

SPECIFICATIONS

Recording system 4-track 2-channel stereo
 Fast-forward and rewind time Approx. 100 sec. (with C-60 cassette)
 Bias frequency 105 kHz
 Signal-to-noise ratio (NAB, at peak level)

0 dB = 0.775 V

Tape Transport Mechanism Type	TCM-130RH1
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Cassette	Dolby NR switch	OFF	B-TYPE ON	C-TYPE ON
TYPE IV (Sony METALLIC)		58 dB	65 dB	71 dB
TYPE III (Sony FeCr)		59 dB	66 dB	72 dB
TYPE II (Sony UCX)		57 dB	64 dB	70 dB
TYPE I (Sony BHF)		54 dB	61 dB	67 dB

— Continued on Page 2 —

Total harmonic distortion 1.0% (with Sony METALLIC and FeCr cassettes)

Frequency response DOLBY NR OFF

- With TYPE IV cassette (Sony METALLIC)
 - 20 - 17,000 Hz
 - 30 - 15,000 Hz (+3 dB)
 - 30 - 13,000 Hz (±3 dB, 0 VU recording)
 - 30 - 15,000 Hz (DIN)
- With TYPE III cassette (Sony FeCr)
 - 20 - 16,000 Hz
 - 30 - 15,000 Hz (±3 dB)
 - 30 - 15,000 Hz (DIN)
- With TYPE II cassette (Sony UCX)
 - 20 - 16,000 Hz
 - 30 - 15,000 Hz (±3 dB)
 - 30 - 15,000 Hz (DIN)
- With TYPE I cassette (Sony BHF)
 - 20 - 15,000 Hz
 - 30 - 14,000 Hz (DIN)



Wow and flutter	0.065% WRMS (NAB) ±0.2% (DIN)
Inputs	Line inputs (phono jacks) Sensitivity 77.5 mV (-20 dB) Input impedance 50 k ohms
Outputs	Line outputs (phono jacks) Output level 0.435 V (-5 dB) at load impedance 50 k ohms Load impedance over 10 k ohms

General

Power requirements	AEP model: 220 V ac, 50/60 Hz (240 V ac adjustable by authorized Sony personnel) UK model: 240 V ac, 50/60 Hz (220 V ac adjustable by authorized Sony personnel) US, Canadian model: 120V ac, 60 Hz E model: 110, 120, 220 or 240 V ac adjustable, 50/60 Hz
AC outlet	US, Canadian, AEP model: 1 unswitched, 100 watts max. UK model: 1 switched, 100 watts max.
Power consumption	AEP, UK model: 22 watts US, Canadian model: 20 watts E model: 21 watts
Dimensions	Approx. 355 × 80 × 280 mm (w/h/d) (14 × 3 1/4 × 11 1/4 inches) including projecting parts and controls
Weight	Approx. 5 kg (11 lbs 1 oz)

SAFETY CHECK-OUT (US Model)

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

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 microamperes). 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 2V AC range are suitable. (See Fig. A)

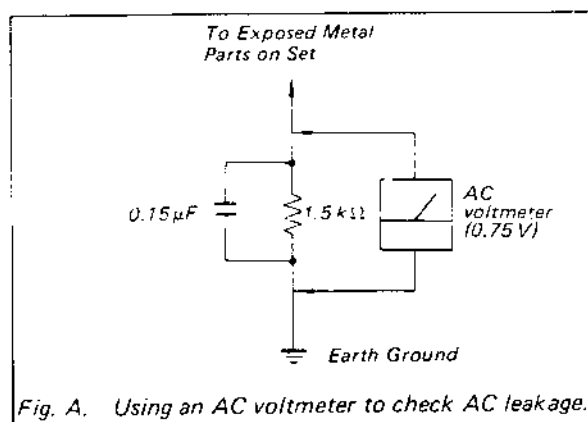


Fig. A. Using an AC voltmeter to check AC leakage.

US Model
 Canadian Model
 AEP Model
 E Model
 UK Model

SUPPLEMENT

File this supplement with the service manual.

Subject: SYSTEM CONTROL CIRCUIT CHANGE

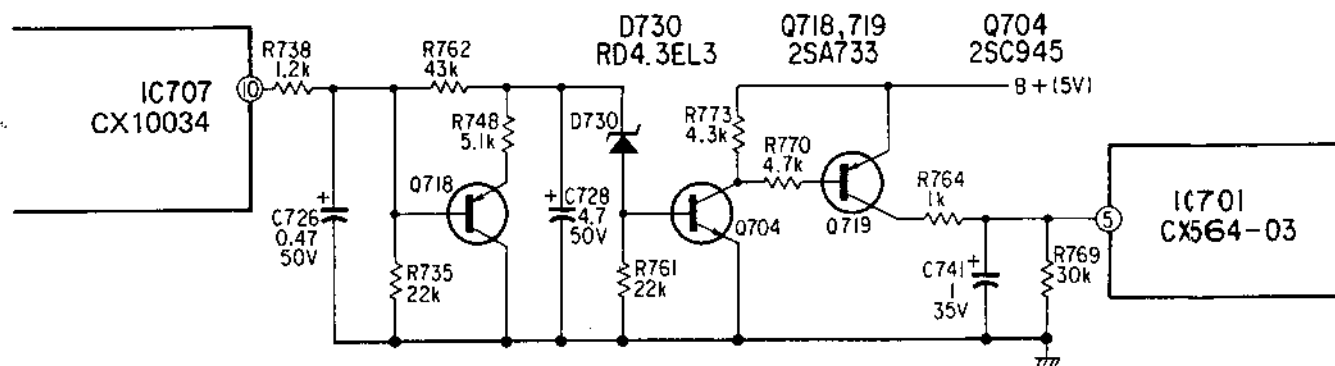
- System control IC (IC701) and circuit have been changed.

When replacing IC701, Use replacement IC with same type No. as original IC.

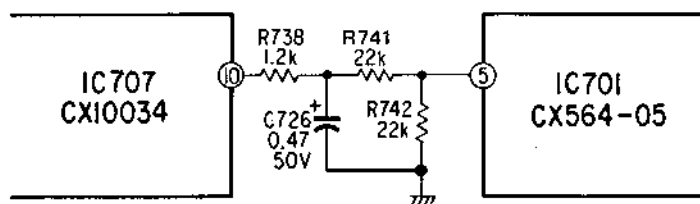
No. 1
 June, 1983

1. CHANGED CIRCUIT

- Former

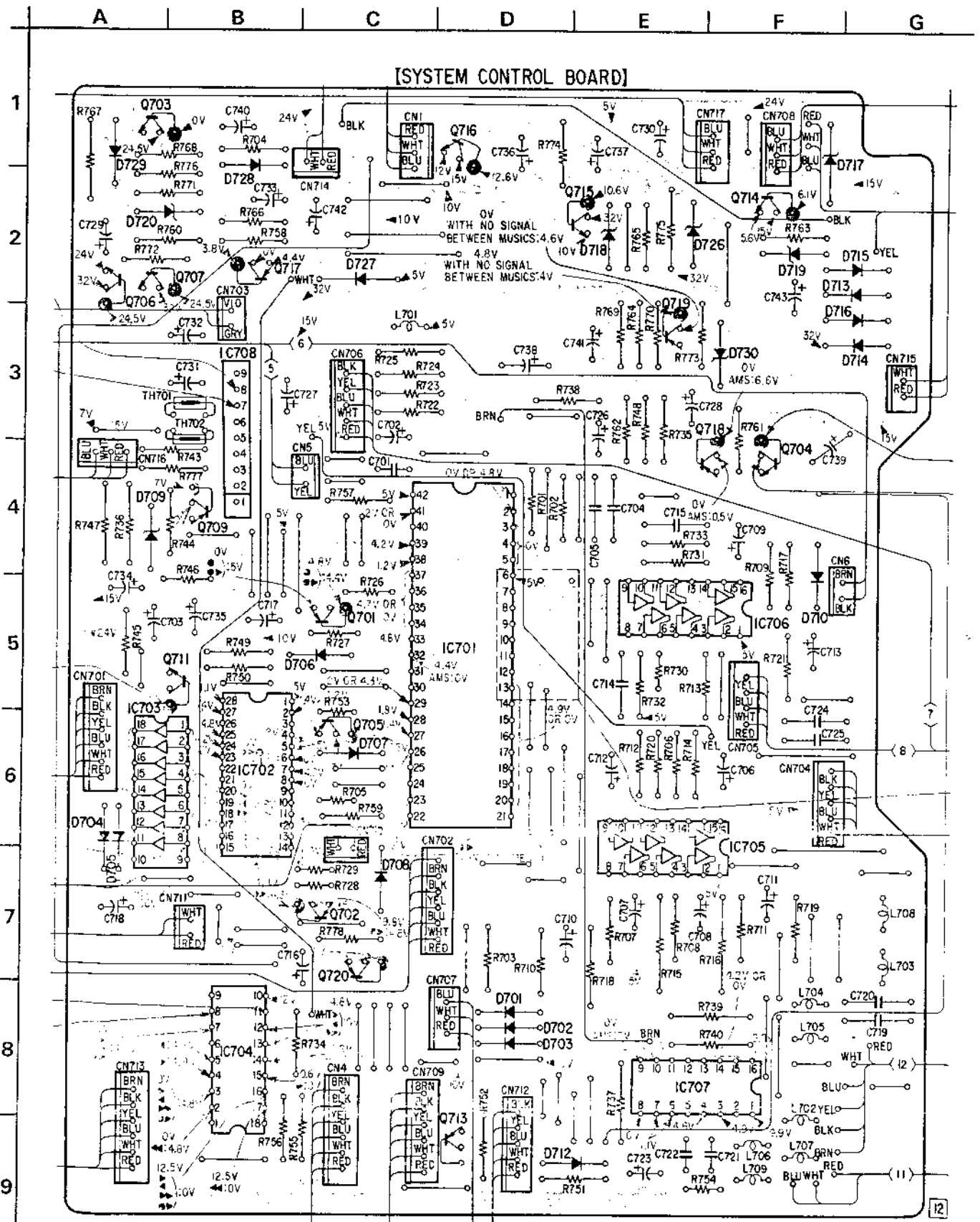


- New

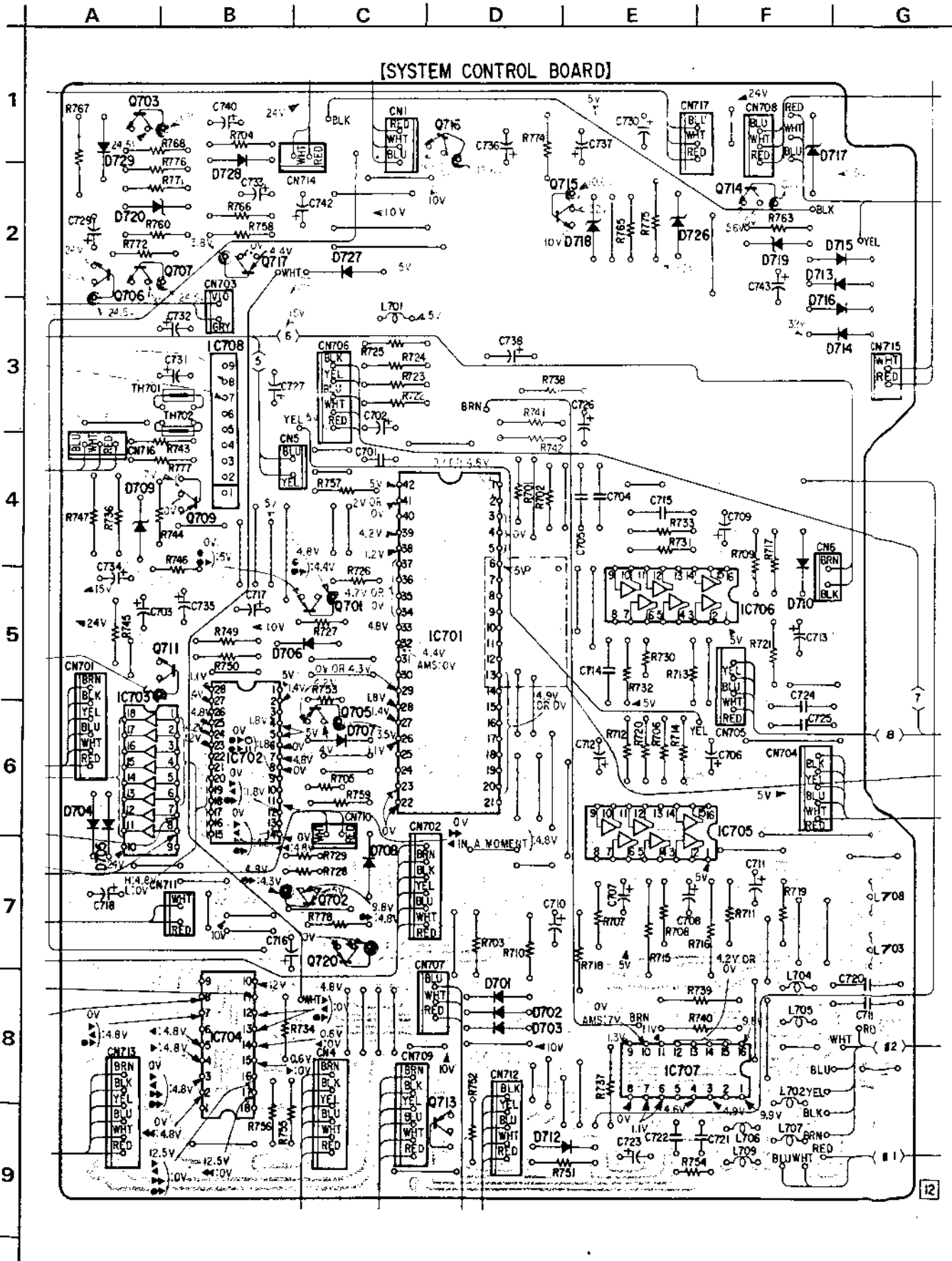


2. CHANGED MOUNTING DIAGRAM

• Former



• New



3. CHANGED PARTS

Ref. No.	Former Parts		New Parts		Remarks
	Description		Part No.	Description	
C728	TANTALUM	4.7MF 16V	.....		DELETED
C741	TANTALUM	1MF 35V	.....		DELETED
D730	DIODE	RD4.3EL3	.....		DELETED
IC701	IC	CX564-03	8-755-640-50	IC CX564-05	CHANGED
R735	CARBON	22K	.....		DELETED
R741	.....		1-246-505-00	CARBON 22K	ADDED
R742	.....		1-246-505-00	CARBON 22K	ADDED
R748	CARBON	5.1K	.....		DELETED
R761	CARBON	22K	.....		DELETED
R762	CARBON	43K	.....		DELETED
R764	CARBON	1K	.....		DELETED
R769	METAL	30K	.....		DELETED
R770	CARBON	4.7K	.....		DELETED
R773	CARBON	1K	.....		DELETED
Q704	TRANSISTOR	2SC1364	.....		DELETED
Q718	TRANSISTOR	2SA1027R	.....		DELETED
Q719	TRANSISTOR	2SA1027R	.....		DELETED

4. CHANGED FUSE (E Model)

	Former		New
F1	△ 1-532-078-00	FUSE, TIME-LAG	→ △ 1-532-453-XX FUSE, GLASS TUBE
F2	△ 1-532-078-00	FUSE, TIME-LAG	→ △ 1-532-453-XX FUSE, GLASS TUBE

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

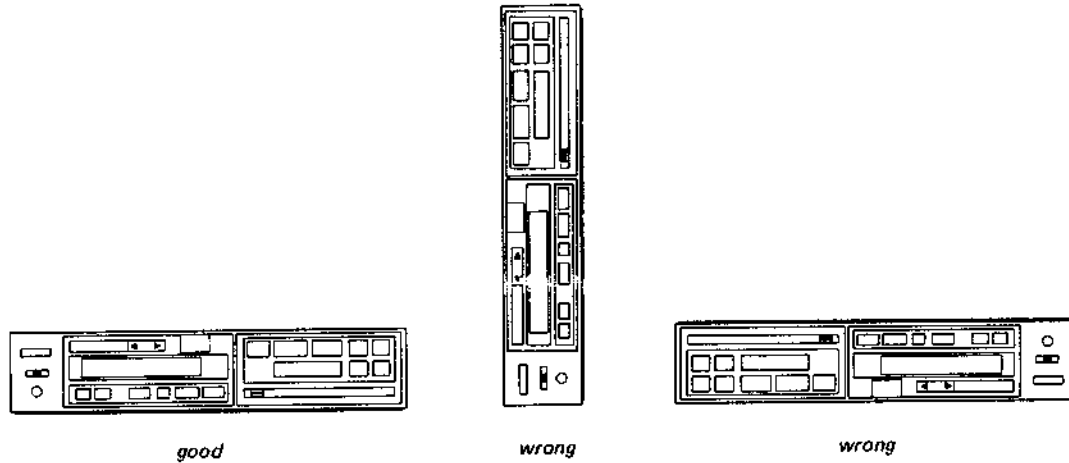
Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Sony Corporation
Consumer Products Group
Technical Support Dept.

SECTION 1
OUTLINE

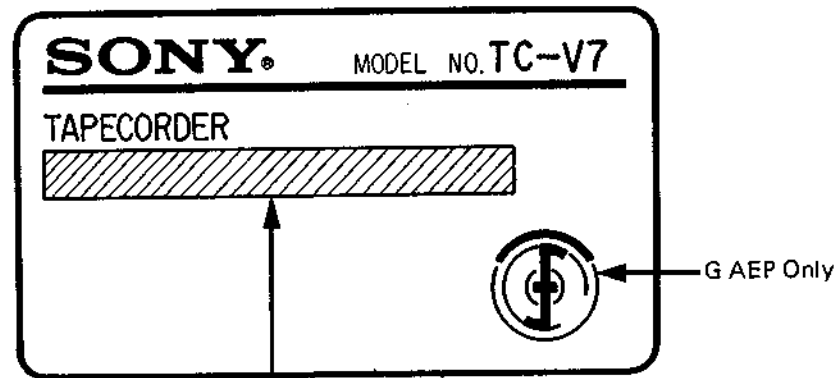
NOTES ON REPAIR

When the mechanism section is operated with the set in an upside-down position, misoperation may result. For repair while operating the mechanism section, perform with the set in its normal position or standing on its side.



MODEL IDENTIFICATION

—Specification label on jack plate—



US, Canadian : AC: 120V 60Hz 20W
 AEP, G AEP : AC: 220V ~ 50/60Hz 22W
 UK : AC: 240V ~ 50/60Hz 22W
 E : AC: 110, 120, 220, 240V ~ 50/60Hz 21W

1-1. FEATURE

Auto-reverse playback with roto-bilateral record/playback head

Continuous playback of both sides of the cassette is possible without turning the cassette over. When the tape reaches its end, the roto-bilateral record/playback head reverses position and the other side will be played back automatically. The side being played back can be changed instantly during playback by simply pressing the forward or reverse play button. The ▶ or ◀ indicator shows the playback direction. The roto-bilateral head assures the same performance characteristics in either tape transport direction.

Newly-developed Laser Amorphous head

The record-playback head is made of a special amorphous magnetic alloy developed by Sony, and its cores are solidly welded by laser. This new highly durable head provides a wider dynamic range and a more extended frequency response, especially in the high-frequency range. The head is designed to take full advantage of the potential of metal tapes.

Ultra slim cabinet

Touch a button and the cassette module slides smoothly out. The use of this cassette module with a linearskating power loading mechanism makes it possible to reduce the height of the cabinet to 70mm.

Blank skip function

Blank spaces of at least 10 seconds long can be skipped in either fast-forward or fast-reverse mode so that only the recorded portions of the tape are played back.

AMS (Automatic Music Sensor)

The AMS locates a selection as far ahead as 9 selections or as far back as 8 selections and plays the selection back automatically.

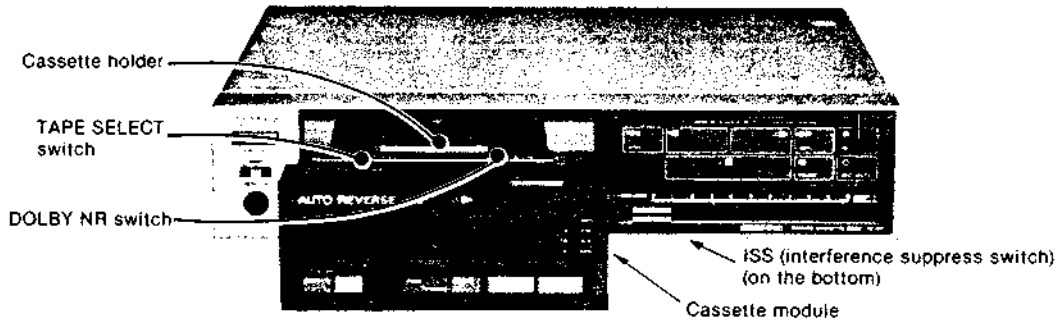
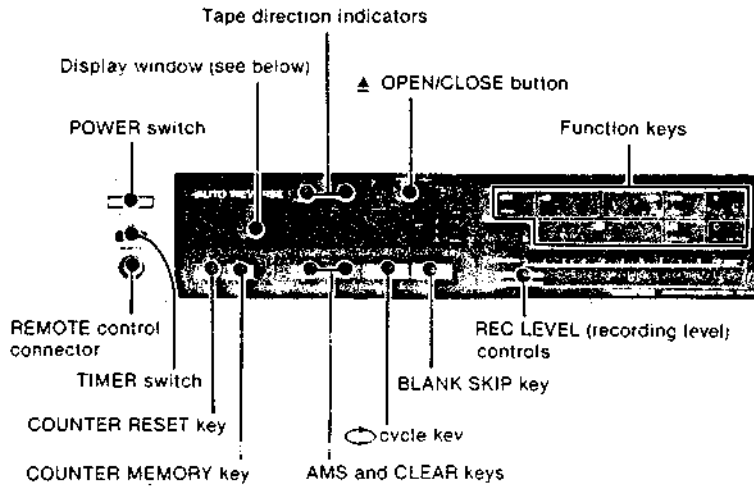
Cycle Play

Using the cycle key, both sides of the cassette can be played back five times in succession.

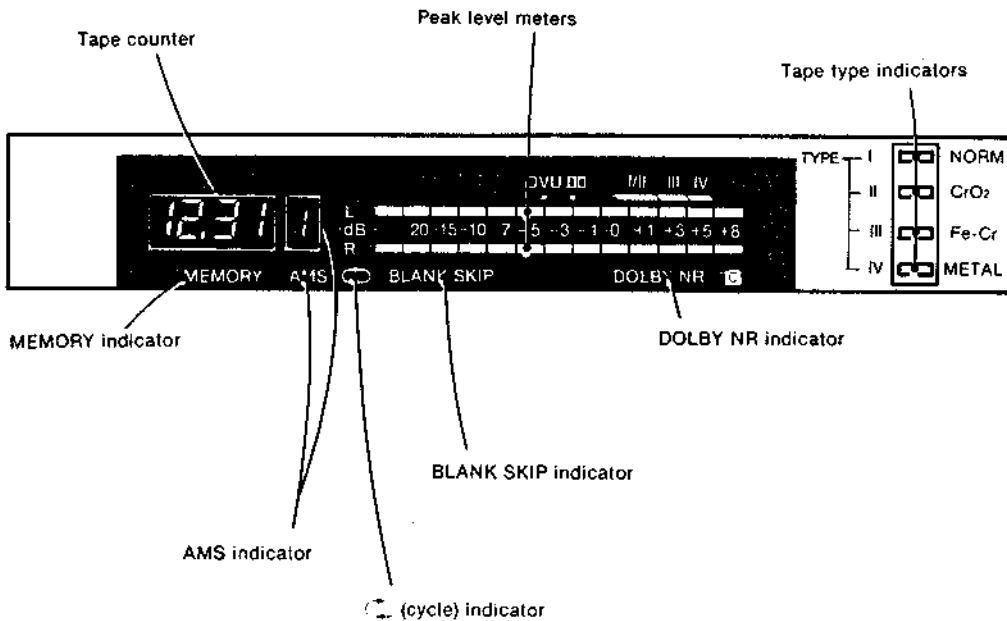
Other useful functions

- The newly-developed C-type Dolby NR system which reduces tape noise twice as effectively as the conventional B-type system is incorporated.
- The digital linear counter indicates the elapsed recording or playback time in minutes and seconds, and indicates the recording time remaining with a minus sign.
- The peak level meters, digital linear counter, and other indicators in use are all displayed in the bright FL-display window.
- The automatic tape select system adjusts are cassette deck to the optimum recording and playback characteristics for each tape type.
- A timer switch is provided to turn the deck on and off at times preset on an optional timer.
- Various remote control operations are possible using the optional RM-70 remote control unit, the RM-65 synchro remote control unit (for synchronized operation with the turntable) or the ST-V7 system control tuner (for remote control of the audio system).

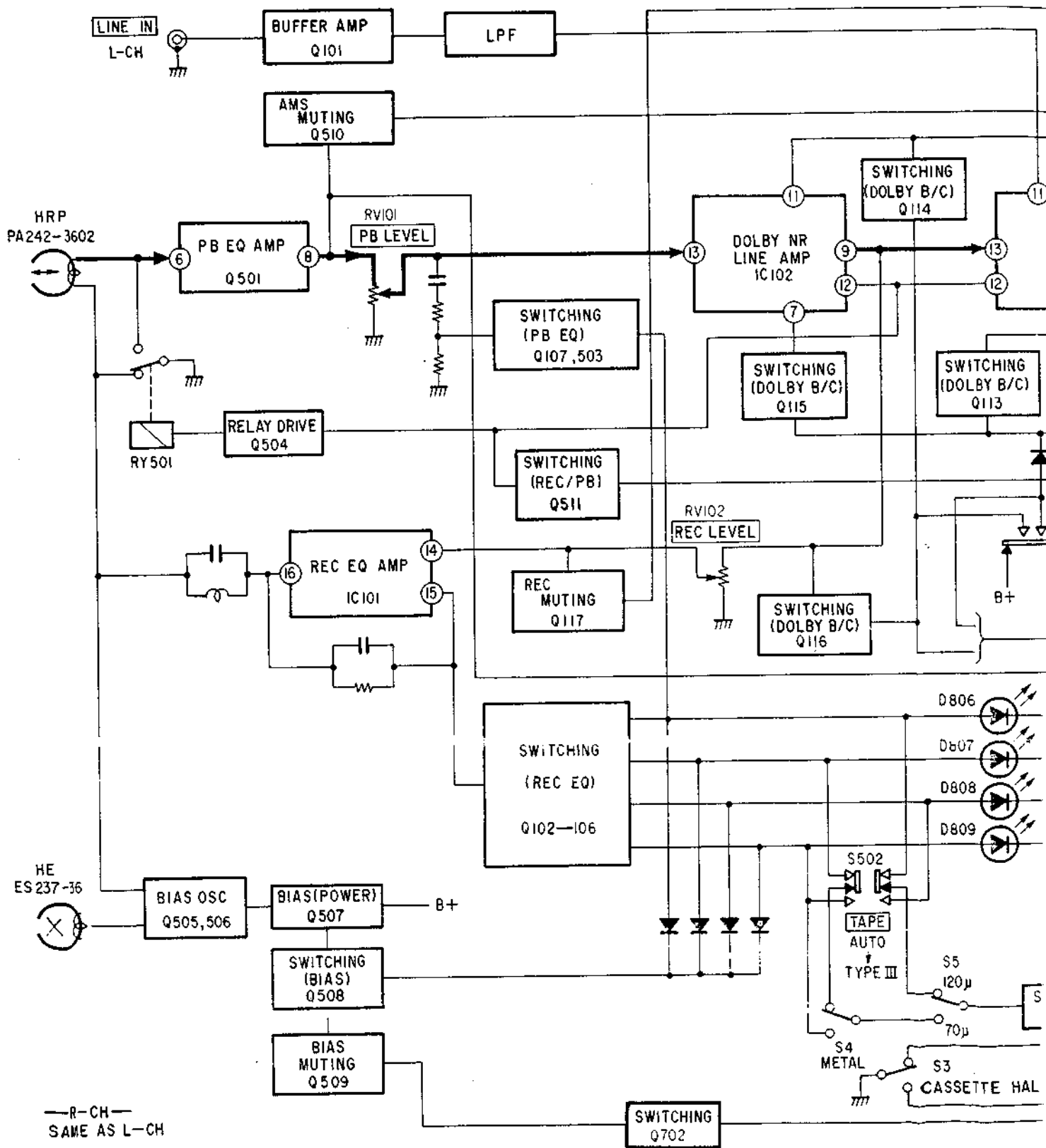
1-2. FUNCTION OF CONTROL

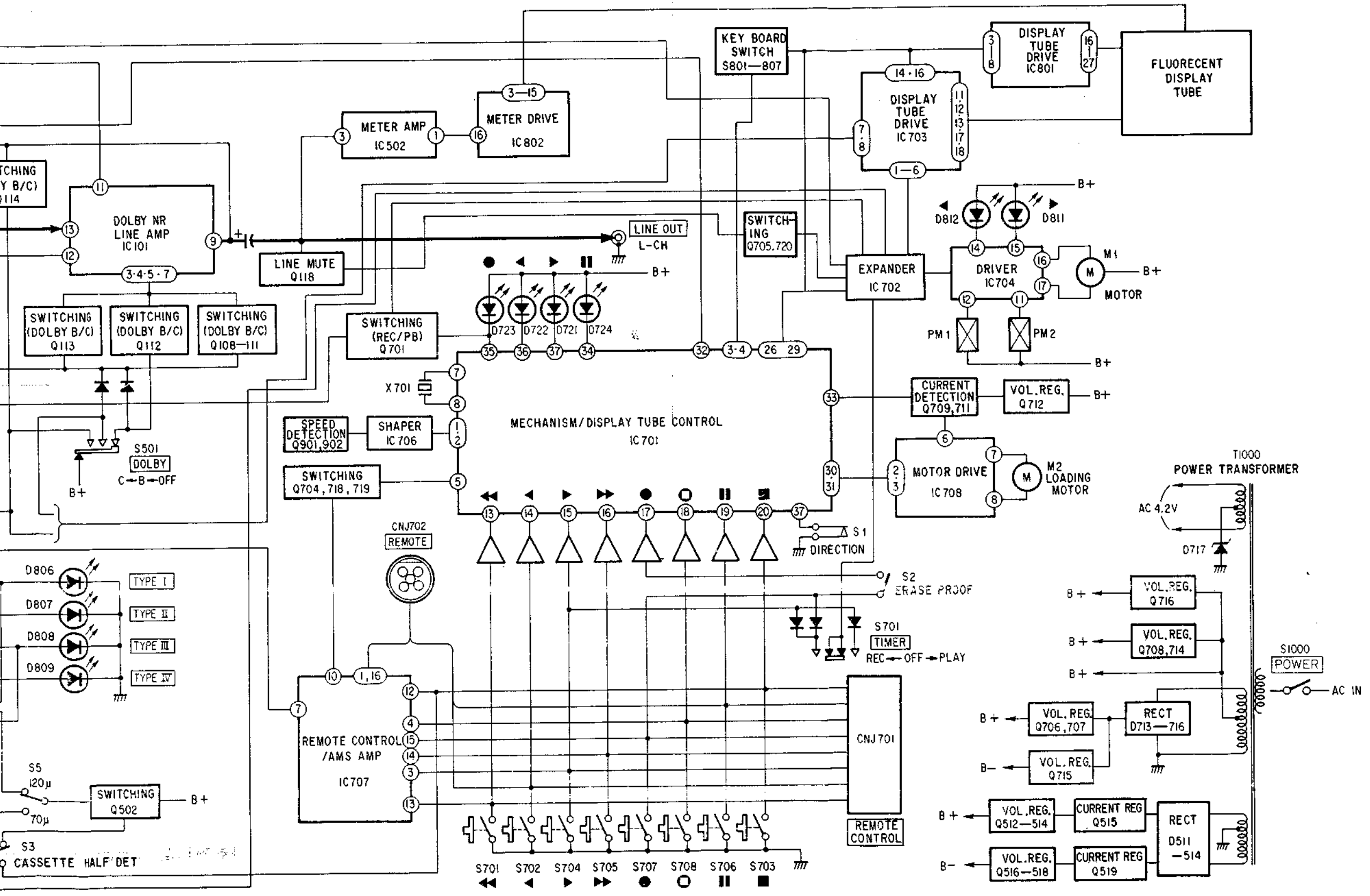


Display window



1-3. BLOCK DIAGRAMS





SECTION 2

OPERATION DESCRIPTION

2-1. MECHANICAL SECTION OPEN/CLOSE OPERATION

The mechanical section on this set can be opened and closed simply by pushing the OPEN/CLOSE button, due to the linear skating structure.

