11	RES. ADJ. METAL 2.2K		0712	8-729-900-53	TRANSISTOR D3C114EX	
RV302	1-230-868-11	RES. ADJ. METAL 2.2K		0713	8-729-900-53	TRANSISTOR D3C114EX	
RV303	1-230-868-11	RES. ADJ. METAL 4.7K		0714	8-729-900-53	TRANSISTOR D3C114EX	
RV304	1-230-873-11	RES. ADJ. METAL 47K		0715	8-729-900-53	TRANSISTOR D3C114EX	
(CRYSTAL)							
X001	1-567-418-21	CRYSTAL (16MHz)		R701	1-216-013-00	METAL CHIP 33 5% 1/10W	
X002	1-567-346-11	OSCILLATOR, CERAMIC (5MHz)		R702	1-216-013-00	METAL CHIP 33 5% 1/10W	
X003	1-567-346-11	OSCILLATOR, CERAMIC (5MHz)		R703	1-216-013-00	METAL CHIP 33 5% 1/10W	
X004	1-567-160-21	RESONATOR, CERAMIC (4.19MHz)		R704	1-216-013-00	METAL CHIP 33 5% 1/10W	
X101	1-567-505-11	OSCILLATOR, CRYSTAL (3.58MHz)		R705	1-216-013-00	METAL CHIP 33 5% 1/10W	

* 1-633-699-11 TC-20 BOARD							

1-809-338-11 INDICATOR LED							
(CAPACITOR)							
C701	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		R706	1-216-013-00	METAL CHIP 33 5% 1/10W	
C702	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		R707	1-216-013-00	METAL CHIP 33 5% 1/10W	
C703	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		R708	1-216-013-00	METAL CHIP 33 5% 1/10W	
C704	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		R709	1-216-029-00	METAL CHIP 150 5% 1/10W	
C705	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		R710	1-216-029-00	METAL CHIP 150 5% 1/10W	
C706	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		R711	1-216-029-00	METAL CHIP 150 5% 1/10W	
C707	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		R712	1-216-029-00	METAL CHIP 150 5% 1/10W	
C708	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		R713	1-216-029-00	METAL CHIP 150 5% 1/10W	

* 1-633-700-11 TR-40 BOARD							

(CONNECTOR)							
0701	8-729-140-88	TRANSISTOR FP1A3M		CN401	1-506-484-11	CONNECTOR SP. MALE	
0702	8-729-140-88	TRANSISTOR FP1A3M		CN402	1-506-487-11	CONNECTOR SP. MALE	
				CN403	1-506-488-11	CONNECTOR 2P. MALE	

7-1-2. PERIODIC CHECK

Perform the maintenance and periodic checks described below in accordance with the operational hour of the unit.

○: Cleaning ◆: Replacement ◇: Checking ■: Oiling

Location	Parts Name	Parts No.	Hours of Use (H) : MENU No. (Drum rotation)										Reference Section
			500	1,000	1,500	2,000	2,500	3,000	3,500	4,000	4,500	5,000	
Tape Path	Tape Path surface	-	○	○	○	○	○	○	○	○	○	○	7-1-1
	Upper Drum Ass'y (DCR-35-R)	A-7049-188-A	○	◇	○	◇	○	○	○	◇	○	◇	7-2-2
	Drum Ass'y (DGH-35A-R)	A-7048-201-A	○	◇	○	◇	○	○	○	◇	○	◇	7-2-3
	Pinch Roller Arm Ass'y	X-3686-576-1	○	○	○	○	○	○	○	○	○	○	7-2-5
	(Note 4.) Capstan shaft bearing	8-835-364-01	-	■	-	■	-	■	-	■	-	■	—
Drive System	Threading motor belt	3-686-546-01	○	○	○	○	○	○	○	◆	○	○	7-2-7
	Blake plunger	1-454-377-31	-	-	-	○	-	-	-	○	-	-	7-2-20
	Threading motor	A-7040-065-A	-	○	-	○	-	○	-	○	-	○	7-2-7
	Control motor	8-835-138-01	-	○	-	○	-	○	-	○	-	○	7-2-21
	Reel motor	8-835-304-11	-	○	-	○	-	○	-	○	-	○	7-2-8
	T Reel Table Ass'y	X-3711-998-1	○	○	○	○	○	○	○	○	○	○	7-2-14
	S Reel Table Ass'y	X-3713-427-1	○	○	○	○	○	○	○	○	○	○	7-2-13
	T-Maut Brake Ass'y	X-3680-574-1	-	○	-	○	-	○	-	○	-	○	—
	S-Main Brake Ass'y	X-3713-429-1	-	○	-	○	-	○	-	○	-	○	—
	T-S Brake Ass'y	X-3711-987-2	-	○	-	○	-	○	-	○	-	○	—
	REW Brake Ass'y	X-3711-993-1	-	○	-	○	-	○	-	○	-	○	—
	Tension Regulator Hand Ass'y	X-3686-531-1	-	○	-	○	-	○	-	○	-	○	7-2-16
	Roller (Cassette-top Compartment)	3-713-466-01	-	-	-	-	○	-	-	-	-	-	—
Performance Check	Abnormal-noise	-	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	—
	FWD Back tension measurement	-	-	○	-	○	-	○	-	○	-	○	7-3-5
	Brake torque measurement	-	-	○	-	○	-	○	-	○	-	○	7-3-1 to 7-3-3
FWD, RVS torque measurement	-	-	○	-	○	-	○	-	○	-	○	7-3-4	

Note 1: When overhauling the unit, refer to the items above for replacement of parts.

Note 2: The time of parts replacement will differ with operating environment.

Note 3: Be sure to clean the tape path surface in repairing.

Note 4: Oiling to the Capstan Shaft Bearing.

Apply one-half drop of oil to the Capstan Shaft Bearing.
(Never apply oil to the tape path surface.)

SECTION 7 MECHANICAL ADJUSTMENT

7-1. PERIODIC CHECK AND MAINTENANCE

It is recommended that the following periodic check and maintenance schedule are employed in order to obtain maximum performance of the unit and longer tape life.

7-1-1. MAINTENANCE AFTER REPAIRS

Perform the following maintenance after repair regardless the operating hours of the unit.

(1) Cleaning of the Rotary Upper Drum

- Press the cleaning piece moistened with cleaning fluid lightly against the Rotary Upper Drum and turn slowly the Upper Drum counterclockwise with a hand.

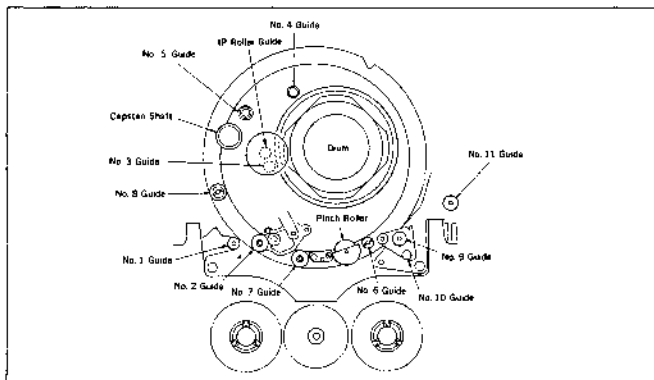
Note: Never turn the Upper Drum by the electric power and never turn the Upper Drum clockwise with a hand. Never move the cleaning piece in the vertical direction of head tips in the cleaning. It tends to damage the video head tips. Please follow the instruction above for cleaning.

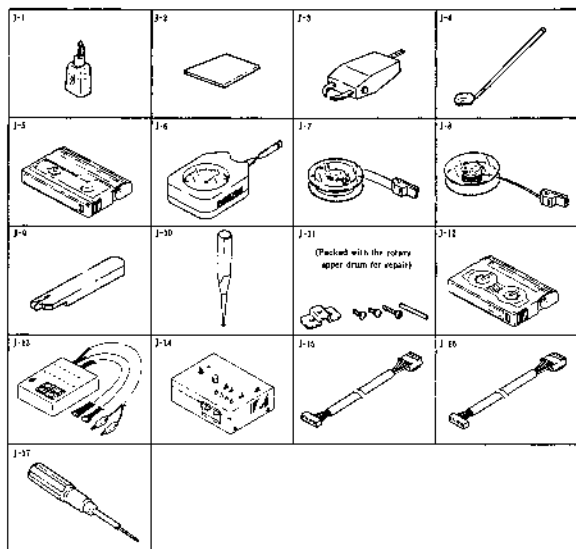
(2) Cleaning of Tape Running System (fig.1)

- Put the cassette compartment into the EJECT completion mode and clean the tape running system (No.1 thru No.11 Guides, Capstan Shaft, Pinch Roller and IP Roller Guide) with cleaning piece moistened with the cleaning fluid.

(3) Cleaning of Drive System

- Clean the Drive system (reel table surface, belt and timing belt) with cleaning piece moistened with the cleaning fluid.






7-1-3. SERVICING TOOLS

Ref. No.	Parts No.	Description	Application
J-1	Y-2031-001-1	Cleaning Fluid	Cleaning
J-2	7-741-900-53	Wiping Cloth	Cleaning
J-3	Commercially sold	Head Degausser	Head degauss
J-4	J-6080-840-A	Small Adjustment Mirror	Tape path adjustment
J-5	8-967-995-02	Alignment Tape, WR5-1NP	Tape path adjustment
	8-967-995-13	Alignment Tape, WR5-7NE	Video frequency response adjustment
	8-967-995-42	Alignment Tape, WR5-5NSP	Video adjustment
	8-967-995-43	Alignment Tape, WR5-8NSE	Serve, audio and video adjustment (SP)
	8-967-995-52	Alignment Tape, WR5-9NLE	Servo, audio and video adjustment (I.P)
J-6	J-6080-827-A	Dial Tension Gauge	Measurement of torque
J-7	J-6080-831-A	Tension Measurement Reel	FWD Back tension adjustment
J-8	J-6080-832-A	Tension Measurement Reel	Brake torque check
J-9	J-6080-823-A	No. 10 Gear Phase Tool	Threading ring assembly replacement
J-10	J-6080-826-A	No. 6 Guide Lock Screwdriver	Tape path adjustment
J-11	—	Rotary Drum Tool (packed with the Rotary Upper Drum for repair)	Rotary upper drum replacement
J-12	J-6080-824-A	FWD, RVS Winding Torque Cassette	S-T reel table winding torque check
J-13	J-6080-825-A	Mode Selector	Mechanical check, adjustment and replacement
J-14	J-6080-891-A	Track Shift Tool	Tape path adjustment
J-15	J-6080-883-A	RE/SWP Connector	Tape path adjustment
J-16	J-6080-884-A	CTL Connector	Tape path adjustment
J-17	7 700-766-01	Hexagonal Screwdriver (Ø 89 mm)	Tape path adjustment

7-2. REPLACEMENT OF MAJOR PARTS

PREPARATION FOR REPLACEMENT OF PARTS

Replacement of some parts use the *Mode Selector. The mode ( marked mode) in the replacement procedure is set by pressing the button on the Mode Selector.

*It is a kind of tool.

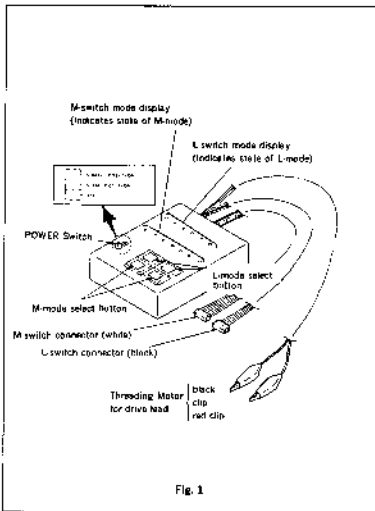
Part No. : J-6080-825-A

• Operation of Mode selector

1. Location of parts and controls (fig. 1)

2. Connection (fig. 2)

- (1) Remove the Front Panel, Top Plate and Bottom Plate referring to Section 2-1.
- (2) Remove the Mecha Deck Block from the unit referring to Section 2-5.
- (3) Remove the MB-19, MD-23, HK-4 and SE-10 Boards from the unit referring to Sections 2-8, 2-9 and 2-10.
- (4) Disconnect the connectors (6P) on the MS-4 and LS-5 Boards.
- (5) Connect the 6P connector (six harness, white) for the M-switch of the Mode Selector to the MS-4 Board.
- (6) Connect the 6P connector (four harness, black) for the L-switch of the Mode Selector to the LS-5 Board.
- (7) Remove the cover of the Threading Motor.
- (8) Connect the rod clip of the Threading Motor driver lead to the red terminal of the Threading Motor and the black clip to the brown terminal.



7-1-4. HOW TO USE THE CLEANING TAPE

Cleaning Tape: V8-25CLH (separately available)

. Never use the cleaning tape, V8-25CLN.

- (1) When the rotary heads clog and head cleaning described Section 3-1 can not clean the heads, use the cleaning tape.

If use the cleaning tape except for the above, it will shorten the life of the heads.

- (2) The one time cleaning is within fifteen seconds and never reuse the cleaning tape after rewinding.

7-1-5. OTHERS

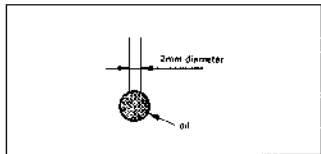
(1) Sony oil

. Be sure to use the Sony oil as the lubrication oil. (If other oil is used, various troubles due to different viscosity tends to be caused.)

Sony oil: Part No. 7-661-018-18

. Use the Sony oil in which dust or other foreign material have not mixed for lubricating the bearing. (If foreign material is in the oil, wear or burning of the bearing tends to be caused.)

. One drop of oil means the amount which sticks to a 2 mm diameter rod, as shown in the figure.



(2) Sony grease

. Be sure to use the Sony grease as the lubrication grease.

Sony grease: Part No. 7-662-001-52
{SGL-501}

(3) MOLYTONE GREASE

. Be sure to use the MOLYTONE GREASE as the lubrication grease.

MOLYTONE GREASE: Part No. 7-662-001-41
(No. 320)

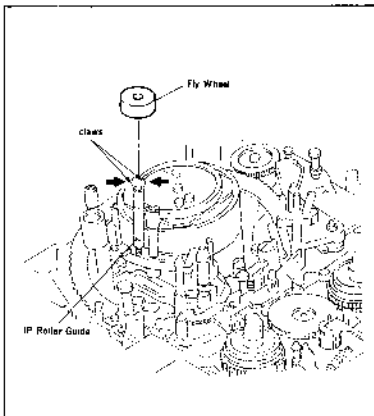
7-2-1. REPLACEMENT OF THE FLY WHEEL

Removal:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Remove the Fly Wheel while picking the claws.

Installation

- (1) Replace the Fly Wheel with a new one. Insert the Fly Wheel in the IP Roller Guide from the big hole side until click sound can be heard.



3. Note

- (1) When operating L-switch, be sure to set the mode of M-switch to LOADING/UNLOADING mode.
- (2) When operating M-switch, be sure to set the mode of L-switch to LOADING TOP or LOADING END mode.

4. Operation

When L-mode or M-mode does not set in each mode during mode selection, the BLANK position lights up.

(1) L-mode

- When the right side L-mode select button is pressed continuously, the mode changes from LOADING TOP to LOADING END in order from left.
- When the mode changes from LOADING END to LOADING TOP in order, press the left side L-mode select button continuously.
- When the power switch is set to the SLOW position, the L-mode operates more slowly than the NORMAL position.

(2) M-mode

- When performing EJECT, set the mode of L-switch to LOADING TOP.
- When performing from FF/REW to RVS or from RVS to FF/REW, set the mode of L-switch to LOADING END.
- When the right side M-mode select button is pressed continuously, the mode changes from EJECT to RVS in order from left.
- When the mode changes from RVS to EJECT, press the left side M-mode select button continuously.

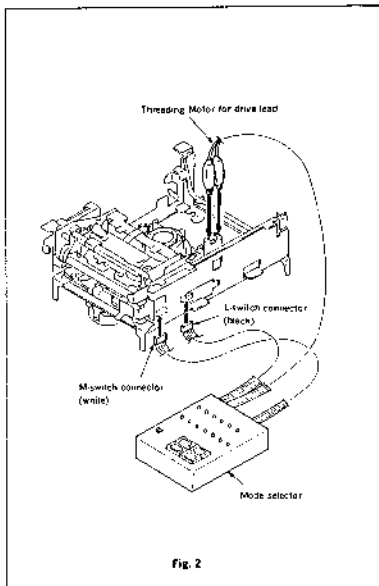


Fig. 2

7-2-2. REPLACEMENT OF THE ROTARY UPPER DRUM

- The video heads can not be replaced as a single parts. Replaces the whole Rotary Upper Drum Assembly.
- There is a relay PC Board (DH-6 Board) for the video and audio signals in the Rotary Upper Drum. It is not necessary to replace the DH-6 Board, if it is broken, replace the whole the Rotary Upper Drum Assembly.

Tools: Rotary Drum Tool (Ref No. J-11)
(It is packed together with the Repair Rotary Upper Drum.)
L-shaped wrench
(across flat has 1.5 mm)

Removal

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Remove the Fly Wheel referring to Section 7-2-1.
- (3) Remove the two screws (M2 X 2.7) and remove the Dynamic Damper.
- (4) Unsolder the ten terminals at A positions. Check that the terminals which are projected out from the PC Board move freely with a pair of tweezers, etc. (fig. 1)
- (5) Remove the two screws (M2 X 5).
- (6) Install the tool A to the two screw holes of installing the Dynamic Damper with the two accessory supplied screws. Thread the accessory supplied hexagon screw into the center hole of the tool A, and remove the Rotary Upper Drum. (fig. 2)

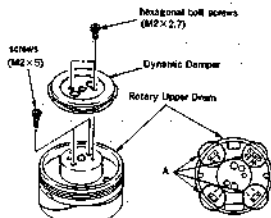


Fig. 1

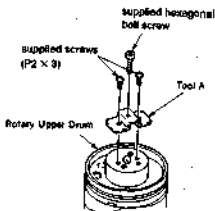


Fig. 2

Installation:

- (1) Clean the flange surfaces of the Lower Drum and the contact point of the new Rotary Upper Drum with a cleaning piece. Check that no dust or flaw are left.
- (2) While adjusting the positional relationship of the Rotary Upper Drum and positioning hole with the tool B, insert the Rotary Upper Drum lightly. At this time, check that the terminals project out from the PC Board of the Rotary Upper Drum. When the terminals are caught, correct them with a pair of tweezers, etc.. Remove the tool B and lightly push the Rotary Upper Drum by hand. If the Rotary Upper Drum does not down to the bottom, thread the two fixing screws to the Rotary Upper Drum alternately, but do not tighten them. Insert the tool B in the positioning hole and check that the tool B can be inserted smoothly again. If the tool B can not be inserted, loosen the two screws (M 2 X 5) and adjust the position of the Rotary Upper Drum by precision screwdriver. (fig. 3 and 4)
- (3) Tighten the two screws (M2 X 5).
- (4) Assemble the parts with Removal Steps (1) to (4) in reverse order.

