



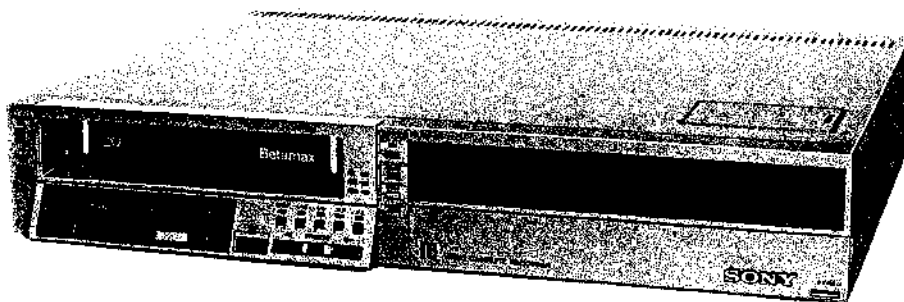
V13701

SL-2500

AMT-312

SERVICE MANUAL

US, Canadian and E Model



77

Beta II RECORD
Beta II/I PLAYBACK

711D SYSTEM

March, 1982

SPECIFICATIONS

Also refer to OPERATION MANUAL
and ADJUSTMENT MANUAL.

System

Video recording system Rotary two-head helical scanning
 Video signal EIA standard, NTSC color
 Usable cassettes Cassettes having the mark **B**
 Tape speed **Beta III**: 1.33 cm/sec.
Beta II: 2.0 cm/sec.
Beta I: 4.0 cm/sec. (only for playback)

Maximum recording time

Beta III: 5 hours
Beta II: 3 hours 20 min.
 (with Sony L-830 cassette)

Fast forward and rewind time

Under 3 1/2 min. (L-500)

Horizontal resolution

Color: More than 240 lines

Video S/N

Better than 45 dB

Audio frequency response

Beta III: 50-7,000 Hz

Beta II: 50-10,000 Hz

Audio S/N

Better than 40 dB

Tuner section

Video signal

EIA standard, NTSC color

Channel coverage

VHF channels 2-13

UHF channels 14-83

(up to 14 channels may be pre-

selected)

Antenna input

VHF: 75-ohm F-type connector

UHF: 300-ohm terminals

(Antenna signal splitter incorporated)

Antenna output

VHF: 75-ohm F-type connector

UHF: 300-ohm terminals

Inputs and outputs

Video input

Phono jack.....1
1V p-p ± 0.5 V p-p, 75 ohms, unbalanced, sync negative

Video output

Phono jack.....1
1V p-p ± 0.5 V p-p, 75 ohms, unbalanced, sync negative

Audio input

Minijack.....1
-10 dBs, (0.44 V rms)
(0 dBs = 0.775 Vrms) 47 kilohms

Audio output

Minijack.....1
-5 dBs (0.4 V rms, at 400 Hz,
100 kilohms load)

Less than 600 ohms

Camera connector

14-pin K-type connector

Video in: 1 V p-p ± 0.5 V p-p

75 ohms unbalanced,

sync negative

Video out: 1 V p-p ± 0.5 V p-p

75 ohms unbalanced,

sync negative

Audio in: -20 dBs

Audio out: -5 dBs (at load impedance

100 kilohms)

less than 10 kilohms

Power supply output: 12 V dc

Microphone input

Minijack.....1

-60 dBs, for low-impedance microphone

- Continued on next page -

Beta



VIDEO CASSETTE RECORDER

SONY®



Timer section

Clock	Quartz-lock system
Control time	24-hour cycle
Timer setting	Only to start and stop recording 4 programs can be set over 14 days.
Power back up	Self-charging battery incorporated Back-up duration: up to 10 minutes at one time (after the battery has been charged at least 40 hours.)