IC708 is for driving the loading motor (M2) which moves the mechanism. Pins ② and ③ are input pins and ⑦ and ⑧ are output pins. Pin ⑥ is the power supply pin and ⑤ is the ground.

The forward and reverse rotation of the motor is performed by the 1 and 0 combination of input pins ② and ③. Microcomputer IC701 inputs to pins ② and ③. The truth table for IC708 is as follows:

IC708 pin no.	Input		Output	
	②	③	⑦	⑧
during OPEN	H	L	H	L
during CLOSE	L	H	L	H
Stop	H	H	L	L

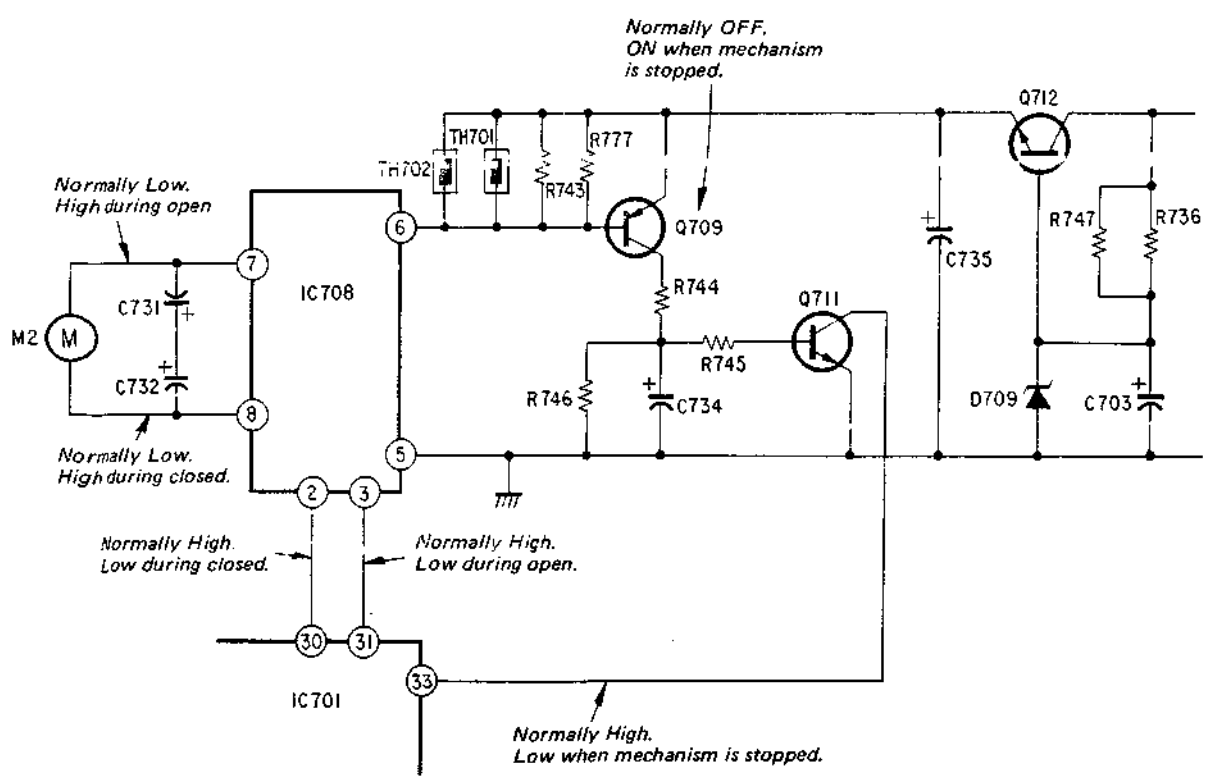
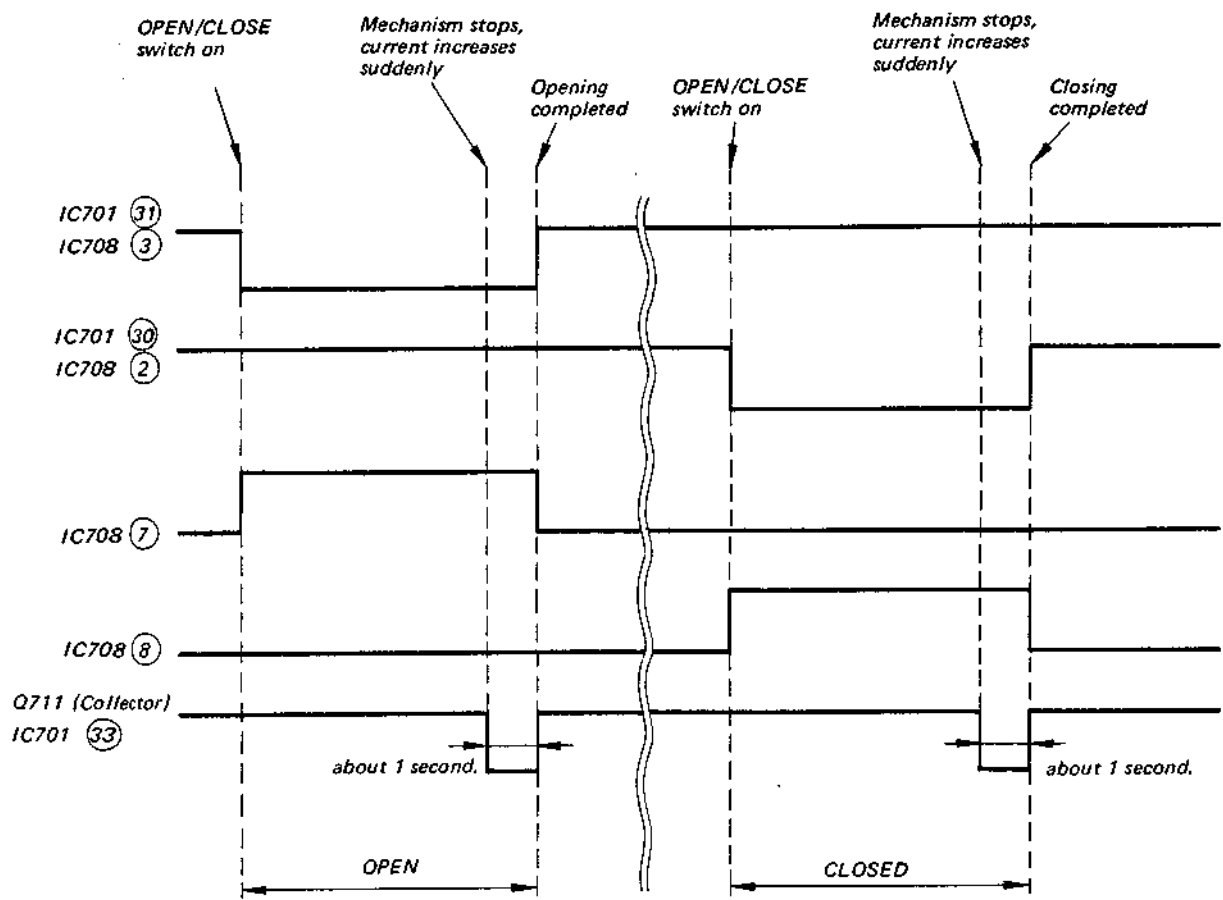
(1) CLOSE → OPEN

When the OPEN/CLOSE button is pressed while the mechanism is closed, IC701 pin ③① goes from high to low, IC708 pin ⑦ goes high, pin ⑧ goes low, the motor rotates and the mechanism opens. Even when the mechanism opens completely and stops, IC708 pin ⑦ and ⑧ remain high and low, and voltage continues to be applied to the motor, so the current flowing to IC708 pin ⑥ increases suddenly. When the current increases, Q709 base potential drops and Q709 turns on. When Q709 goes on, Q711 turns on. This causes IC701 pin ③③ to drop to 0V, and "Mechanism open" is input to IC701. When IC701 pin ③③ becomes 0V, IC701 pin ③① goes from low to high and IC708 pins ⑦ and ⑧ go low. Voltage ceases to be applied to the motor and opening is completed.

(2) OPEN → CLOSE

When the OPEN/CLOSE button is pressed while the mechanism is open, IC701 pin ③① goes from high to low, IC708 pin ⑦ goes low and pin ⑧ goes high, the motor rotates in reverse and the mechanism closes. Even when the mechanism closes completely and stops, IC708 pins ⑦ and ⑧ remain low and high, and voltage continues to be applied to the motor, so the current flowing to IC708 pin ⑥ increases suddenly. When the current increases, Q709 base potential drops and Q709 turns on. When Q709 turns on, Q711 base potential drops and it goes on. This causes IC701 pin ③③ to drop to 0V, and "mechanism closed" is input to IC701. When IC701 pin ③③ becomes 0V, IC701 pin ③① goes from low to high and IC708 pins ⑦ and ⑧ go low. Voltage ceases to be applied to the motor and closing is completed. (When power is turned on and IC701 is reset, IC701 regards the mechanism as closed.)

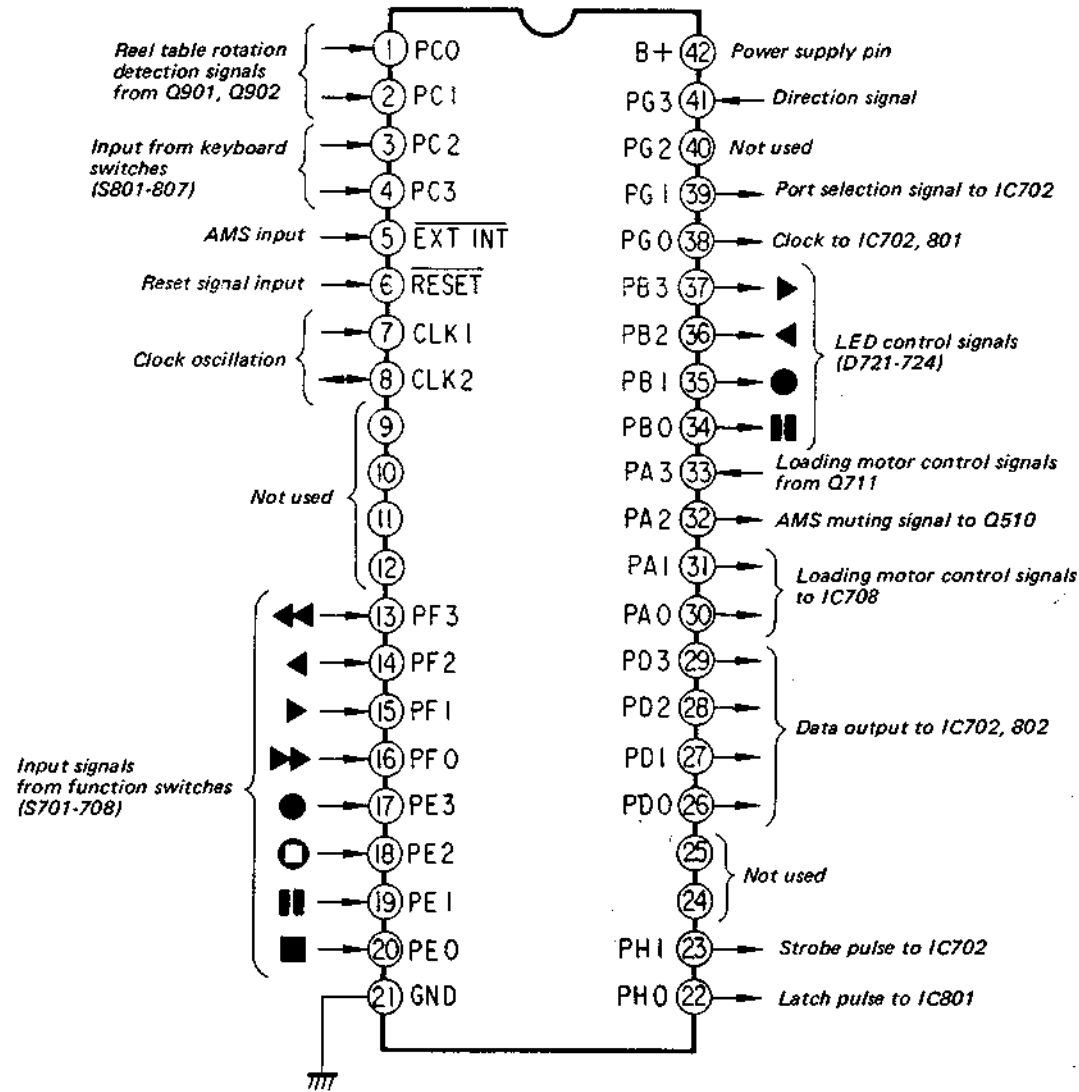
2.2. OPEN/CLOSED OPERATION TIMING CHART



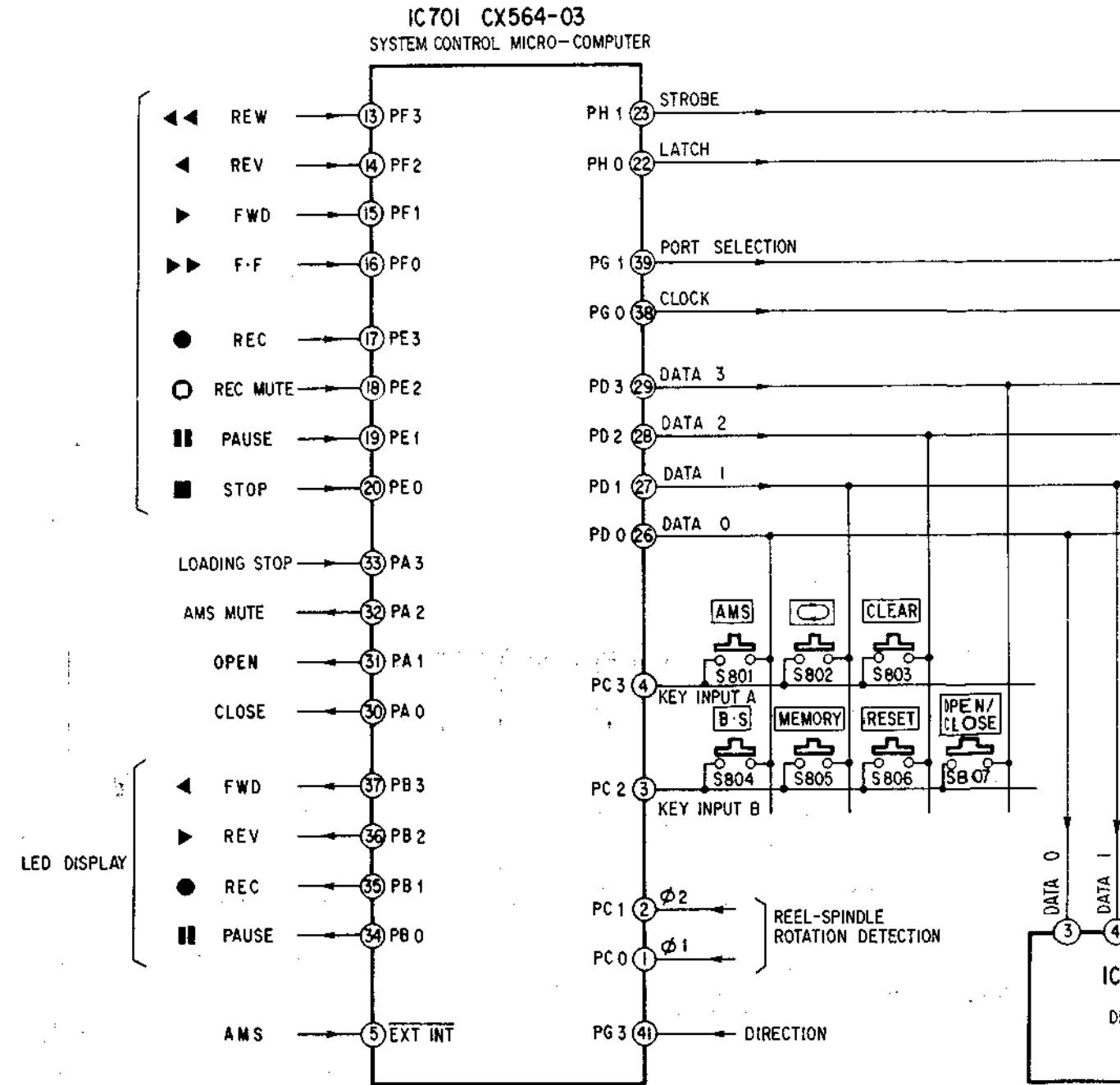
2-3. SYSTEM CONTROL MICROCOMPUTER (IC701)

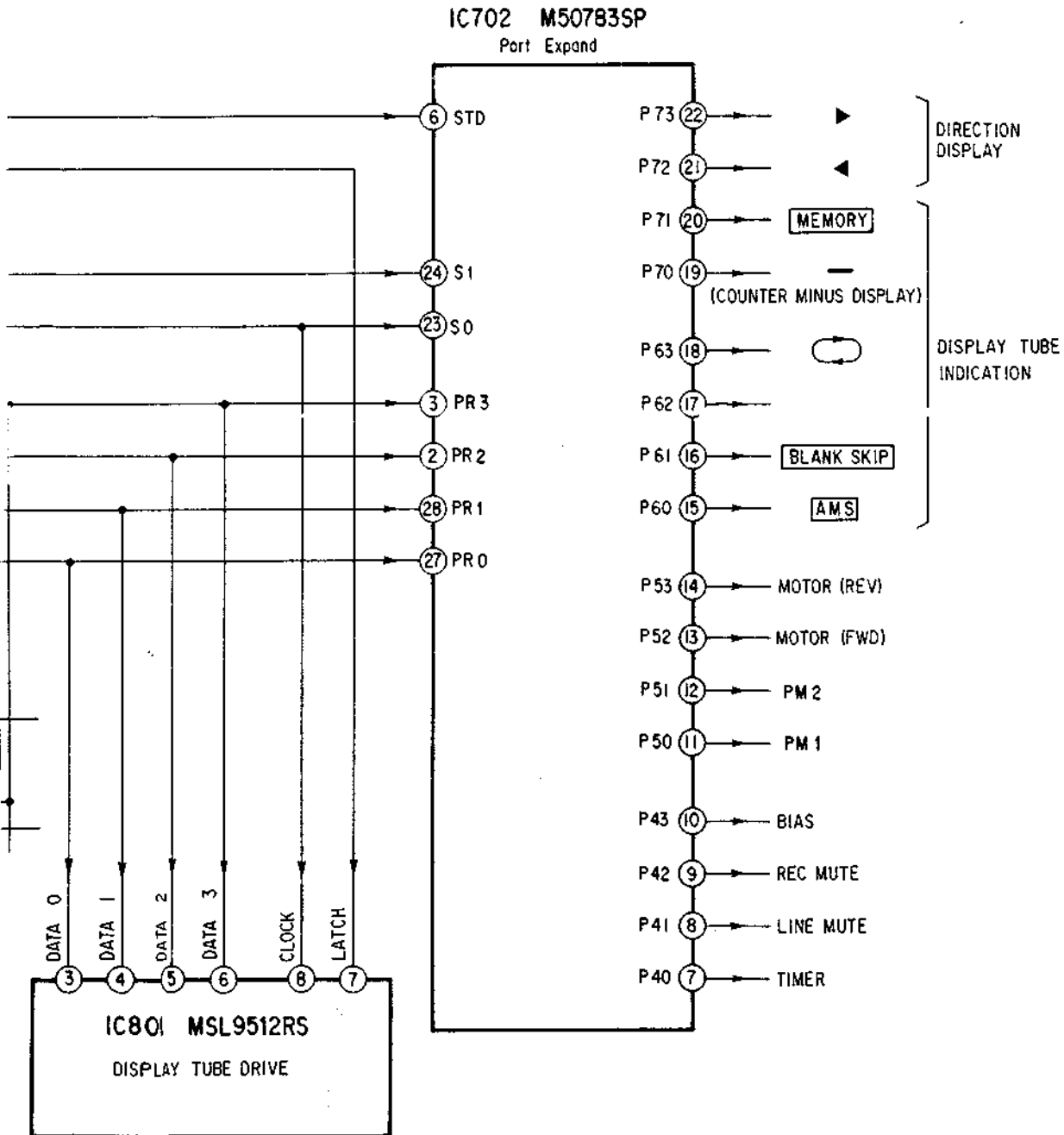
Conditions for IC701 beginning to operate:

- (1) 5V supplied to power supply pin (42).
- (2) Reset pin (6) goes to 5V from 0V.
- (3) Clock pins (7) and (8) are oscillating at 4MHz or 3.99MHz.



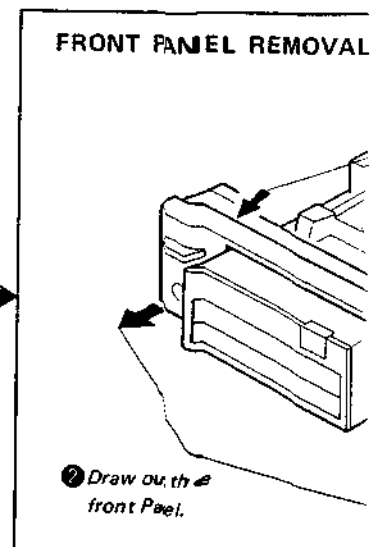
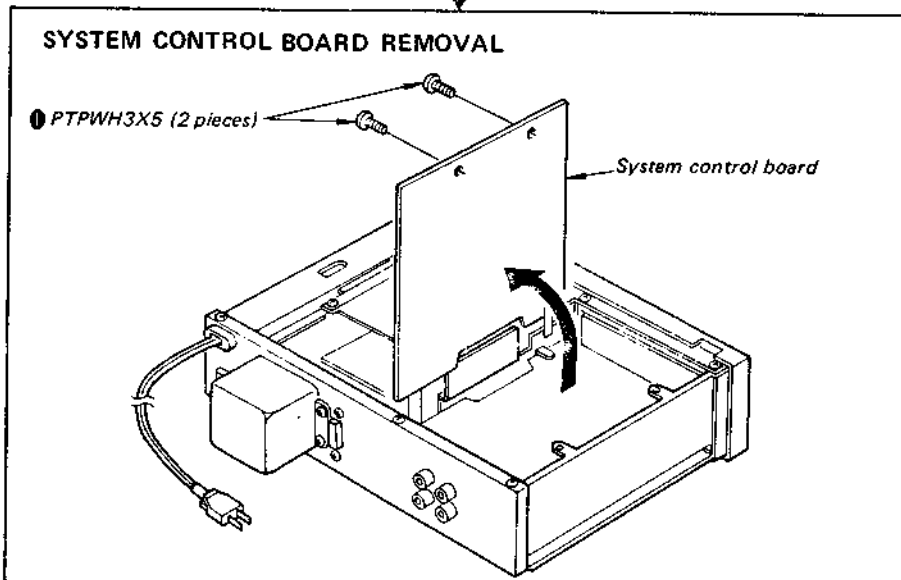
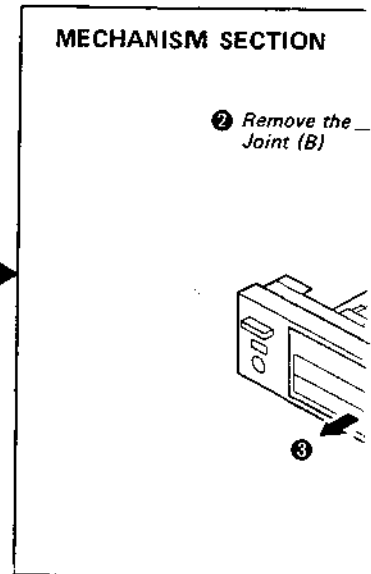
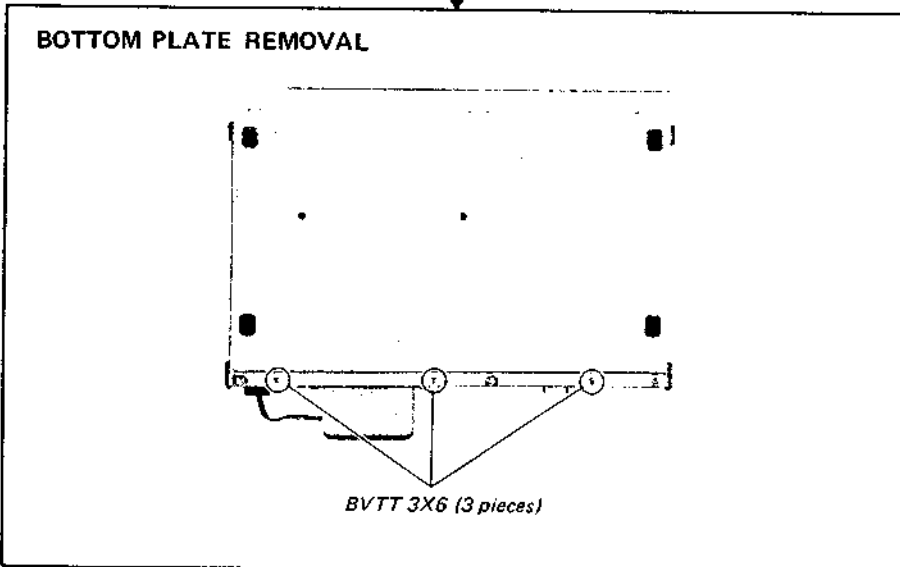
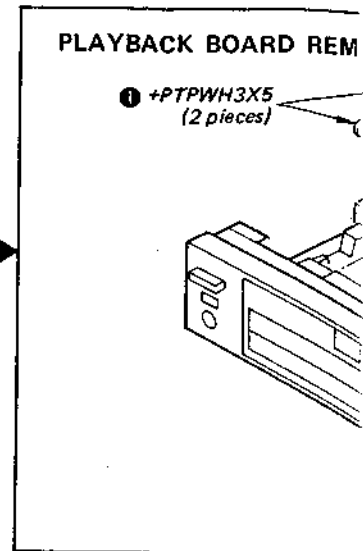
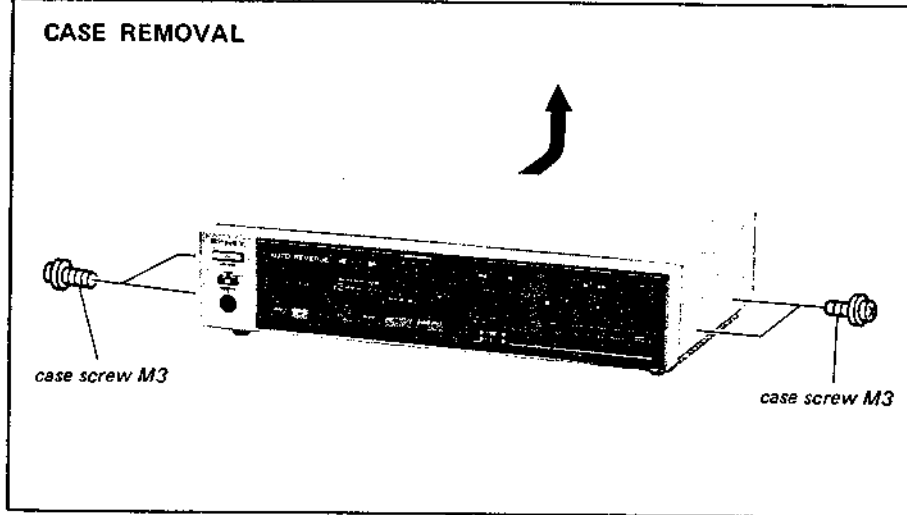
2-4. PORT MAP