Note: Do not tighten all the screws too strongly.

Be carefull not to flow solder below the PC Board.

After replacement, perform the Tape Path Adjustment referring to Section 7-4.

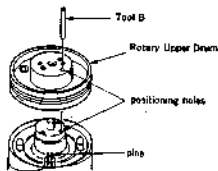


Fig. 3

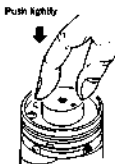


Fig. 4

7-2-3. REPLACEMENT OF THE DRUM ASSEMBLY

Removal:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (3) Remove the Fly Wheel referring to Section 7-2-1.
- (4) Open the HR-4 and SE-10 Boards referring to Sections 2-9 and 2-10.
- (5) Remove the two fixing screws and remove the Flexible Cover. (fig. 1)
- (6) Disconnect the connectors (CN805, 806) on the MD-23 Board and disconnect the connector (CN001) on the FR-40 Board.
- (7) Remove the fixing screw and remove the Shaft Ground Terminal.
- (8) Remove the two fixing screws and remove the Drum Assembly. (fig. 2)

Note: At this time, be careful that the Drum Assembly does not touch the No. 3 Guide and the IP Roller Guide, etc..

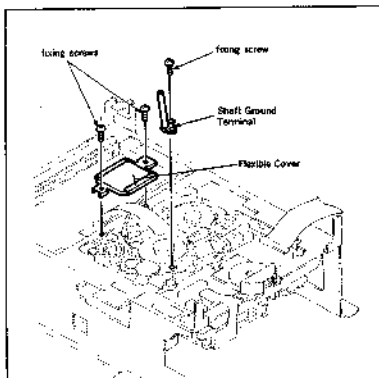


Fig. 1

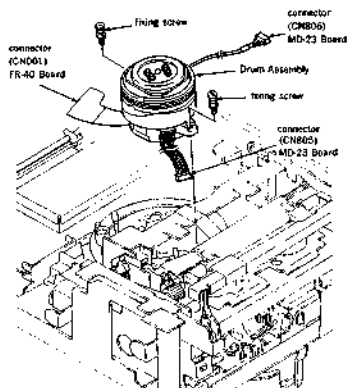


Fig. 2

Installation:

(1) Clean the flange surface of the new Drum Assembly and the contact point of the mechanical chassis with a cleaning piece.

(2) Set the Drum Assembly to the two projections of the Mecha chassis and tighten the two fixing screws.

Note: At this time, be careful that the screwdriver does not touch the head chips. (fig. 3)

(3) Peel off the tape from the Rotor and FG Stator of the Drum Assembly.

(4) Clean the shaft of the Drum Assembly with a cleaning piece.

(5) Clean the Shaft Ground Terminal which connect to the Drum Shaft with a cleaning piece and set the Shaft Ground Terminal to the projection of mechanical chassis and tighten the fixing screw.

(6) Assemble the parts with Removal Steps (1) to (6) in reverse order.

After replacement, perform the Tape Path Adjustment referring to Section 7-4.

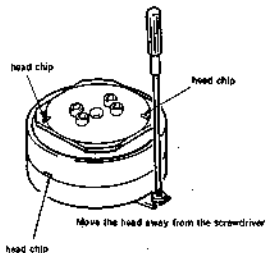


Fig. 3

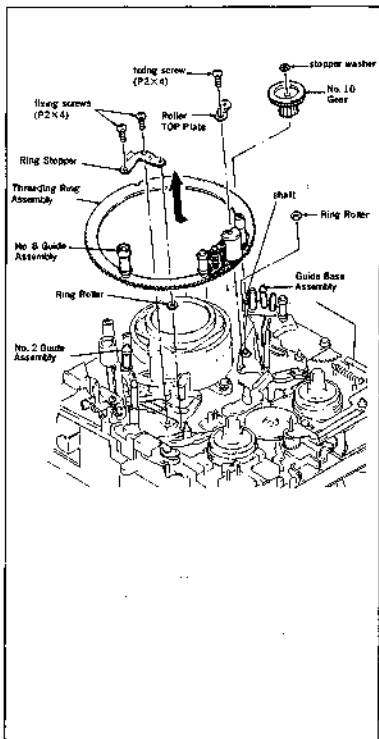
7-2-4. REPLACEMENT OF THE THREADING RING ASSEMBLY

Tools: Mode Selector (Ref. No. J-13)
No. 18 Gear Phase Tool
(Ref. No. J-9)
Sony Oil

Removal:

- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Press the L-mode select button of the Mode Selector and move the Guide Base Assembly and the No. 2 Guide Assembly until just before it is locked. (Do not move the Threading Ring Assembly.)
- (3) Remove the stopper washer and remove the No. 18 Gear Assembly.
- (4) Remove the fixing screw and remove the Roller Top Plate and Ring Roller.
- (5) Remove the two fixing screws and remove the Ring Stopper and Ring Roller.
- (6) Remove the Threading Ring Assembly in the direction of the arrow.

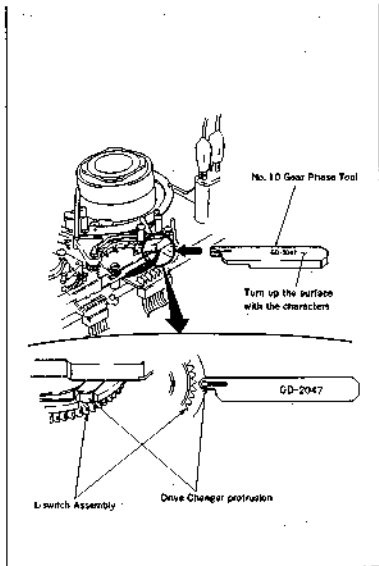
Note: When removing the Threading Ring Assembly, be careful that the Threading Ring Assembly does not touch the Drum and Capstan Shaft.



Installation:

- (1) Replace the Threading Ring Assembly with a new one.
- (2) Install the Threading Ring Assembly so that it puts into the unthreading mode. The Pinch Roller Arm Assembly is the Reel Table side. (Check that each assembly is put into the Step (2) at removal procedure.)
- (3) Install the Ring Roller and Ring Stopper and tighten them with two fixing screws. (Check that the No. 8 Guide Assembly is in front of Ring Stopper.)
- (4) Install the Ring Roller and Roller Top Plate and tighten them with the screw. (Check that the Threading Ring Assembly matches the three Ring Rollers.)
- (5) Apply a half drop of oil on the shaft.
- (6) Check that the pin of the Drive Changer Assembly is into the notch of the L-switch Assembly. Insert the No. 10 Gear Phase Tool (Ref. No. J-8) into the notch of the L-SW Assembly.
- (7) While pushing the No. 8 Guide Assembly against the Ring Stopper, install the No.10 Gear Assembly with a stopper washer.
- (8) Pull out the No. 10 Gear Phase Tool.
- (9) Press the L-mode select button of the Mode Selector and set to the LOADING TOP mode.
- (10) Install the Cassette-up Compartment Assembly referring to Section 2-13.

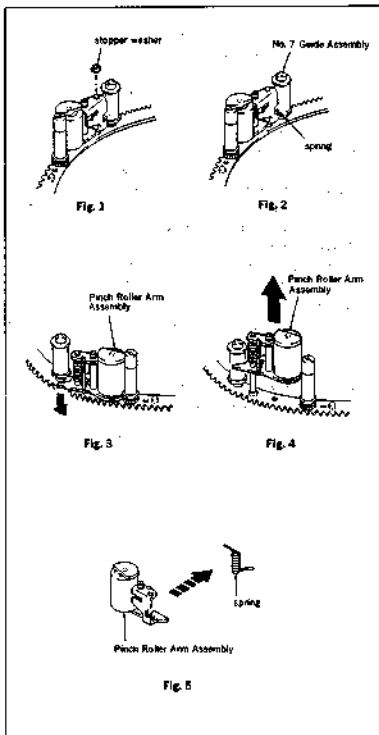
After replacement, perform the Tape Path Adjustment referring to Section 7-4.



1-2-5. REPLACEMENT OF THE PINCH ROLLER ARM ASSEMBLY

Removal

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (3) Remove the stopper washer. (fig. 1)
- (4) Hook the spring which is hooked to the No. 7 Guide Assembly to the groove of the Pinch Roller Arm (fig. 2)
- (5) Turn the Pinch Roller Arm Assembly in the direction of the arrow, (fig. 3)
- (6) Remove the Pinch Roller Arm Assembly in the direction of the arrow. (fig. 4)
- (7) Remove the spring. (fig. 5)



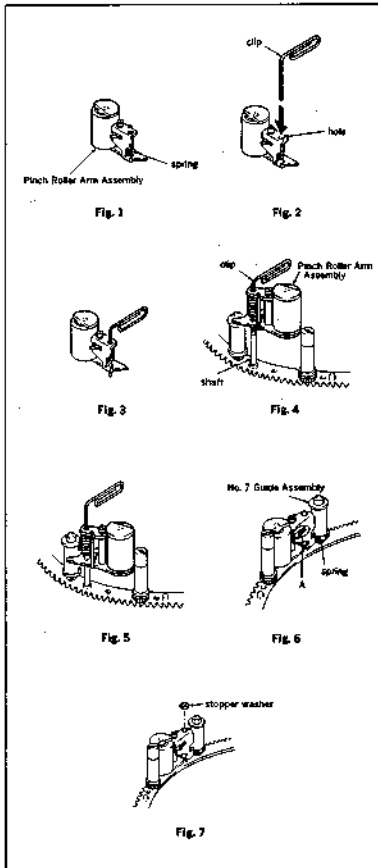
Installation:

- (1) Replace the Pinch Roller Arm Assembly with a new one.
- (2) Install the spring and hook the ends of the spring to the Pinch Roller Arm Assembly. (fig. 1)
- (3) Insert the end of the clip or another thin rod into the hole of the Pinch Roller Arm Assembly. (fig. 2 and 3)
- (4) Put the end of the clip to the shaft of the Threading Ring Assembly and install the Pinch Roller Assembly. (fig. 4 and 5)
- (5) Hook the end of the spring to the No. 7 Guide Assembly.

At this time, check that the another end of the spring is hooked to "A". (fig. 6)

- (6) Assemble the parts with Removal Steps (1) to (3) in reverse order.

After replacement, perform the Tape Path Check referring to Section 7-4-6.



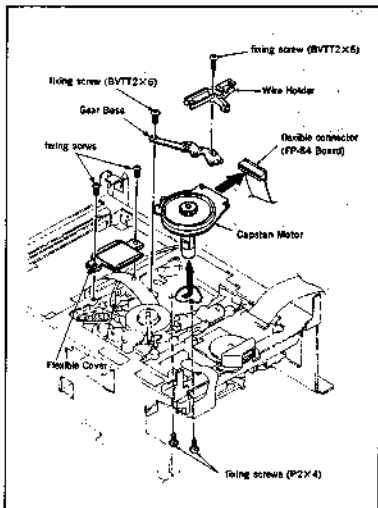
7-2-6. REPLACEMENT OF THE CAPSTAN MOTOR

Removal:

- (1) Open the MB-10 Board referring to Section 2-8.
- (2) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (3) Remove the Threading Ring Assembly referring to Section 7-2-4.
- (4) Open the HK-4 and SE-10 Boards referring to Sections 2-9 and 2-10.
- (5) Remove the two fixing screws and remove the Flexible Cover.
- (6) Remove the harness of the Capstan Motor from the Wire Holder.
- (7) Remove the fixing screw and remove the Wire Holder.
- (8) Remove the fixing screw and remove the Gear Base.
- (9) Disconnect the flexible connector of the Capstan Motor.
- (10) Remove the two fixing screws and remove the Capstan Motor in the direction of the arrow.

Installation:

- (1) Replace the Capstan Motor with a new one and assemble the parts with Removal Steps (1) to (10) in reverse order.



7-2-7. REPLACEMENT OF THE THREADING MOTOR ASSEMBLY

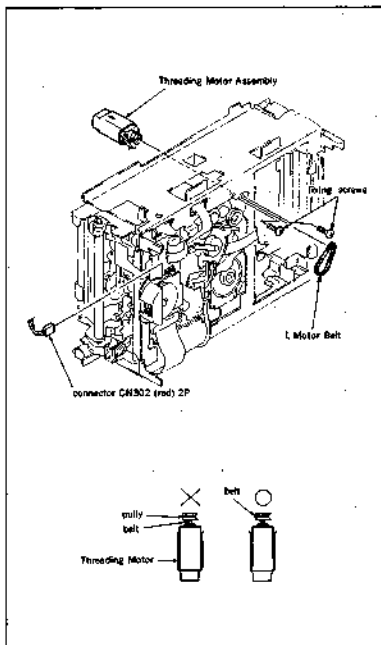
Removal:

- (1) Open the NB-19 Board referring to Section 2-6.
- (2) Open the HK-4 and SE-10 Boards referring to Section 2-9 and 2-10.
- (3) Remove the L Motor Belt.
- (4) Disconnect the connector (CN302) on the RS-31 Board.
- (5) Remove the two fixing screws and remove the Threading Motor Assembly.

Installation:

- (1) Replace the Threading Motor Assembly with a new one and assemble the parts with Removal Steps (1) to (5) in reverse order.

Note: Before installing the L Motor Belt, clean it with a cleaning piece and be sure to install the belt in the groove of pulley.



7-2-4. REPLACEMENT OF THE REEL MOTOR

Removal:

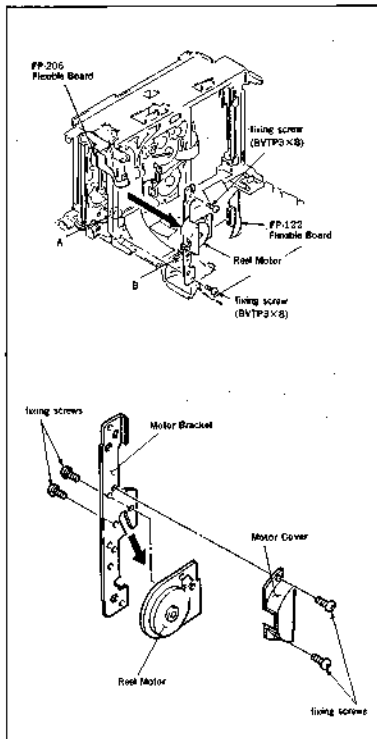
- (1) Open the HK-4 and SE-10 Boards referring to Section 2-9 and 2-10.
- (2) Remove the FP-122 Flexible Board from the PC Board of the Reel Motor.
- (3) Remove the FP-206 Flexible Board from the RS-31 Board.
- (4) Remove the two fixing screws of the Motor Bracket.
- (5) Insert a flatblade screwdriver into A, release the projection B and remove the Motor Bracket.

Note: If the Motor Bracket is removed by hand directly, it tends to damage the Motor Bracket.

- (6) Remove the two fixing screws and remove the Motor Cover from the Motor Bracket.
- (7) Remove the two fixing screws and remove the Reel Motor in the direction of the arrow.

Installations:

- (1) Replace the Reel Motor with a new one. Assemble the parts with Removal Steps (1) to (7) in reverse order.



7-2-9. REPLACEMENT OF THE No. 3 and No. 4 GUIDES

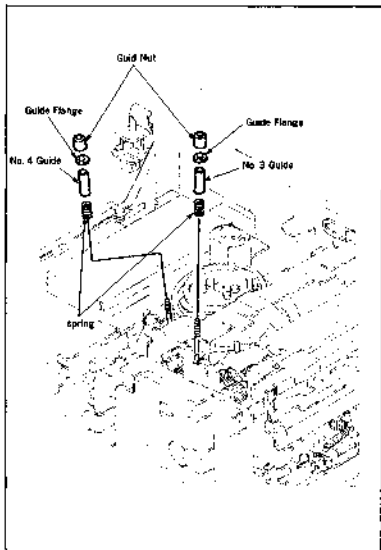
Removal:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) When replacing the No. 3 Guide, remove the Fly Wheel referring to Section 7-2-1.
- (3) Turn the Rotary Upper Drum counterclockwise and keep it aside away from the No. 3 Guide or No. 4 Guide.
- (4) Remove the Guide Nut and remove the Guide Flange, No. 3 Guide (or No. 4 Guide) and spring.

Installation:

- (1) Replace the No. 3 Guide (or No. 4 Guide) with a new one.
- (2) Assemble the parts with Removal Steps (1) to (4) in reverse order.

After replacement, adjust the height of the No. 3 and No. 4 Guides to meet the tape path condition of Section 7-4-6-3 by turning the Guide Nut.



7-2-10. REPLACEMENT OF THE ENTRANCE GUIDE (P) ASSEMBLY (No. 2 GUIDE ASSEMBLY)

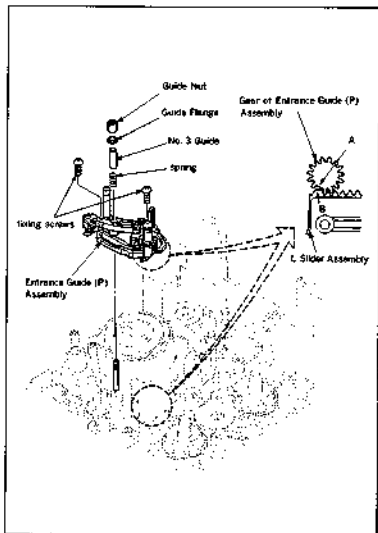
Removal:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (3) Remove the Fly Wheel referring to Section 7-2-1.
- (4) Turn the Rotary Upper Drum counterclockwise and keep hands away from the Entrance Guide (P) Assembly.
- (5) Remove the Guide Nut and remove the Guide Flange, No. 3 Guide and spring.
- (6) Remove the two fixing screws and remove the Entrance Guide (P) Assembly.