General


Power requirements	120 V ac $\pm 10\%$, 60 Hz $\pm 0.5\%$
Power consumption	30 W (VTR) 56 W (Max. with accessories)
AC outlet	Unswitched max. 400 W
Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	-20°C to +65°C (-4°F to +149°F)
Dimensions	Approx. 430 x 80 x 365 mm (w/h/d) (17 x 3 ¹ / ₄ x 14 ³ / ₈ inches) incl. projecting parts and controls
Weight	Approx. 9.4 kg (20 lb 12 oz) net

Accessories supplied

Betamax video cassette tape	1
External antenna connector	
EAC-24 (75-ohm to 300-ohm matching transformer).....	1
EAC-25 (300-ohm to 75-ohm matching transformer).....	1
75-ohm coaxial cable with F-type connectors (2 m, 6 feet).....	1
300-ohm twin lead (2 m, 6 feet).....	1
Remote control unit RMT-312 with two size AA batteries.....	1
Channel number segments.....	1 set

Design and specifications subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS 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. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!


LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE  SUR LES DIAGRAMMES SCHEMATIQUES, LES VUES EXPLOSEES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DDNT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT SONT IDENTIFIÉS DANS CE MANUEL. SUIVRE LES PROCÉDURES QUAND LES COMPOSANTS CRITIQUES SONT REMPLACÉS OU LE FONCTIONNEMENT IMPROPRE EST SUSPECTÉ.

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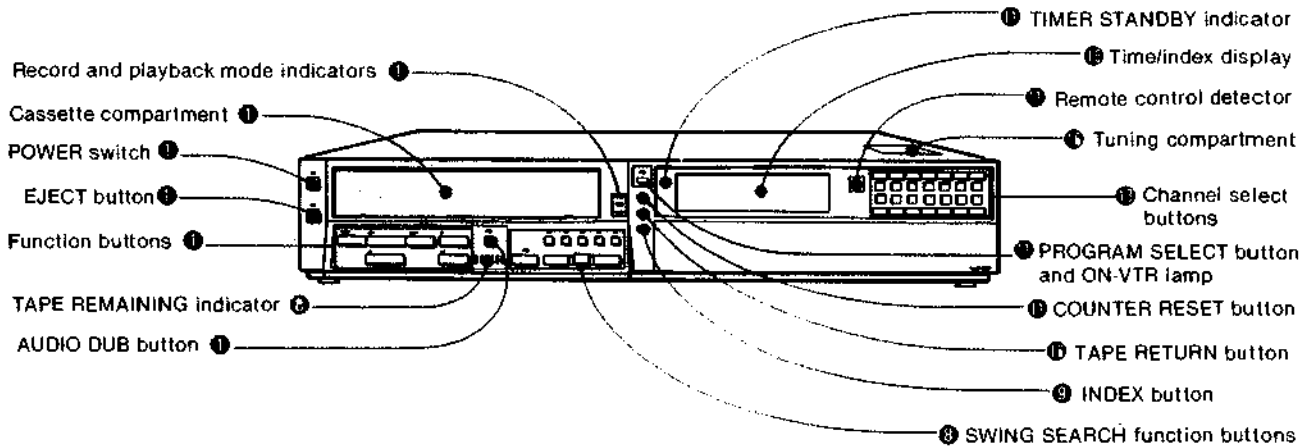
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SECTION 1 OUTLINE

LOCATION AND FUNCTION OF CONTROLS



1 Record and playback mode indicators

The lamp corresponding to the engaged record or playback mode lights up.

2 Cassette compartment

Insert a cassette to be recorded or played back after turning on the recorder.

3 POWER switch

Press to turn the power on. The lamp lights up. To turn the unit off, press the switch again. The timer section will continue to operate and the time will be displayed even if the POWER switch is off as long as the ac power cord is plugged into a working outlet.

4 EJECT button

Press to remove a cassette. This button does not function when the recorder is turned off.

5 Function buttons

Press to play back the tape.

Press to rewind the tape. Also used for the reverse Betascan operation.

Press to stop the tape.



Press to advance the tape rapidly. Also used for the forward Betascan operation.

While pressing this button, press the PLAY button to start recording.