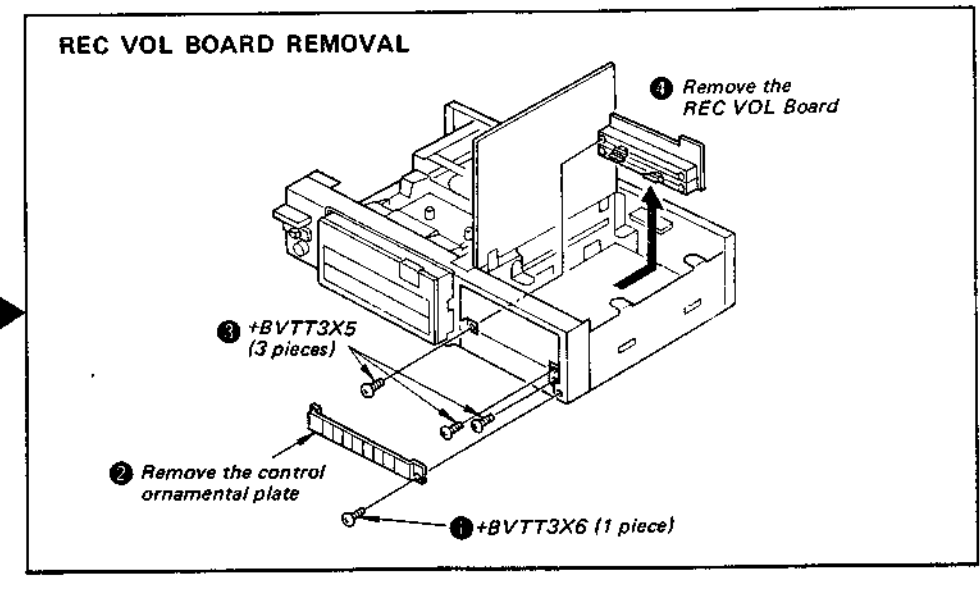
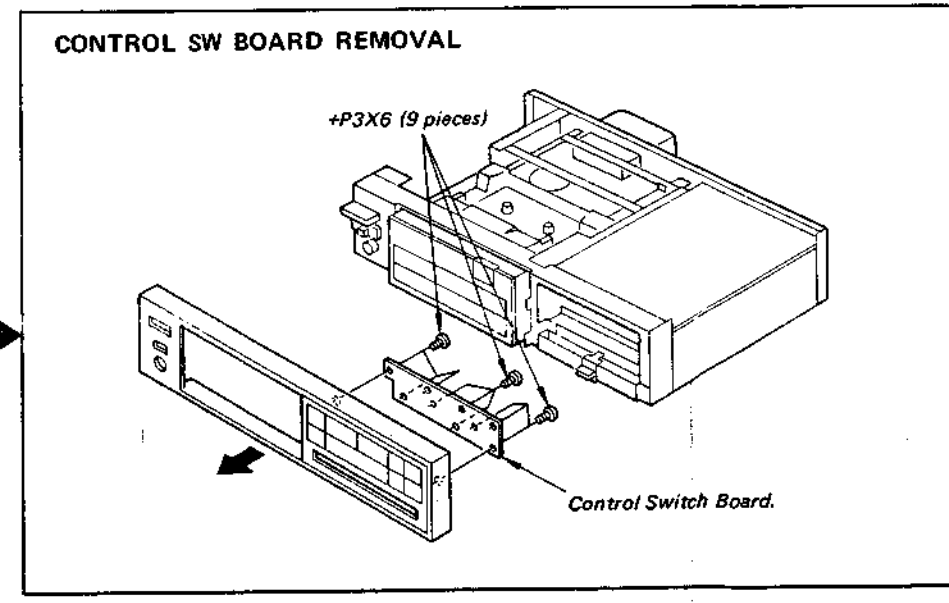
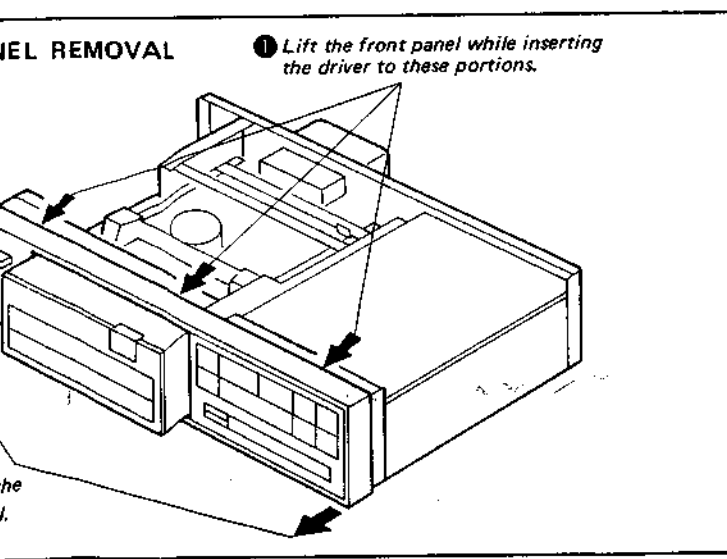
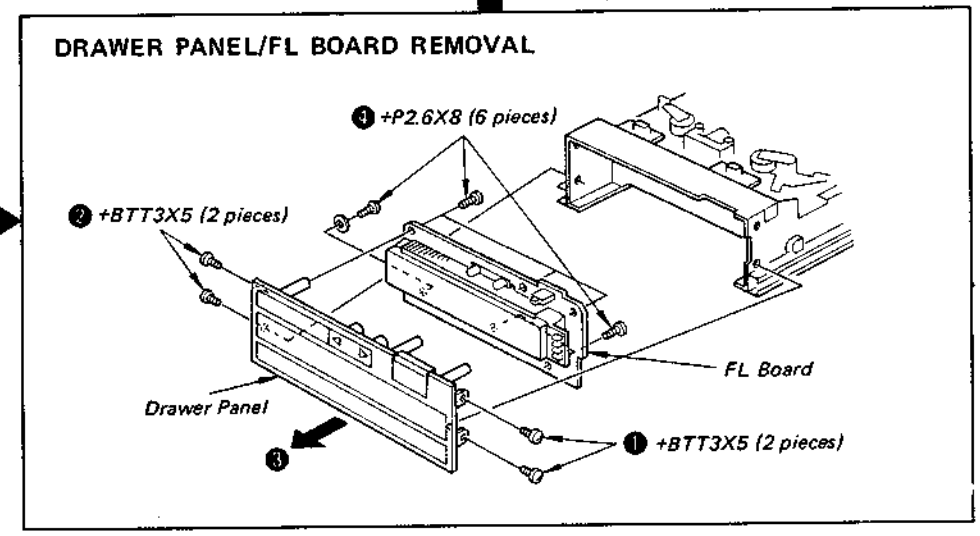
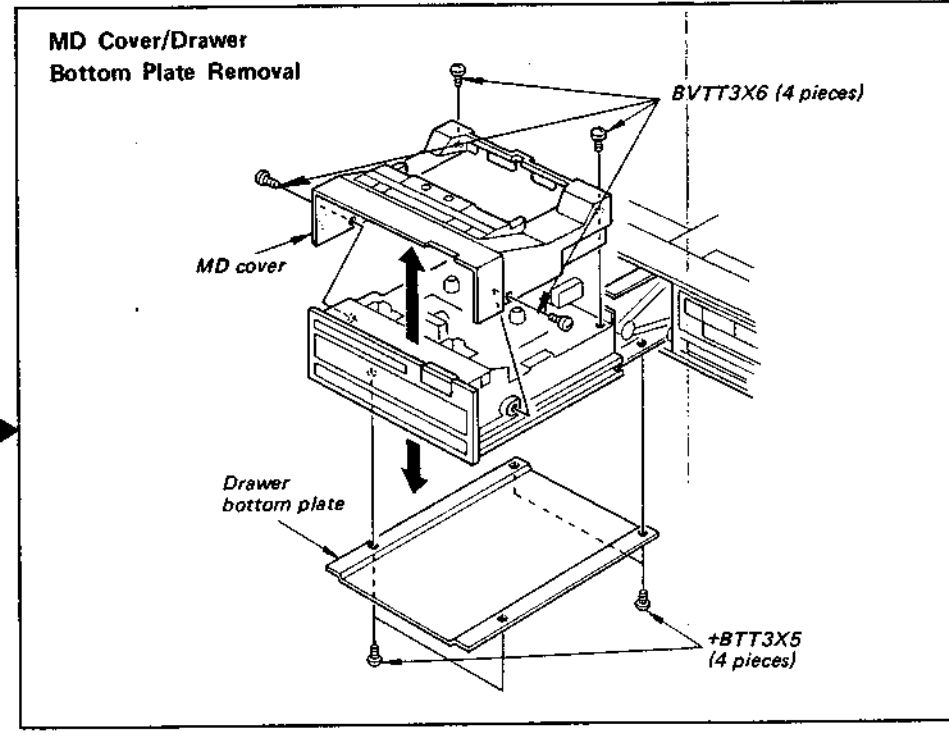
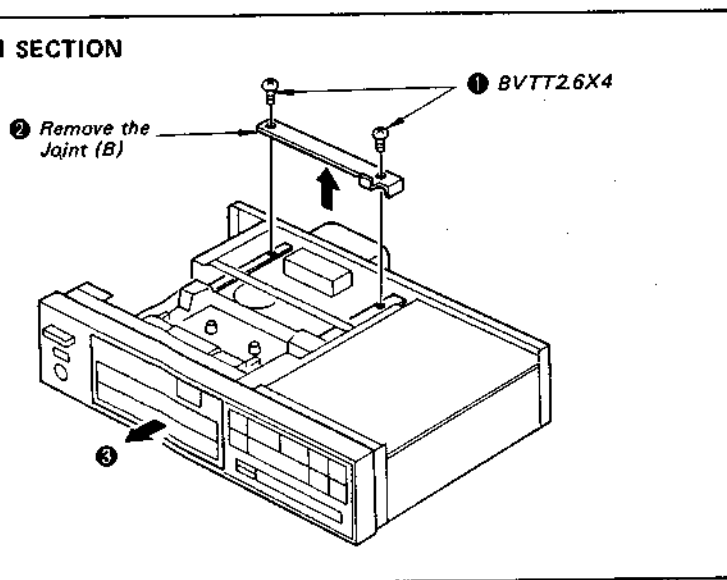
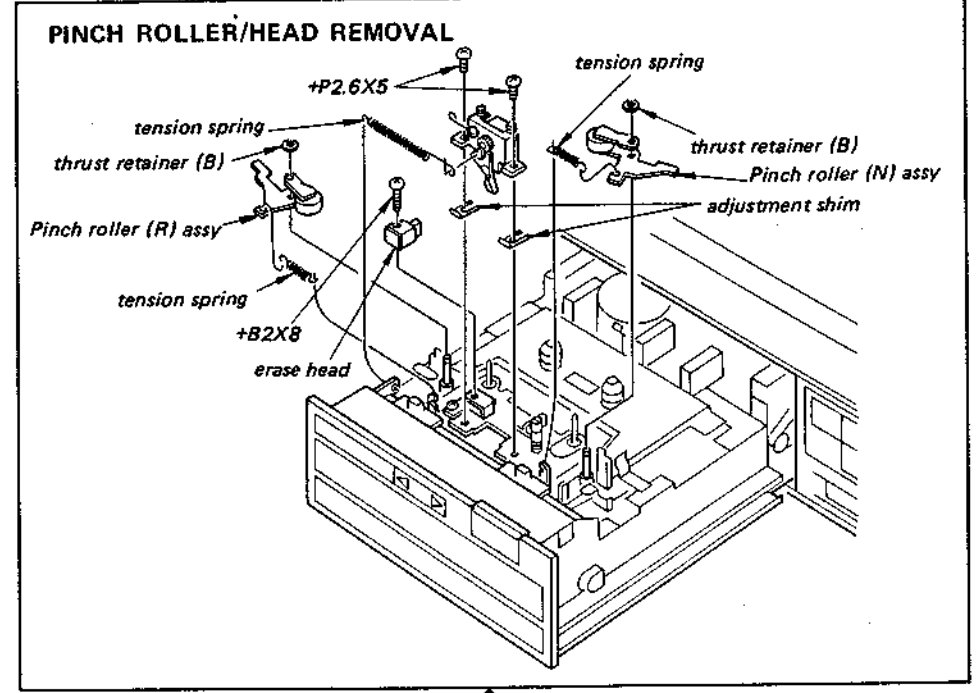
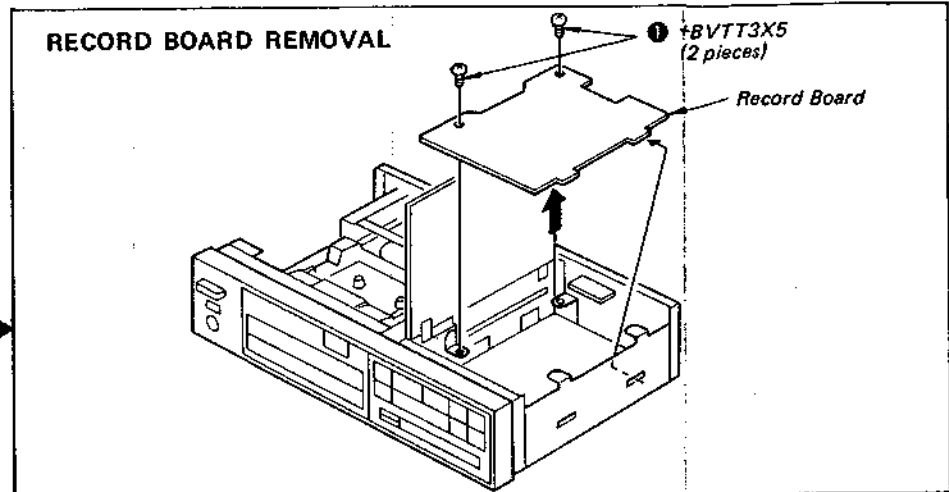
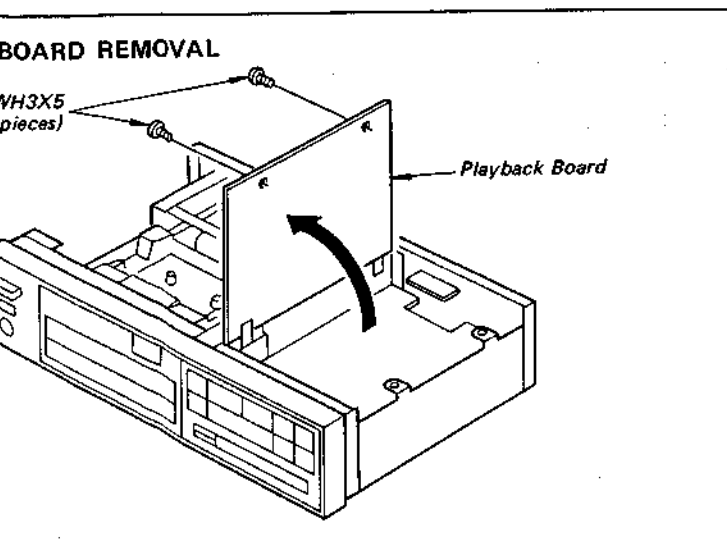




SECTION 3 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.





SECTION 4 ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENTS

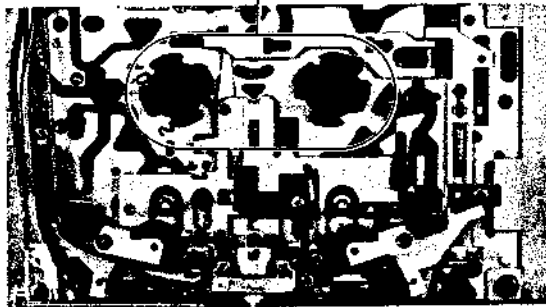
PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

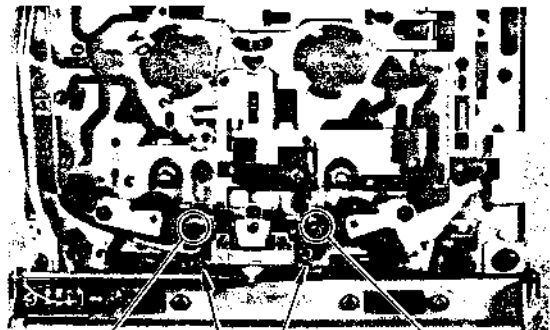
Mode	Torque Meter	Torque
Forward	CQ-102C	28-60 g·cm 0.39-0.82 oz·inch
FWD back tension	CQ-102C	2-7 g·cm 0.03-0.1 oz·inch
Reverse	CQ-102RB	28-60 g·cm 0.39-0.82 oz·inch
REV back tension	CQ-102RB	2-7 g·cm 0.03-0.1 oz·inch



TAPE PATH ADJUSTMENT

When assembling the erase head and head holder, and when replacing the tape guide (L), be sure to perform the following adjustments.

1. Using a mirror tape cassette, adjust each of the adjustment screws until there is no tape curling.
2. Perform adjustments by changing the height adjustment shim of the head holder assembly and the height adjustment shim of the record/playback head, so that the core of the record/playback head is positioned correctly for both FWD and REV.

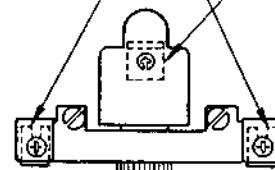


Erase head tape pass adjustment screw

Tape guide tape pass adjustment screw.

Head holder height adjustment shim

Height adjustment shim of REC/PB head.



Enlarged view of head holder assembly

3. After the adjustment, lock the screws with locking compound.

The height adjustment shim of the head holder assembly.

Thick (mm)	Parts No.
0.05	3-307-477-41
0.1	3-307-477-01
0.2	3-307-477-11
0.3	3-307-477-21
0.4	3-307-477-31

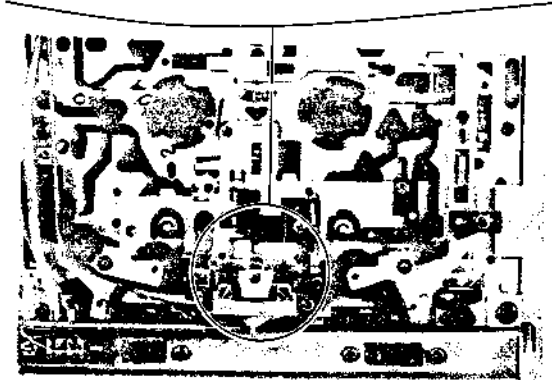
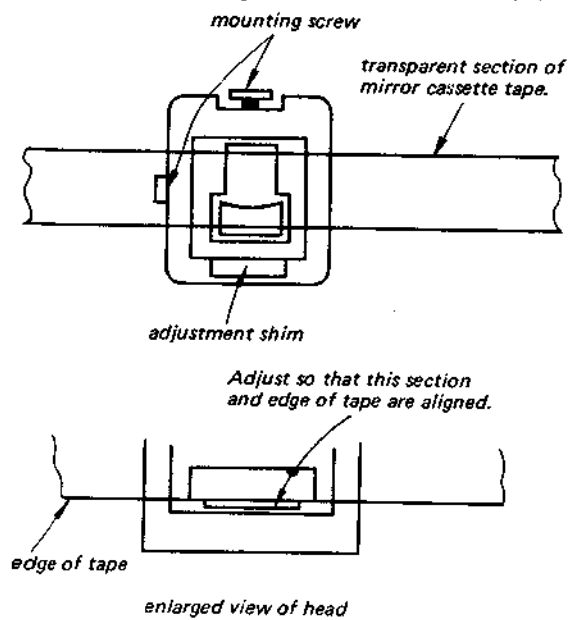
The height adjustment shim of the REC/PB head.

Thick (mm)	Parts No.
0.05	3-307-480-02
0.1	3-307-479-01
0.2	3-307-479-11
0.3	3-307-479-21
0.4	3-307-479-31

RECORD/PLAYBACK HEAD HEIGHT ADJUSTMENT

The following adjustments should be made when the record/playback head is replaced.

1. The head should be made after removing the head pad of the mirror tape cassette.
2. Using the leader section of the mirror cassette tape, adjustments are made by changing the adjusting shim so that the core and the edge of the tape become as shown in the illustration below when the tape is moved across the head.



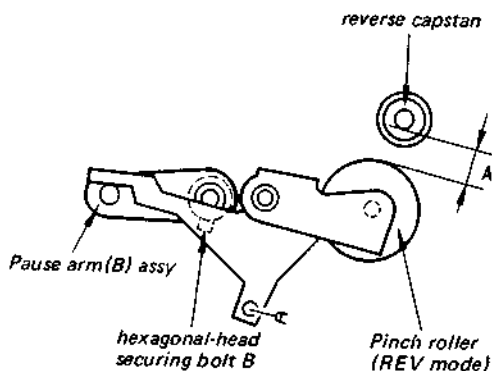
The height adjustment shim of the REC/PB head

Thick (mm)	Parts No.
0.05	3-307-480-02
0.1	3-307-479-01
0.2	3-307-479-11
0.3	3-307-479-21
0.4	3-307-479-31

PAUSE ARM POSITION ADJUSTMENT



Loosen the hexagonal-head securing bolt B and adjust the position of the pause arm B so that the distance of A becomes 0.5 mm ~ 1.0 mm.



4-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

- Set the TAPE switches according to the tape as follows.

Tape	TAPE switch
CS-10	TYPE I
CS-20	TYPE II
CS-30	TYPE III
CS-40	TYPE IV

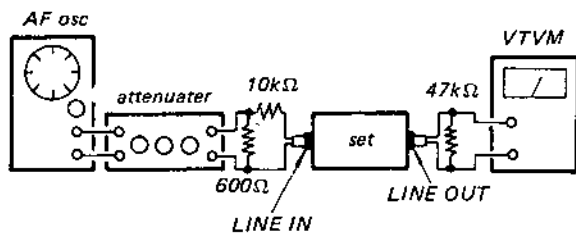
- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch:	OFF
TAPE switch:	TYPE I
TIMER switch:	OFF

- Standard Record :

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

—Record Mode—



Standard Input Level

	LINE IN
source impedance	10 kΩ
input level	0.25 V (-10 dB)

Standard Output Level

	LINE OUT
load impedance	47 kΩ
output level	0.44 V (-5 dB)

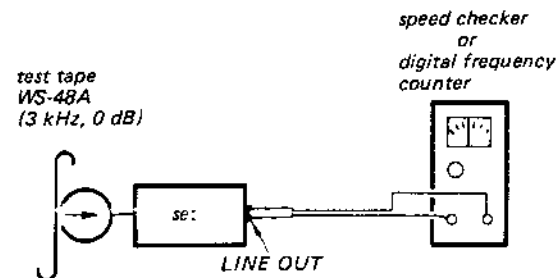
Tape Speed Adjustment

Setting:

Tape Selector Switch AUTO
Dorby NR switch OFF

Procedure:

Mode: PLAYBACK



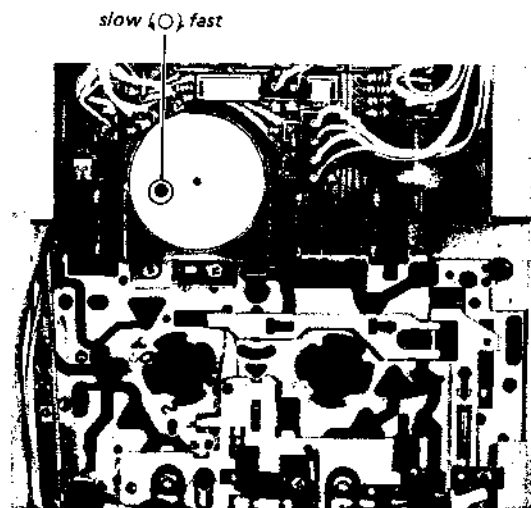
Using test tape WS-48A adjust the variable resistor that built in motor so that the specification is met. Adjust for both forward (▶) direction and reverse (◀) direction.

Specification:

Speed checker	Digital frequency counter
±1%	2,970–3,030 Hz

Frequency difference between the beginning and the end of the tape should be within 1% (30 Hz).

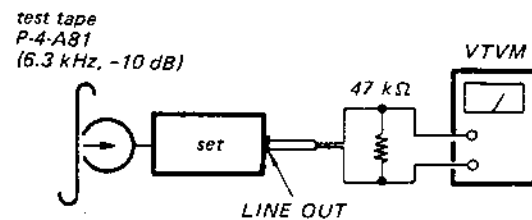
Adjustment Location:



Record/playback Head Azimuth Adjustment

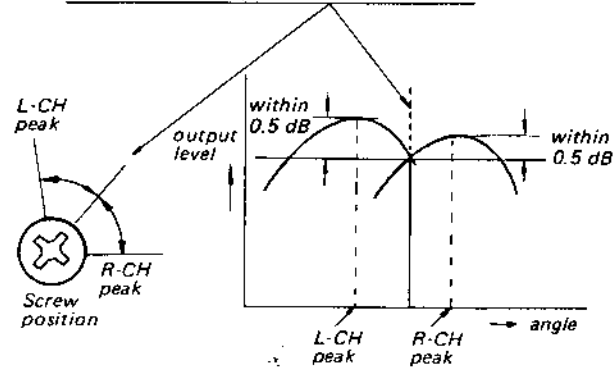
Procedure:

1. Mode: playback (FOW/REV)

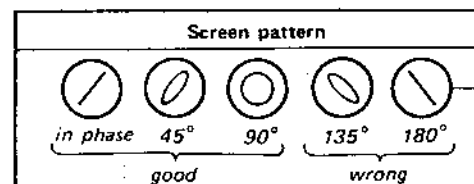
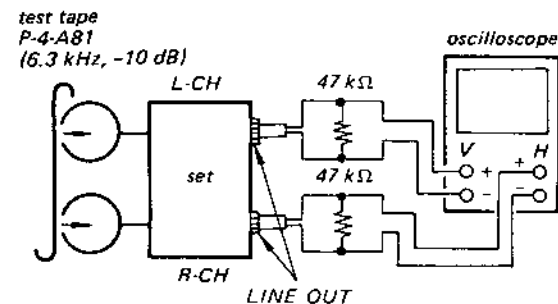


Adjust for forward (▶) direction and reverse (◀) direction.

2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw where both of output levels match together within 0.5 dB.