Installation:

- (1) Check that the mechanical block is put into the LOADING TOE mode.
- (2) Replace the Entrance Guide (P) Assembly with a new one.
- (3) Engage the Entrance Guide (P) Assembly and L Slider Assembly so that their flat portions A and B are matched, and tighten it with two fixing screws.
- (4) Assemble the parts with Removal Steps (3) and (5) in reverse order.
- (5) Perform the FWD Back Tension Adjustment referring to Section 7-5-5.
- (6) Assemble the parts with Removal Steps (1) and (2) in reverse order.

After replacement, perform the Tape Path Adjustment referring to Section 7-4.



7-2-11. REPLACEMENT OF THE SLANT GUIDE ASSEMBLY

Tool: Mode Selector (Ref. No. J-13)

Removal:

- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Remove the Threading Ring Assembly referring to Section 7-2-4.
- (3) Remove the fixing screw and E ring.
- (4) Remove the Slant Guide Block Assembly.

Installation:

- (1) Operate the L-mode select button of the Mode Selector and align the right edge of the L Slider Assembly and the right side of the Lock Slider M Assembly. (fig. 2)

Note: At this time, check that the position of the notch on the Slant Guide Drive Gear is placed as shown in figure 2.

- (2) Assemble the Guide Base Assembly of new Slant Guide Block Assembly the position of the *unthreading end.

*The Guide Base Assembly is the Steel Table side.

- (3) Assemble the parts with Removal Steps (1) to (3) in reverse order.

After replacement, perform the Tape Path Check referring to Section 7-4-6.

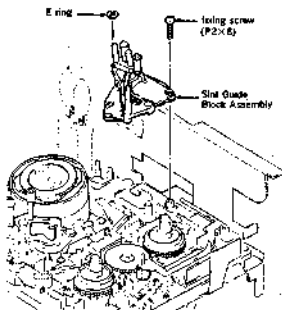


Fig. 1

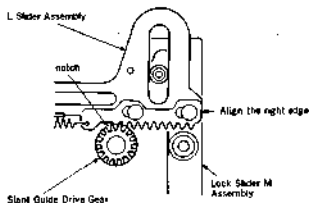


Fig. 2

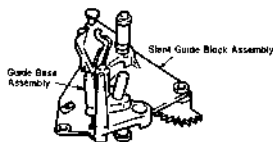


Fig. 3

7-3-12. REPLACEMENT OF THE No. 5 GUIDE BLOCK COMPLETE ASSEMBLY

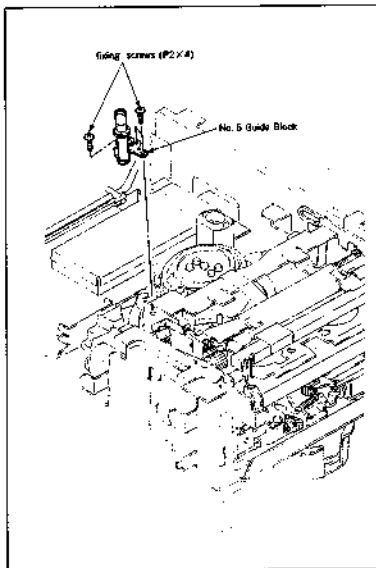
Removal:

- (1) Open the NB-19 Board referring to Section 7-8.
- (2) Turn the Rotary Upper Drum counterclockwise and keep heads away from the fixing screw of the Guide Block.
- (3) Remove the three fixing screws and remove the No. 5 Guide Block Complete Assembly.

Installation:

- (1) Replace the No. 5 Guide Block Complete Assembly with a new one.
- (2) Assemble the parts with Removal Steps (1) and (3) in reverse order.

After replacement, perform the Tape Path Adjustment referring to Section 7-4.



7-2-13. REPLACEMENT OF THE S REEL TABLE ASSEMBLY

Tools: Mode Selector (Ref. No. J-14)
Cassette Tape
Dial Tension Gauge (Ref. No. J-6)
Tension Measurement Reel (30 mm dia.)
(Ref. No. J-7)
Sony Oil

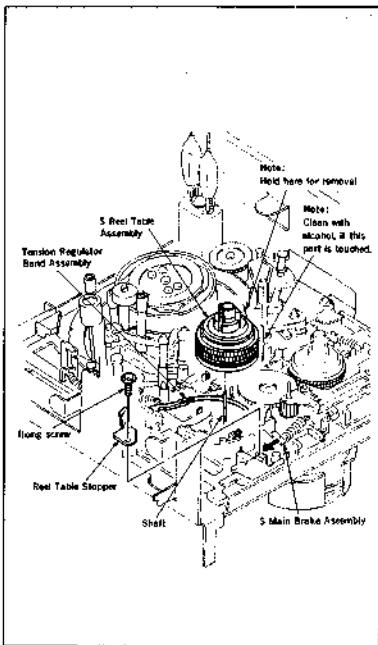
Removal:

- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Press the M-mode select button of the Mode Selector and set to the **FF/REW** mode.
- (2) Remove the fixing screw and remove the Reel Table Stopper.
- (4) Remove the S Reel Table Assembly.

Notes: Be sure to hold the upper reel claw when removing the S Reel Table. (Note of figure)

Installations

- (1) Apply a half drop of oil on the top point of the Reel Shaft.
- (2) Move the S Main Brake Assembly in the direction of the arrow.
- (3) Install the new S Reel Table Assembly while being careful not to push the Tension Regulator Band Assembly.
- (4) Install the Reel Table Stopper and tighten it with the fixing screw.
- (5) Press the M-mode select button of the Mode Selector and set to the **LOADING/UNLOADING** mode.
- (6) After replacement, perform the FWD running more than two minutes. Then, perform the FWD Back Tension Adjustment referring to Section 7-3-5.
- (7) Install the Cassette-up Compartment Assembly referring to Section 2-13.



7-2-14. REPLACEMENT OF THE T REEL TABLE ASSEMBLY

Tools: Mode Selector (Ref. No. J-13)
Sony Oil

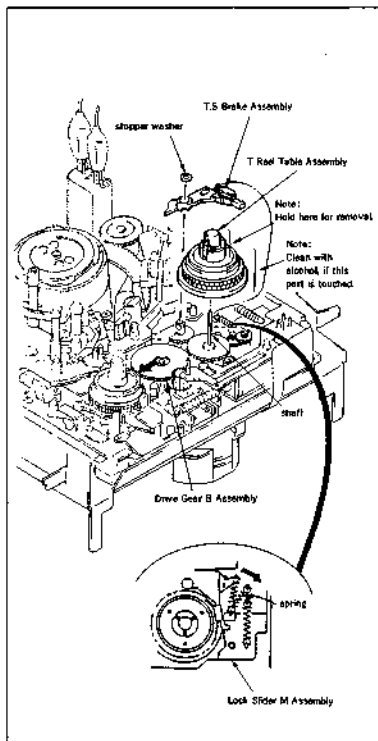
Removal:

- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Press the L-mode select button of the Mode Selector and set to the **UNLOADING WAIT** mode.
- (3) Hook the spring which is hooked on the T.S Brake Assembly to the claw of the Lock Slider Assembly.
- (4) Remove the stopper washer and remove the T.S Brake Assembly.
- (5) Press the M-mode select button of the Mode Selector and set to the **EJECT** mode.
- (6) Move the Drive Gear B Assembly in the direction of the arrow.
- (7) Remove the T Reel Table Assembly.

Note: Be sure to hold the upper reel claw when removing the T Reel Table. (Note of figure)

Installation:

- (1) Apply a half drop of oil on the top point of the Reel Shaft.
- (2) Move the Drive Gear B Assembly in the direction of the arrow. (Check that the Mode Selector sets to **EJECT** mode.)
- (3) Replace the T Reel Table Assembly with a new one.
- (4) Assemble the parts with Steps (4) and (5) in reverse order.
- (5) Set the L-mode to **LOADING TOP** mode and set the M-mode to **LOADING/UNLOADING** mode.
- (6) Install the Cassette-up Compartment Assembly referring to Section 2-13.



7-2-15. REPLACEMENT OF THE PINCH PRESS ARM ASSEMBLY

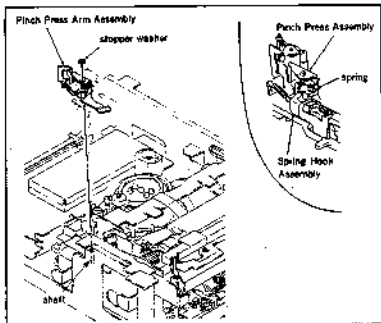
Tools: Sony Oil

Removal:

- (1) Open the MB-13 Board referring to Section 2-8.
- (2) Hook the spring which is hooked to the Spring Hook Assembly to the Pinch Press Assembly as shown in the figure.
- (3) Remove the stopper washer and remove the Pinch Press Arm Assembly.

Installation:

- (1) Apply a half drop of oil on the shaft.
- (2) Replace the Pinch Press Arm Assembly with a new one.
- (3) Assemble the parts with Removal Steps (1) to (3) in reverse order.



7-2-16. REPLACEMENT OF THE TENSION REGULATOR ARM ASSEMBLY

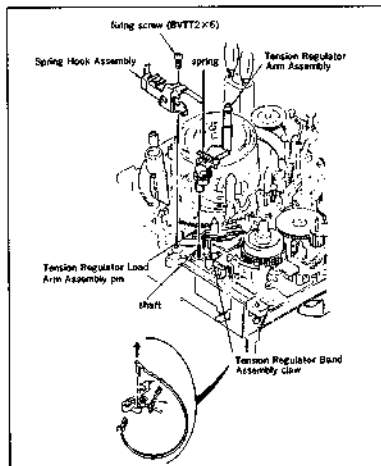
Tools: Mode Selector (Ref. No. J-13)

Sony Oil

Locking Compound

Removal:

- (1) Remove the Cassette-up Assembly referring to Section 2-18.
- (2) Replace the spring referring to Removal step (2) of Section 7-2-15.
- (3) Remove the spring which is hooked to the Tension Regulator Spring Hook Assembly.
(Make a note of the hooking position.)
- (4) Remove the fixing screw and remove the Tension Regulator Spring Hook Assembly.
- (5) Press the M-mode select button of the Mode Selector and set to the **FF/REW** mode.
- (6) Remove the claw of the Tension Regulator Band Assembly.
- (7) Remove the Tension Regulator Arm Assembly.



Installation:

- (1) Apply a half drop of oil on the shaft.
- (2) Replace the Tension Regulator Arm Assembly with a new one.
- (3) Install the Tension Regulator Arm Assembly while inserting the pin of the Tension Regulator Load Arm Assembly in the cam groove (on the back of the Arm) of the Tension Regulator Arm Assembly.
- (4) Install the claw of the Tension Regulator Band Assembly.
Note: Do not touch the inside of the band and bend it.
- (5) Press the M-mode select button of the Mode Selector and set to the LOADING/UNLOADING mode.
- (6) Install the Tension Regulator Spring Hook Assembly and tighten it with the fixing screw.
- (7) Smear the Locking Compound to the head of the fixing screw.
- (8) Assemble the Parts with Removal Steps (1) to (3) in reverse order.

After replacement, perform the Tape Path Check referring to Section 7-4-6.

7-2-17. REPLACEMENT OF THE TENSION REGULATOR BAND ASSEMBLY

Tools: Mode Selector (Ref. No. J-15)

Cassette Tape

Dial Tension Gauge (Ref. No. J-6)

Tension Measurement Rool (36 mm dia.)
(Ref. No. J-7)

Removal:

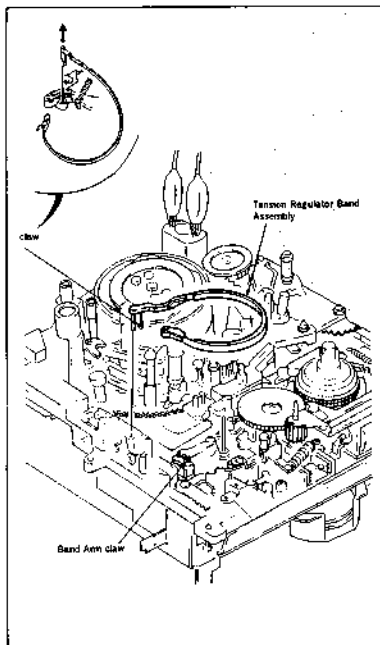
- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Remove the S Reel Table Assembly referring to Removal of Section 7-2-13.
- (3) Release the claw of the Band Arm and remove one side of the Tension Regulator Band Assembly.
- (4) Release the claw from the Tension Regulator Arm Assembly and remove the Tension Regulator Band Assembly.

Installation:

- (1) Replace the Tension Regulator Band Assembly with a new one.
- (2) Install the Tension Regulator Band Assembly with Removal Steps (3) and (4) in reverse order.

Note: Do not touch the inside of the band and bend it.

- (3) Install the S Reel Table Assembly referring installation of Section 7-2-13.
- (4) After replacement, perform the FWD running more than two minutes and then perform the FWD Back Tension Adjustment referring to Section 7-3-5.
- (5) Install the Cassette-up Compartment Assembly referring to Section 2-13.



7-2-18. REPLACEMENT OF THE L SLIDER ASSEMBLY

Tools: Mode Selector (Ref. No. J-13)

Sony Grease

Removal:

- (1) Remove the Cassette-up Compartment Assembly referring to Section 7-13.
- (2) Remove the Fly Wheel referring to Section 7-2-1.
- (3) Remove the Threading Ring Assembly referring to Section 7-2-4.
- (4) Remove the Entrance Guide (P) Assembly referring to 7-2-10.
- (5) Remove the Slant Guide Block Assembly referring to Section 7-2-11.
- (6) Press the L-mode select button of the Mode Selector and set to the **DRUM START** mode.
- (7) Remove the Slant Guide Drive Gear.
- (8) Remove the two stopper washers from the L Slider Assembly.
- (9) While pushing the projection of the RL Arm Assembly in the direction of the arrow, lift the right side of the L Slider Assembly and remove it from the shaft.
- (10) Lift the right side of the L Slider Assembly as shown in figure 2 and remove the pin of the Tension Regulator Load Arm Assembly from the cam groove of the Tension Regulator Arm Assembly, and then remove the L Slider Assembly.
- (11) Remove the stopper washer and remove the Tension Regulator Load Arm Assembly.

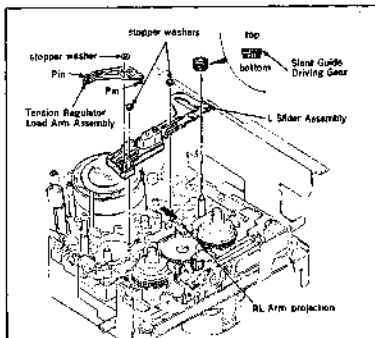


Fig. 1

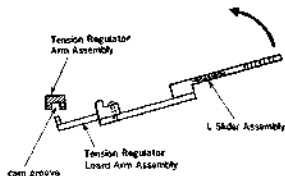


Fig. 2

Installation:

(1) Replace the L Slider Assembly with a new one and smear Sony Grease to the three longitudinal holes as shown in Figure 3.

(2) Assemble the parts with Removal Steps (8) to (11) in reverse order.

Note: When inserting the pin of the Tension Regulator Load Arm Assembly in the cam groove of the Tension Regulator Arm Assembly, insert the another pin into the groove of the M Slider.

(3) Press the L-mode select button of the Mode Selector and align the right edges of the L Slider Assembly and the Lock Slider M Assembly. (fig. 4)

(4) Engage the Slant Guide Drive Gear with L Slider Assembly so that the notch of the Drive Gear is 1 tooth away from the left and gear of the L Slider Assembly as shown in the Figure 4.

(5) Assemble the parts with Removal Steps (1) to (5) in reverse order.

After replacement, perform the Tape Path Adjustment referring to Section T-4.

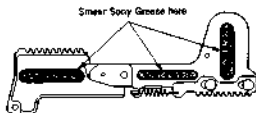


Fig. 3

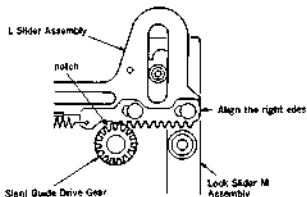


Fig. 4

7-2-18. REPLACEMENT OF THE L-SWITCH ASSEMBLY

Tools: Mode Selector (Ref. No. J-13)
Sony Oil
Sony Grease

Removal:

- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Remove the Fly Wheel referring to Section 7-2-1.
- (3) Remove the Threading Ring Assembly referring to Section 7-2-4.
- (4) Remove the Entrance Guide (P) Assembly referring to Section 7-2-10.
- (5) Remove the Slant Guide Block Assembly referring to Section 7-2-11.
- (6) Remove the L Slider Assembly referring to Section 7-2-13.
- (7) Remove the Lock Slider Retainer.
- (8) Remove the tension spring which is hooked to the Lock Slider A.
- (9) Remove the fixing screw and remove the Lock Slider A.
- (10) Remove the stop washer of the Drive Changer Assembly and remove the torsion spring.
- (11) Remove the Drive Changer Assembly.
- (12) Disconnect the connector (SP) on the L-switch Assembly.
- (13) Remove the two fixing screws and remove the L-switch Assembly.