Press to stop the tape for a moment during recording or playback. A freeze picture will be seen during play back. Press again to release the pause mode.

6 TAPE REMAINING indicator

Shows the amount of tape remaining.

7 AUDIO DUB button

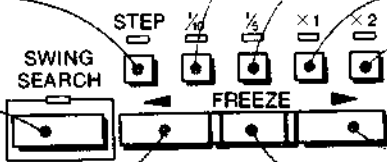
Use this button to dub audio onto a previously recorded tape.

④ SWING SEARCH function buttons

Press to obtain a frame-by-frame picture.

Press this button during playback to activate the SWING SEARCH function. The lamp will light up. After pressing this button, select the playback speed and the tape direction.

Press for playback in the reverse direction.



Press to obtain a slow-motion (1/10 speed) picture.

Press to obtain a slow-motion (1/5 speed) picture.

Press to obtain a normal speed picture.

Press to obtain a double-speed picture.

Press for playback in the forward direction.

Press to obtain a freeze picture.

⑤ INDEX button

Press to activate the index function and set the number of the recorded program you want to view. The selected number will be displayed on the time/index display.

⑥ TAPE RETURN button

Press this button in the stop mode to return the tape to the "0h00M00s" point on the time counter.

⑦ COUNTER RESET button

Press to set the time counter reading to "0h00M00s".

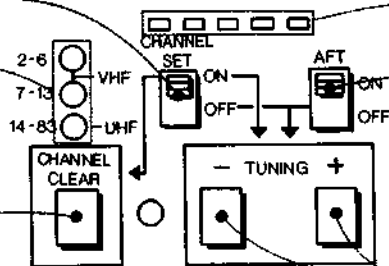
⑧ Tuning compartment

All the switches and buttons for channel presetting are in this compartment.

Set to ON to preset a channel. Normally set this switch to OFF (the switch will be automatically set to OFF when the compartment lid is closed).

Band indicating lamps: One of these lamps lights to show the tuning band of the tuned channel.

To clear the preset channel, press this button while the CHANNEL SET switch set to ON.



Tuning indicator: Indicates the approximate position of the tuned channel within the tuning band scanned.

Set to OFF to fine tune a station manually. Normally set this switch to ON.

Press to tune in a station.

⑨ Remote control detector

Point the infrared transmitter of the supplied remote control unit here.

⑩ Time/index display

This indicates the present time when the CLOCK/COUNTER selector is set to CLOCK or when the recorder is turned off, and the tape running time at the normal playback speed when the CLOCK/COUNTER selector is set to COUNTER. Timer programs and the selected index number will also be shown.

When the CLOCK/COUNTER selector is set to COUNTER

Indicates how much the tape has advanced at normal speed.



Shows the index number selected with the INDEX button.

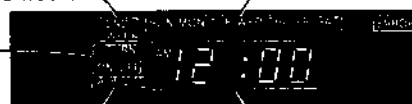
Indicates that the display functions as a time counter.

This display appears only when the recorder is turned on.

When the CLOCK/COUNTER selector is set to CLOCK

Lights when you are setting a day of the second week.

Lights when you are setting a turn-on time or a turn-off time.