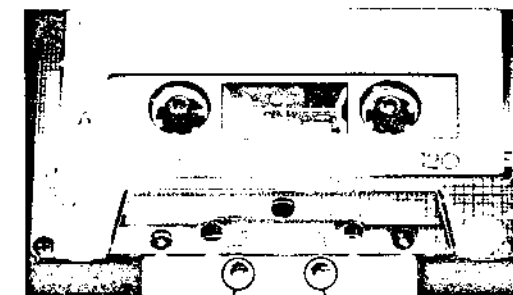


3. Phase Check
Confirm that phase difference between L-channel and R-channel is within 90°.



4. After the adjustment, lock the screws with locking compound.

Adjustment Location:

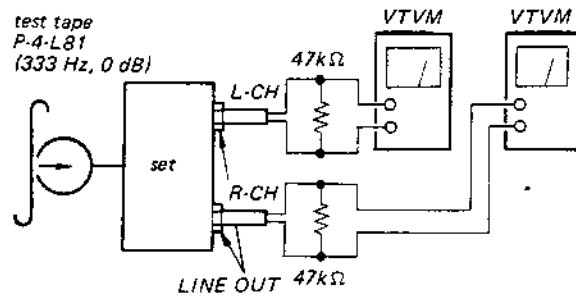


Adjustment screw REVERSE direction (◀)
Adjustment screws FORWARD direction (▶)

Playback Level Adjustment

Procedure:

Mode: playback



Adjust the RV101 (L-CH) and RV201 (R-CH) so that the specification is met.

Specification:

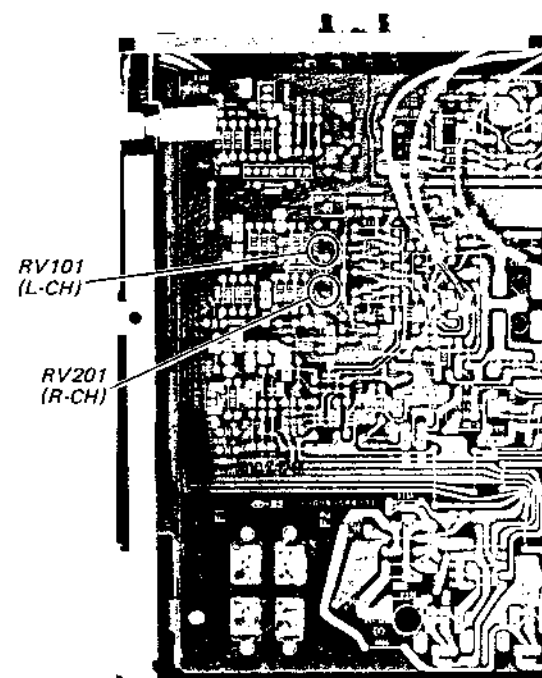
LINE OUT level: 0.52 ~ 0.59 V
(-3.5 ~ -2.5 dB)

Level difference between channels:
less than 0.5 dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location:

-PLAYBACK BOARD-



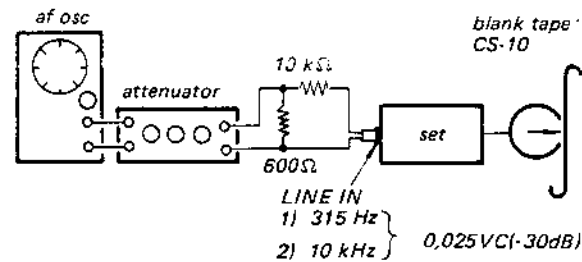
Record Bias Adjustment

Setting:

TAPE SELECTOR : AUTO
DOLBY NR : OFF
TEST TAPE : CS-10 (Blank tape)
REC LEVEL : STANDARD RECORD
(See page 19)

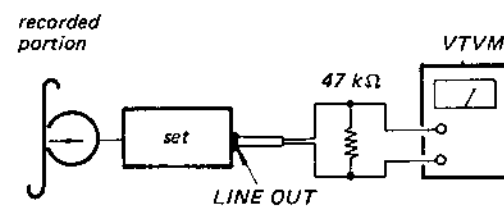
Procedure:

1. Mode: record



Record 315 Hz and 10 kHz Signals.

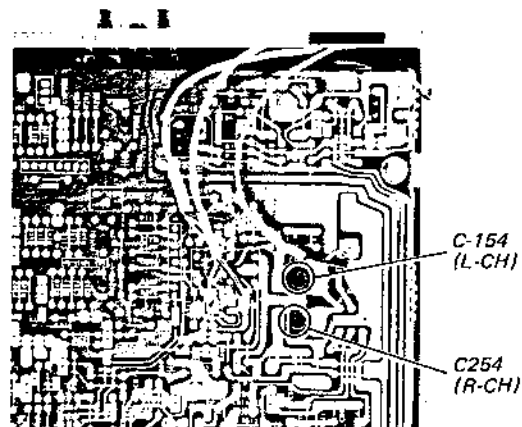
2. Mode: playback



Playback the two signals recorded in Step 1. Adjust C154 (L-CH) and C254 (R-CH) so that playback output of 10kHz signal is 0dB relative to that of 315 Hz.

Adjustment location:

-PLAYBACK BOARD-



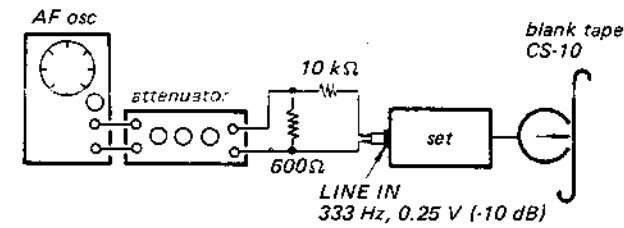
Record Level Adjustment

Setting:

TAPE SELECTOR : AUTO
DOLBY NR : OFF
TEST TAPE : CS-10 (Blank tape)
REC LEVEL : STANDARD RECORD
(See page 19)

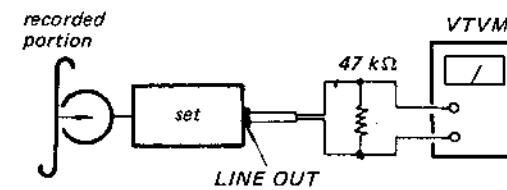
Procedure:

1. Mode: record



Record a 333 Hz signal of 0.25 V (-10 dB).

2. Mode: playback



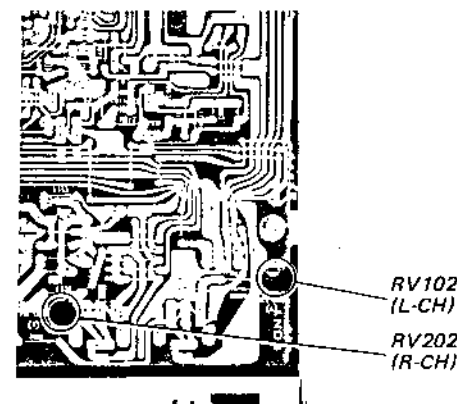
Playback the signal recorded in Step 1. Adjust RV102 (L-CH) and RV202 (R-CH) for the specification below.

Specification:

LINE OUT level: 0.41 to 0.46 V
(-5.5 to -4.5 dB)

Adjustment Location:

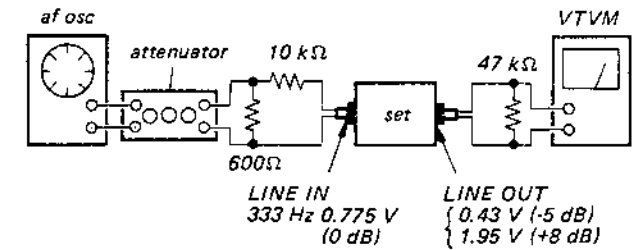
-RECORD BOARD-



Level Meter Calibration

Procedure:

1. Mode: record



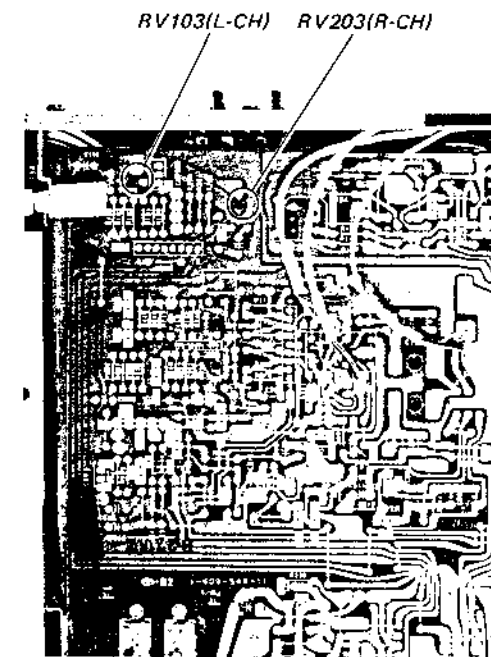
2. Set the REC LEVEL control so that the LINE OUT level is 0.43 V (-5 dB) when a 333 Hz signal of 0.775 V (0 dB) is applied to LINE IN.

3. Adjust RV103 (L-CH), RV203 (R-CH) so that the -5 dB indicating LED in the LED meter goes on.

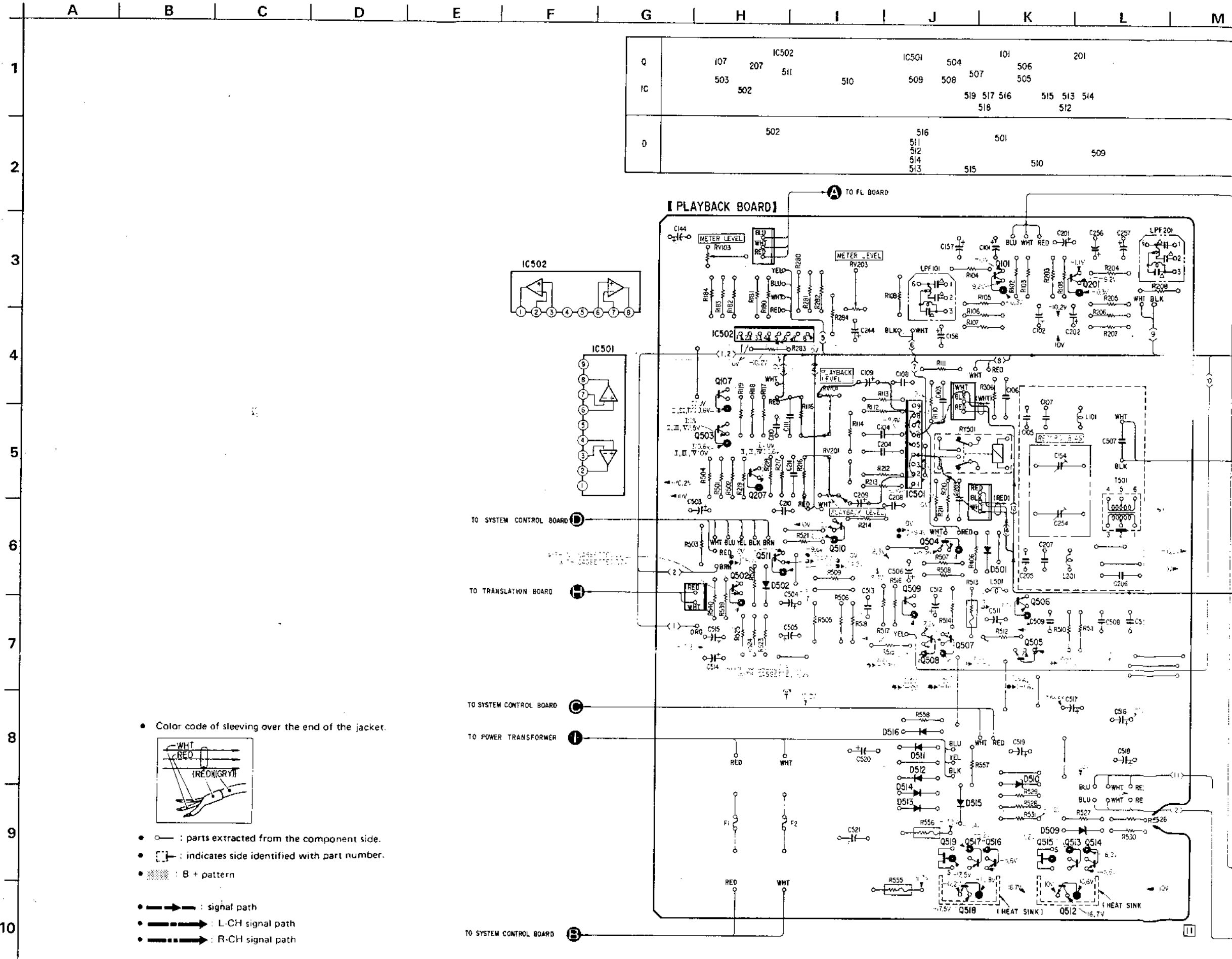
4. Set the REC LEVEL control so that the LINE OUT level is 1.9 V (+8 dB). Make sure that the +8 dB indicating LED in the level meter goes on.

Adjustment Location:

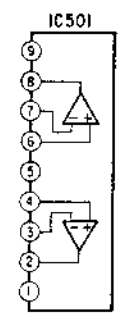
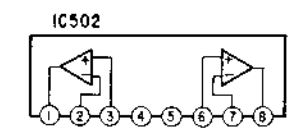
-PLAYBACK BOARD-



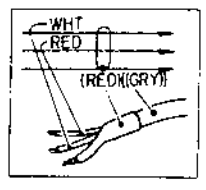
5-1. MOUNTING DIAGRAM
- Audio Section -



Q	107	207	511		510	509	508	507	519	517	516	515	513	514	201
IC	503	502							518				512		
D		502				516			501			510			509
						511									
						512									
						514									
						513			515						



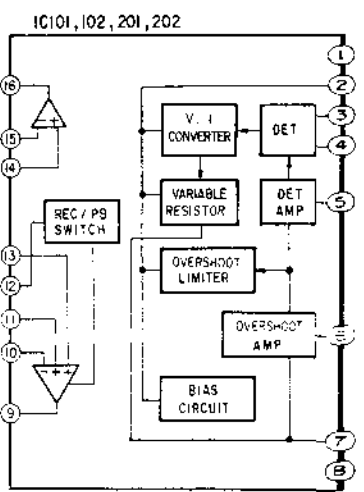
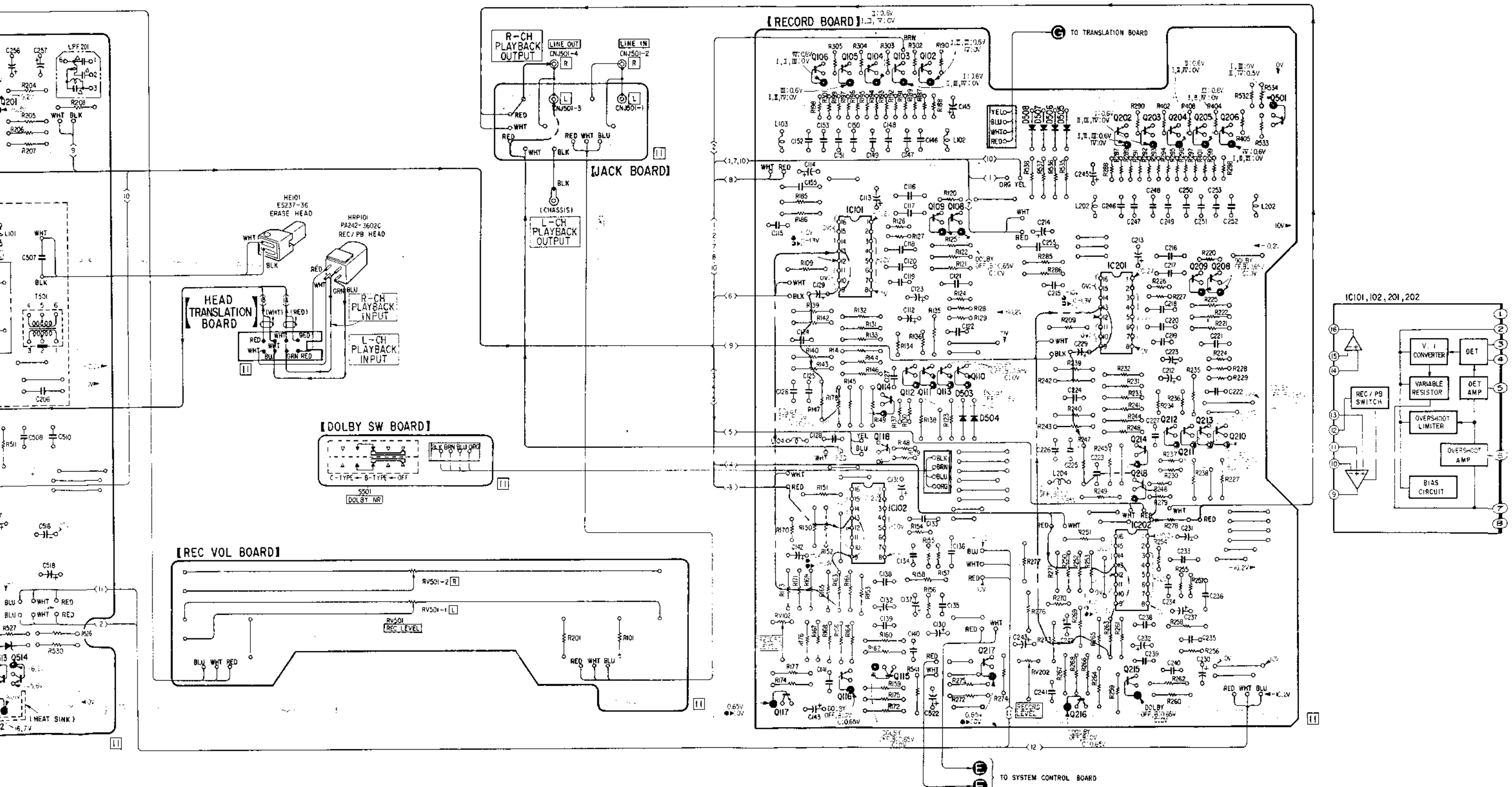
• Color code of sleeving over the end of the jacket.



- : parts extracted from the component side.
- : indicates side identified with part number.
- ▨ : B + pattern
- : signal path
- : L-CH signal path
- : R-CH signal path

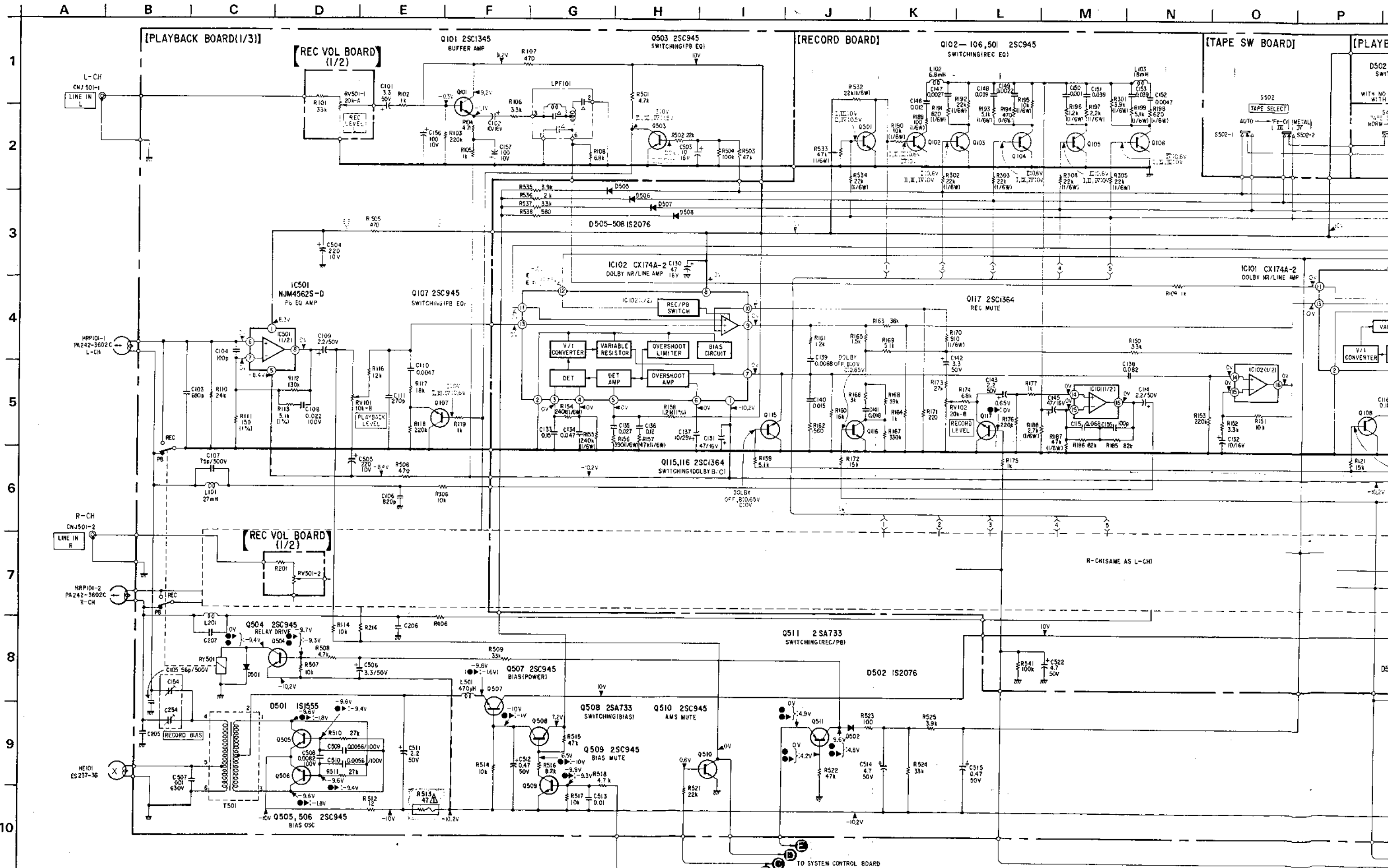
L M N O P Q R S T U V W X Y Z A1

106	105	104	103	102	202	203	204	205	206	501
IC101				109 108	IC201			209 208		Q
IC102	114	112	111	113 110		214	212 211	213 210		IC
	117	116	115		217	215				D
					508 507 506 505					
					503 504					



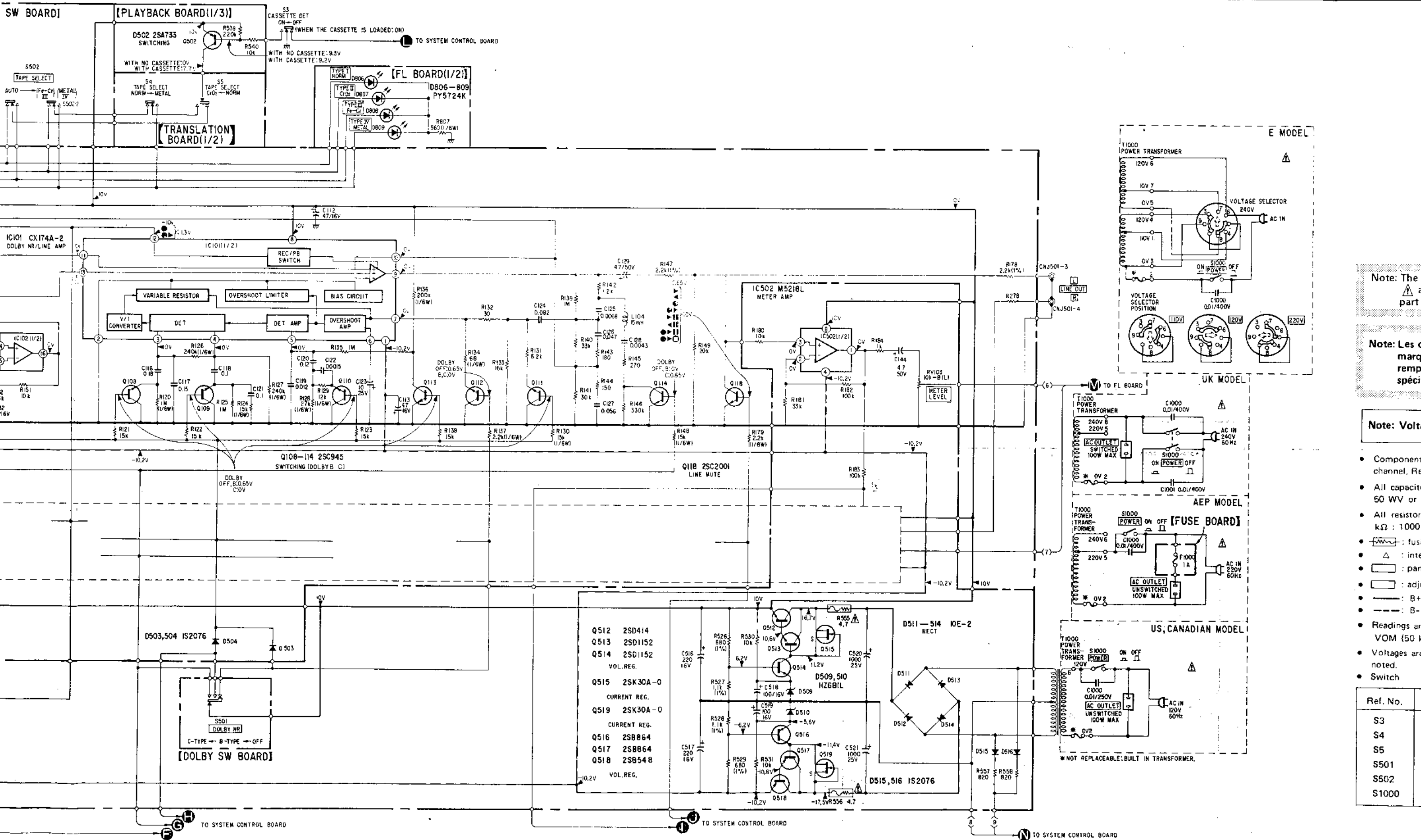
5-2. SCHEMATIC DIAGRAM
- Audio Section -

TC-V7 TC-V7



TC-V7 TC-V7

O | P | Q | R | S | T | U | V | W | X | Y | Z | A1 | B1 | C1 | D1 | E1



Note: The o
part

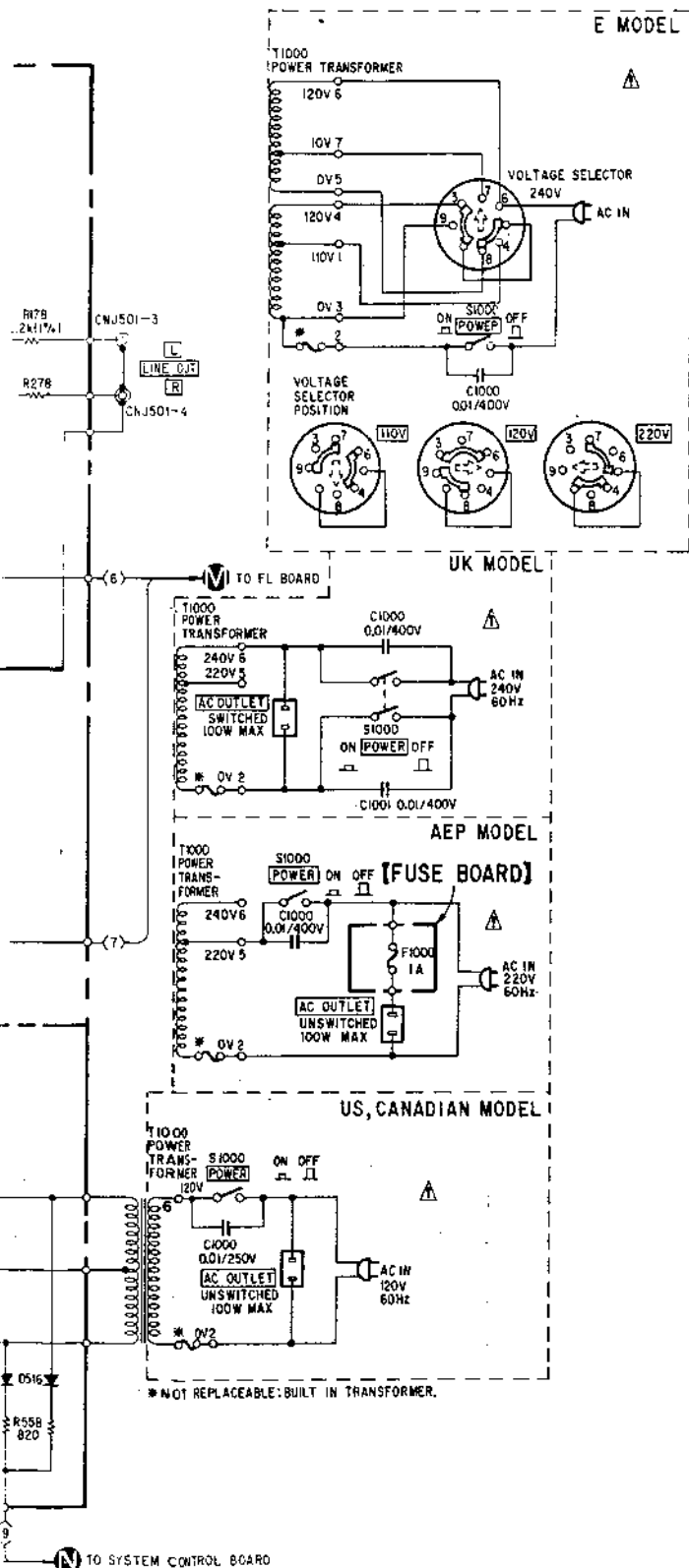
Note: Les c
marq
rempl
spécif

Note: Volta

- Components channel, Re
- All capacito 50 WV or l
- All resistors kΩ : 1000
- : fusio
- : inter
- : pane
- : adju
- : B+
- : B-
- Readings are VOM (50 k
- Voltages are noted.
- Switch