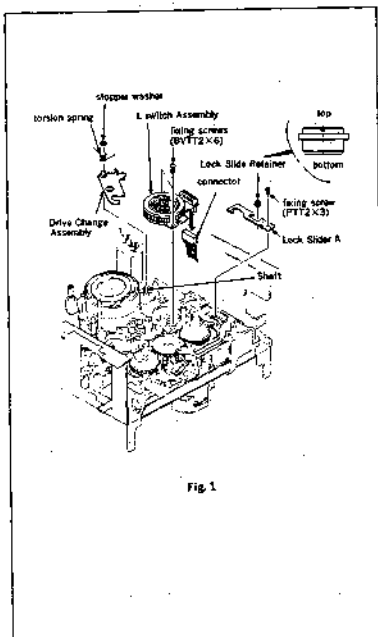


Fig. 1

Installation:

- (1) Replace the L-switch Assembly with a new one and apply a half drop of oil on the Planetary Roller Shaft.
- (2) Assemble the parts with Removal Steps (12) and (13) in reverse order.
- (3) Press the L-mode select button (right or left) of the Mode Selector and check that the L-switch Assembly rotates.
- (4) Apply a half drop of oil on the fixing shaft of the Drive Changer Assembly.
- (5) Smear Sony Grease to the U groove of the Drive Changer Assembly as shown in figure 2.
- (6) Assemble the parts with Removal Steps (10) and (11) in reverse order.
- (7) Press the L-mode select button (right or left) of the Mode Selector and check that the L-switch Assembly rotates.
- (8) Assemble the parts with Removal Steps (7) to (9) in reverse order.
- (9) Press the L-mode select button (right or left) of the Mode Selector so that the Planetary Roller Shaft is placed to the position shown in figure 3.
- (10) Assemble the parts with Removal Steps (1) to (8) in reverse order.

After replacement, perform the Tape Path Adjustment referring to Section 7-4.

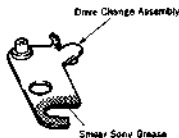


Fig. 2

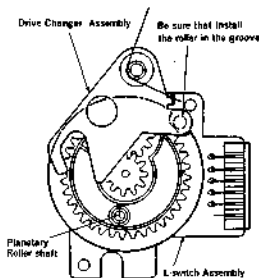


Fig. 3

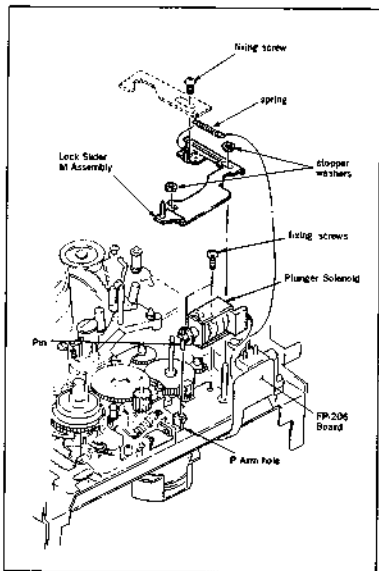
7-2-20. REPLACEMENT OF THE PLUNGER SOLENOID

Removal

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (3) Remove the spring which is hooked to the Lock Slider M Assembly.
- (4) Remove the two stopper washers.
- (5) Remove the fixing screw and remove the Lock Slider M Assembly.
- (6) Unsolder the three terminals of the Plunger Solenoid of the FP-206 Board.
- (7) Remove the two fixing screws and remove the Plunger Solenoid. (At this time, be careful not to damage the T Reel Assembly with a screwdriver, and do not touch it.)

Installation

- (1) Replace the Plunger Solenoid with a new one.
- (2) Insert the pin of the Plunger Solenoid into the hole of the P Arm and install the new Plunger Solenoid with the two fixing screws. (At this time, be careful not to damage the T Reel Assembly with a screwdriver and do not touch it.)
- (3) Assemble the parts with Removal Steps (1) to (6) in reverse order.



7-2-2L. REPLACEMENT OF THE M-SWITCH ASSEMBLY

Tools: Mode Selector (Ref. No. J-13)

Sony Oil

Removal:

- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Disconnect the connector (CN301) on the RS-31 Board.
- (3) Remove the T Reel Table Assembly referring to Section 7-2-14.
- (4) Remove the stopper washer and remove the Drive Gear B Assembly.
- (5) Remove the LD-1 Board. (fig. 1)
- (6) Remove the Lock Slider M Assembly referring to Removal Steps (3) to (5) of Section 7-2-20.
- (7) Remove the tension spring and remove the B Release Arm Assembly.
- (8) Check that the M-mode is put into **EJECT** mode.
- (9) Remove the stopper washer and remove the Mode Output Gear.
- (10) Release the two claws of the Control Motor Cover and remove the Push Switch.
- (11) Disconnect the connector (8P) on the M-switch Assembly.
- (12) Remove the two fixing screws and remove the Control Motor Cover L.
- (13) Remove the fixing screw and while lifting up the M-switch Assembly, push the T.S Release Arm in the direction of the arrow A. Then push the T Main Brake Assembly in the direction of the arrow B and remove the M-switch Assembly.

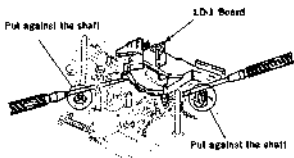


Fig. 1

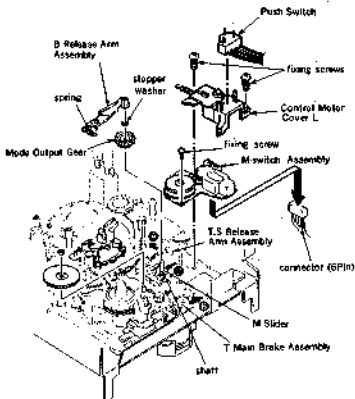


Fig. 2

How to remove the DC Motor:

- (1) Unsolder the two terminals at the C points as shown in figure 3 and remove the DC Motor from the MS-4 Board. (fig. 3)

Installation:

- (1) Replace the M-switch Assembly with a new one.
- (2) Assemble the parts with Removal Steps (10) to (13) in reverse order.
- (3) Check that the mechanical block is put into **EJECT** mode.
- (4) Check that the M Slider moves fully in the direction of arrow D, (fig. 2)
- (5) Apply a half drop of oil on the shaft of the Mode Output Gear, (fig. 2)
- (6) Install the Mode Output Gear so that the center of the M-switch Assembly Gear and the two positioning holes are lined up. (fig. 4)
- (7) Install the stopper washer to the shaft of the Mode Output Gear.
- (8) Press the M-mode select button of the Mode Selector and set to the **LOADING/UNLOADING** mode.
- (9) Assemble the parts with Removal Steps (1) to (7) in reverse order.

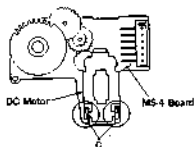


Fig. 3

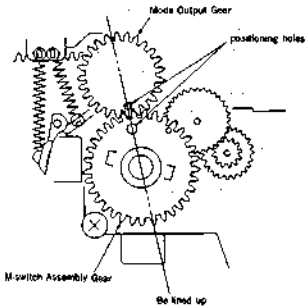


Fig. 4

7-2-22. REPLACEMENT OF THE M SLIDER

Tools: Mode Selector (Ref. No. J-13)

Sony Oil

Sony Grease

Removal:

- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Remove the Threading Ring Assembly referring to Section 7-2-4.
- (3) Remove the S Reel Table Assembly referring to Section 7-2-13.
- (4) Remove the T Reel Table Assembly referring to Section 7-2-14.
- (5) Remove the Pinch Press Arm Assembly referring to Section 7-2-15.
- (6) Remove the Tension Regulator Arm Assembly referring to Section 7-2-16.
- (7) Remove the Tension Regulator Band Assembly referring to Section 7-2-17.
- (8) Remove the Drive Gear (B) Assembly, LD-1 Board, Lock Slider M Assembly and B Release Arm Assembly referring to Removal Steps (2) to (7) of Section 7-2-21.
- (9) Remove the Tension Regulator Load Arm Assembly referring to Removal Step (11) of Section 7-2-18.
- (10) Remove the tension spring which is hooked to the S Main Brake Assembly.
- (11) Remove the two stopper washers and remove the S Main Brake Assembly and T Main Brake Assembly.
- (12) Operate the Mode Selector and set the L-mode to [LOADING TOP] mode and the M-mode to [LOADING/UNLOADING] mode.
- (13) Remove the fixing screw and remove the Drive Complete Assembly.
- (14) Remove the Mode Output Gear referring to Removal Steps (8) and (9) of Section 4-21.
- (15) Remove the two tension springs which are hooked to the REW Brake Assembly and B Release Slider.
- (16) Remove the REW Brake Assembly and remove the REW Brake Spacer.

- (17) Remove the stopper washer and remove the B Release Slider.
- (18) Remove the stopper washer and remove the Ring Lock Spring and RL Arm.
- (19) Move the M Slider to the right.
At this time, leave about 5mm space between the fixing shaft and left edge of M Slider's longitudinal hole.
- (20) Remove the E ring and remove the Pinch Press Lever Assembly.
- (21) Remove the tension spring and remove the Hard Brake S.
- (22) Remove the stopper washer and push the Mode Arm in the direction of the arrow. Lift up the left side of the M Slider to remove.

Installation:

- (1) Replace the M Slider with a new one and smear grease. (fig. 2)
- (2) Push the Mode Arm in the direction of the arrow. (fig. 1) While being careful to the positional relationship with other parts install the M Slider. Then install the stopper washer. (fig. 3)
- (3) Install the Hard Brake S and hook the tension spring to it.
- (4) Smear grease to the Pinch Press Lever Assembly. (fig. 4)
- (5) Apply a half drop of oil to the part under the groove of Pinch Press Lever Assembly's shaft.
- (6) Assemble the parts with Removal Steps (16) to (18) and (20) in reverse order.
- (7) Hook the two tension springs to the REW Brake Assembly and B Release Slider.

Notes Hook the two tension springs as follows and be careful not to mix them.

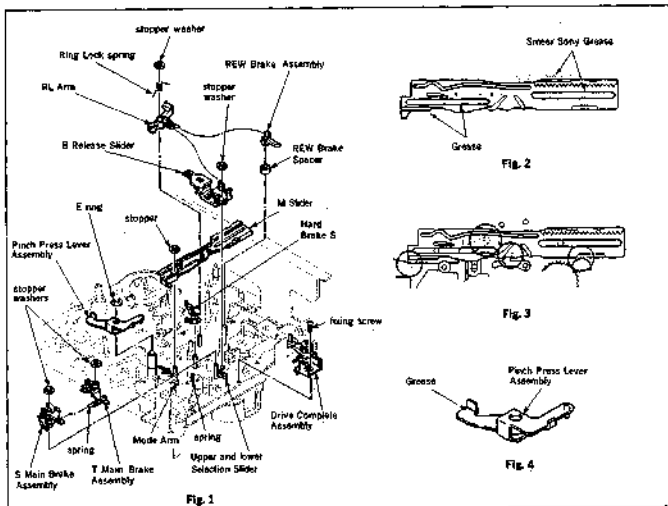
- . B Release Slider Spring:
diameter 2 mm, wire diameter 0.18mm
- . REW Brake Assembly Spring:
diameter 1.6 mm, wire diameter 0.12mm

- (8) Move the M Slider to the left fully.
- (9) Press the M mode select button of the Mode Selector and set to **REJECT** mode.
- (10) Install the Mode Output Gear referring to Installation Steps (5) to (7) in Section 7-2-21.
- (11) Press the M mode select button of the Mode Selector and set to the **LOADING/UNLOADING** mode.

(12) Insert the horizontal shaft of the Drive Complete Assembly into the groove of the Upper and Lower Selection Arm and tighten the fixing screw,

(13) Assemble the parts with Removal Steps (1) to (11) in reverse order.

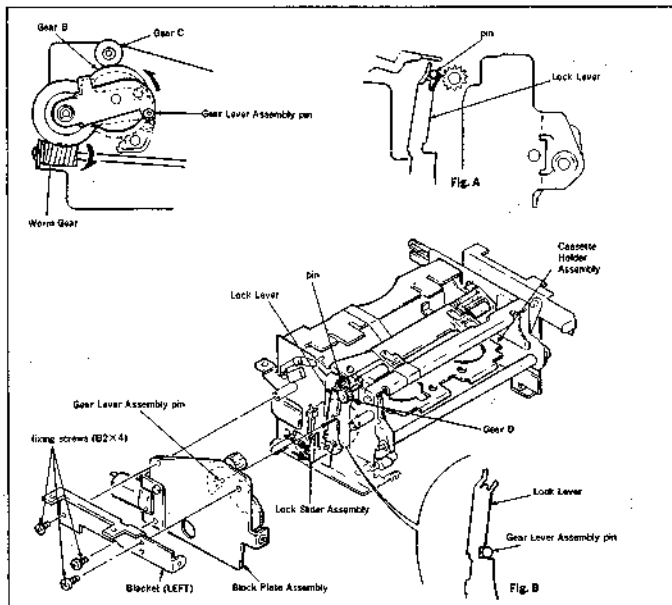
After replacement, perform the Tape Path Check referring to Section 7-4-4.



7-2-23. INSTALLATION OF THE BLOCK PLATE ASSEMBLY

When removing the Block Plate Assembly, installing procedures are as follows

- (1) Push the Lock Slider Assembly in the direction of the arrow and lift the Cassette Holder.
- (2) Check that the positional relationship between the Lock Lever and pin is as shown in figure A.
- (3) Turn the Worm Gear in the direction of the arrow and engage the Gear B and Gear C.
- (4) WHILE checking that positional relationship between the pin of the Gear Lever Assembly and Lock Lever is as shown in figure B, fix the Block Plate Assembly and Bracket (LEFT) with three fixing screws.
- (5) Check that the Gear C and D are engaged,

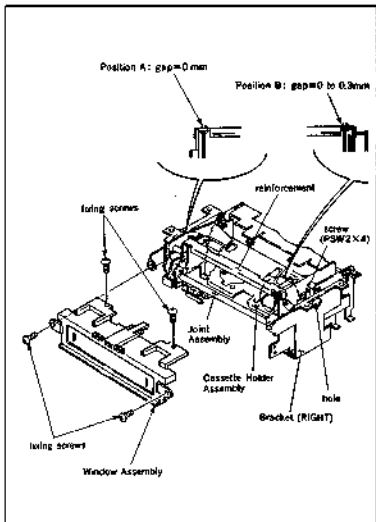


7-2-24. PARALLELISM ADJUSTMENT OF THE CASSETTE HOLDER BLOCK

When the following trouble happen, perform this adjustment. When inserting or ejecting the cassette, it is caught in the Cassette Holder Assembly or Joint Assembly, etc., and does not move smoothly.

Adjustment procedure:

- (1) Open the NB-10 Board referring to Section 2-8.
- (2) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (3) Remove the four fixing screws and remove the Window Assembly.
- (4) Loosen the screw (PSW2 X 4) from the hole of the Bracket (RIGHT).
- (5) Push the bottom of the Cassette Holder Assembly against the reinforcement, and adjust the position so that there is no clearance at points A and B.
- (6) Tighten the screw (PSW2 X 4) and smear locking compound to it.
- (7) Assemble the parts with Steps (1) to (5) in reverse order,



7-3. TORQUE AND BACK TENSION ADJUSTMENT

After removing the Mechanical Deck and Cassette-up Compartment from the unit referring to Section 2-5 and 2-13, perform these adjustments except for Section 7-3-4.

7-3-1. CHECK OF THE MAIN BRAKE TORQUE

1. S Main Brake Torque

Tools: Mode Selector (Ref. No. J-13)

Tension Measurement Reel

(Ref. No. J-8)

Dial Tension Gauge (Ref. No. J-6)

Mode: Press the **M**-mode select button of the Mode Selector and set to the **FF/REW** mode.

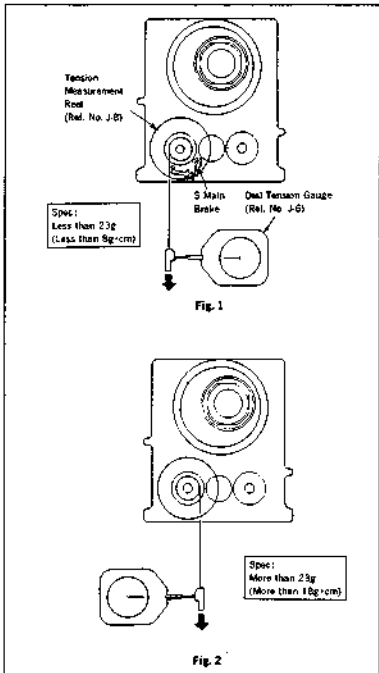
Check Procedure:

- (1) Set the Tension Measurement Reel on the S Reel Table and put the Dial Tension Gauge at the end of the string.
- (2) Pull out the Dial Tension Gauge in the direction of the arrows and check that those readings meet the required specifications as shown in figures 1 and 2.

Note: Both S Main Brake and S Soft Brake work in the **FF/REW** mode.

Adjustment Procedure:

- (1) If the reading do not meet the required specification, replace the S Main Brake or S Reel Table Assembly.



2. T Main Brake Torque

Tools: Mode Selector (Ref. No. J-13)

Tension Measurement Reel

(Ref. No. J-8)

Dial Tension Gauge (Ref. No. J-6)

Mode: Press the M-mode select button of the Mode Selector and set to the **FF/REW** mode.

Check Procedures

- (1) Set the Tension Measurement Reel on the T Reel Table and put the Dial Tension Gauge at the end of the string.
- (2) Pull out the Dial Tension Gauge in the direction of the arrows and check that these readings meet the required specifications as shown in figures 1 and 2.

Notes: Both T Main Brake and REW Brake work in the **FF/REW** mode.

Adjustment Procedures

- (1) If the reading do not meet the required specification, replace T Main Brake or T Reel Table.

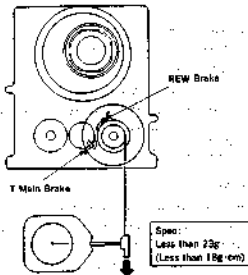


Fig. 1

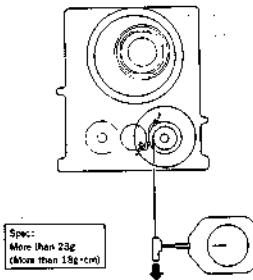


Fig. 2

7-3-2. CHECK OF THE SOFT BRAKE TORQUE

1. S Side Soft Brake Torque

Tools: Mode Selector (Ref. No. J-13)

Tension Measurement Reel

(Ref. No. J-6)

Dial Tension Gauge (Ref. No. J-6)

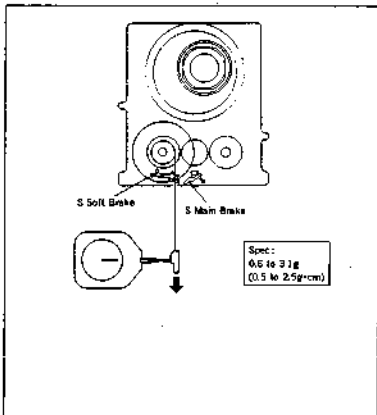
Mode: Press the M-mode select button of the Mode Selector and set to the **FF/REW** mode.