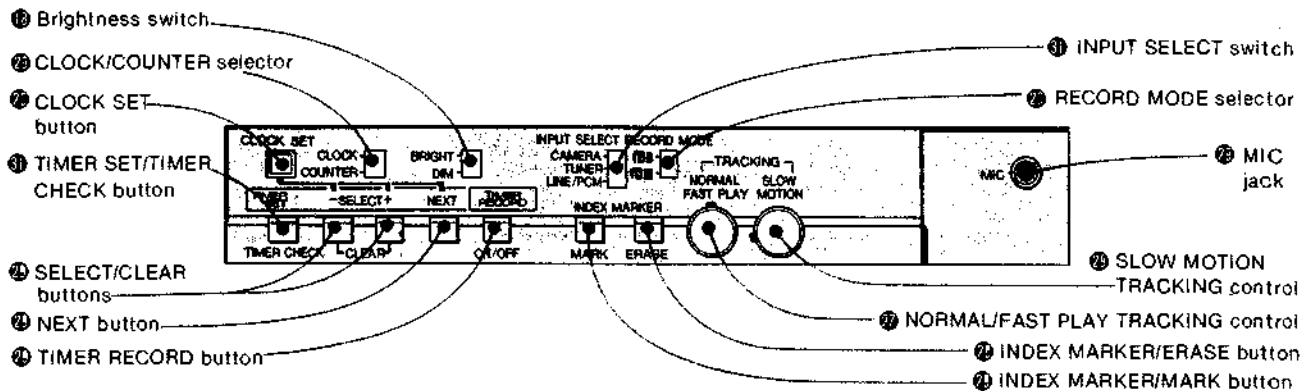


Shows a timer program.

Shows a day of the week.

Blinks when the settings for two or more programs overlap or when a timer recording cannot be made.

Shows the present time or the turn-on or turn-off time.



13 TIMER STANDBY indicator

This lamp lights up when the TIMER RECORD button is pressed after the timer program has been set.

9 Brightness switch

Select the brightness of the time/index display, BRIGHT or DIMMER, with this switch.

10 CLOCK/COUNTER selector

Select the display of the time display, either clock or time counter.

11 CLOCK SET button

Press to set the clock.

12 TIMER SET/TIMER CHECK button

Press to set the timer for recording. To check the contents of a timer program, press this button.

14 SELECT/CLEAR buttons

Used to set the clock time, day of the week and timer programs. To erase the contents of a timer program, press these buttons simultaneously.

15 NEXT button

Used for memorizing the clock time, day of the week and timer programs set by the SELECT buttons.

15 TIMER RECORD button

Press to activate the timer recording stand-by mode. The TIMER STANDBY lamp will light up.

14 INDEX MARKER/MARK button

Press to record an index signal at the desired point on the tape.

14 INDEX MARKER/ERASE button

Press to erase the index signal recorded on the tape.

7 NORMAL/FAST PLAY TRACKING control

Turn to eliminate the streaks or snow in a double speed or a reverse playback picture, or for playback of a cassette recorded by another video cassette recorder.

• Return the control to the dotted position after viewing the particular cassette.

8 SLOW MOTION TRACKING control

Turn to eliminate the streaks or snow for a freeze, a frame-by-frame or slow motion playback.

• Return the control to the dotted position after playback.

3 MIC jack (mini type)

Connect a microphone here. If your microphone has a phone-type plug, use a plug adaptor, such as the Sony PC-1A.

2 RECORD MODE selector

This selects recording tape speed, **FBI** or **FSI**, so that you can take full advantage of the various cassettes available. The recording time of any given cassette in the **FBI** mode is 1.5 times that in the **FSI** mode.

• Do not change the position of the selector during recording, or the playback picture and sound will be distorted at that point.

• The playback speed is automatically selected regardless of this selector setting.