Ref. No.	
S3	
S4	
S5	
S501	
S502	
S1000	

A1 B1 C1 D1 E1 F1 G1 H1



Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

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

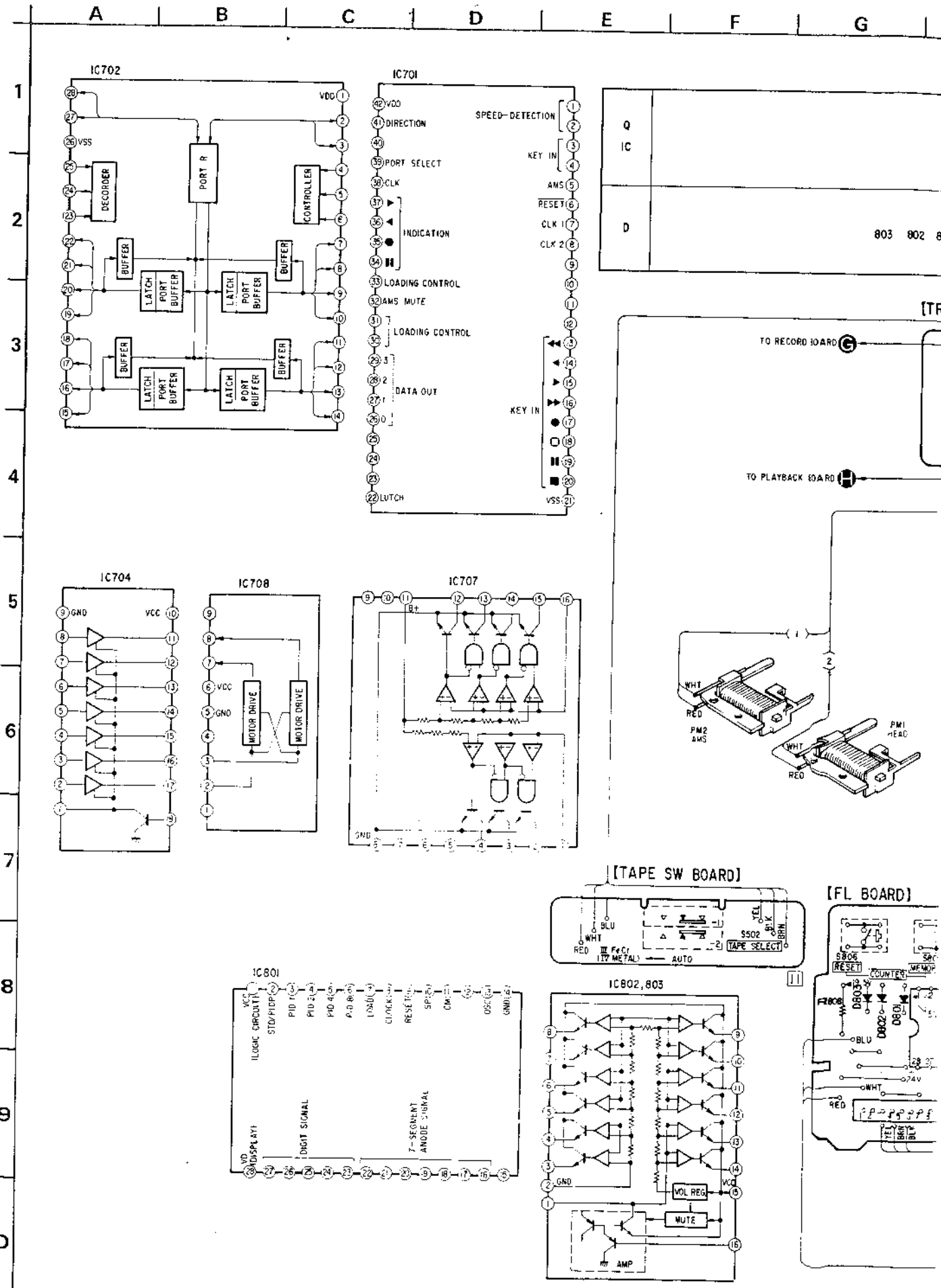
Note: Voltages are measured with a VOM (50kΩ/V).

- Components for right channel have same values as for left channel. Reference numbers are coded from
- All capacitors are in μF unless otherwise noted. pF ; μF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$
- : fusible resistor.
- : internal component.
- : panel designation.
- : adjustment for repair.
- : B+ bus.
- : B- bus.
- Readings are taken under no-signal conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
- Voltages are dc with respect to ground unless otherwise noted.
- Switch

Ref. No.	Switch	Position
S3	CASSETTE DET	OFF
S4	TAPE SELECT	NORM
S5	TAPE SELECT	NORM
S501	DOLBY NR	OFF
S502	TAPE SELECT	AUTO
S1000	POWER	OFF

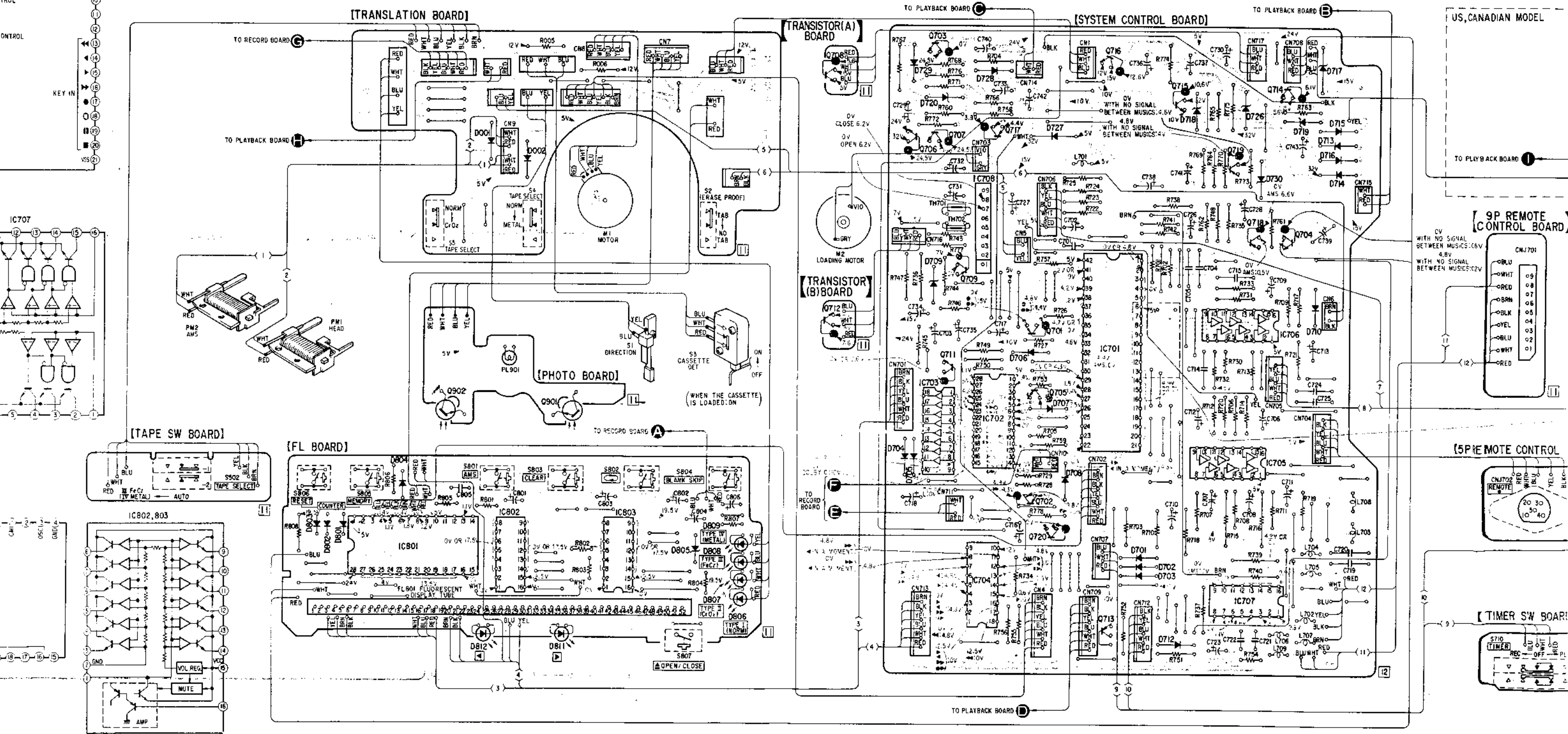
: Signal path

5-3. MOUNTING DIAGRAM
- System Control Section -



D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T

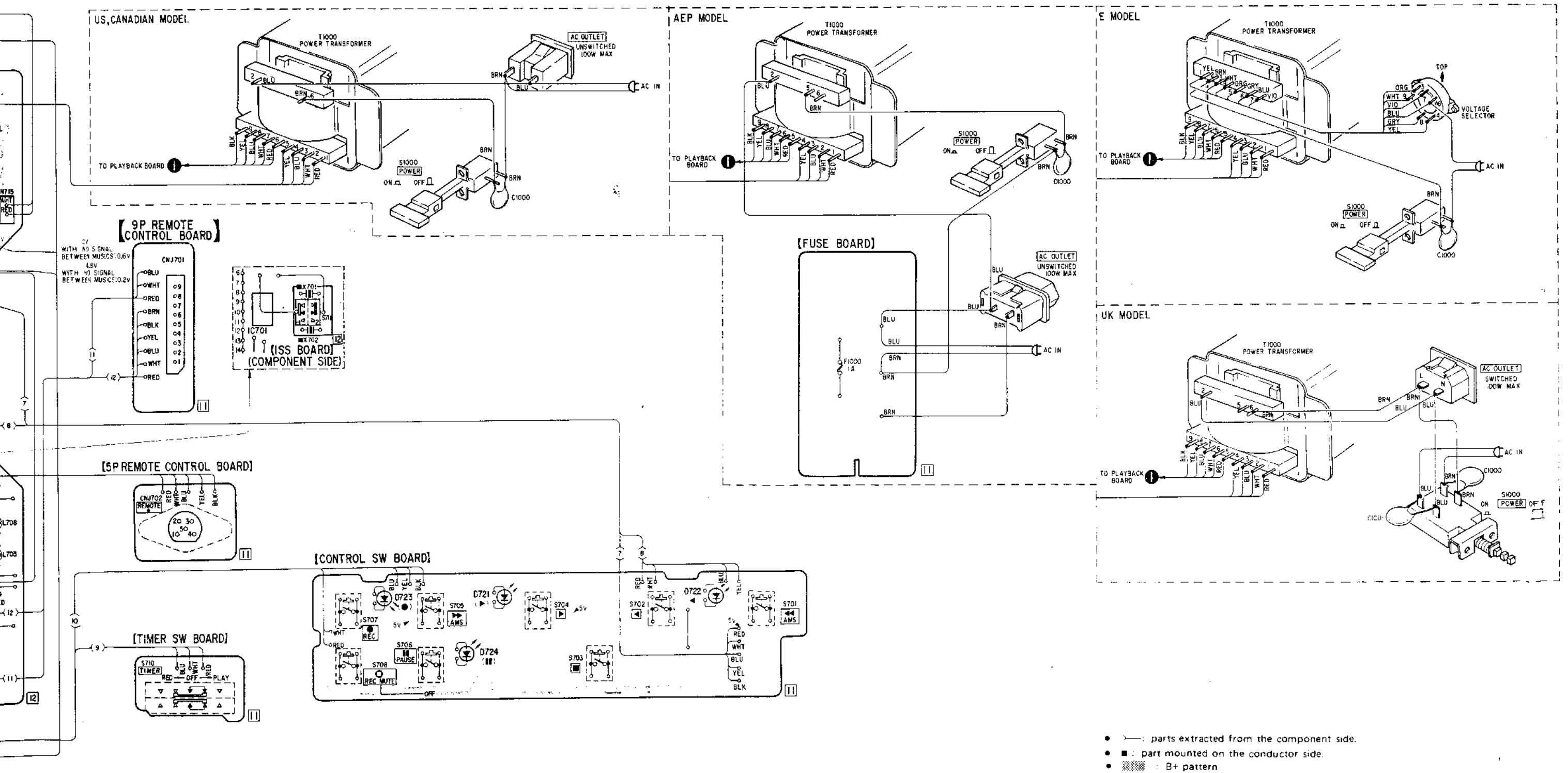
SPEED-DETECTION KEY IN AMS RESET CLX1 CLX2 CONTROL KEY IN VS	Q IC	902 IC801	901 IC802	IC803	703 706 707	717 709 711 IC703	716 715 719 704	718 726 730	717 715 713 716 714
D	D	804 803 802 801	001 002 812	811	809 808 807 806	729 720 709 704 705	728 706 707 708	701 702 703 712	705 705 707 708



S T U V W X Y Z A1 B1 C1 D1 E1 F1 G1 H1

Q
IC
D

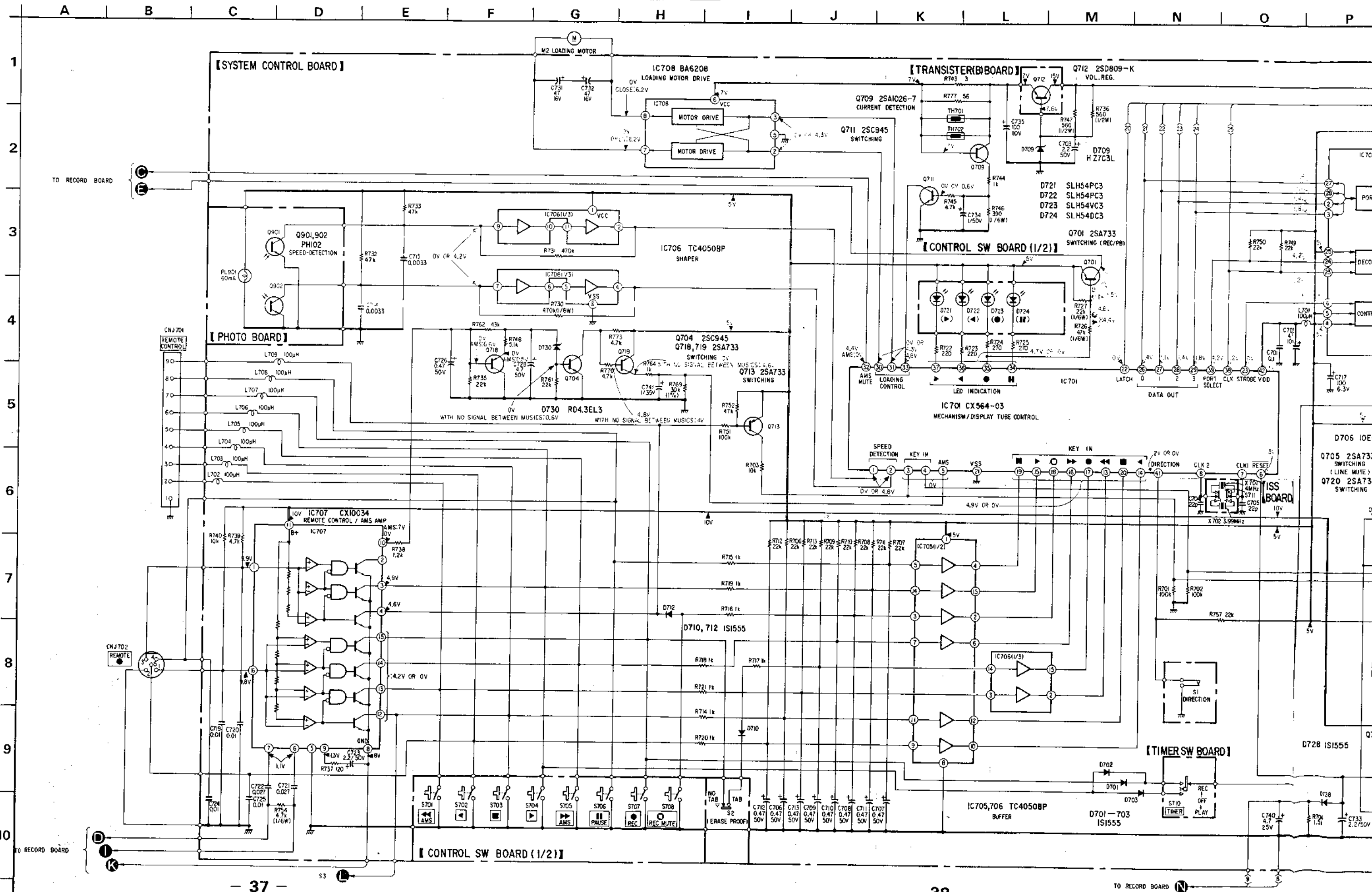
723 724 721 722

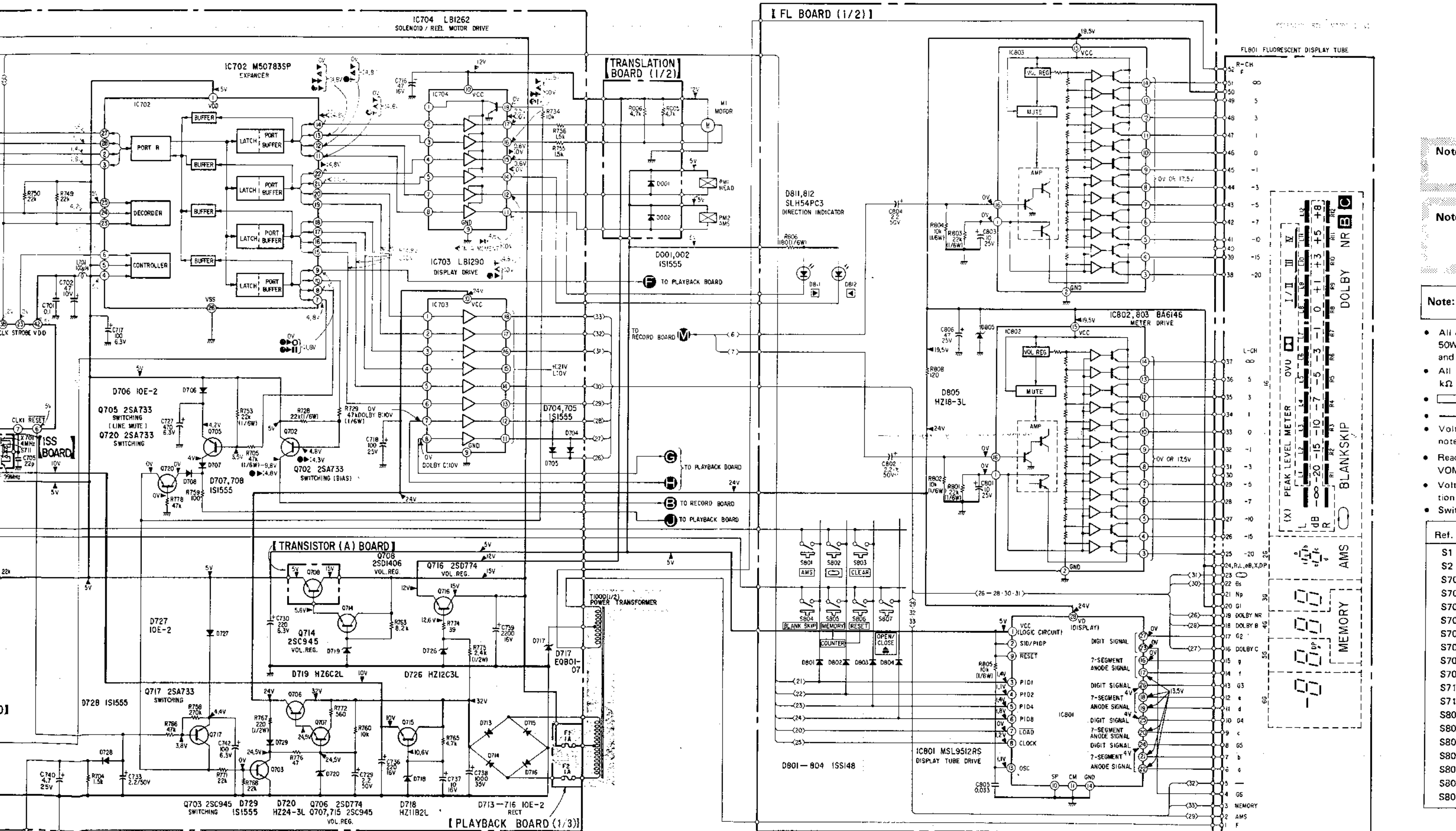


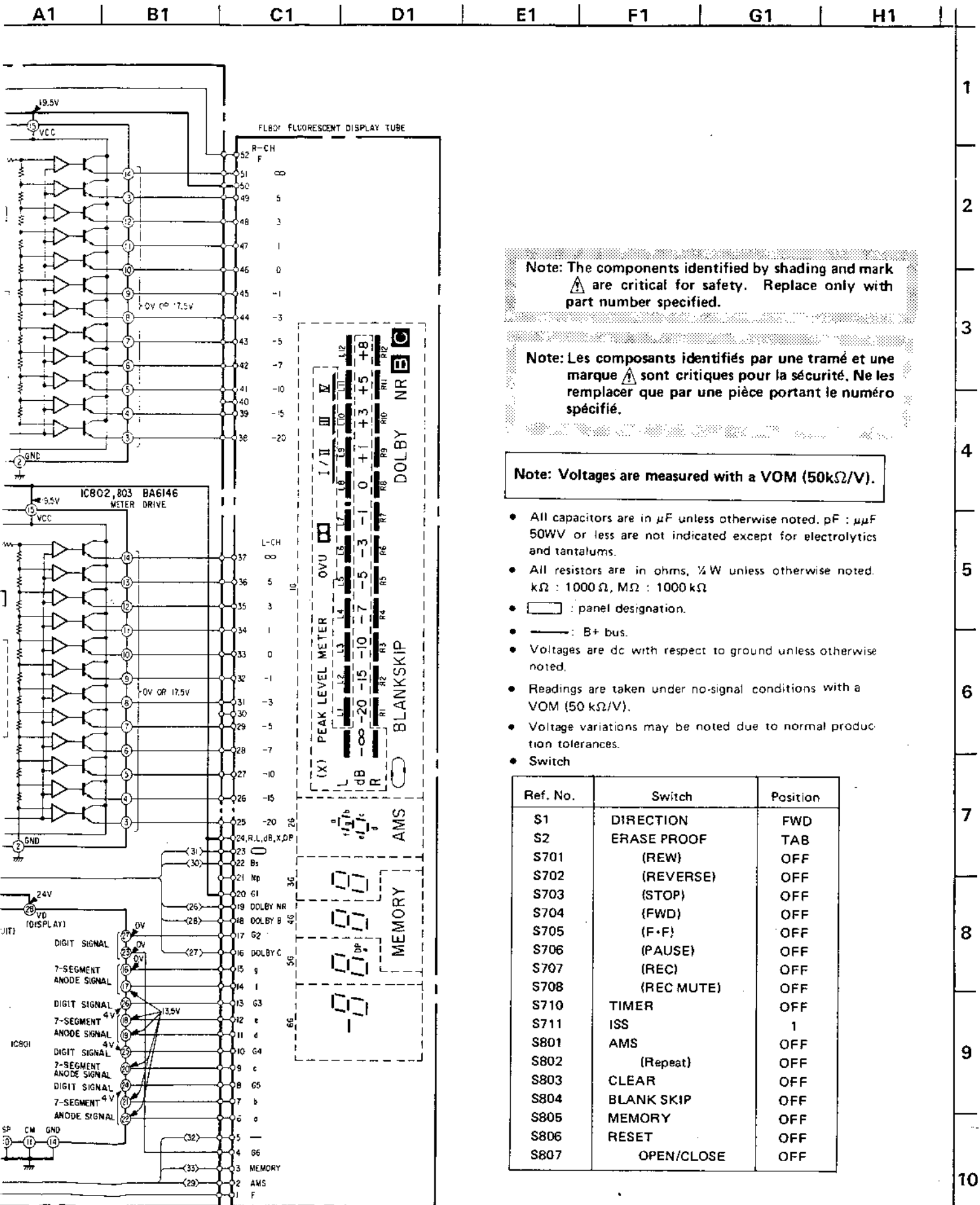
- — : parts extracted from the component side.
- : part mounted on the conductor side.
- ▨ : B+ pattern

54. SCHEMATIC DIAGRAM
 - System Control Section -

TC-V7 TC-V7







Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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

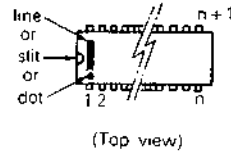
Note: Voltages are measured with a VOM (50k Ω /V).