Check Procedures:

- (1) Set the Tension Measurement Reel on the S Reel Table and put the Dial Tension Gauge at the end of the string.
- (2) Release the S Main Brake by hand.
- (3) While releasing the S Main Brake, pull out the Dial Tension Gauge in the direction of the arrow. Check that this reading meets the required specification.

Adjustment Procedures:

- (1) Adjust the strength of S Soft Brake Spring by stretching or cutting.



2. T Side Soft Brake Torque

Tools: Mode Selector (Ref. No. J-13)
Tension Measurement Reel
(Ref. No. J-8)
Dial Tension Gauge (Ref. No. J-6)

Mode: Press the M-mode button of the Mode Selector and set to the **RVS** mode.

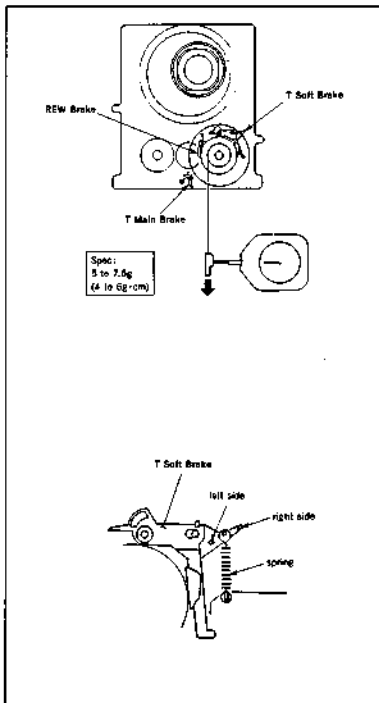
Check Procedure:

- (1) Set the Tension Measurement Reel on the T Reel Table and put the Dial Tension Gauge at the end of the string.
- (2) Release the T Main Brake by hand.
- (3) While releasing the S Main Brake, pull out the Dial Tension Gauge in the direction of the arrow. Check that this reading meets the required specification.

Note: Both T Soft Brake and REW Brake work in the RVS mode.

Adjustment Procedure:

- (1) Change the position of the tension spring which is hooked to the T Soft Brake.
 - . more than the spec. : Hook the left side.
 - . less than the spec. : Hook the right side.
- (2) If the reading do not meet the required specification with Step (1), replace the T Soft Brake or REW Brake, or both of them.



7-3-3. CHECK OF THE REW BRAKE TORQUE

Tools: Mode Selector (Ref. No. J-13)

Tension Measurement Reel

(Ref. No. J-8)

Dial Tension Gauge (Ref. No. J-6)

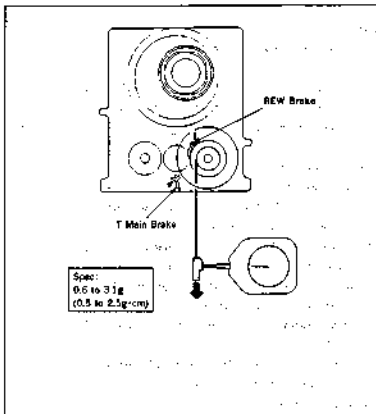
Mode: Press the M-mode select button of the Mode Selector and set to the **FF/REW** mode.

Check procedure:

- (1) Set the Tension Measurement Reel on the T Reel Table and put the Dial Tension Gauge at the end of the string.
- (2) Release the T Main Brake by hand.
- (3) While releasing the T Main Brake, pull out the Dial Tension Gauge in the direction of the arrow. Check that this reading meet the required specification.

Adjustment Procedures:

- (1) Adjust the strength of the tension spring by stretching or cutting, or replace the REW Brake with a new one.



7-3-4. CHECK BY THE FWD, RVS TAKE-UP TORQUE CASSETTE

Tools: FWD, RVS take-up torque cassette

(Ref. No. J-12)

Mode: PLAY mode

Check Procedure:

- (1) Insert the FWD, RVS take-up torque cassette in the unit.
- (2) Put the unit into the PLAY mode, check that the torque reading of the T Reel Table meets the required specification.

Spec. : 9.3 to 15.3 g.cm

- (3) Put the unit into the PLAY mode and press the REW button. Immediately check that the torque reading of the S Reel Table meets the required specification.

Spec. : 17 to 23 g.cm

Adjustment procedure:

- (1) If the readings do not meet the required specifications, replace each Reel Table Assembly.

7-3-4. FWD BACK TENSION ADJUSTMENT

Tools: Mode Selector (Ref. No. J-13)
Tension Measurement Reel
(Ref. No. J-7)
Dial Tension Gauge (Ref. No. J-6)

Mode: Press the L-mode select button of the Mode Selector and set to the **LOADING END**. Press the M-mode select button and set to the **FWD** mode.

Check Procedures:

- (1) Remove the Cassette-up Compartment referring to Section 2-13.
- (2) Press the L-mode select button of the Mode Selector and set to the **LOADING END** mode. Press the M-mode select button and set to the **FWD** mode.
- (3) Loosen the fixing screw and move the Band Adjustment Plate in the direction of the arrow A. Check the possible movement range θ of the No. 1 Guide.
- (4) Tighten the fixing screw where the No. 1 Guide Cap is positioned at one-third of θ .
- (5) Set the Tension Measurement Reel on the S Reel Table and trail the tape along the No. 1 Guide, No. 2 Guide, No. 3 Guide, IP Roller Guide and Drum.
- (6) Put the Dial Tension Gauge at the end of the tape. Pull out the Dial Tension Gauge at a contact speed approx. 15cm/sec. In the direction of the arrow B. At this time, check that this reading meets the required specification.

Spec. : 12 to 14 g

Adjustment Procedures:

- (1) If the reading do not meet the required specification, change the position of the tension spring which is hooked to the Tension Regulator Spring Hook Assembly.
 - . more than the Spec. :
the direction of the arrow C
 - . less than the Spec. :
the direction of the arrow D

NOTE:

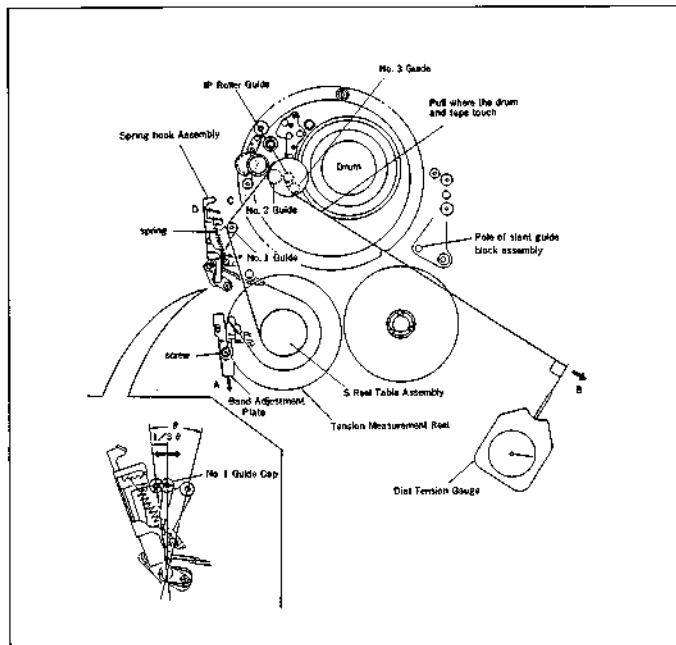
When replacing the parts as follows, perform the FWD Back Tension Adjustment.

- . Tension Regulator Band Assembly
- . S Reel Table Assembly
- . Entrance Guide (P) Assembly

When replacing these parts, perform the free running in the FWD mode for two minutes and then adjust the FWD Back Tension.

Adjustment Procedures:

- (1) Install the Cassette-up Compartment Assembly with Removal Steps Section 2-13 in reverse order.
- (2) Install the Mechanical Deck with Removal Steps Section 2-5 in reverse order.
- (3) Insert the cassette tape in the unit and perform the FWD running for two minutes.
- (4) Eject the cassette tape.
- (5) Remove the Mechanical Deck from the unit referring to Section 2-5.
- (6) Perform the FWD Back Tension Adjustment referring to Section 7-3-5.



7-4. TAPE PATH ADJUSTMENT

After check that the Electrical Adjustments (Sections 8) are completed, perform this adjustment.

Alignment Information

Track Shift Tool

The 8 mm Video System employs a high precision tracking ATF (Auto Track Finding) system which instantaneously controls the tape running speed with four kinds of pilot signals. In this way, the Tracking Adjustment Knob is unnecessary and it is possible to trace with accuracy. On the other hand, the adjustment of the Tape Path System was difficult in the ATF system. It was impossible to adjust perfectly because the ATF system automatically corrected even if small mis-tracking occurs. Then the Track Shift Tool (Ref. No. J-14) is used in the adjustment of Tape Path System. The Track Shift Tool can forcibly release the ATF system and can easily adjust the Tape Path System by setting the tracking amount (track shift) manually.

7-4-1. CONNECTION OF THE TRACK SHIFT TOOL

Use the connection cords (Ref. No. J-15 and J-16) for connection. Connect the Track Shift Tool and the unit as shown in figure 1.

• RP/SWP connector ...

to CN004 on the FR-40 Board

• CTL connector ...

to CN006 on the SE-10 Board

(Please refer to operation manual of the Track Shift Tool for details.)

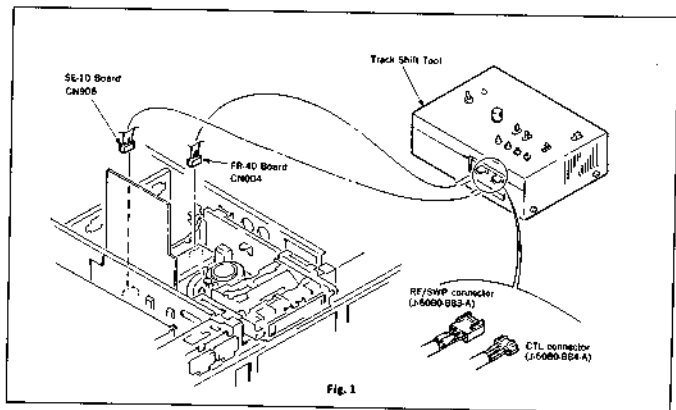
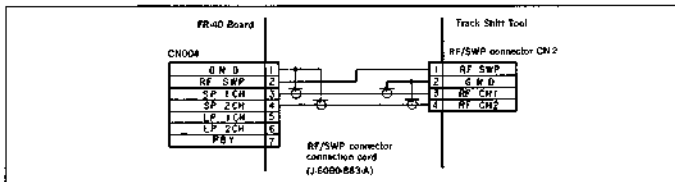


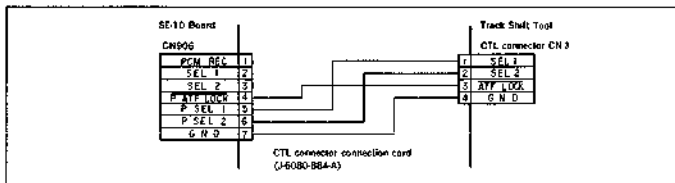
Fig. 1

[Designated Connecting Cord]

- RF/SWP connector connection cord
(Part No. J-6080-883-A)



- CTL connector connection cord
(Part No. J-6080-884-A)



[Setting of the Switches]

SEL switch

When performing the track shift, set the switch to ON. When setting to OFF, the unit side controls.

PATTERN switch

Set to EV side.

ATF ADJ

Set to OFF side.

When adjusting EVO-9500, the other switches are not used.

2-4-2. PREPARATION FOR ADJUSTMENT

Tools: Track Shift Tool (Ref. No. J-14)
RF/SWP connector (Ref. No. J-15)
CTL connector (Ref. No. J-16)
Oscilloscope
Alignment tape for tracking
(WR5-1NP) (Ref. No. J-5)

- (1) Clean the tape path surface (the individual tape guides, drum, capstan shaft and pinch roller).
- (2) Connection of the oscilloscope
ICH:CH2 checking pin of the Track Shift Tool
EXT TRIG:RF SWP checking pin of the Track Shift Tool
- (3) Set the SEL switch of the Track Shift Tool to OFF and play back the alignment tape for tracking (WR5-1NP). Check that the RF waveforms of both entrance and exit sides are flat. (fig. 1 (a)) If the RF waveforms of both sides are not flat, adjust them as follows.
 - . In case of the RF waveform at the entrance side is not flat. (fig. 1 (b))
 - ... Perform entrance Side Adjustment referring to Section 7-4-4.
 - . In case of the RF waveform at the exit side is not flat. (fig. 1 (c))
 - ... Perform Exit Side Adjustment referring to Section 7-4-5.

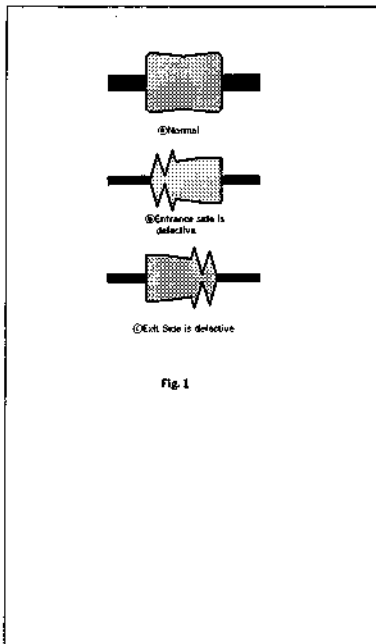


Fig. 1

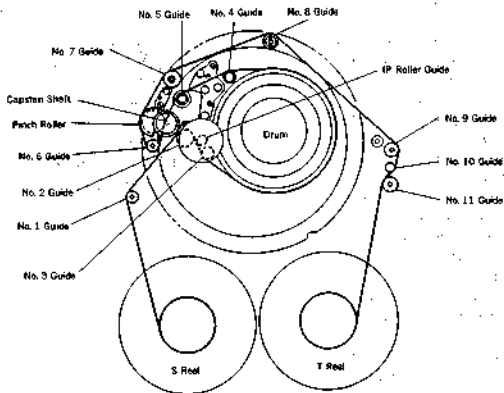
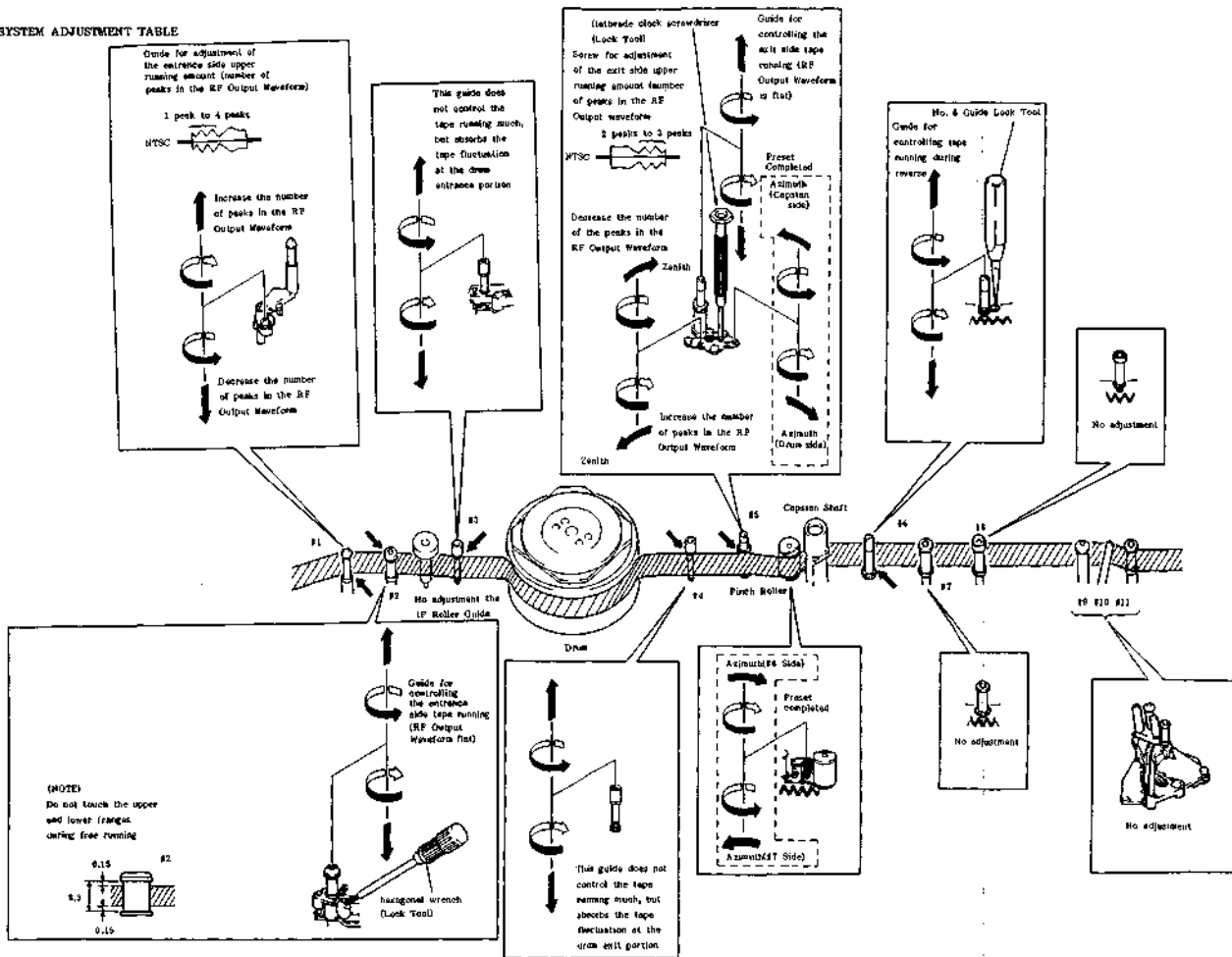
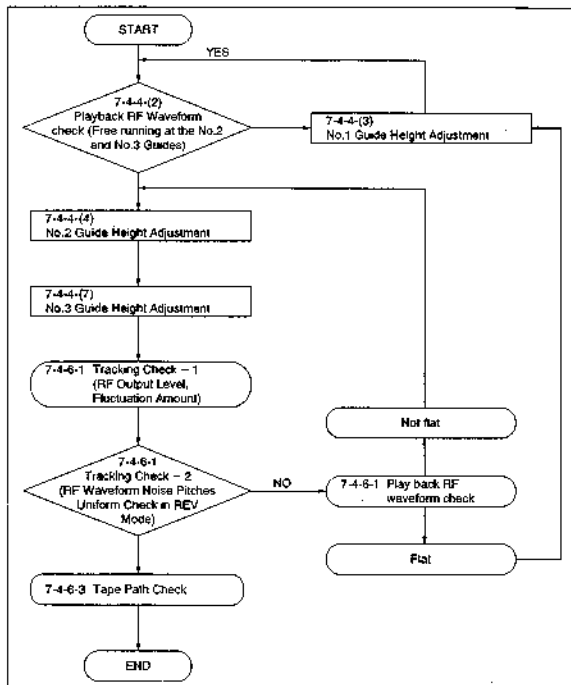


Fig. 2 Tape Guide Arrangement Diagram

7-4-5. TAPE PATH SYSTEM ADJUSTMENT TABLE



7-4-4. Tape Entrance Side Adjustment
Flow Chart of Adjustment



Mode: Play back the alignment tape

Tools: Alignment tape for tracking
(WRS-LNF) (Ref. No. J-5)
Oscilloscope
Track Shift Tool (Ref. No. J-14)
R/SW/P connector (Ref. No. J-15)
CTL connector (Ref. No. J-16)
Hexagonal screwdriver (across flat
has 0.89 mm) (Ref. No. J-17)
Small adjustment mirror (Ref. No.
J-4)

Preparations

- (i) Remove the Top Plate referring to Section 2-1.
- (ii) Open the MB-19 Board referring to Section 2-3.
- (iii) Connect the Track Shift Tool and oscilloscope to the unit referring to Sections 7-4-1 and 7-4-2.
- (iv) Play back the alignment tape.