1 INPUT SELECT switch

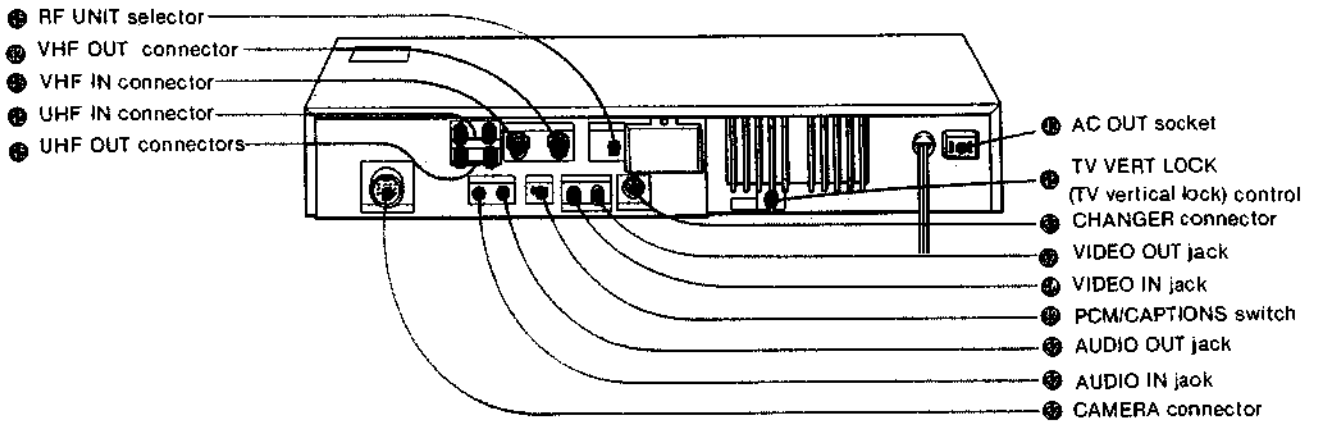
Select the program to be recorded.

LINE/PCM: for recording signals connected to the VIDEO IN and AUDIO IN Jacks.

TUNER: for recording TV programs.

CAMERA: for recording camera signals connected to the CAMERA connector.

Rear panel



14 CAMERA connector (14-pin K-type)
Connect a video camera, such as a HVC-2200, etc.

13 AUDIO IN jack (mini type)
Connect to the line output of a sound source such as a cassette recorder or an audio amplifier, or to the audio output of a camera or another video cassette recorder.

12 AUDIO OUT jack (mini type)
Connect the audio input of another video cassette recorder, a video monitor, etc.

11 PCM/CAPTIONS switch
Normally set to the right position. For receiving captioned TV programs or for PCM recording and playback using a PCM adaptor, set this switch to the left position.

10 VIDEO IN jack (phono type)
Connect the video output of a camera, another video cassette recorder, etc.

9 VIDEO OUT jack (phono type)
Connect the video input of another video cassette recorder or of a video monitor.

8 CHANGER connector
Connect an AG-400 auto cassette changer which will be available in the near future.

7 TV VERT LOCK (TV vertical lock) control
If a jitter appears in the freeze, frame-by-frame or slow motion picture, first obtain a freeze picture and turn this control until the picture is stable.

6 AC OUT socket
This unswitched outlet supplies ac power to video or audio equipment whose power consumption is under 400 watts.