- All capacitors are in μ F unless otherwise noted. pF : μ mF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{2}$ W unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000 k Ω
- : panel designation.
- — : B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 k Ω /V).
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S1	DIRECTION	FWD
S2	ERASE PROOF	TAB
S701	(REW)	OFF
S702	(REVERSE)	OFF
S703	(STOP)	OFF
S704	(FWD)	OFF
S705	(F·F)	OFF
S706	(PAUSE)	OFF
S707	(REC)	OFF
S708	(REC MUTE)	OFF
S710	TIMER	OFF
S711	ISS	1
S801	AMS	OFF
S802	(Repeat)	OFF
S803	CLEAR	OFF
S804	BLANK SKIP	OFF
S805	MEMORY	OFF
S806	RESET	OFF
S807	OPEN/CLOSE	OFF

Semiconductor Lead Layouts

BA6146
 CX564-03
 CX174A-2
 CX10034
 LB1262
 LB1290
 M507835SP
 MSL9512RS
 TC4050BP



2SA1026-7

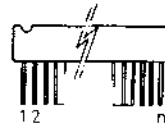


**2SB548
 2SD414
 2SD809K**

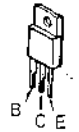
letter side



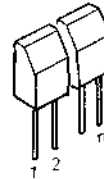
BA6208



2SD1406



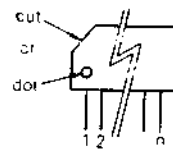
M5218L



2SK30A-0



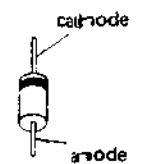
NJM4562S-D



2SA844
 2SB864
 2SC945
 2SC2001-K2
 2SC1345
 2SC1364
 2SC1364-8
 2SD1152

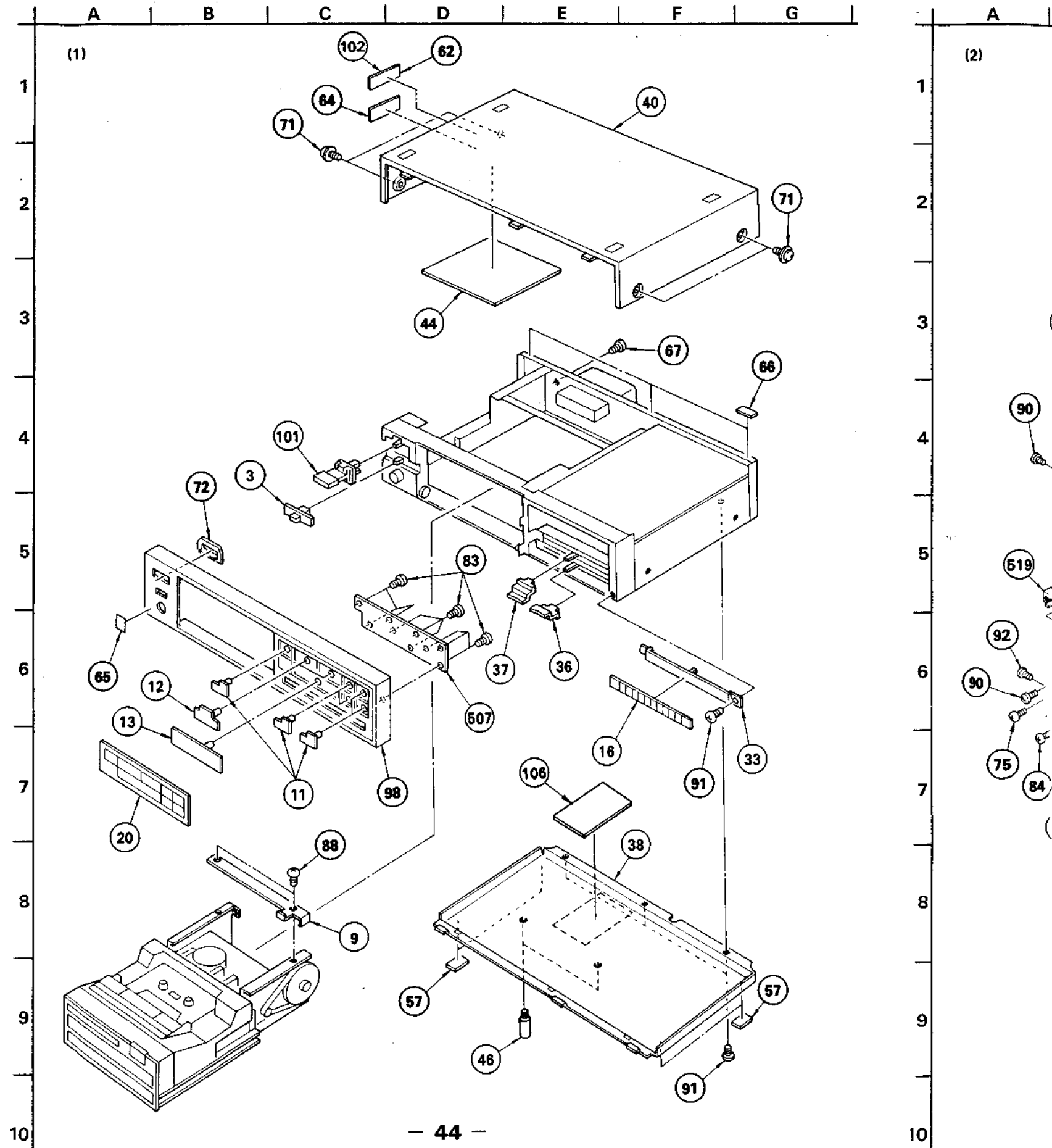
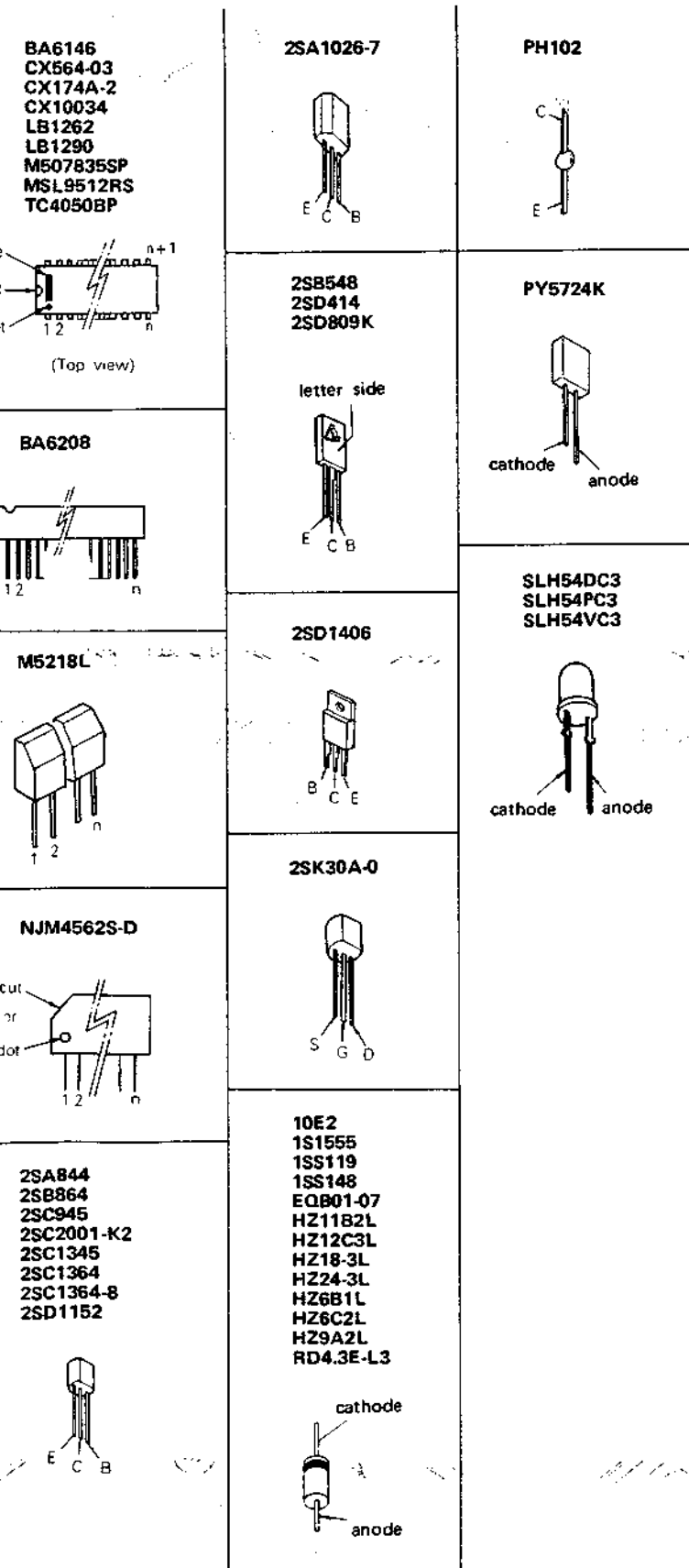


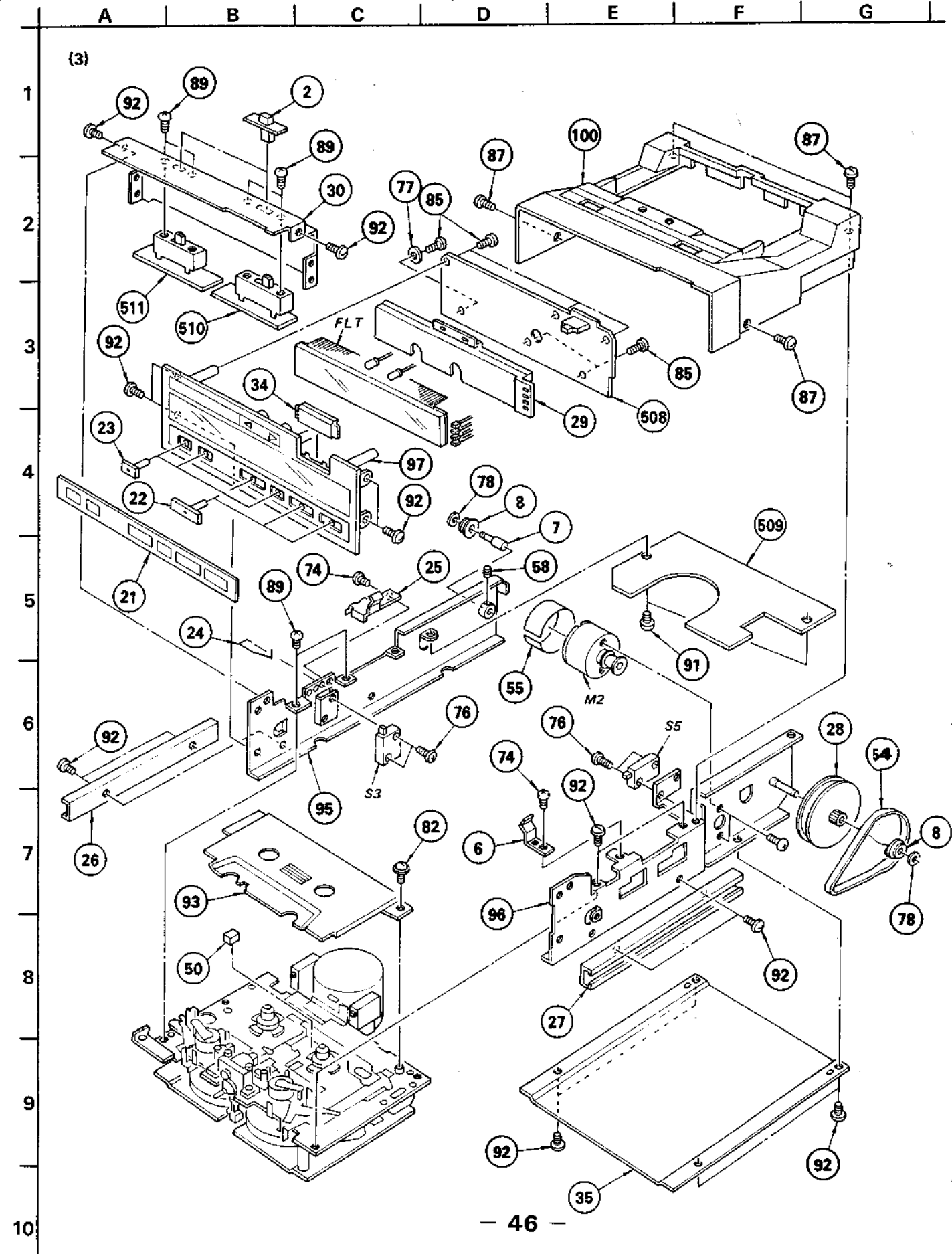
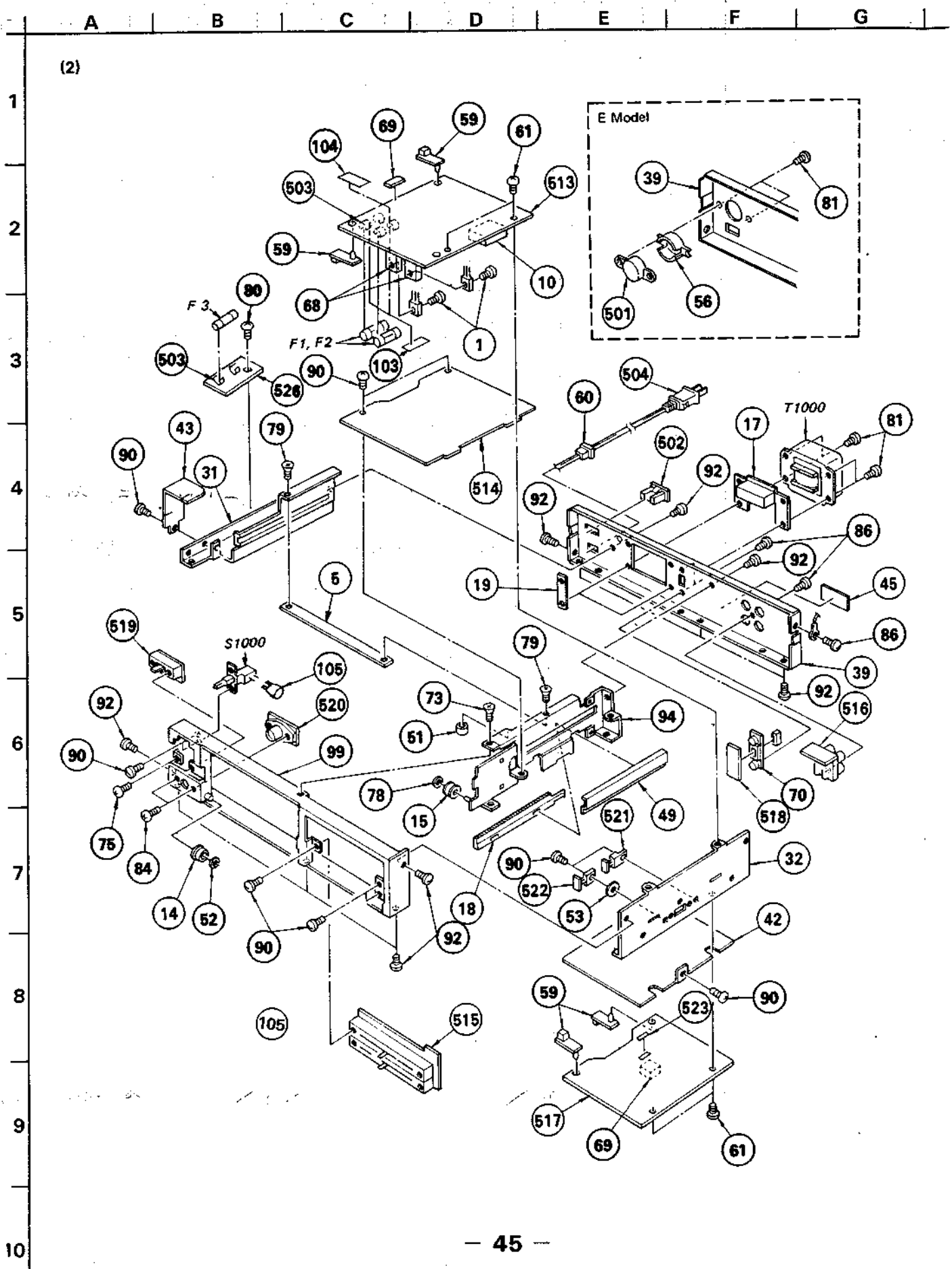
10E2
 1S1555
 1SS119
 1SS148
 EQB01-07
 HZ1182-L
 HZ12C3-L
 HZ18-3L
 HZ24-3L
 HZ6B1-L
 HZ6C2-L
 HZ9A2-L
 RD4.3E-L3

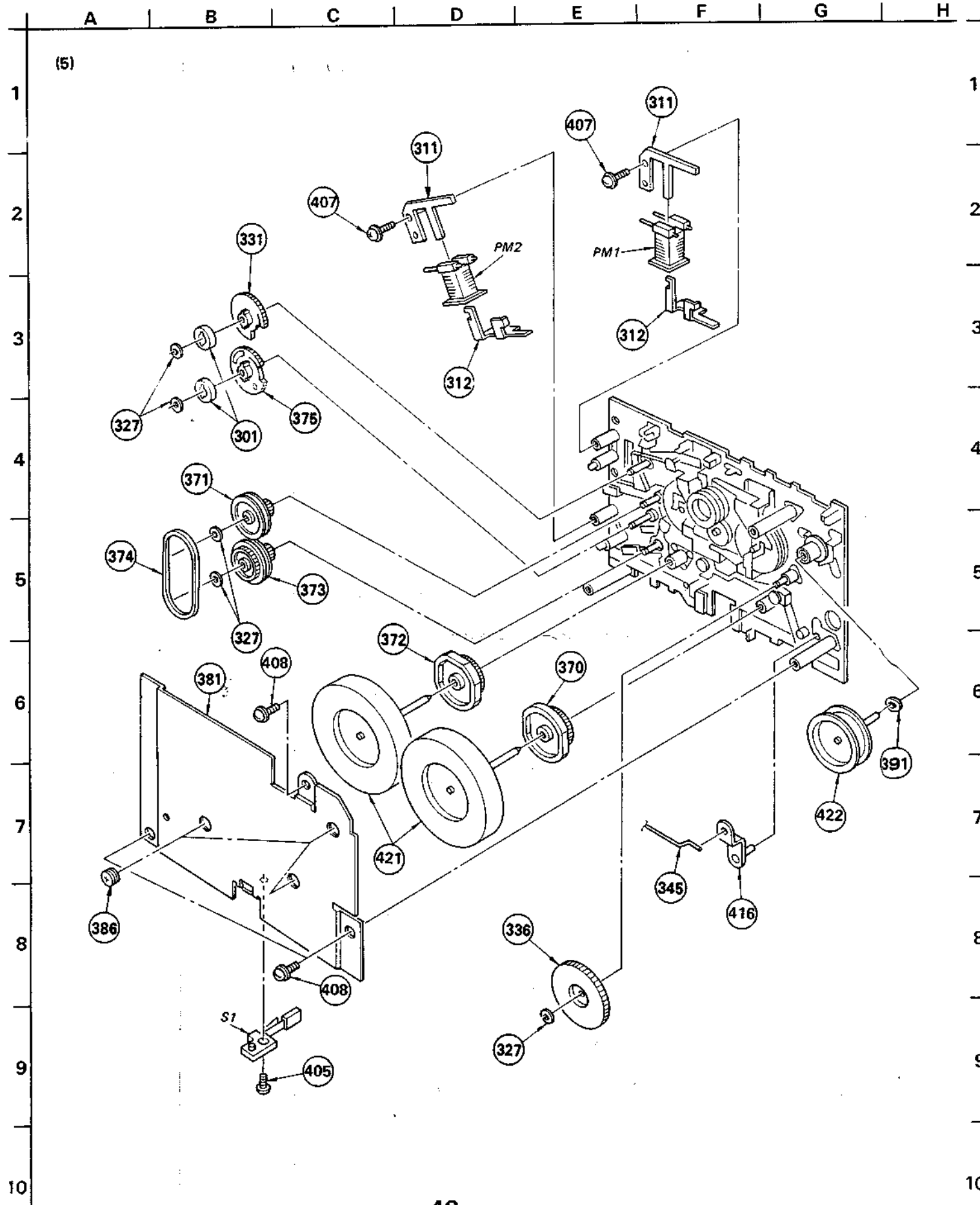
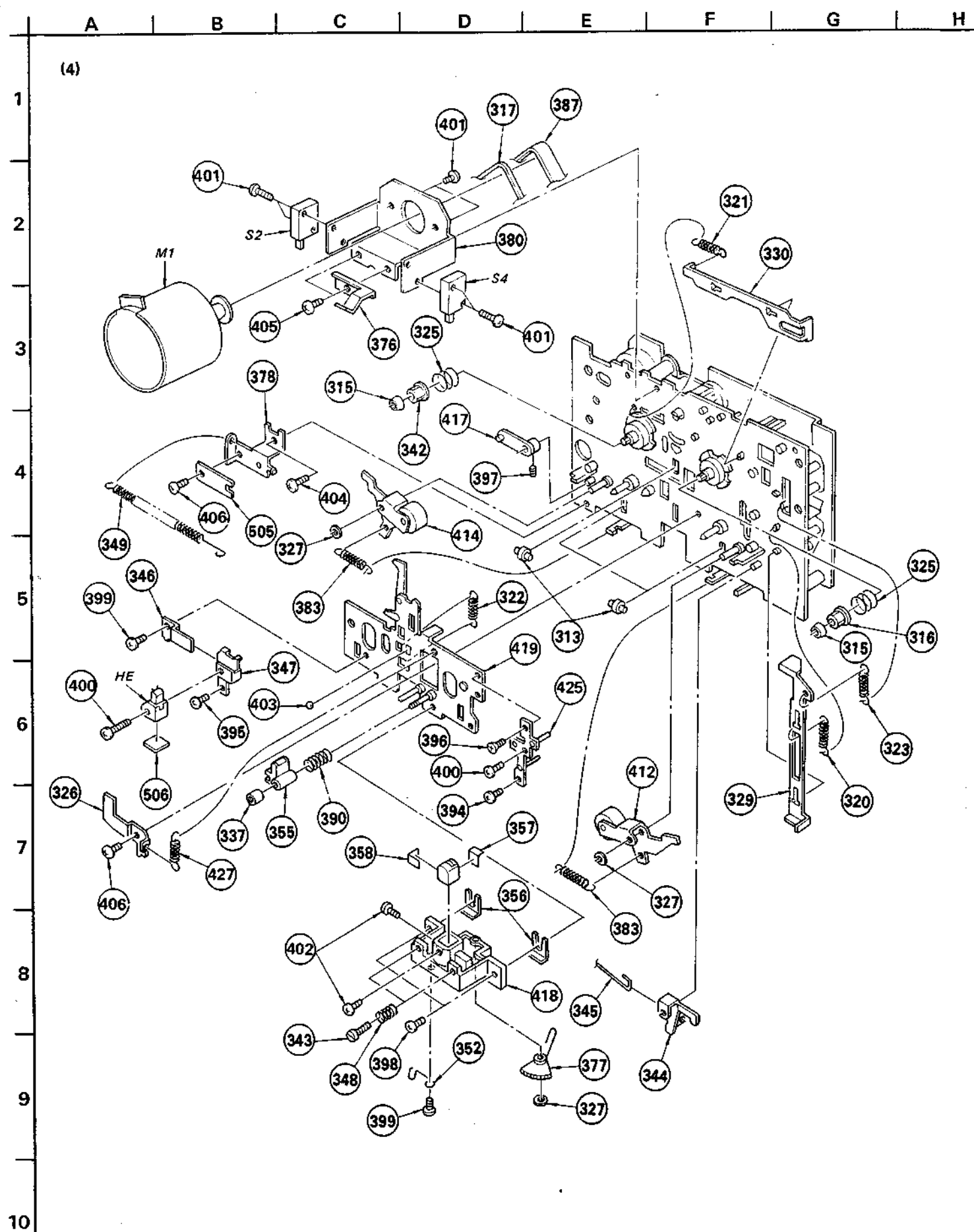


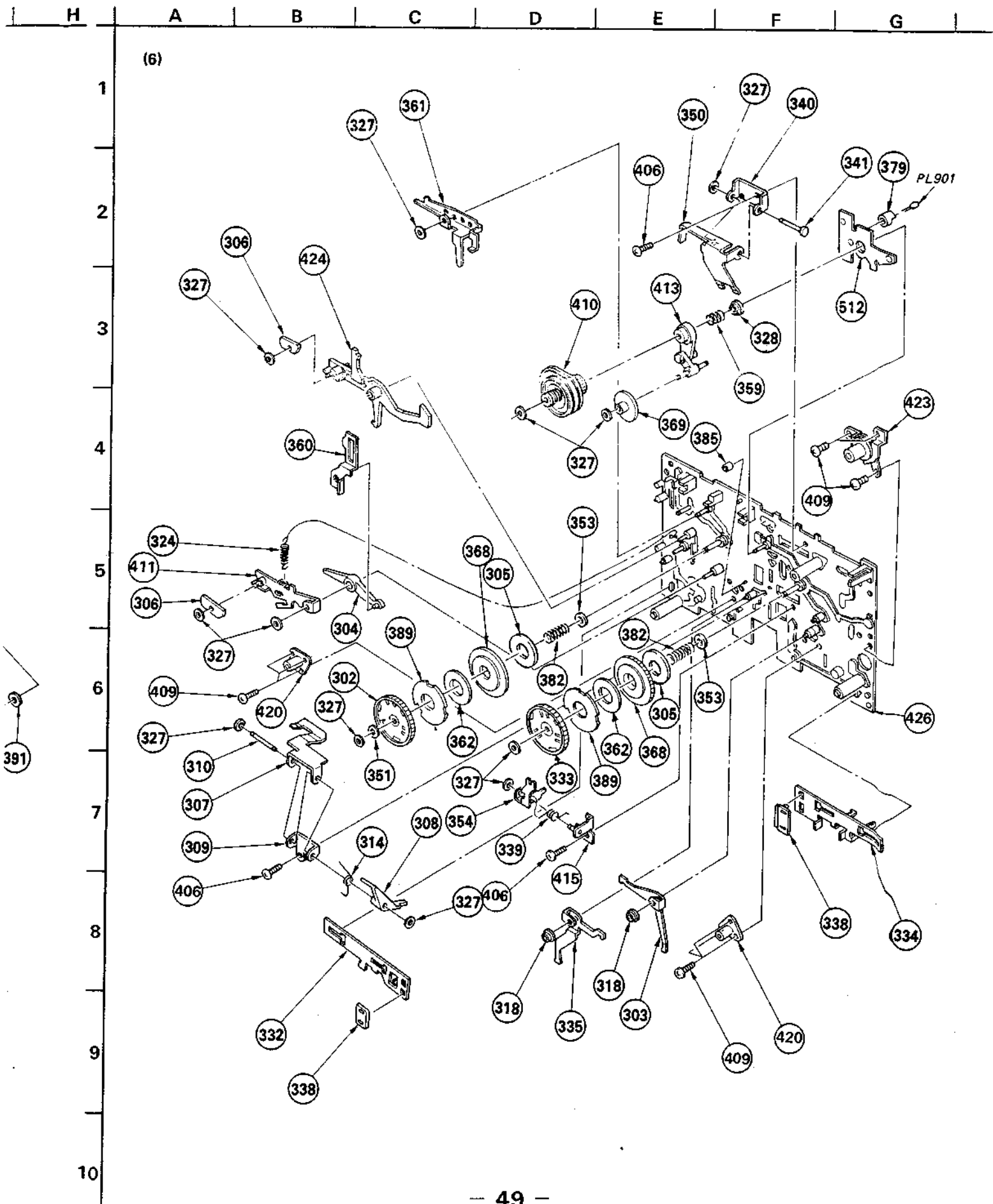
SECTION 6
EXPLODED VIEWS AND PARTS LIST

Microconductor Lead Layouts









GENERAL SECTION

No.	Part No.	Description
1	2-259-121-00	SCREW, TR
2	3-307-538-31	KNOB, SWITCH, TIMER
3	3-307-538-41	KNOB, SWITCH, TIMER
4	.....
5	♣;3-312-905-00	JOINT (A)
6	3-312-908-00	RETAINER (RIGHT), HALF
7	3-312-909-00	SHAFT, ROLLER
8	3-312-910-00	ROLLER (B)
9	♣;3-312-911-00	JOINT (B)
10	♣;3-312-913-00	PLATE, SHIELD
11	♣;3-312-917-00	BUTTON, PAUSE
12	♣;3-312-918-00	BUTTON, FWD
13	♣;3-312-920-00	BUTTON, STOP
14	3-312-921-00	ROLLER (F.L)
15	3-312-923-00	ROLLER (F.R)
16	3-312-924-00	PLATE, ORNAMENTAL, CONTROL
17	♣;3-312-925-00	SHEET, INSULATING
18	3-312-926-00	RACK
19	♣;3-312-927-00	NUT, PLATE
20	3-312-928-00	SHEET, FUNCTION
21	3-312-929-00	SHEET, DRAWER
22	♣;3-312-930-00	BUTTON, AMS
23	♣;3-312-931-00	BUTTON, MEMORY
24	3-312-932-00	ARM, DETECTION, HALF
25	3-312-933-00	RETAINER (L), HALF
26	♣;3-312-934-00	RAIL (LEFT)
27	♣;3-312-935-00	RAIL (RIGHT)
28	3-312-936-00	GEAR, LOADING
29	♣;3-312-937-00	HOLDER, FL TUBE
30	♣;3-312-941-00	FRAME, DRAWER
31	♣;3-312-942-00	FRAME (A)
32	♣;3-312-943-00	FRAME (C)
33	♣;3-312-945-00	COVER, CONTROL
34	3-312-946-00	BUTTON, DRAWER
35	♣;3-312-947-02	PLATE, BOTTOM, DRAWER
36	3-312-948-00	KNOB (RIGHT), CONTROL
37	3-312-949-00	KNOB (LEFT), CONTROL
38	♣;3-312-950-03	PLATE, BOTTOM
39	♣;3-312-952-12	(US,Canadian)...PLATE, JACK
39	3-312-952-22	(E).....PLATE, JACK
39	3-312-952-32	(AEP).....PLATE, JACK
39	3-312-952-42	(UK).....PLATE, JACK
40	3-312-953-00	CASE
41	.....
42	♣;3-312-963-00	INSULATOR

GENERAL SECTION

No.	Part No.	Description
43	♣;3-312-964-00	INSULATOR, SWITCH
44	♣;3-312-965-00	PLATE, SHIELD, HEAD
45	3-312-966-00	(US,Canadian)...LABEL, MODEL NUMBER
45	3-312-967-00	(E).....LABEL, MODEL NUMBER
45	3-312-969-00	(UK).....LABEL, MODEL NUMBER
45	3-312-971-00	(AEP).....LABEL, MODEL NUMBER
46	3-312-974-00	SCREW, TRANSPORT
47	.....
48	.....
49	3-312-977-00	COVER, ROLLER
50	3-312-978-00	SHEET, RUBBER
51	3-537-790-11	SUPPORT, TENSION ARM
52	3-558-708-21	WASHER, STOPPER
53	3-572-365-01	SHEET (A), INSULATING
54	3-573-911-21	BELT, FLAT
55	3-575-457-00	PLATE (B), SHIELD, MOTOR
56	♣;3-575-567-00	(E).....COVER, SWITCH
57	3-576-332-11	FOOT, F
58	3-701-505-00	SET SCREW, DOUBLE POINT 3X3
59	♣;3-701-832-00	HINGE, CIRCUIT BOARD
60	3-703-244-00	BUSHING, CORD
61	3-703-486-00	+PTTW 3X5
62	♣;3-703-678-00	(US)..LABEL, CAUTION, NEW UL
64	♣;3-703-680-00	(US)..LABEL, CAUTION, SUB. NEW UL
65	3-703-713-01	STICKER, SONY SYMBOL (10)
66	3-831-441-11	CUSHION, 23X4X0.5
67	4-808-459-81	SCREW (B), MOTOR LOCK
68	♣;4-861-002-11	HEAT SINK
69	4-862-348-00	CUSHION
70	4-864-313-00	WASHER (9P), CONNECTOR
71	4-886-821-11	SCREW, M3 CASE
72	4-886-976-00	ESCUTCHEON, POWER KNOB
73	7-621-559-20	SCREW +K 2.6X4
74	7-621-775-00	SCREW +B 2.6X3
75	7-621-775-20	SCREW +B 2.6X5
76	7-621-775-40	SCREW +B 2.6X8
77	7-623-911-01	WASHER, NYLONE
78	7-624-102-04	STOP RING 1.5, TYPE -E
79	7-627-452-18	SCREW, PRECISION +K 2X3
80	7-682-546-04	SCREW +BVT 3X5 (S)
81	7-682-547-09	SCREW +B 3X6
82	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT
83	7-685-145-11	SCREW +P 3X6 TYPE2 NON-SLIT
84	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (♠-△△△-△△△-XX or ♠-△△△△-△△△-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in pF. Common capacitors are omitted. Refer to the following lists for their part numbers.
- MF:µF, PF:100F.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F: nonflammable