Procedures

- (1) Remove the Fly Wheel referring to Section 7-2-1.
- (2) Loosen the No. 2 Guide Lock Screw and turn the No. 2 and No. 3 Guides counterclockwise to free the tape path at the entrance side. (Fig. 1 and 2)

Note: The space between upper and lower flanges of the No. 2 Guide is narrow. Therefore, then check that the tape is not touch the upper and lower flanges. If loosen the No. 2 Guide too much, the tape touches the lower flange and the RP waveform of the entrance side exceeds the original free waveform.

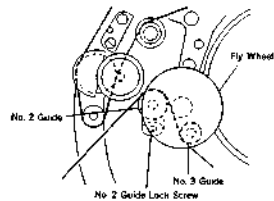


Fig. 1

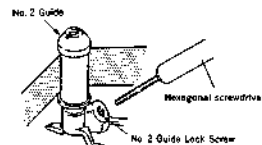


Fig. 2

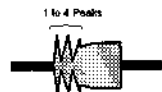


Fig. 3

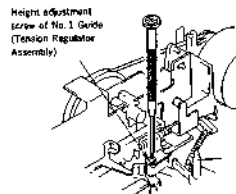


Fig. 4

- (3) Check that the RF waveform at the entrance side has 1 to 4 peaks in this condition. If not, adjust as follows. (fig. 3)

• less than 1 peak

Turn and adjust the height adjustment screw of the No. 1 Guide (Tension Regulator Arm Assembly) clockwise 90 degrees step. (fig. 4)

• more than 4 peaks

Turn and adjust the height adjustment screw counterclockwise 90 degrees step. (fig. 4)

- (4) Turn slowly the No. 2 Guide clockwise so that flatten the waveform at the entrance side. (fig. 5)

Notes: At this time, do not turn the No. 2 Guide too much.

- (5) Set the SEL switch of the Track Shift Tool to ON. Turn the Track Shift Knob and set the amplitude of the RF waveform to two-third position. (fig. 6)

- (6) Turn the No. 2 Guide and raise the entrance side waveform slightly. (fig. 7)

- (7) Flatten the waveform with the No. 3 Guide. (fig. 8)

- (8) Tighten the lock screw of the No. 2 Guide. (fig. 2)

- (9) Smear locking compound to the No. 1 Guide Height Adjustment Screw and top portion of the No. 3 Guide.

- (10) Install the Fly Wheel referring to Section 7-2-1.

Notes: After adjustment, perform Check After Adjustment referring to Section 7-4-6.

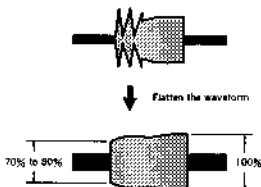


Fig. 5

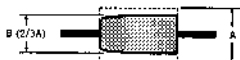
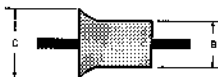


Fig. 6



$$C=1.15B \text{ to } 1.25B$$

Fig. 7

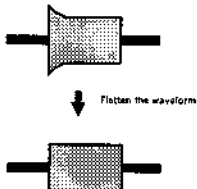
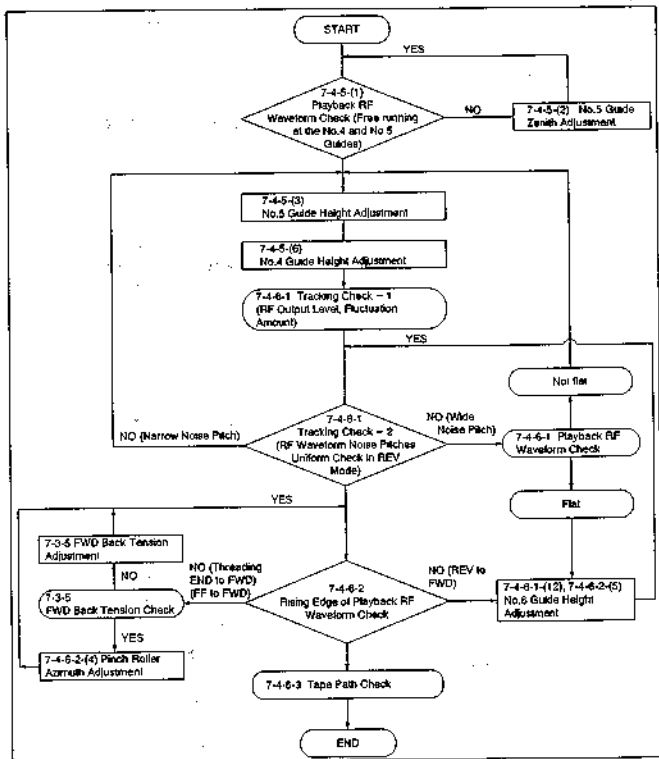


Fig. 8

7-4-5. Tape Exit Side Adjustment
Flow Chart of Adjustment



Mode: Play back the alignment tape

Tools: Alignment tape for tracking
(WRS-1NP) (Ref. No. J-3)

Oscilloscope

Track Shift Tool (Ref. No. J-14)

RF/SWP connector (Ref. No. J-15)

CTL connector (Ref. No. J-16)

Hexagonal screwdriver (across flat
has 0.89 mm) (Ref. No. J-17)

Small adjustment mirror (Ref. No.
J-4)

Preparation:

- (i) Remove the Top Plate referring to Section 2-1.
- (ii) Open the MB-19 board referring to Section 2-8.
- (iii) Connect the Track Shift Tool and oscilloscope to the unit referring to Sections 7-4-1 and 7-4-2.
- (iv) Play back the alignment tape.

Procedure:

- (i) Turn the No. 4 and No. 5 Guides counterclockwise to free the tape path at the exit side. (Fig. 1)

Note: If the No. 5 Guide nut is not loosen because of locking compound, dissolve locking compound with alcohol. Check that the tape does not touch the lower flange of the No. 5 Guide in free running.

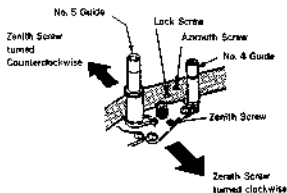


Fig. 1

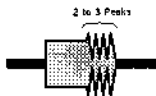


Fig. 2

- (2) Check that the RF waveform at the exit side has 2 to 3 peaks in this condition. If not, adjust as follows. (fig. 2)

• Turn and loosen the lock screw counterclockwise.

• less than 2 peaks

Turn and adjust slowly the zenith screw clockwise 45 degree step.

• more than 3 peaks

Turn and adjust slowly the zenith screw of the No. 5 Guide counterclockwise 45 degree step.

After adjustment, tighten the lock screw clockwise.(fig. 1)

Note: If tighten the lock screw too strongly, the waveform will change. Tighten suitably the lock screw. Never turn the azimuth screw of the No. 5 Guide.

- (3) Turn the No. 5 Guide clockwise and flatten the RF waveform at the exit side. (fig. 3)

Note: At this time, the waveform reaction is slow against the nut rotation. After checking that the waveform variation is stabilized, turn the nut more.

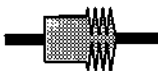
- (4) Set the SEL switch of the Track Shift Tool to ON. Turn the Track Shift Knob and set the amplitude of the RF waveform to two-third position. (fig. 4)

- (5) Turn the No. 5 Guide and raise the exit side waveform slightly. (fig. 5)

- (6) Turn the No. 4 Guide and flatten the waveform. (fig. 6)

- (7) Smear locking compound to the lock screw, zenith screw and top portions of the No. 4 Guide and No. 5 Guide.

Note: After adjustment, perform Check After Adjustment referring to Section T-4-5.



Flatten the waveform

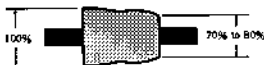


Fig. 3

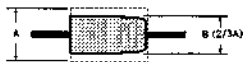


Fig. 4

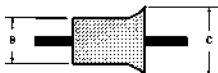
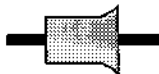


Fig. 5



Flatten the waveform



Fig. 6

7-4-6. CHECK AFTER ADJUSTMENT

Tool: No. 6 Guide Lock Screwdriver (Ref. No. J-10)

Alignment tape for tracking
(WRS-1NP) (Ref. No. J-5)

1. Video Tracking Check

- (1) Play back the alignment tape for tracking.
- (2) Set the SEL switch of the Track Shift Tool to ON. Turn the Track Shift Knob and set the amplitude of the RF waveform to two-third position; (fig. 1)
- (3) In this time, check that the amplitude minimum value (E. MIN.) of the RF waveform is more than 75% of maximum value (E. MAX.) (fig. 2)
- (4) In this time, check that the fluctuation amount of the RF waveform at entrance and exit sides meet the required specification as shown in figures. 3.
- (5) Set the SEL switch of the Track Shift Tool to OFF.
- (6) Set to the REY mode and check that the noise pitches of the waveform are uniform; (fig. 4) If not, adjust as follows.



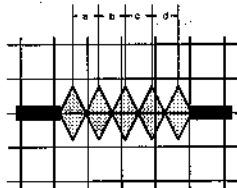
Fig. 1



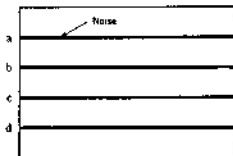
Fig. 2



Fig. 3



a b c d



Screen

Fig. 4

When the Noise pitch is narrow at the entrance side (upper of screen). (fig. 5)

- (7) Check that the RF waveform is flat in the PLAY mode.
- (8) Perform the height adjustment of the No. 1 Guide referring to Section 7-4-4.
Note: After adjustment, perform the Tracking Check referring to Section 7-4-6-1.

When the RF waveform is not flat.

- (9) Perform the height adjustment of the No. 2 and No. 3 Guides referring to Section 7-4-4.

Note: After adjustment, perform the Tracking Check referring to Section 7-4-6-1.

When the noise pitch is narrow at the exit side (lower of screen). (fig. 6)

- (10) Set to PLAY mode and perform the height adjustment of the No. 4 and No. 5 Guides referring to Section 7-4-5. After adjustment, perform the Tracking Check referring to Section 7-4-6-1 and check that it meet the required specification.

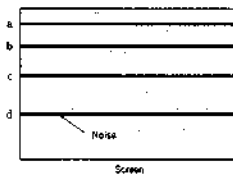
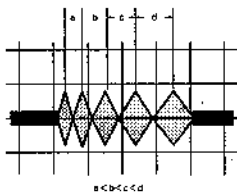


Fig. 5

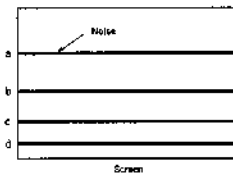
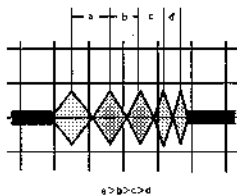


Fig. 6

When the noise pitch is wide at the exit side (lower of screen), (Fig. 7)

- (11) Set to PLAY mode and check that the RF waveform is flat.
- (12) Turn and loosen the Guide Lower Gear counterclockwise with the No. 6 guide lock tool, (fig. 8).
- (13) Turn the No. 6 Guide and perform the height adjustment.

Note: At this time, if the No. 6 Guide is raised too much, the wrinkles may occur between the Capstan Shaft and No. 5 Guide (A portion). Check that the wrinkles are not occur. (fig. 9)

- (14) Turn and lock the Guide Lower Gear clockwise with the No. 6 guide lock tool.

*Touch the Guide Lower Gear against the lower flange of the No. 6 Guide and turn it more about 10 degrees.

Note: After adjustment, perform the Tracking Check referring to Section 7-4-6-1.

When the waveform is not flat.

- (15) Perform the height adjustment of the No. 4 and No. 5 Guides referring to Section 7-4-5.

Note: After adjustment, perform the Tracking Check referring to Section 7-4-6-1.

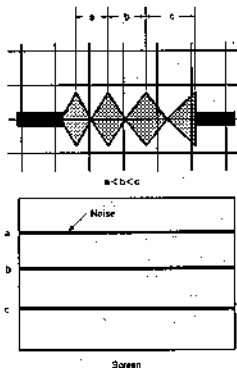


Fig. 7

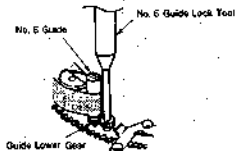


Fig. 8

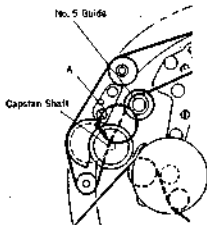


Fig. 9

2. Rising Edge of Waveform Check

- (1) Check that the RF waveform rises horizontally (flat waveform) in playback after threading is completed, playback after CUE/REV or FF mode. If the RF waveform do not rise horizontally (flat waveform), adjust as follows.

In case of the noise occurs at the exit side (lower of screen) at the rising edge of the playback, after threading is completed, (fig. 11)

- (2) Check that the FWD Back Tension. When the FWD Back Tension is too low.
- (3) Adjust again referring to FWD Back Tension Adjustment of Section 7-3-6. When the FWD Back Tension is normal.

- (4) While adjusting the waveform at the rising edge of the playback, turn the azimuth screw of the Pinch Roller clockwise about 5 degrees step. Then check the rising edge of waveform.

In case of the noise occurs at the exit side (lower of screen) at the rising edge of the playback after REV mode, (fig. 11)

- (5) Turn and loosen the Guide Lower Gear counterclockwise with No. 6 guide lock tool. (fig. 8)
- (6) Turn the No. 6 Guide and perform the height adjustment.

Note: At this time, if the No. 6 Guide is raised too much, the wrinkles may occur between the Capstan Shaft and No. 5 Guide (A portion). Check that the wrinkles are not occur. (fig. 9)

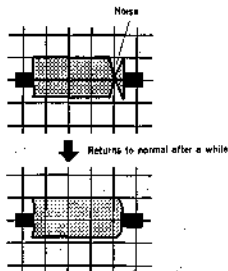


Fig. 11

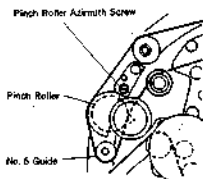


Fig. 12

In case of the noise occurs at the exit side (lower of screen) at the start of the playback after FF mode. (fig. 11)

(7) Check that the FWD Back Tension.

When the FWD Back Tension is too low,

(8) Adjust again referring to FWD Back Tension Adjustment of Section 7-3-5.

When the FWD Back Tension is normal,

(9) While adjusting the waveform at the rising edge of the playback, turn the azimuth screw of the Pinch Roller clockwise about 5 degrees step. Then check the rising edge of waveform. (fig. 12).

Notes After adjustment, be sure to check that waveform again at the rising edge of the playback after threading is completed.

3. Tape Running Check

Check the tape running at the flange of the Guides (shown by arrows) in PLAY and REV modes.