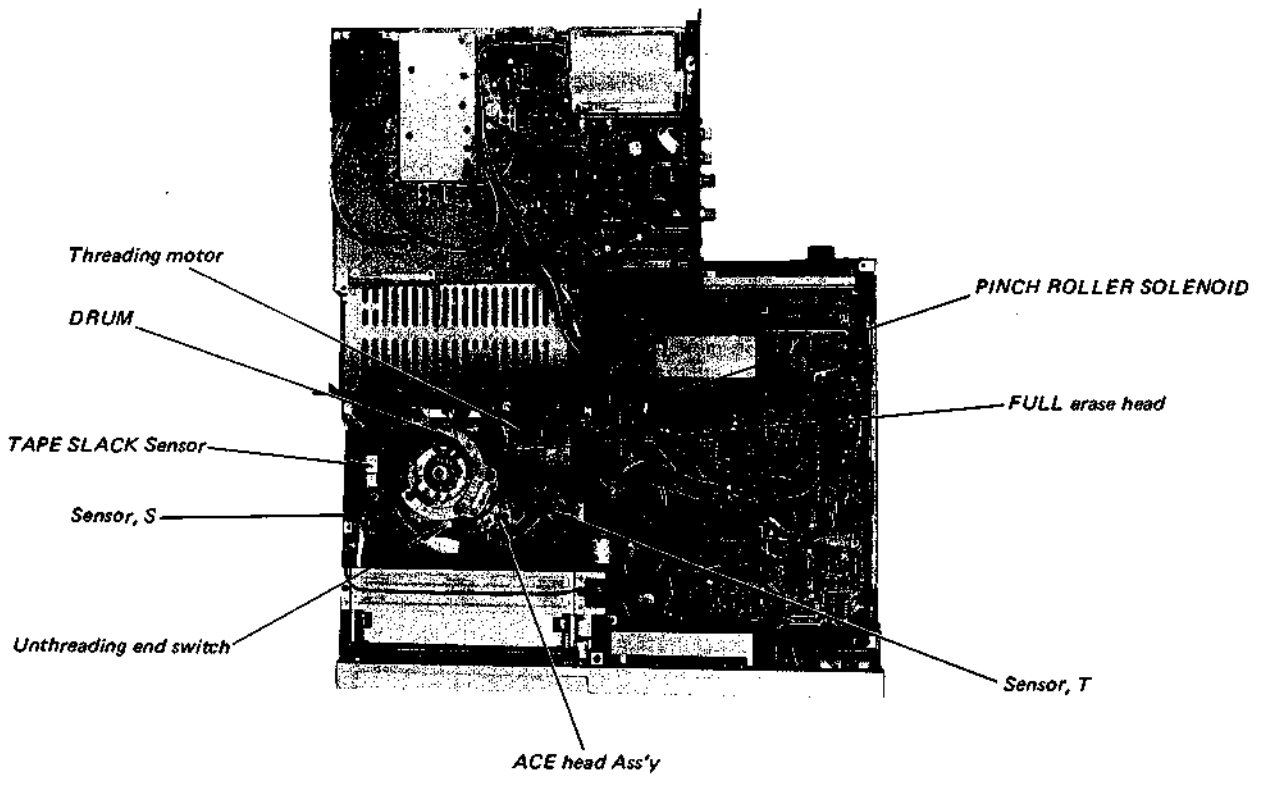
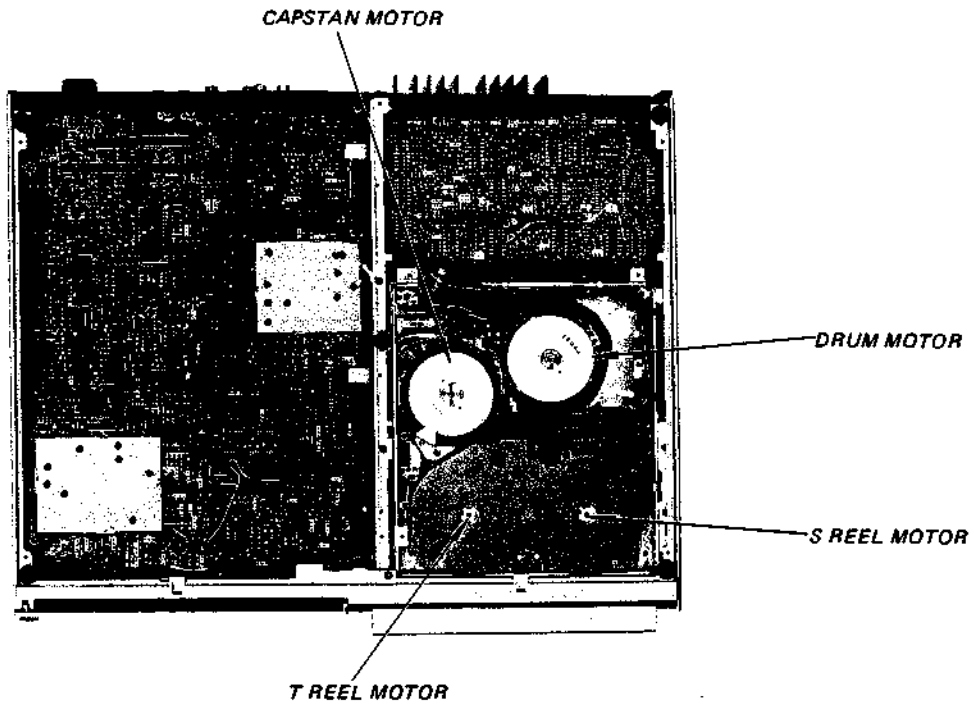
5 RF UNIT selector
Select the output channel at the VHF OUT connector. Set the switch to 3 CH or 4 CH, whichever is not active in your area.