COILS

- MH: mH, UH: µH

GENERAL SECTION		
No.	Part No.	Description
85	7-685-534-24	SCREW +P 2.6X8 TYPE2 NON-SLIT
86	7-685-545-19	SCREW +BTP 3X6 TYPE2 N-S
87	7-685-751-09	SCREW, TOTSU BTT 3X6
88	7-685-860-04	SCREW +BVTT 2.6X4 (S)
89	7-685-861-01	SCREW +BVTT 2.6X5 (S)
90	7-685-870-01	SCREW +BVTT 3X5 (S)
91	7-685-871-01	SCREW +BVTT 3X6 (S)
92	7-687-711-39	SCREW, TOTSU BTT 3X5
93	X-3312-902-0	PLATE ASSY, ORNAMENTAL, MD
94	X-3312-904-0	FRAME (B) ASSY
95	X-3312-905-0	PLATE (LEFT) ASSY, SIDE, MD
96	X-3312-906-0	PLATE (RIGHT) ASSY, SIDE, MD
97	X-3312-907-0	PANEL ASSY, DRAWER
98	X-3312-908-0	PANEL ASSY, FRONT
99	X-3312-909-0	CHASSIS ASSY, AMPLIFIER
100	X-3312-910-0	COVER ASSY, MD
101	X-4886-805-0	KNOB (L) ASSY, POWER
102	3-703-043-31	(Canadian).....LABEL, CAUTION
103	3-701-946-30	(US).....LABEL, FUSE
103	3-701-949-14	(AEP, UK, EI, E2).....LABEL, CAUTION
104	3-703-044-26	(Canadian).....LABEL, CAUTION
105	4-875-455-21	COVER, CAPACITOR
106	9-911-837-XX	SHEET, VIBRATION PROOF

ACCESSORY & PACKING MATERIAL		
No.	Part No.	Description
151	1-556-793-31	CORD, CONNECTION
152	3-701-630-00	BAG, POLYETHYLENE
154	3-773-308-11	(AEP,Canadian,UK,E)...MANUAL INSTRUCTION
155	3-773-308-21	(US).....MANUAL INSTRUCTION
156	3-773-308-41	(AEP).....MANUAL INSTRUCTION
157	3-793-828-11	QUESTIONNAIRE
158	X-3307-105-0	ROD ASSY, CLEANING HEAD
159	3-312-976-01	SHEET, PROTECTION, PANEL

NOTE:
 • Items with no part number and no description are not stocked because they are seldom required for routine service.
 • Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 • Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

MECHANISM SECTION		
No.	Part No.	Description
301	1-452-202-00	MAGNET
302	3-307-305-02	GEAR (T), REEL
303	3-307-306-00	LEVER, SELECT, REVERSE
304	3-307-307-00	LEVER, FWD
305	3-307-313-00	PLATE, YOKE
306	3-307-315-00	ARBOR, MOVABLE
307	3-307-319-00	RETAINER, TAKE-UP GEAR
308	3-307-328-00	LEVER, TAKE-UP SELECTION
309	3-307-329-00	PLATE, FULCRUM, SELECTION LEVER
310	3-307-330-00	PIN, FULCRUM PLATE
311	3-307-332-00	ARBOR, FIXED
312	3-307-333-00	ARBOR, TRIGGER
313	3-307-348-00	ROLLER
314	3-307-355-00	SPRING
315	3-307-362-00	CAP, REEL
316	3-307-363-00	CLAW (N), REEL
317	3-307-366-00	BELT, FAST FORWARD
318	3-307-367-00	BUSHING, SELECT LEVER
319	.....
320	3-307-373-00	SPRING, TENSION
321	3-307-374-00	SPRING, TENSION
322	3-307-375-00	SPRING, TENSION
323	3-307-377-00	SPRING, TENSION
324	3-307-378-00	SPRING, TENSION
325	3-307-380-00	SPRING, COMPRESSION
326	3-307-391-00	SPRING
327	3-307-394-00	RETAINER (B), THRUST
328	3-307-395-00	RETAINER, SPRING
329	3-307-397-00	SLIDER, PAUSE
330	3-307-399-00	SLIDER, MODE
331	3-307-401-00	GEAR, FF CAM
332	3-307-403-00	SLIDER, FWD
333	3-307-412-00	GEAR, TAKE-UP REEL
334	3-307-420-00	SLIDER, REVERSE
335	3-307-421-00	LEVER (R), FWD SELECTION
336	3-307-423-00	GEAR (S), DRIVING
337	3-307-435-00	NUT, ADJUSTMENT, TAPE GUIDE
338	3-307-437-00	BLOCK, HEAD SELECTION
339	3-307-441-00	SPRING
340	3-307-443-00	BRACKET, RETAINER, SUPPLY GEAR
341	3-307-445-00	SHAFT, RETAINER, SUPPLY GEAR
342	3-307-447-00	CLAW (R), REEL
343	3-307-448-00	SCREW, ADJUSTMENT, AZIMUTH
344	3-307-449-00	LEVER (R), PAUSE
345	3-307-450-00	ROD, PULL, PAUSE

CAPACITORS:
 • All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF:μF, PF:μμF.
 RESISTORS
 • All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
 • F : nonflammable
 COILS
 • MMH : mH, UH : μH

MECHANISM SECTION		
No.	Part No.	Description
346	3-307-457-00	SPRING
347	3-307-458-00	PLATE (L), ADJUSTMENT, HEAD
348	3-307-460-00	SPRING, COMPRESSION
349	3-307-461-00	SPRING, TENSION
350	3-307-464-00	RETAINER, SUPPLY GEAR
351	3-307-465-00	RETAINER, TAKE-UP
352	3-307-466-00	CLAMP
353	3-307-467-00	RETAINER, SPRING
354	3-307-469-00	LEVER, SELECTION, SUPPLY
355	3-307-470-00	GUIDE (L), TAPE
356	3-307-477-41	SEAM (A), HEAD ADJUSTMENT (t=0.05)
356	3-307-477-01	SEAM (A), HEAD ADJUSTMENT (t=0.1)
356	3-307-477-11	SEAM (A), HEAD ADJUSTMENT (t=0.2)
356	3-307-477-21	SEAM (A), HEAD ADJUSTMENT (t=0.3)
356	3-307-477-31	SEAM (A), HEAD ADJUSTMENT (t=0.4)
357	3-307-480-00	SEAM (B), HEAD ADJUSTMENT (t=0.05)
357	3-307-479-01	SEAM (B), HEAD ADJUSTMENT (t=0.1)
357	3-307-479-11	SEAM (B), HEAD ADJUSTMENT (t=0.2)
357	3-307-479-21	SEAM (B), HEAD ADJUSTMENT (t=0.3)
357	3-307-479-31	SEAM (B), HEAD ADJUSTMENT (t=0.4)
358	3-307-481-00	BASE, HEAD
359	3-307-486-00	SPRING, COMPRESSION
360	3-307-487-00	STOPPER, FR
361	3-307-490-00	LEVER, FF
362	3-307-493-01	SPACER
362	3-307-493-11	SPACER
362	3-307-493-21	SPACER
362	3-307-493-31	SPACER
362	3-307-493-41	SPACER
362	3-307-493-51	SPACER
368	3-307-953-00	MAGNET, REEL TABLE
369	3-307-970-00	GEAR, FR
370	3-312-403-00	GEAR (S), PINION
371	3-312-405-00	PULLEY, DRIVING
372	3-312-406-00	GEAR (T), PINION
373	3-312-408-00	GEAR (B), CONVERSION
374	3-312-409-00	BELT, DRIVING
375	3-312-412-00	GEAR (B), CAM, FWD
376	3-312-414-00	RETAINER (B), HALF
377	3-312-415-00	GEAR, ROTARY HEAD
378	3-312-417-00	HOLDER, PC BOARD, HEAD
379	3-312-418-00	RUBBER, HOLDER, LAMP
380	3-312-422-00	BRACKET, MOTOR
381	3-312-423-00	RETAINER (H), THRUST
382	3-312-429-00	SPRING, COMPRESSION
383	3-312-432-00	SPRING, TENSION
384	

NOTE:
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 • Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

MECHANISM SECTION		
No.	Part No.	Description
385	3-538-051-00	RUBBER, BRAKE
386	3-555-169-00	SCREW, ADJUSTMENT
387	3-558-349-00	BELT, CAPSTAN
389	3-561-827-11	PLATE (A), HYSTERESIS
390	3-644-718-00	SPRING, COMPRESSION
391	3-701-438-11	WASHER, 2.5
392	.....
393	.....
394	3-701-467-00	SCREW, LOCK
395	7-621-255-00	SCREW +P 2X4
396	7-621-555-30	SCREW +K 2X5
397	7-621-731-08	SET SCREW 2X2.5
398	7-621-770-87	SCREW +P 2.6X5
399	7-621-772-00	SCREW +B 2X3
400	7-621-772-40	SCREW +B 2X8
401	7-621-775-40	SCREW +B 2.6X8
402	7-627-552-07	SCREW, PRECISION +P 1.7X2.5
403	7-671-111-11	STEEL BALL 1.5MM
404	7-685-750-01	SCREW +PTT 3X5 (S)
405	7-685-790-01	SCREW +PTT 2.6X4 (S)
406	7-685-860-04	SCREW +BVTT 2.6X4 (S)
407	7-687-204-21	TOTSU PTPWH 2X6 NON-SLIT, TYPE2
408	7-687-246-21	SCREW, TOTSU PTPWH 3X8, TYPE2
409	7-687-701-39	SCREW, TOTSU BTT 2.6X4
410	A-2142-022-A	PULLEY ASSY, FR
411	X-3307-305-0	LEVER ASSY, FWD LOCK
412	X-3307-307-6	PINCH ROLLER (N) ASSY
413	X-3307-312-0	LEVER ASSY, FR
414	X-3307-316-3	PINCH ROLLER (R) ASSY
415	X-3307-317-0	PLATE ASSY, FULCRUM, LEVER
416	X-3307-319-0	ARM (A) ASSY, PAUSE
417	3-312-428-00	ARM (B), PAUSE
418	X-3307-321-0	HOLDER ASSY, HEAD
419	X-3307-323-0	CHASSIS (R) ASSY, HEAD
420	X-3307-338-0	BEARING ASSY, CAPSTAN
421	X-3307-339-0	FLYWHEEL (H) ASSY
422	X-3307-341-2	PULLEY ASSY, DUMMY
423	X-3307-342-0	BEARING ASSY, DUMMY PULLEY
424	X-3307-348-0	LEVER ASSY, FF LOCK
425	X-3307-920-0	PLATE ASSY, ADJUSTMENT
426	X-3307-349-1	CHASSIS ASSY, MECHANISM
427	3-570-914-00	SPRING, TENSION

CAPACITORS:
 • All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF:μF, PF:μμF.
 RESISTORS
 • All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
 • F : nonflammable
 COILS
 • MMH : mH, UH : μH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	▲.1-526-576-31	(E).....SELECTOR, POWER VOLTAGE
502	▲.1-526-609-00	(US).....CONNECTOR, AC OUTLET
502	▲.1-526-694-00	(AEP).....CONNECTOR, AC OUTLET
502	▲.1-526-751-00	(UK).....CONNECTOR, AC OUTLET
502	▲.1-526-892-00	(Canadian)...CONNECTOR, AC OUTLET
503	▲.1-533-131-00	HOLDER, FUSE
504	▲.1-551-479-00	(E).....CORD, POWER
504	▲.1-551-628-00	(US,Canadian)...CORD, POWER
504	▲.1-555-990-00	(AEP).....CORD, POWER
504	▲.1-556-560-00	(UK).....CORD, POWER
505	◆;1-608-170-00	PC BOARD, HEAD TRANSLATION
506	◆;1-608-268-00	PC BOARD, ERASE HEAD
507	◆;1-609-542-00	PC BOARD, CONTROL SW
508	◆;1-609-543-00	PC BOARD, FL
509	◆;1-609-544-00	PC BOARD, TRANSLATION
510	◆;1-609-545-00	PC BOARD, DOLBY SWITCH
511	◆;1-609-546-00	PC BOARD, TAPE SWITCH
512	◆;1-609-547-00	PC BOARD, PHOTO
513	◆;1-609-548-00	PC BOARD, PLAYBACK
514	◆;1-609-549-00	PC BOARD, RECORD
515	◆;1-609-550-00	PC BOARD, REC VOL
516	◆;1-609-551-00	PC BOARD, JACK
517	◆;1-609-552-00	PC BOARD, SYSTEM CONTROL
518	◆;1-609-553-00	PC BOARD, 9P REMOTE CONTROL
519	◆;1-609-554-00	PC BOARD, TIMER SW
520	◆;1-609-555-00	PC BOARD, 5P REMOTE CONTROL
521	◆;1-609-556-00	PC BOARD, TRANSISTOR (A)
522	◆;1-609-741-00	PC BOARD, TRANSISTOR (B)
523	◆;1-610-222-00	PC BOARD, ISS
524	◆;A-2056-194-A	MOUNTED PCB, AUDIO
525	◆;A-2096-010-A	MOUNTED PCB, FL
526	◆;1-609-872-00	(AEP)...PC BOARD, FUSE
C101	1-123-354-00	ELECT 3.3MF 20% 50V
C102	1-123-356-00	ELECT 10MF 20% 16V
C103	1-161-321-00	CERAMIC 680PF 10% 50V
C104	1-161-271-00	CERAMIC 100PF 5% 50V
C105	1-107-165-00	MICA 56PF 5% 500V
C106	1-161-322-00	CERAMIC 820PF 10% 50V
C107	1-107-167-00	MICA 75PF 5% 500V
C108	1-130-305-00	FILM 0.022MF 5% 100V
C109	1-123-353-00	ELECT 2.2MF 20% 50V
C110	1-108-571-00	MYLAR 0.0047MF 5% 50V
C111	1-161-316-00	CERAMIC 270PF 10% 50V
C112	1-123-319-00	ELECT 47MF 20% 16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C113	1-123-319-00	ELECT 47MF 20% 16V
C114	1-123-353-00	ELECT 2.2MF 20% 50V
C115	1-130-630-00	FILM 0.068MF 5% 50V
C116	1-130-635-00	FILM 0.18MF 5% 50V
C117	1-130-634-00	FILM 0.15MF 5% 50V
C118	1-130-632-00	FILM 9.1MF 5% 50V
C119	1-130-621-00	FILM 0.012MF 5% 50V
C120	1-130-633-00	FILM 0.12MF 5% 50V
C121	1-130-632-00	FILM 0.1MF 5% 50V
C122	1-108-559-00	MYLAR 0.0015MF 5% 50V
C123	1-123-356-00	ELECT 10MF 20% 25V
C124	1-130-631-00	FILM 0.082MF 5% 50V
C125	1-108-575-00	MYLAR 0.0068MF 5% 50V
C126	1-130-628-00	FILM 0.047MF 5% 50V
C127	1-130-629-00	FILM 0.056MF 5% 50V
C128	1-108-570-00	MYLAR 0.0043MF 5% 50V
C129	1-123-369-00	ELECT 4.7MF 20% 50V
C130	1-123-319-00	ELECT 47MF 20% 16V
C131	1-123-319-00	ELECT 47MF 20% 16V
C132	1-123-356-00	ELECT 10MF 20% 16V
C133	1-130-634-00	FILM 0.15MF 5% 50V
C134	1-130-628-00	FILM 0.047MF 5% 50V
C135	1-130-625-00	FILM 0.027MF 5% 50V
C136	1-130-633-00	FILM 0.12MF 5% 50V
C137	1-123-356-00	ELECT 10MF 20% 25V
C138	1-130-631-00	FILM 0.082MF 5% 50V
C139	1-108-575-00	MYLAR 0.0068MF 5% 50V
C140	1-130-622-00	FILM 0.015MF 5% 50V
C141	1-130-623-00	FILM 0.018MF 5% 50V
C142	1-123-354-00	ELECT 3.3MF 20% 50V
C143	1-123-353-00	ELECT 2.2MF 20% 50V
C144	1-123-369-00	ELECT 4.7MF 20% 50V
C145	1-123-319-00	ELECT 47MF 20% 16V
C146	1-130-621-00	FILM 0.012MF 5% 50V
C147	1-108-565-00	MYLAR 0.0027MF 5% 50V
C148	1-130-627-00	FILM 0.039MF 5% 50V
C149	1-108-563-00	MYLAR 0.0022MF 5% 50V
C150	1-108-555-00	MYLAR 0.001MF 5% 50V
C151	1-130-627-00	FILM 0.039MF 5% 50V
C152	1-108-571-00	MYLAR 0.0047MF 5% 50V
C153	1-130-627-00	FILM 0.039MF 5% 50V
C154	1-141-225-00	CAP, TUNING, TRIMAR
C155	1-161-271-00	CERAMIC 100PF 5% 50V
C156	1-123-307-00	ELECT 100MF 20% 10V
C157	1-123-307-00	ELECT 100MF 20% 10V

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "◆" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (▲-▲▲▲-▲▲▲-XX or ▲-▲▲▲-▲▲▲-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

F : nonflammable

COILS

- MMH : mH, μ H : μ H

NOTE:

- The component identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

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

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C205	1-107-165-00	MICA	56PF	5%	500V
C207	1-107-167-00	MICA	75PF	5%	500V
C208	1-130-305-00	FILM	0.022MF	5%	100V
C215	1-130-630-00	FILM	0.068MF	5%	50V
C217	1-130-634-00	FILM	0.15MF	5%	50V
C218	1-130-632-00	FILM	0.1MF	5%	50V
C219	1-130-621-00	FILM	0.012MF	5%	50V
C221	1-130-632-00	FILM	0.1MF	5%	50V
C226	1-130-628-00	FILM	0.047MF	5%	50V
C227	1-130-629-00	FILM	0.056MF	5%	50V
C233	1-130-634-00	FILM	0.15MF	5%	50V
C234	1-130-628-00	FILM	0.047MF	5%	50V
C235	1-130-625-00	FILM	0.027MF	5%	50V
C241	1-130-623-00	FILM	0.018MF	5%	50V
C246	1-130-621-00	FILM	0.012MF	5%	50V
C248	1-130-627-00	FILM	0.039MF	5%	50V
C251	1-130-627-00	FILM	0.039MF	5%	50V
C253	1-130-627-00	FILM	0.039MF	5%	50V
C254	1-141-225-00	CAP, TUNING, TRIMAR			
C503	1-123-356-00	ELECT	10MF	20%	16V
C504	1-123-308-00	ELECT	220MF	20%	10V
C505	1-123-308-00	ELECT	220MF	20%	10V
C506	1-123-354-00	ELECT	3.3MF	20%	50V
C507	1-123-714-00	FILM	0.01MF	10%	630V
C508	1-130-295-00	FILM	0.0082MF	5%	100V
C509	1-130-291-00	FILM	0.0056MF	5%	100V
C510	1-130-291-00	FILM	0.0056MF	5%	100V
C511	1-123-353-00	ELECT	2.2MF	20%	50V
C512	1-123-351-00	ELECT	0.47MF	20%	50V
C513	1-130-620-00	FILM	0.01MF	5%	50V
C514	1-123-369-00	ELECT	4.7MF	20%	50V
C515	1-123-351-00	ELECT	0.47MF	20%	50V
C516	1-123-321-00	ELECT	220MF	20%	16V
C517	1-123-321-00	ELECT	220MF	20%	16V
C518	1-123-320-00	ELECT	100MF	20%	16V
C519	1-123-320-00	ELECT	100MF	20%	16V
C520	1-123-337-00	ELECT	1000MF	20%	25V
C521	1-123-337-00	ELECT	1000MF	20%	25V
C522	1-123-369-00	ELECT	4.7MF	20%	50V
C701	1-130-632-00	FILM	0.1MF	5%	50V
C702	1-123-306-00	ELECT	47MF	20%	10V
C703	1-123-353-00	ELECT	2.2MF	20%	50V
C704	1-161-283-00	CERAMIC	22PF	5%	50V
C705	1-161-283-00	CERAMIC	22PF	5%	50V
C706	1-123-351-00	ELECT	0.47MF	20%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C707	1-123-351-00	ELECT	0.47MF	20%	50V
C708	1-123-351-00	ELECT	0.47MF	20%	50V
C709	1-123-351-00	ELECT	0.47MF	20%	50V
C710	1-123-351-00	ELECT	0.47MF	20%	50V
C711	1-123-351-00	ELECT	0.47MF	20%	50V
C712	1-123-351-00	ELECT	0.47MF	20%	50V
C713	1-123-351-00	ELECT	0.47MF	20%	50V
C714	1-161-045-00	CERAMIC	0.0033MF	20%	50V
C715	1-161-045-00	CERAMIC	0.0033MF	20%	50V
C716	1-123-319-00	ELECT	47MF	20%	16V
C717	1-123-295-00	ELECT	100MF	20%	6.3V
C718	1-123-333-00	ELECT	100MF	20%	25V
C719	1-161-379-00	CERAMIC	0.01MF	20%	25V
C720	1-161-379-00	CERAMIC	0.01MF	20%	25V
C721	1-130-625-00	FILM	0.027MF	5%	50V
C722	1-130-625-00	FILM	0.027MF	5%	50V
C723	1-123-353-00	ELECT	2.2MF	20%	50V
C724	1-161-379-00	CERAMIC	0.01MF	20%	25V
C725	1-161-379-00	CERAMIC	0.01MF	20%	25V
C726	1-123-351-00	ELECT	0.47MF	20%	50V
C727	1-123-298-00	ELECT	470MF	20%	6.3V
C728	1-131-369-00	TANTALUM	4.7MF	20%	16V
C729	1-123-353-00	ELECT	2.2MF	20%	50V
C730	1-123-296-00	ELECT	220MF	20%	6.3V
C731	1-123-319-00	ELECT	47MF	20%	16V
C732	1-123-319-00	ELECT	47MF	20%	16V
C733	1-123-353-00	ELECT	2.2MF	20%	50V
C734	1-123-380-00	ELECT	1MF	20%	50V
C735	1-123-307-00	ELECT	100MF	20%	10V
C736	1-123-321-00	ELECT	220MF	20%	16V
C737	1-123-356-00	ELECT	10MF	20%	16V
C738	1-123-349-00	ELECT	1000MF	20%	35V
C739	1-123-325-00	ELECT	2200MF	20%	16V
C740	1-123-328-00	ELECT	4.7MF	20%	25V
C741	1-131-347-00	TANTALUM	1MF	20%	35V
C742	1-123-295-00	ELECT	100MF	20%	6.3V
C801	1-123-353-00	ELECT	2.2MF	20%	50V
C802	1-123-353-00	ELECT	2.2MF	20%	50V
C803	1-123-353-00	ELECT	2.2MF	20%	50V
C804	1-123-353-00	ELECT	2.2MF	20%	50V
C805	1-130-626-00	FILM	0.033MF	5%	50V
C806	1-123-332-00	ELECT	47MF	20%	25V
C1000	1-161-749-00	(US,Canadian)..CAP, CERAMIC 10000PF 125V			
C1000	1-161-744-00	(AEP,UK,E).....CAP, CERAMIC 10000PF 400V			

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- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
MF:μF, PF:μuF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F: nonflammable

COILS

- MMH: mH, UH: μH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CNJ501	1-507-761-00	JACK, PIN 4P
●CNJ701	1-560-263-00	CONNECTOR PIN 9P
CNJ702	1-561-965-00	SOCKET 5P
CNP1	1-560-061-31	PIN, CONNECTOR 3P
CNP2	1-560-062-41	PIN, CONNECTOR 4P
CNP3	1-560-060-41	PIN, CONNECTOR 2P
CNP4	1-560-064-00	PIN, CONNECTOR 6P
CNP5	1-560-060-00	PIN, CONNECTOR 2P
CNP6	1-560-060-00	PIN, CONNECTOR 2P
CNP7	1-560-062-41	PIN, CONNECTOR 4P
CNP8	1-560-062-00	PIN, CONNECTOR 4P
CNP9	1-560-062-31	PIN, CONNECTOR 4P
●CNP502	1-560-062-41	PIN, CONNECTOR 4P
●CNP503	1-560-061-41	PIN, CONNECTOR 3P
●CNP701	1-560-064-21	PIN, CONNECTOR 6P
●CNP702	1-560-064-41	PIN, CONNECTOR 6P
●CNP703	1-560-060-00	PIN, CONNECTOR 2P
●CNP704	1-560-063-00	PIN, CONNECTOR 5P
●CNP705	1-560-062-00	PIN, CONNECTOR 4P
●CNP706	1-560-063-00	PIN, CONNECTOR 5P
●CNP707	1-560-061-41	PIN, CONNECTOR 3P
●CNP708	1-560-061-21	PIN, CONNECTOR 3P
●CNP709	1-560-064-00	PIN, CONNECTOR 6P
●CNP710	1-560-060-31	PIN, CONNECTOR 2P
●CNP711	1-560-060-00	PIN, CONNECTOR 2P
●CNP712	1-560-063-21	PIN, CONNECTOR 5P
●CNP713	1-560-064-31	PIN, CONNECTOR 6P
●CNP714	1-560-060-41	PIN, CONNECTOR 2P
●CNP715	1-560-060-21	PIN, CONNECTOR 2P
●CNP716	1-560-061-00	PIN, CONNECTOR 3P
●CNP717	1-560-061-00	PIN, CONNECTOR 3P
D501	8-719-815-55	DIODE 1S1555
D502	8-719-815-55	DIODE 1S1555
D503	8-719-815-55	DIODE 1S1555
D504	8-719-815-55	DIODE 1S1555
D505	8-719-815-55	DIODE 1S1555
D506	8-719-815-55	DIODE 1S1555
D507	8-719-815-55	DIODE 1S1555
D508	8-719-815-55	DIODE 1S1555
D509	8-719-910-64	DIODE HZ6B1L
D510	8-719-910-64	DIODE HZ6B1L
D511	8-719-200-02	DIODE 10E-2
D512	8-719-200-02	DIODE 10E-2
D513	8-719-200-02	DIODE 10E-2
D514	8-719-200-02	DIODE 10E-2
D515	8-719-815-55	DIODE 1S1555

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D616	8-719-815-55	DIODE 1S1555
D701	8-719-815-55	DIODE 1S1555
D702	8-719-815-55	DIODE 1S1555
D703	8-719-815-55	DIODE 1S1555
D704	8-719-815-55	DIODE 1S1555
D705	8-719-815-55	DIODE 1S1555
D706	8-719-200-02	DIODE 10E-2
D707	8-719-815-55	DIODE 1S1555
D708	8-719-815-55	DIODE 1S1555
D709	8-719-990-92	DIODE HZ9A2L
D710	8-719-815-55	DIODE 1S1555
D712	8-719-815-55	DIODE 1S1555
D713	8-719-200-02	DIODE 10E-2
D714	8-719-200-02	DIODE 10E-2
D715	8-719-200-02	DIODE 10E-2
D716	8-719-200-02	DIODE 10E-2
D717	8-719-931-07	DIODE EQB01-07
D718	8-719-910-15	DIODE HZ11R2L
D719	8-719-910-68	DIODE HZ6C2L
D720	8-719-910-43	DIODE HZ24-3L
D721	8-719-903-49	DIODE SLH-54PC3
D722	8-719-903-49	DIODE SLH-54PC3
D723	8-719-904-08	DIODE SLH-54VC3
D724	8-719-904-07	DIODE SLH-54DC3
D726	8-719-910-29	DIODE HZ12C3L
D727	8-719-200-02	DIODE 10E-2
D728	8-719-815-55	DIODE 1S1555
D729	8-719-815-55	DIODE 1S1555
D730	8-719-101-44	DIODE RD4.3EL3
D801	8-719-911-19	DIODE 1SS119
D802	8-719-911-19	DIODE 1SS119
D803	8-719-911-19	DIODE 1SS119
D804	8-719-911-19	DIODE 1SS119
D805	8-719-910-66	DIODE HZ6B3L
D806	8-719-904-14	DIODE PY5724K
D807	8-719-904-14	DIODE PY5724K
D808	8-719-904-14	DIODE PY5724K
D809	8-719-904-14	DIODE PY5724K
D811	8-719-903-49	DIODE SLH-54PC3
D812	8-719-903-49	DIODE SLH-54PC3
F1	1-532-536-00	(US,Canadian)...FUSE, GLASS-TUBE
F1	1-532-078-00	(AEP,UK,E).....FUSE, TIME-LAG
F2	1-532-536-00	(US,Canadian)...FUSE, GLASS-TUBE
F2	1-532-078-00	(AEP,UK,E).....FUSE, TIME-LAG
F3	1-532-078-00	(AEP).....FUSE, TIME-LAG