- | | | |
|-------------|-----|---|
| No. 1 Guide | ... | Tape runs in contact with upper or lower flange. If tape curl exist, less than 0.5mm at the tape cut is acceptable. |
| No. 2 Guide | ... | |
| No. 5 Guide | ... | |
| No. 3 Guide | ... | Tape runs in contact with upper or lower flange without curl. |
| No. 6 Guide | ... | |
| No. 4 Guide | ... | Tape runs in contact with upper flange. If tape curl exists, less than 0.5mm of tape curl is acceptable. |

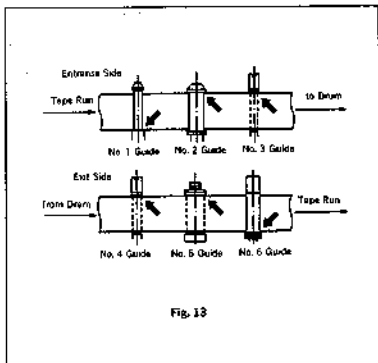


Fig. 13

SECTION 8 ELECTRICAL ADJUSTMENT

8-1. POWER SUPPLY ALIGNMENT

8-1-1. Equipment Required

- Digital voltmeter

8-1-2. +6V Adjustment

Machine condition for adjustment	Specifications	Adjustments
• STANDBY mode	CN101-2/IF-20 (J-1) 5.4 ± 0.1Vdc	RV203/ POWER BLOCK (B-1)

8-1-3. REG +5V Adjustment

Machine condition for adjustment	Specifications	Adjustments
• E-E mode	CN101-5/IF-20 (J-1) 5.2 ± 0.1Vdc	RV202/ POWER BLOCK (D-1)

8-1-4. REG +9V Adjustment

Machine condition for adjustment	Specifications	Adjustments
• E-E mode	CN101-10/IF-20 (J-1) 9.0 ± 0.1Vdc	RV201/ POWER BLOCK (D-1)

8-2. SERVO SYSTEM ALIGNMENT

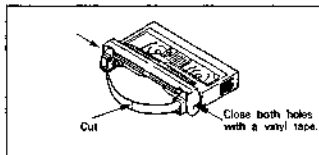
8-2-1. Equipment Required

- Oscilloscope
- Frequency counter
- Digital voltmeter
- Alignment tape

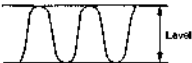
Name (Part No.)	REC mode	Tape Type	Tape Speed	Contents	
				Video Area	PCM Area
SP operation check WRS-8NSE (8-967-995-43)	H8	ME	SP	VIDEO SIGNAL Color-bar 4 min. Monoscope 4 min. AUDIO SIGNAL (AFM) 400 Hz 60% mod.	AUDIO SIGNAL (PCM) 400 Hz 20 min.
LP operation check WRS-8NLE (8-967-995-52)	H8	ME	LP	VIDEO SIGNAL Color-bar 4 min. Monoscope 4 min. AUDIO SIGNAL (AFM) 400 Hz 60% mod.	AUDIO SIGNAL (PCM) 400 Hz 40 min.

- Empty cassette (See below.)

1. Draw out a tape and cut it.
2. Cover two holes on both side of the cassette with a vinyl tape.

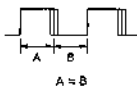


8-2-2. DS Clock Check

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color-bar signal • STOP mode 	TP107/SE-10 (C-5)  Level=more than 2.5 Vp-p Frequency=3578756 ± 390 Hz	

8-2-3. Capstan FG Duty Adjustment

Remove the Bottom Plate and open the MK-4 Board for this adjustment. If it does not meet the specification, remove the mechanical deck and adjust again.

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none">• Connect each TP001 AND TP002 on the SE-10 board to ground with jumper wires.• Insert the empty cassette tape and put the machine into the play back mode.• After adjustment, remove the jumper wires.	TP105/SE-10 (D-4)  <p>A = B</p>	RV801/MD-23 (D-3)

8-2-4. Reel FG Adjustment

Remove the mechanical deck for this adjustment. Connect only CH907 on the SE-10 Board.

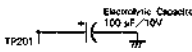
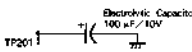
Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none">• Play back the alignment tape WRS-8NLE.	TP801/MD-23 (G-1) 21 ± 1 Hz	RV901/MD-23 (G-1)
<ul style="list-style-type: none">• Perform confirmation while playing back the alignment tape WRS-8NLE.	TP902/MD-23 (E-1) 1.0 through 1.4Vdc	
<ul style="list-style-type: none">• Perform confirmation while playing back the alignment tape WRS-8NLE with CUE (× 9) mode. CUE (× 9): While pressing the PB button, press the FF button on the MB-19 Board.	TP901/MD-23 (G-1) 37 through 50 Hz TP902/MD-23 (E-1) 1.4 through 1.9Vdc	

Note: After adjustment, install the mechanical deck.

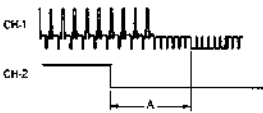
8-2-5. Drum Free Speed Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none">• VIDEO IN: No signal• Use the HiB MP tape.• REC mode	TP101/SE-10 (D-5) 1.9 ± 0.1Vdc	RV102/SE-10 (E-6)

8-2-6. Capstan Free Speed Adjustment

Machine condition for adjustment	Specifications	Adjustments
<p>Step 1 (SP mode)</p> <ul style="list-style-type: none"> Connect TP201/SE-10 (H-3) to ground with electrolytic capacitor (100 μF/10V) during STOP mode.  <ul style="list-style-type: none"> Connect TP002/SE-10 (D-6) to ground with jumper wire during STOP mode. Play back the alignment tape WRS-8N5E. After adjustment, remove the jumper wire and capacitor. 	<p>TP105/SE-10 (D-4)</p> <p>960 ± 1 Hz</p>	<p>RV108/SE-10 (D-5)</p>
<p>Step 2 (LP mode)</p> <ul style="list-style-type: none"> Connect TP201/SE-10 (H-3) to ground with electrolytic capacitor (100 μF/10V) during STOP mode.  <ul style="list-style-type: none"> Connect TP002/SE-10 (D-6) to ground with jumper wire during STOP mode. Connect pin 4 of CN901/SE-10 (A-5) to ground with jumper wire during STOP mode. Play back the alignment tape WRS-8N5E. After adjustment, remove the jumper wire and capacitor. 	<p>TP105/SE-10 (D-4)</p> <p>480 ± 1 Hz</p>	<p>RV105/SE-10 (D-5)</p>

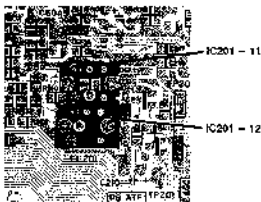
8-2-7. Switching Position Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color bar signal portion of the alignment tape WRS-8N5E. 	<p>CH-1: TP701/AHK-4(H-2)</p> <p>CH-2: TP103/SE-10 (F-3)</p>  <p>$A = 0.5 \pm 0.3H$</p>	<p>RV101/SE-10 (C-6)</p> <p>Trigger: TP301/SE-10 (F-3)</p>

8-2-8. ATF BPF Balance Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Connect TP208/SE-10 (H-3) to ground with jumper wire. VIDEO IN : color-bar signal Perform the self-recording /play back with a Hi8 ME tape. After adjustment, remove the jumper wire. 	CH-1: IC201-12/SE-10 (G-4) CH-2: IC201-11/SE-10 (G-4) 	RV201/SE-10 (G-4)

Note: It is difficult to connect the IC201-11 and IC201-12.
The substitutive positions of these pins described below.

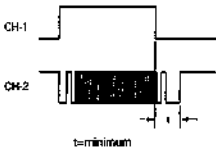


⇒ Open the SE-10 board.

8-2-9. STILL Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN : color-bar signal Perform the self-recording/play back with a Hi8 ME tape. Put the unit into the PAUSE mode and measure the pulse width of A portion. Advance one frame and perform adjustment if the pulse width of A is narrow. If it is wide, advance the frame for one more frame and perform adjustment by observing narrower pulse width. 	CH-1: TP103/SE-10 (F-3) CH-2: TP204/SE-10 (F-5) $t1=4.0 \pm 0.1\text{msec}$ $t2=11.4 \pm 0.1\text{msec}$	t1 RV203/SE-10 (H-3) t2 RV204/SE-10 (H-3) Trigger: TP103/SE-10 (F-3)

8-2-10. SP Slow Adjustment

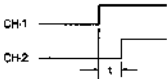
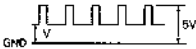
Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN : color-bar signal • Using P6-120MPN tape, perform the short recording of the color-bar signal at the end of tape. • Connect TP001/SE-10 (C-2) to ground with jumper wire. • Playback the recorded portion with SLOW ($\times 1/5$ speed) mode. • When the noise appears on the monitor screen, adjust RV104 temporarily. • When the noise appears on the monitor screen, adjust RV104 so that noise at the bottom of the screen disappears. • After adjustment, remove the jumper wire. 	<p>CH-1: TP103/SE-10 (F-3) CH-2: TP105/SE-10 (D-4)</p> 	<ul style="list-style-type: none"> ⊗ RV304/SE-10 (E-2) ⊗ RV104/SE-10 (D-5) <p>Trigger: TP302/SE-10 (F-3)</p>

8-2-11. LP Slow Adjustment


Note: This adjustment should be performed after completion of "8-2-10. SP SLOW ADJUSTMENT".

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Connect pin 4 of CN901/SE-10 (A-5) to ground with jumper wire. • VIDEO IN : color-bar signal • Perform the a short recording of the color-bar signal at the end of P6-120N tape. • Connect TP001/SE-10 (C-2) to ground with jumper wire. • Playback the recorded portion with SLOW ($\times 1/5$ speed). • After adjustment, remove jumper wires. 	<p>Adjust RV103 so that the noise at the bottom of the screen disappears.</p>	<ul style="list-style-type: none"> ⊗ RV103/SE-10 (E-5)

8-2-12. SP Slow fr Adjustment

Machine condition for adjustment	Specifications	Adjustments
Step 1 <ul style="list-style-type: none"> Perform the short recording of the color-bar signal with a Hi8 ME tape. Play back the recorded portion with SLOW ($\times 1/30$ speed). SLOW ($\times 1/30$ speed): Short-circuit pin 5 of CN901/SE-10 (A-5) to ground for one second with 6.2kΩ resistor. 	CH-1: TP103/SE-10 (F-3) CH-2: TP102/SE-10 (D-5)  $t=580 \pm 10 \mu\text{sec}$	Ⓐ RV301/SE-10 (F-1)
Step 2 <ul style="list-style-type: none"> Perform the short recording of the color-bar signal with a Hi8 ME tape. Play back the recorded portion with SLOW ($\times 1/5$ speed). SLOW ($\times 1/5$ speed): Press SLOW button or short-circuit pin 5 of CN901/SE-10 (A-5) to ground for one second with 3.6kΩ resistor. 	TP301/SE-10 (E-2)  $V=3.9 \pm 0.1\text{Vdc}$	Ⓐ RV303/SE-10 (E-1)

8-2-13. LP Slow fr Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Connect pin 4 of CN901/SE-10 (A-5) to GND with jumper wire. (LP mode) Perform the short recording of the color-bar signal with a Hi8 ME tape. Play back the recorded portion with SLOW ($\times 1/5$ speed). 	CH-1: TP103/SE-10 (F-3) CH-2: TP102/SE-10 (D-5)  $t=580 \pm 10 \mu\text{sec}$	Ⓐ RV302/SE-10 (F-2)

6-2-14. Slow Tracking Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Play back the color-bar signal portion of alignment tape WRS-BNSE with SLOW mode. • Turn RV001/FB-169 (J-3) and stops where at the center click position. 	<p>W002-10/FB-169 (E-3)</p> <p style="text-align: center;">2.5V ± 0.1 Vdc</p> <p>After the adjustment, turn RV001/FB-169 (J-3) and confirm the voltage whether varies.</p>	<p>⊗ RV002/FB-169 (J-3)</p>

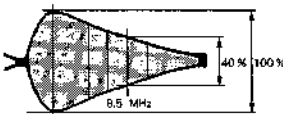
8-3. VIDEO SIGNAL SYSTEM ALIGNMENT

8-3-1. Equipment Required

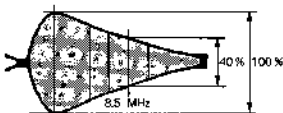
- Oscilloscope
- Frequency counter
- Test signal generator
- Vectorscope
- Vectorscope
- Sweep generator

Name (Part No.)	REC mode	Tape Type	Tape Speed	Contents	
				Video Area	PCM Area
Video freq. resp. WR5-7NE (8-967-995-13)	Hi8	ME	SP	RF sweep 0 to 15 MHz Marker: 2.0 MHz 4.5 MHz 7.0 MHz 8.5 MHz 10.0 MHz	
SP operation check WR5-5NSP (8-967-995-42)	STD	MP	SP	VIDEO SIGNAL Color-bar 4 min. Monoscope 4 min. AUDIO SIGNAL (AFM) 400 Hz 60% mod.	AUDIO SIGNAL (PCM) Monoscope Section 20 Hz 20 sec. 400 Hz 20 sec. 14 kHz 20 sec. Color-Bar Section 1 kHz 4 min.
SP operation check WR5-8NSE (8-967-995-43)	Hi8	ME	SP		AUDIO SIGNAL (PCM) 400 Hz 20 min.
LP operation check WR5-8NLE (8-967-995-52)	Hi8	ME	LP	VIDEO SIGNAL Color-bar 4 min. Monoscope 4 min. AUDIO SIGNAL (AFM) 400 Hz 60% mod.	

8-3-2. SP PB Frequency Response Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Play back the alignment tape WR5-7NE. 	CN004-3/FR-40 (A-2)  2 MHz 8.5 MHz=40% (in reference to 2 MHz)	Ⓐ RV004/RP-73 (SP) Trigger: CN004-2/FR-40 (A-2)
	CN004-4/FR-40 (A-2) 8.5 MHz=40% (in reference to 2 MHz)	Ⓐ RV003/RP-73 (SP) Trigger: CN004-2/FR-40 (A-2)

8-3-3. LP PB Frequency Response Adjustment

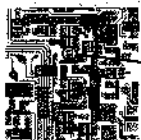
Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Connect TP104/SE-10 (D-4) to ground with jumper wire. • Play back the alignment tape WR5-7NE. • After adjustment, remove a jumper wire. 	CN004-5/FR-40 (A-2)  2 MHz 8.5 MHz=40% (in reference to 2 MHz)	Ⓐ RV004/RP-73 (LP) Trigger: CN004-2/FR-40 (A-2)
	CN004-6/FR-40 (A-2) 8.5 MHz=40% (in reference to 2 MHz)	Ⓐ RV003/RP-73 (LP) Trigger: CN004-2/FR-40 (A-2)

8-3-4. Flying Erase Confirmation

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN : color-bar signal • Use a Hi8 ME tape. • REC mode 	TP041/FR-40 (C-1) $7.9 \pm 0.5 \text{ MHz}$	

8-3-5. SubCarrier Frequency Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: no signal • PB mode 	Q164-collector/HK-4 (F-4) $3579545 \pm 30 \text{ Hz}$	Ⓐ CV601/HK-4 (B-3)




Q164-Collector


8-3-6. PB C Comb Filter Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Supply the composite color-bar signal ($Y=0.5 \text{ Vp-p}$, burst=0.143 Vp-p) to CN911-4/HK-4 (H-2). • E-E mode 	IC501-26/HK-4 (B-2) Minimize residual chroma component at RED portion (30 mVp-p or less)	Ⓐ RV502/HK-4 (A-3) Ⓑ LV501/HK-4 (B-3)


8-3-7. SYNC AGC Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color-bar signal • E-E mode 	TP402/HK-4 (E-3)  $A=0.50 \pm 0.02$ Vp-p	Ⓐ RV302/HK-4 (D-1)


8-3-8. AGC Output Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color-bar signal • E-E mode 	TP301/HK-4 (B-3)  $A=0.50 \pm 0.02$ Vp-p	Ⓐ RV405/HK-4 (D-3)


8-3-9. Video Output Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color-bar signal • E-E mode 	TP305/HK-4 (E-1)  $A=1.00 \pm 0.05$ Vp-p	Ⓐ RV301/HK-4 (E-1)


8-3-10. STD Mode PB Y Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Play back the color-bar signal portion of the alignment tape WR5-SNSP. 	TP302/HK-4 (D-3)  $A=0.50 \pm 0.02$ Vp-p	Ⓐ RV304/HK-4 (E-2)

8-3-11. PB De-emphasis Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color-bar signal portion of the alignment tape WRS-5NSP. 	TP302/HK-4 (D-3) 	Ⓒ RV304/HK-4 (E-2)

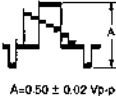
8-3-12. Hi8 Mode PB Y Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color-bar signal portion of the alignment tape WRS-8NSE. 	TP302/HK-4 (D-3) 	Ⓒ RV305/HK-4 (E-2)

8-3-13. STD Mode Y FM Carrier Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: no signal Use a P6-MP series tape. E-E mode 	IC401-14/HK-4 (D-2) 4.40 ± 0.02 MHz	Ⓒ RV402/HK-4 (D-2)


8-3-14. STD Mode Y FM Deviation Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color-bar signal Perform the self-recording/play back with a P6-MP series tape. 	TP302/HK-4 (D-3) 	Ⓒ RV403/HK-4 (D-2) When turning in the clockwise direction, the level decreases.

8-3-15. Hi8 Mode Y FM Carrier Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: no signal • E-E mode 	TP401/HK-4 (C-3) 6.00 ± 0.02 MHz	Ⓐ RV401/HK-4 (D-2)

8-3-16. Hi8 Mode Y FM Deviation Adjustment

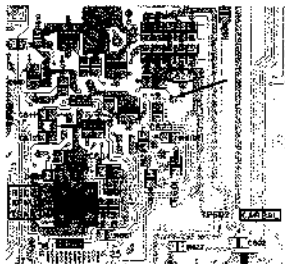
Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color-bar signal • Perform the self-recording/play back with a Hi8 ME tape. 	TP302/HK-4 (D-3)  $A = 0.50 \pm 0.02$ Vp-p <ul style="list-style-type: none"> • Repeat recording and play back several times until the level meets the specification. Adjust RV404 during recording. 	Ⓐ RV404/HK-4 (D-2) When turning in the clockwise direction, the level decreases.

8-3-17. 376th VCO Adjustment


Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color-bar signal • E-E mode • Solder the jumper wire to the position described below. Connect the voltmeter at the end of jumper wire. • After adjustment, remove the jumper wire. 	IC602-26/HK-4 (B-4) $3.0 \pm 0.1Vdc$	Ⓢ RV601/HK-4 (A-4)

Note: It is difficult to connect to 26 pin of IC602 because it is under the oscillator. The substitutive position is described below.


HK-4 Board (A-4)




8-3-18. Chroma Emphasis Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Connect pin 47 of IC602 to TP602/HK-4 (F-5) via 10 k ohm resistor. • Connect pin 47 of IC602 to ground via 10 k ohm resistor. • VIDEO IN: color-bar signal • E-E mode • After adjustment, remove the resistor. 	IC601-11/HK-4 (A-5)  $C \text{ (chroma component)} = \text{minimum}$	Ⓢ T602/HK-4 (A-6)


8-3-19. Carrier Balance Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Play back the color-bar signal portion of the alignment tape WR5-8NSE. 	TP602/HK-4 (A-5)  A (4.32 MHz component) amplitude	Ⓐ RV602/HK-4 (A-5)

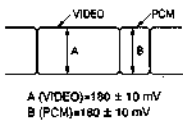
8-3-20. REC Y RF Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: no signal • Use a PS-MP tape • E-E mode 	TP201/HK-4 (D-6)  $A=0.62 \pm 0.02$ Vp-p	Ⓐ RV202/HK-4 (D-5)

8-3-21. REC C RF Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Perform following connections. Q211-emitter (D-5) ← TP902/HK-4 (F-5) CN101-3 (C-6) → ground Q609-emitter (B-6) → ground • VIDEO IN: color-bar signal • E-E mode • After adjustment, remove the jumper wires. 	TP201/HK-4 (D-6) RED  $A=100 \pm 10m$ Vp-p	Ⓐ RV201/HK-4 (C-5)

6-3-22. SP REC Current Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN : 50% white signal • Use a Hi8 ME tape • REC mode 	<p>TP001/FR-40 (A-1)</p>  <p>A (VIDEO) = 190 ± 10 mV B (PCM) = 180 ± 10 mV</p>	<p>VIDEO</p> <ul style="list-style-type: none"> ⊗ RV001/RP-73 (SP) <p>PCM</p> <ul style="list-style-type: none"> ⊗ RV002/RP-73 (SP) <p>Trigger: CN004-2/FR-40</p>

Note: LP REC CURRENT ADJUSTMENT (RV001, RV002) is unnecessary.

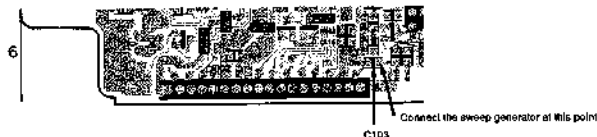
8-3-23. DOC Level Adjustment

Step 1.

Note: Remove C103 on the HK-4 Board (F-6) for this adjustment. Use the sweep generator and put the marker in the 5 MHz portion. Adjust the level of marker to the level described below steps with variable volume of the sweep generator. After adjustment, solder the chip capacitor (0.047 μ F) to C103 on the HK-4 Board (F-6). Be sure to use the new capacitor. (1-163-035-00)

Connect the output of sweep generator to the point of HK-4 Board after removing C103 as described below.

HK-4 soldering side



Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color-bar signal. • Adjust the marker level of the sweep generator to meet the specification. • E-E mode 	<p>IC501-17/HK-4 (B-2)</p>	<p>RV101/HK-4 (F-5)</p>


• After adjustment, remove the sweep generator and solder chip capacitor to C103.

Step 2.


Use the oscilloscope in this adjustment.

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Supply the composite color-bar signal (Y=0.5 Vp-p, Borst=0.143 Vp-p, chrome OFF) to CN911-4 pin on the HK-4 Board (H-2). 	<p>IC501-12/HK-14 (B-2)</p> <p>A±0 ± 15 mVp-p</p>	<p>RV501/HK-4 (A-2)</p>


8-3-24. E-E Y Signal Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color-bar signal • E-E mode 	TP701/HK-4 (H-2)  $A=1.00 \pm 0.05 \text{ Vp-p}$	Ⓐ RV702/HK-4 (H-2)


8-3-25. E-E C Signal Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color-bar signal • E-E mode 	TP801/HK-4 (H-4)  $A=296 \pm 10 \text{ mVp-p}$	Ⓐ RV802/HK-4 (H-5)

8-3-26. JOG Direct Y Signal Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Play back the color-bar signal portion of the alignment tape WR5-8NSE. • PAUSE mode 	TP701/HK-4 (H-2)  $A=1.00 \pm 0.05 \text{ Vp-p}$	Ⓐ RV701/HK-4 (G-2)

8-3-27. JOG Direct C Signal Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Play back the color-bar signal portion of the alignment tape WR5-8NSE. • PAUSE mode 	TP801/HK-4 (H-4)  $A=286 \pm 10 \text{ mV}$	Ⓐ RV801/HK-4 (G-5)

8-3-28. Chroma Cancel (1H) Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color bar signal • E-E mode 	TP203//F-20 (A-2) C (residual chroma component)=minimum Level=less than 25 mvp-p	<ul style="list-style-type: none"> ⊗ RV201//F-20 (B-1) ⊗ LV201//F-20 (B-1)

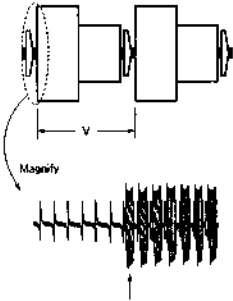
8-3-29. Chroma Cancel (2H) Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color bar signal • E-E mode 	TP207//F-20 (C-2) A=less than 20 mvp-p	<ul style="list-style-type: none"> ⊗ RV204//F-20 (C-2) ⊗ LV202//F-20 (C-1)


8-3-30. DC Offset Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: no signal • E-E mode 	<ul style="list-style-type: none"> • TP208//F-20 (C-3) • TP209//F-20 (C-3) 100 ± 10 mvp-p	<ul style="list-style-type: none"> ⊗ RV205//F-20 (C-3)


8-3-31. C Comb Cancel Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color-bar signal • E-E mode 	<p data-bbox="363 248 493 266">TP206/IF-20 (B-8)</p>  <p data-bbox="456 695 684 732">Adjust the level and level at right side equally.</p>	<p data-bbox="752 248 902 266">RV203/IF-20 (B-2)</p>


8-3-32. Ys Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color-bar signal • E-E mode 	<p data-bbox="363 875 493 892">TP204/IF-20 (A-3)</p>  <p data-bbox="484 1096 614 1113">$A = 0.5 \pm 0.02 \text{ Vp-p}$</p>	<p data-bbox="752 875 902 892">RV202/IF-20 (A-3)</p>


8-3-33. Noise Cancel +8 dB Amplifier Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color-bar signal portion of alignment tape WR5-8NSE. 	CH-1: TP602/IF-20 (D-5) CH-2: TP604/IF-20 (D-4)  Peak level B \times 2 = Peak level A	<ul style="list-style-type: none"> RV601/IF-20 (D-5)

8-3-34. Limiter Cancel Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color-bar signal portion of alignment tape WR5-8NSE. 	TP603/IF-20 (E-5)  A (burst portion) = minimum	<ul style="list-style-type: none"> RV602/IF-20 (E-4)

8-3-35. Y Output Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color bar signal portion of the alignment tape WR5-8NSE. 	TP651/DI-11 (K-4)  A = 1.0 \pm 0.1 Vp-p	<ul style="list-style-type: none"> RV651/DI-11 (K-4)


8-3-36. CNR Chroma Output Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Play back the color bar signal portion of the alignment tape WRS-8N5E. 	<p data-bbox="365 248 493 267">TP652/DI-11 (J-3)</p> <div data-bbox="443 299 669 387" style="text-align: center;"> </div> <p data-bbox="470 409 619 428" style="text-align: center;">$A=0.296 \pm 0.01$ Vp-p</p>	<ul style="list-style-type: none"> • RV652/DI-11 (J-4)



8-3-37. Yx Filter DIP Point Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Disconnect CN901/IF-20 (C-5) and input the color-bar signal of 50 mVp-p burst at pin 1 of CN901. • PLAY mode • Turn RV706/IF-20 (G-5) fully counterclockwise. 	<p data-bbox="365 550 493 569">TP705/IF-20 (G-5)</p> <div data-bbox="477 583 610 729" style="text-align: center;"> </div> <p data-bbox="365 751 733 790" style="text-align: center;">Turn RV702 and RV703 alternately and minimize the burst level.</p>	<ul style="list-style-type: none"> • RV702/IF-20 (H-5) • RV703/IF-20 (I-5)

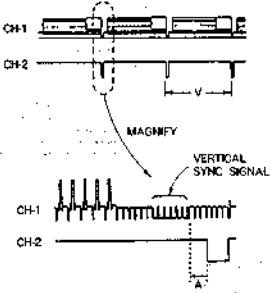
8-3-36. Yx Filter C Control Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color-bar signal E-E mode Set CH-1 and CH-2 of oscilloscope ranges equally. 	<p>Step 1 CH-1: TP709/IF-20 (G-5) (AC range) CH-2: TP709/IF-20 (G-5) (AC range)</p> <p>Align the CH-1 and CH-2 waveforms.</p> <p>Step 2 CH-1: TP706/IF-20 (G-5) (DC range) CH-2: TP711/IF-20 (G-5) (DC range)</p>  <p>$4:6 \leq A:B \leq 6:4$</p>	<ul style="list-style-type: none"> RV706/IF-20 (G-5)

8-3-39. Video Output Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color-bar signal E-E mode 	<p>TP706/IF-20 (I-4)</p>  <p>$A=1.0 \pm 0.05$ Vp-p $B=0.266 \pm 0.02$ Vp-p</p>	<ul style="list-style-type: none"> RV704/IF-20 (I-5) RV705/IF-20 (I-5)
	<p>TP712/IF-20 (J-4)</p>  <p>$A=1.0 \pm 0.05$ Vp-p $B=0.266 \pm 0.02$ Vp-p</p>	<ul style="list-style-type: none"> RV707/IF-20 (J-4) RV708/IF-20 (J-5)

8-3-40. REF V Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color-bar signal • E-E mode 	<p>CH-1: TP204/IF-20 (A-3) CH-2: IC903 PIN 7/IF-20 (D-2)</p>  <p style="text-align: center;">$A = 134.7 \pm 5.0 \mu\text{sec}$</p>	<p>⊙ RV901/IF-20 (B-5)</p>

8-3-41. Picture Splitting Adjustment

Machine condition for adjustment	Specifications	Adjustments
	<p>Set RV902 and RV903 on the MD-23 board to the mechanical center position.</p>	<p>⊙ RV902/MD-23 (A-2) ⊙ RV903/MD-23 (A-2)</p>

8-4. AUDIO SIGNAL SYSTEM ALIGNMENT

8-4-1. Equipment Required

- Oscilloscope
- Frequency counter
- Audio signal generator
- Audio level meter
- Digital voltmeter
- Alignment tape

Name (Part No.)	REC mode	Tape Type	Tape Speed	Contents	
				Video Area	PCM Area
SP operation check WR5-8N5E (8-967-995-43)	Hi8	ME	SP	VIDEO SIGNAL Color-bar 4 min. Monoscope 4 min. AUDIO SIGNAL (AFM) 400 Hz 60% mod.	AUDIO SIGNAL (PCM) 400 Hz 20 min.
LP operation check WR5-8N1E (8-967-995-52)	Hi8	ME	LP	VIDEO SIGNAL Color-bar 4 min. Monoscope 4 min. AUDIO SIGNAL (AFM) 400 Hz 80% mod.	AUDIO SIGNAL (PCM) 400 Hz 20 min.

8-4-2. PCM Master Clock Adjustment

Note: Before adjustment, remove the PA-27 board.

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Connect pin 14 of IC853/PD-19 (A-1) and pin 11 of CN852/PD-19 (A-2) with jumper wire. • E-E mode • After the adjustment, remove jumper wire. 	IC853-8/PD-19 (A-1) 11.45 ± 0.01 MHz	Ⓐ RV851/PD-19 (A-2)

8-4-3. PCM Playback VCO Free-Frequency Adjustment

Note: Before adjustment, remove the PA-27 board.

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Connect pin 9 of CN851/PD-19 (B-1) and pin 11 of CN852/PD-19 (C-3) with jumper wire. • Connect pins 7 and 8 of CN852/PD-19 (C-3) with jumper wire. • E-E mode • After the adjustment, remove jumper wires. 	IC854-8/PD-19 (A-2) 11.50 ± 0.05 MHz	Ⓐ RV854/PD-19 (A-2)

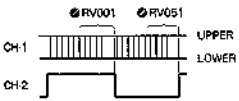
8-4-4. D/A Converter Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the Audio 400 Hz portion of the alignment tape WR5-8NSE. 	CN001-16/PA-27 (A-2) -4.0 ± 0.2 dBs	Ⓒ RV032/PA-27 (A-1)

8-4-5. NR Decode Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the Audio 400 Hz portion of the alignment tape WR5-8NSE. 	CN001-20/PA-27 (A-3) -14.0 ± 0.5 dBa <ul style="list-style-type: none"> If adjustment value doesn't meet the specification, change the value of resistors as follows and perform adjustment again. R052 12k → 13k R012 12k → 13k 	Ⓒ RV031/PA-27 (C-1)

8-4-6. A/D Converter Offset Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Connect pin 8 of CN001/PA-27 (A-2) to pin 17 of CN001/PA-27 (A-2) with jumper wire. Connect pins 15 and 18 of CN001 with jumper wire. Connect pins 4 and 5 of CN001 with jumper wire. REC mode (no signal input) After adjustment, remove jumper wires. 	CH-1: CN001-11/PA-27 (A-2) CH-2: CN001-9/PA-27 (A-2)  Adjust upper and lower brightnesses for the same.	L-CH Ⓒ RV001/PA-27 (B-2) R-CH Ⓒ RV051/PA-27 (B-1)

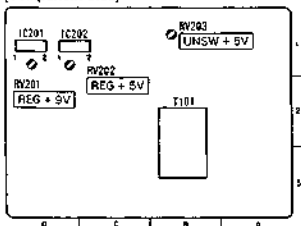
8-4-7. PCM REC Level Adjustment

Note: This adjustment should be performed after completion of 9-4. NR DECODED LEVEL ADJUSTMENT.

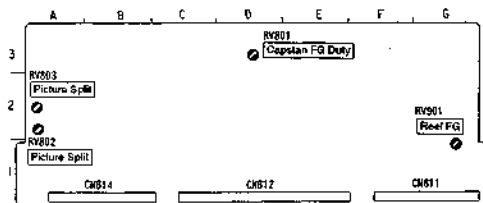
Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> AUDIO LINE IN: 400 Hz/-10 dB Preform the self-recording/play back with a Hi8 ME tape. 	L-CH: CN001-20/PA-27 (A-3) -13.5 ± 0.1 dB	L-CH Ⓒ RV002/PA-27 (B-3)
	R-CH: CN001-1/PA-27 (A-1) -13.5 ± 0.1 dB	R-CH Ⓒ RV052/PA-27 (B-1)

8-5. ADJUSTMENT RELATED PARTS ARRANGEMENT DIAGRAMS

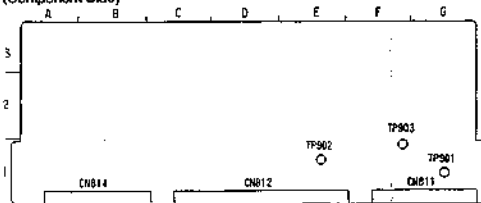
**RV's on the Power Supply Block Location
(Component Side)**



**RV's on the MD-23 Board Location
(Component Side)**



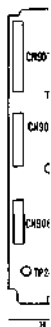
**TP's on the MD-23 Board Location
(Component Side)**



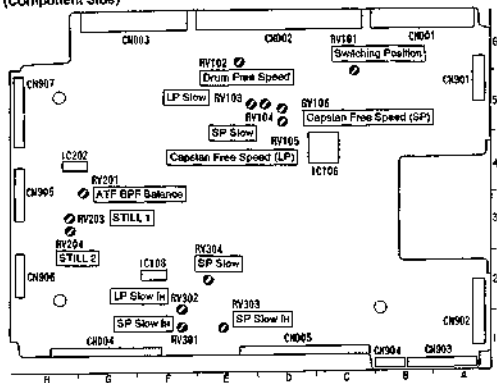
**TP's on
(Comp)**



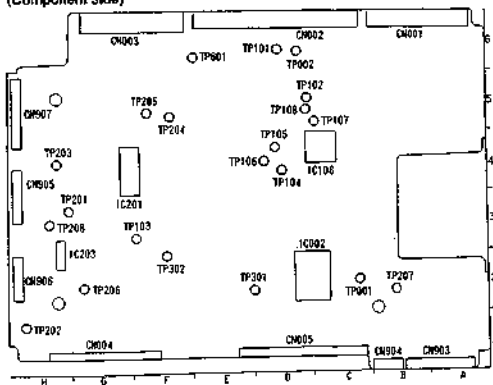
**RV's on
(Cont)**



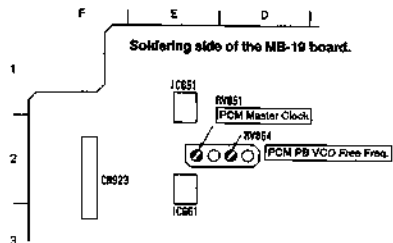
**TP's on the SE-10 Board Location
(Component Side)**



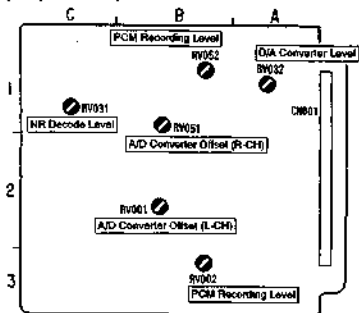
**RV's on the SE-10 Board Location
(Component Side)**



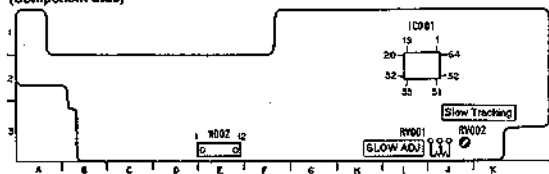
RV's on the PD-19 Board Location



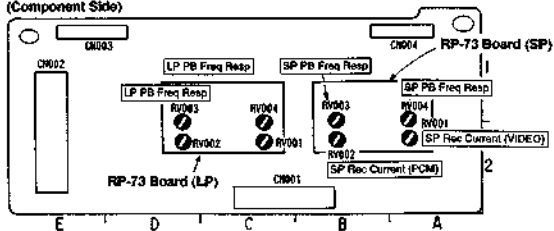
RV's on the PA-27 Board Location
(Component Side)



RV's on the FB-169 Board Location
(Component Side)



RV's on the FR-40 Board Location
(Component Side)



TP's on the FR-40 Board Location
(Component Side)