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CAPACITORS:
 All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF:μF, PF:μuF.
 RESISTORS:
 All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
 F : nonflammable
 COILS:
 MMH : mH, UH : μH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
FLT	1-519-284-00	INDICATOR TUBE, FLUORESCENT
HE	8-825-535-20	HEAD, ERASE (ES237-36)
HE	8-825-548-10	HEAD, R/P (PA242-3602)
IC101	8-759-300-76	IC CX-174A-2
IC102	8-759-300-76	IC CX-174A-2
IC201	8-759-300-76	IC CX-174A-2
IC202	8-759-300-76	IC CX-174A-2
IC501	8-759-700-39	IC NJM4562S-D
IC502	8-759-600-02	IC M5218L
IC701	8-755-640-30	IC CX564-03
IC702	8-759-600-54	IC M50783SP
IC703	8-759-812-90	IC LB1290
IC704	8-759-800-57	IC LB1262
IC705	8-759-240-50	IC TC4050BP
IC706	8-759-240-50	IC TC4050BP
IC707	8-759-700-46	IC CX10034
IC708	8-759-962-08	IC BA6208
IC801	8-759-905-48	IC MSL9512RS
IC802	8-759-906-02	IC BA6146
IC803	8-759-906-02	IC BA6146
L101	1-408-262-00	MICRO INDUCTOR 27MMH
L102	1-408-255-00	MICRO INDUCTOR 6.8MMH
L103	1-408-260-00	MICRO INDUCTOR 18MMH
L104	1-408-259-00	MICRO INDUCTOR 15MMH
L201	1-408-262-00	MICRO INDUCTOR 27MMH
L202	1-408-255-00	MICRO INDUCTOR 6.8MMH
L203	1-408-260-00	MICRO INDUCTOR 18MMH
L204	1-408-259-00	MICRO INDUCTOR 15MMH
L501	1-407-177-XX	MICRO INDUCTOR 470UH
L701	1-407-169-XX	MICRO INDUCTOR 100UH
L702	1-407-169-XX	MICRO INDUCTOR 100UH
L703	1-407-169-XX	MICRO INDUCTOR 100UH
L704	1-407-169-XX	MICRO INDUCTOR 100UH
L705	1-407-169-XX	MICRO INDUCTOR 100UH
L706	1-407-169-XX	MICRO INDUCTOR 100UH
L707	1-407-169-XX	MICRO INDUCTOR 100UH
L708	1-407-169-XX	MICRO INDUCTOR 100UH
L709	1-407-169-XX	MICRO INDUCTOR 100UH
LPF101	1-231-388-00	FILTER, LOWPASS
LPF201	1-231-388-00	FILTER, LOWPASS
M1	X-3307-340-0	MOTOR (H) ASSY
M2	X-3312-903-0	MOTOR (L) ASSY
PL901	1-518-259-00	LAMP, PILOT

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
PM1	1-454-316-00	SOLENOID, PLUNGER
PM2	1-454-316-00	SOLENOID, PLUNGER
Q101	8-729-334-58	TRANSISTOR 2SC1345
Q102	8-729-663-48	TRANSISTOR 2SC1364-8
Q103	8-729-663-48	TRANSISTOR 2SC1364-8
Q104	8-729-663-48	TRANSISTOR 2SC1364-8
Q105	8-729-663-48	TRANSISTOR 2SC1364-8
Q106	8-729-663-48	TRANSISTOR 2SC1364-8
Q107	8-729-663-48	TRANSISTOR 2SC1364-8
Q108	8-729-663-48	TRANSISTOR 2SC1364-8
Q109	8-729-663-48	TRANSISTOR 2SC1364-8
Q110	8-729-663-48	TRANSISTOR 2SC1364-8
Q111	8-729-663-48	TRANSISTOR 2SC1364-8
Q112	8-729-663-48	TRANSISTOR 2SC1364-8
Q113	8-729-663-48	TRANSISTOR 2SC1364-8
Q114	8-729-663-48	TRANSISTOR 2SC1364-8
Q115	8-729-663-48	TRANSISTOR 2SC1364-8
Q116	8-729-663-48	TRANSISTOR 2SC1364-8
Q117	8-729-663-48	TRANSISTOR 2SC1364-8
Q118	8-729-100-13	TRANSISTOR 2SC2001-K2
Q201	8-729-334-58	TRANSISTOR 2SC1345-E
Q202	8-729-663-48	TRANSISTOR 2SC1364-8
Q203	8-729-663-48	TRANSISTOR 2SC1364-8
Q204	8-729-663-48	TRANSISTOR 2SC1364-8
Q205	8-729-663-48	TRANSISTOR 2SC1364-8
Q206	8-729-663-48	TRANSISTOR 2SC1364-8
Q207	8-729-663-48	TRANSISTOR 2SC1364-8
Q208	8-729-663-48	TRANSISTOR 2SC1364-8
Q209	8-729-663-48	TRANSISTOR 2SC1364-8
Q210	8-729-663-48	TRANSISTOR 2SC1364-8
Q211	8-729-663-48	TRANSISTOR 2SC1364-8
Q212	8-729-663-48	TRANSISTOR 2SC1364-8
Q213	8-729-663-48	TRANSISTOR 2SC1364-8
Q214	8-729-663-48	TRANSISTOR 2SC1364-8
Q215	8-729-663-48	TRANSISTOR 2SC1364-8
Q216	8-729-663-48	TRANSISTOR 2SC1364-8
Q217	8-729-663-48	TRANSISTOR 2SC1364-8
Q218	8-729-100-13	TRANSISTOR 2SC2001-K2
Q501	8-729-663-48	TRANSISTOR 2SC1364-8
Q502	8-729-602-67	TRANSISTOR 2SA1026-7
Q503	8-729-663-48	TRANSISTOR 2SC1364-8
Q504	8-729-663-48	TRANSISTOR 2SC1364-8
Q505	8-729-663-47	TRANSISTOR 2SC1364
Q506	8-729-663-47	TRANSISTOR 2SC1364

CAPACITORS:
 All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF:μF, PF:μuF.
 RESISTORS:
 All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
 F : nonflammable
 COILS:
 MMH : mH, UH : μH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q507	8-729-663-48	TRANSISTOR 2SC1364-8
Q508	8-729-602-67	TRANSISTOR 2SA1026-7
Q509	8-729-663-48	TRANSISTOR 2SC1364-8
Q510	8-729-663-48	TRANSISTOR 2SC1364-8
Q511	8-729-602-67	TRANSISTOR 2SA1026-7
Q512	8-729-141-42	TRANSISTOR 2SD414
Q513	8-729-315-22	TRANSISTOR 2SD1152
Q514	8-729-315-22	TRANSISTOR 2SD1152
Q515	8-729-203-02	TRANSISTOR 2SK30A-0
Q516	8-729-384-48	TRANSISTOR 2SA844
Q517	8-729-384-48	TRANSISTOR 2SA844
Q518	8-729-154-83	TRANSISTOR 2SB548
Q519	8-729-203-02	TRANSISTOR 2SK30A-0
Q701	8-729-602-67	TRANSISTOR 2SA1026-7
Q702	8-729-602-67	TRANSISTOR 2SA1026-7
Q703	8-729-663-47	TRANSISTOR 2SC1364
Q704	8-729-663-47	TRANSISTOR 2SC1364
Q705	8-729-502-67	TRANSISTOR 2SA1026-7
Q706	8-729-177-43	TRANSISTOR 2SD774
Q707	8-729-663-47	TRANSISTOR 2SC1364
Q708	8-729-201-78	TRANSISTOR 2SD1406
Q709	8-729-602-67	TRANSISTOR 2SA1026-7
Q711	8-729-663-47	TRANSISTOR 2SC1364
Q712	8-729-180-92	TRANSISTOR 2SD809-K
Q713	8-729-602-67	TRANSISTOR 2SA1026-7
Q714	8-729-663-47	TRANSISTOR 2SC1364
Q715	8-729-663-47	TRANSISTOR 2SC1364
Q717	8-729-602-67	TRANSISTOR 2SA1026-7
Q718	8-729-602-67	TRANSISTOR 2SA1026-7
Q719	8-729-602-67	TRANSISTOR 2SA1026-7
Q720	8-729-602-67	TRANSISTOR 2SA1026-7
Q901	8-729-110-21	TRANSISTOR PH102-K
Q902	8-729-110-21	TRANSISTOR PH102-K
R005	1-246-489-00	CARBON 4.7K 5% 1/4W
R006	1-246-489-00	CARBON 4.7K 5% 1/4W
R101	1-246-509-00	CARBON 33K 5% 1/4W
R102	1-246-473-00	CARBON 1K 5% 1/4W
R103	1-246-529-00	CARBON 220K 5% 1/4W
R104	1-246-489-00	CARBON 4.7K 5% 1/4W
R105	1-246-473-00	CARBON 1K 5% 1/4W
R106	1-246-485-00	CARBON 3.3K 5% 1/4W
R107	1-246-465-00	CARBON 470 5% 1/4W
R108	1-246-493-00	CARBON 6.8K 5% 1/4W
R109	1-246-473-00	CARBON 1K 5% 1/4W
R110	1-246-506-00	CARBON 24K 5% 1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R111	1-214-705-00	METAL	150	1%	1/4W
R112	1-246-524-00	CARBON	130K	5%	1/4W
R113	1-214-746-00	METAL	5.1K	1%	1/4W
R114	1-246-497-00	CARBON	10K	5%	1/4W
R116	1-246-499-00	CARBON	12K	5%	1/4W
R117	1-246-503-00	CARBON	18K	5%	1/4W
R118	1-246-529-00	CARBON	220K	5%	1/4W
R119	1-246-473-00	CARBON	1K	5%	1/4W
R120	1-247-903-00	CARBON	1M	5%	1/6W
R121	1-246-501-00	CARBON	15K	5%	1/4W
R122	1-246-501-00	CARBON	15K	5%	1/4W
R123	1-246-501-00	CARBON	15K	5%	1/4W
R124	1-247-859-00	CARBON	15K	5%	1/6W
R125	1-246-545-00	CARBON	1M	5%	1/4W
R126	1-247-888-00	CARBON	240K	5%	1/6W
R127	1-247-888-00	CARBON	240K	5%	1/6W
R128	1-247-865-00	CARBON	27K	5%	1/6W
R129	1-247-857-00	CARBON	12K	5%	1/6W
R130	1-247-859-00	CARBON	15K	5%	1/6W
R131	1-246-492-00	CARBON	6.2K	5%	1/4W
R132	1-246-436-00	CARBON	30	5%	1/4W
R133	1-246-502-00	CARBON	16K	5%	1/4W
R134	1-247-803-00	CARBON	68	5%	1/6W
R135	1-246-545-00	CARBON	1M	5%	1/4W
R136	1-247-886-00	CARBON	200K	5%	1/6W
R137	1-247-839-00	CARBON	2.2K	5%	1/6W
R138	1-246-501-00	CARBON	15K	5%	1/4W
R139	1-246-545-00	CARBON	1M	5%	1/4W
R140	1-246-509-00	CARBON	33K	5%	1/4W
R141	1-246-508-00	CARBON	30K	5%	1/4W
R142	1-246-475-00	CARBON	1.2K	5%	1/4W
R143	1-246-455-00	CARBON	180	5%	1/4W
R144	1-246-453-00	CARBON	150	5%	1/4W
R145	1-246-459-00	CARBON	270	5%	1/4W
R146	1-246-533-00	CARBON	330K	5%	1/4W
R147	1-214-737-00	METAL	2.2K	1%	1/4W
R148	1-247-859-00	CARBON	15K	5%	1/6W
R149	1-246-504-00	CARBON	20K	5%	1/4W
R150	1-246-485-00	CARBON	3.3K	5%	1/4W
R151	1-246-497-00	CARBON	10K	5%	1/4W
R152	1-246-485-00	CARBON	3.3K	5%	1/4W
R153	1-246-529-00	CARBON	220K	5%	1/4W
R154	1-247-888-00	CARBON	240K	5%	1/6W
R155	1-247-888-00	CARBON	240K	5%	1/6W
R156	1-247-821-00	CARBON	390	5%	1/6W

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- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MH : mH, UH : μH

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R157	1-247-871-00	CARBON	47K	5%	1/6W
R158	1-214-966-00	METAL	1.2M	1%	1/4W
R159	1-246-490-00	CARBON	5.1K	5%	1/4W
R160	1-246-502-00	CARBON	16K	5%	1/4W
R161	1-246-475-00	CARBON	1.2K	5%	1/4W
R162	1-246-467-00	CARBON	560	5%	1/4W
R163	1-246-510-00	CARBON	36K	5%	1/4W
R164	1-246-473-00	CARBON	1K	5%	1/4W
R165	1-246-477-00	CARBON	1.5K	5%	1/4W
R166	1-246-484-00	CARBON	3K	5%	1/4W
R167	1-246-533-00	CARBON	330K	5%	1/4W
R168	1-246-511-00	CARBON	39K	5%	1/4W
R169	1-246-490-00	CARBON	5.1K	5%	1/4W
R170	1-247-830-00	CARBON	910	5%	1/6W
R171	1-246-457-00	CARBON	220	5%	1/4W
R172	1-246-501-00	CARBON	15K	5%	1/4W
R173	1-246-507-00	CARBON	27K	5%	1/4W
R174	1-246-493-00	CARBON	6.8K	5%	1/4W
R175	1-246-473-00	CARBON	1K	5%	1/4W
R176	1-246-529-00	CARBON	220K	5%	1/4W
R177	1-246-473-00	CARBON	1K	5%	1/4W
R178	1-214-737-00	METAL	2.2K	1%	1/4W
R179	1-247-839-00	CARBON	2.2K	5%	1/6W
R180	1-246-497-00	CARBON	10K	5%	1/4W
R181	1-246-509-00	CARBON	33K	5%	1/4W
R182	1-246-521-00	CARBON	100K	5%	1/4W
R183	1-246-521-00	CARBON	100K	5%	1/4W
R184	1-246-473-00	CARBON	1K	5%	1/4W
R185	1-246-519-00	CARBON	82K	5%	1/4W
R186	1-246-519-00	CARBON	82K	5%	1/4W
R187	1-247-871-00	CARBON	47K	5%	1/6W
R188	1-247-841-00	CARBON	2.7K	5%	1/6W
R189	1-247-807-00	CARBON	100	5%	1/6W
R190	1-247-855-00	CARBON	10K	5%	1/6W
R191	1-247-829-00	CARBON	820	5%	1/6W
R192	1-247-863-00	CARBON	22K	5%	1/6W
R193	1-247-848-00	CARBON	5.1K	5%	1/6W
R194	1-247-823-00	CARBON	470	5%	1/6W
R195	1-247-855-00	CARBON	10K	5%	1/6W
R196	1-247-833-00	CARBON	1.2K	5%	1/6W
R197	1-247-839-00	CARBON	2.2K	5%	1/6W
R198	1-247-826-00	CARBON	620	5%	1/6W
R199	1-247-848-00	CARBON	5.1K	5%	1/6W
R200	1-214-746-00	METAL	5.1K	1%	1/4W
R201	1-214-737-00	METAL	2.2K	1%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description				Ref.No.	P
R258	1-214-966-00	METAL	1.2M	1%	1/4W	R534	1
R278	1-214-737-00	METAL	2.2K	1%	1/4W	R535	1
R301	1-247-845-00	CARBON	3.9K	5%	1/6W	R536	1
R302	1-247-863-00	CARBON	22K	5%	1/6W	R537	1
R303	1-247-863-00	CARBON	22K	5%	1/6W	R538	1
R304	1-247-863-00	CARBON	22K	5%	1/6W	R539	1
R305	1-247-863-00	CARBON	22K	5%	1/6W	R540	1
R306	1-246-497-00	CARBON	10K	5%	1/4W	R541	1
R401	1-247-845-00	CARBON	3.9K	5%	1/6W	R555	△.1
R402	1-247-863-00	CARBON	22K	5%	1/6W	R556	△.1
R403	1-247-863-00	CARBON	22K	5%	1/6W	R557	1
R404	1-247-863-00	CARBON	22K	5%	1/6W	R558	1
R405	1-247-863-00	CARBON	22K	5%	1/6W	R701	1
R406	1-246-497-00	CARBON	10K	5%	1/4W	R702	1
R501	1-246-489-00	CARBON	4.7K	5%	1/4W	R703	1
R502	1-246-505-00	CARBON	22K	5%	1/4W	R704	1
R503	1-246-513-00	CARBON	47K	5%	1/4W	R705	1
R504	1-246-521-00	CARBON	100K	5%	1/4W	R706	1
R505	1-246-465-00	CARBON	470	5%	1/4W	R707	1
R506	1-246-465-00	CARBON	470	5%	1/4W	R708	1
R507	1-246-497-00	CARBON	10K	5%	1/4W	R709	1
R508	1-246-489-00	CARBON	4.7K	5%	1/4W	R710	1
R509	1-246-509-00	CARBON	33K	5%	1/4W	R711	1
R510	1-246-507-00	CARBON	27K	5%	1/4W	R712	1
R511	1-246-507-00	CARBON	27K	5%	1/4W	R713	1
R512	1-246-427-00	CARBON	12	5%	1/4W	R714	1
R513	△.1-217-531-00	FUSIBLE	47	5%	1/4W	R715	1
R514	1-246-497-00	CARBON	10K	5%	1/4W	R716	1
R515	1-246-513-00	CARBON	47K	5%	1/4W	R717	1
R516	1-246-495-00	CARBON	8.2K	5%	1/4W	R718	1
R517	1-246-497-00	CARBON	10K	5%	1/4W	R719	1
R518	1-246-489-00	CARBON	4.7K	5%	1/4W	R720	1
R521	1-246-505-00	CARBON	22K	5%	1/4W	R721	1
R522	1-246-513-00	CARBON	47K	5%	1/4W	R722	1
R523	1-246-449-00	CARBON	100	5%	1/4W	R723	1
R524	1-246-509-00	CARBON	33K	5%	1/4W	R724	1
R525	1-246-487-00	CARBON	3.9K	5%	1/4W	R725	1
R526	1-214-725-00	METAL	680	1%	1/4W	R726	1
R527	1-214-730-00	METAL	1.1K	1%	1/4W	R727	1
R528	1-214-730-00	METAL	1.1K	1%	1/4W	R728	1
R529	1-214-725-00	METAL	680	1%	1/4W	R729	1
R530	1-246-497-00	CARBON	10K	5%	1/4W	R730	1
R531	1-246-497-00	CARBON	10K	5%	1/4W	R731	1
R532	1-247-863-00	CARBON	22K	5%	1/6W	R732	1
R533	1-247-871-00	CARBON	47K	5%	1/6W	R733	1

CAPACITORS:

All capacitors are in pF. Common capacitors are omitted. Refer to the following lists for their part numbers.
MF: pF, PF: pF.

RESISTORS

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

F: nonflammable

COILS

MMH: mH, UH: uH

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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

NOTE:

Items with no description are not seldom required. Items marked "△" are seldom required when ordered. Some delay should be anticipated when ordering these items. Due to standard numbers (0-1000) may be different set.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R534	1-247-863-00	CARBON	22K	5%	1/6W
R535	1-246-487-00	CARBON	3.9K	5%	1/4W
R536	1-246-480-00	CARBON	2K	5%	1/4W
R537	1-246-485-00	CARBON	3.3K	5%	1/4W
R538	1-246-467-00	CARBON	560	5%	1/4W
R539	1-246-529-00	CARBON	220K	5%	1/4W
R540	1-246-497-00	CARBON	10K	5%	1/4W
R541	1-246-521-00	CARBON	100K	5%	1/4W
R555	1-212-849-00	FUSIBLE	4.7	5%	1/4W F
R556	1-212-849-00	FUSIBLE	4.7	5%	1/4W F
R557	1-246-471-00	CARBON	820	5%	1/4W
R558	1-246-471-00	CARBON	820	5%	1/4W
R701	1-246-521-00	CARBON	100K	5%	1/4W
R702	1-246-521-00	CARBON	100K	5%	1/4W
R703	1-246-497-00	CARBON	10K	5%	1/4W
R704	1-246-477-00	CARBON	1.5K	5%	1/4W
R705	1-247-871-00	CARBON	47K	5%	1/6W
R706	1-246-505-00	CARBON	22K	5%	1/4W
R707	1-246-505-00	CARBON	22K	5%	1/4W
R708	1-246-505-00	CARBON	22K	5%	1/4W
R709	1-246-505-00	CARBON	22K	5%	1/4W
R710	1-246-505-00	CARBON	22K	5%	1/4W
R711	1-246-505-00	CARBON	22K	5%	1/4W
R712	1-246-505-00	CARBON	22K	5%	1/4W
R713	1-246-505-00	CARBON	22K	5%	1/4W
R714	1-246-473-00	CARBON	1K	5%	1/4W
R715	1-246-473-00	CARBON	1K	5%	1/4W
R716	1-246-473-00	CARBON	1K	5%	1/4W
R717	1-246-473-00	CARBON	1K	5%	1/4W
R718	1-246-473-00	CARBON	1K	5%	1/4W
R719	1-246-473-00	CARBON	1K	5%	1/4W
R720	1-246-473-00	CARBON	1K	5%	1/4W
R721	1-246-473-00	CARBON	1K	5%	1/4W
R722	1-246-457-00	CARBON	220	5%	1/4W
R723	1-246-457-00	CARBON	220	5%	1/4W
R724	1-246-459-00	CARBON	270	5%	1/4W
R725	1-246-459-00	CARBON	270	5%	1/4W
R726	1-247-871-00	CARBON	47K	5%	1/6W
R727	1-247-863-00	CARBON	22K	5%	1/6W
R728	1-247-863-00	CARBON	22K	5%	1/6W
R729	1-247-871-00	CARBON	47K	5%	1/6W
R730	1-247-895-00	CARBON	470K	5%	1/6W
R731	1-246-537-00	CARBON	470K	5%	1/4W
R732	1-246-513-00	CARBON	47K	5%	1/4W
R733	1-246-513-00	CARBON	47K	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R734	1-246-497-00	CARBON	10K	5%	1/4W
R735	1-246-505-00	CARBON	22K	5%	1/4W
R736	1-244-867-00	CARBON	560	5%	1/2W
R738	1-246-475-00	CARBON	1.2K	5%	1/4W
R739	1-246-489-00	CARBON	4.7K	5%	1/4W
R740	1-246-497-00	CARBON	10K	5%	1/4W
R743	1-246-412-00	CARBON	3	5%	1/4W
R744	1-246-473-00	CARBON	1K	5%	1/4W
R745	1-246-489-00	CARBON	4.7K	5%	1/4W
R746	1-247-821-91	CARBON	390	5%	1/6W
R747	1-244-867-00	CARBON	560	5%	1/2W
R748	1-246-490-00	CARBON	5.1K	5%	1/4W
R749	1-246-505-00	CARBON	22K	5%	1/4W
R750	1-246-505-00	CARBON	22K	5%	1/4W
R751	1-246-521-00	CARBON	100K	5%	1/4W
R752	1-246-513-00	CARBON	47K	5%	1/4W
R753	1-247-863-00	CARBON	22K	5%	1/6W
R754	1-247-847-00	CARBON	4.7K	5%	1/6W
R755	1-246-477-00	CARBON	1.5K	5%	1/4W
R756	1-246-477-00	CARBON	1.5K	5%	1/4W
R757	1-246-505-00	CARBON	22K	5%	1/4W
R758	1-246-531-00	CARBON	270K	5%	1/4W
R759	1-246-449-00	CARBON	100	5%	1/4W
R760	1-246-497-00	CARBON	10K	5%	1/4W
R761	1-246-505-00	CARBON	22K	5%	1/4W
R762	1-246-512-00	CARBON	43K	5%	1/4W
R763	1-246-495-00	CARBON	8.2K	5%	1/4W
R764	1-246-473-00	CARBON	1K	5%	1/4W
R765	1-246-489-00	CARBON	4.7K	5%	1/4W
R766	1-246-513-00	CARBON	47K	5%	1/4W
R767	1-244-857-00	CARBON	220	5%	1/2W
R769	1-214-764-00	METAL	30K	1%	1/4W
R770	1-246-489-00	CARBON	4.7K	5%	1/4W
R771	1-246-505-00	CARBON	22K	5%	1/4W
R772	1-246-467-00	CARBON	560	5%	1/4W
R773	1-246-489-00	CARBON	4.7K	5%	1/4W
R774	1-246-439-00	CARBON	39	5%	1/4W
R775	1-244-882-00	CARBON	2.4K	5%	1/2W
R776	1-246-441-00	CARBON	47	5%	1/4W
R778	1-246-513-00	CARBON	47K	5%	1/4W
R801	1-247-883-00	CARBON	150K	5%	1/6W
R802	1-247-855-00	CARBON	10K	5%	1/6W
R803	1-247-883-00	CARBON	150K	5%	1/6W
R804	1-247-855-00	CARBON	10K	5%	1/6W
R805	1-247-855-00	CARBON	10K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R806	1-247-813-00	CARBON	180	5%	1/6W
R807	1-247-825-00	CARBON	560	5%	1/6W
R808	1-246-451-00	CARBON	120	5%	1/4W
RV101	1-226-236-00	RES, ADJ, CARBON 10K			
RV102	1-226-237-00	RES, ADJ, CARBON 20K			
RV103	1-226-236-00	RES, ADJ, CARBON 10K			
RV201	1-226-236-00	RES, ADJ, CARBON 10K			
RV202	1-226-237-00	RES, ADJ, CARBON 20K			
RV203	1-226-236-00	RES, ADJ, CARBON 10K			
RV501	1-226-991-00	RES, VAR, SLIDE 20K/20K			
RY501	1-515-473-00	RELAY			
S1	1-554-410-00	SWITCH, LEAF			
S2	1-554-411-00	SWITCH, PUSH (1 KEY)			
S3	1-554-422-00	SWITCH, PUSH (1 KEY)			
S4	1-554-411-00	SWITCH, PUSH (1 KEY)			
S5	1-554-411-00	SWITCH, PUSH (1 KEY)			
S501	1-554-423-00	SWITCH, SLIDE			
S502	1-553-802-00	SWITCH, SLIDE			
S701	1-554-303-00	SWITCH, KEY BOARD			
S702	1-554-303-00	SWITCH, KEY BOARD			
S703	1-554-303-00	SWITCH, KEY BOARD			
S704	1-554-303-00	SWITCH, KEY BOARD			
S705	1-554-303-00	SWITCH, KEY BOARD			
S706	1-554-303-00	SWITCH, KEY BOARD			
S707	1-554-303-00	SWITCH, KEY BOARD			
S708	1-554-303-00	SWITCH, KEY BOARD			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S710	1-554-208-00	SWITCH, SLIDE
S711	1-554-078-00	SWITCH, SLIDE
S801	1-554-303-00	SWITCH, KEY BOARD
S802	1-554-303-00	SWITCH, KEY BOARD
S803	1-554-303-00	SWITCH, KEY BOARD
S804	1-554-303-00	SWITCH, KEY BOARD
S805	1-554-303-00	SWITCH, KEY BOARD
S806	1-554-303-00	SWITCH, KEY BOARD
S807	1-554-424-00	SWITCH, PUSH
AS1000	1-553-319-00	(US,Canadian)...SWITCH, PUSH (AC POWER)
AS1000	1-553-318-00	(AEP,E).....SWITCH, PUSH (AC POWER)
AS1000	1-553-447-00	(UK).....SWITCH, PUSH (AC POWER)
T501	1-433-257-00	TRANSFORMER, BIAS OSCILLATOR
AT1000	1-447-585-00	(US,Canadian)...TRANSFORMER, POWER
AT1000	1-447-584-00	(AEP,UK).....TRANSFORMER, POWER
AT1000	1-447-588-00	(E).....TRANSFORMER, POWER
TH701	1-800-194-11	THERMISTORC/DIRECT-HEATING DISK
TH702	1-800-194-11	THERMISTORC/DIRECT-HEATING DISK
W2	1-535-115-00	TERMINAL
W3	1-535-116-00	TERMINAL
W4	1-535-117-00	TERMINAL
W5	1-535-115-00	TERMINAL
X701	1-527-822-00	OSCILLATOR, CERAMIC
X702	1-527-973-00	OSCILLATOR, CERAMIC

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (L-222-111-XX or L-222-111-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in uF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:uF, PF:uF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

F : nonflammable

COILS

- MMH : mH, UH : uH

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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

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Sony Corporation
Consumer Products Group
Technical Support Dept.