2 VHF OUT connector
Connect to the VHF antenna connector of the TV receiver. The signal of a VTR program (which is converted into a VHF signal) and the VHF TV signal will be supplied to the TV receiver.

3 VHF IN connector
Connect a VHF TV antenna here.

4 UHF IN connectors
Connect an UHF TV antenna here.

5 UHF OUT connectors
Connect to the UHF antenna terminals of the TV receiver to view UHF TV programs even when the recorder is turned off.

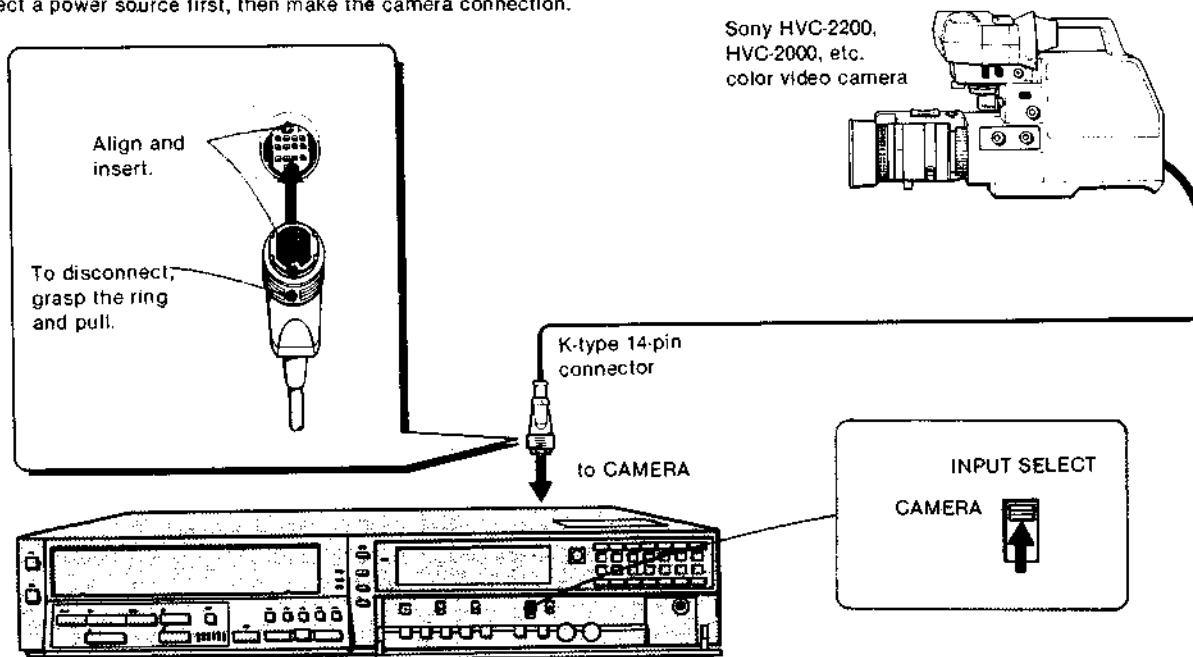


CAMERA RECORDINGTo produce your own programs

CONNECTIONS

- The camera must conform to American TV (EIA) standards.

Connect a power source first, then make the camera connection.



To connect a camera which is not equipped with a K-type 14-pin connector

Use an ac adaptor. Connect the video output of the ac adaptor to the VIDEO/PCM IN jack of the recorder and the audio input of the ac adaptor to the AUDIO IN jack or the MIC jack of the recorder depending on the audio output level of the ac adaptor.

Set the INPUT SELECT switch to LINE/PCM.

Note:

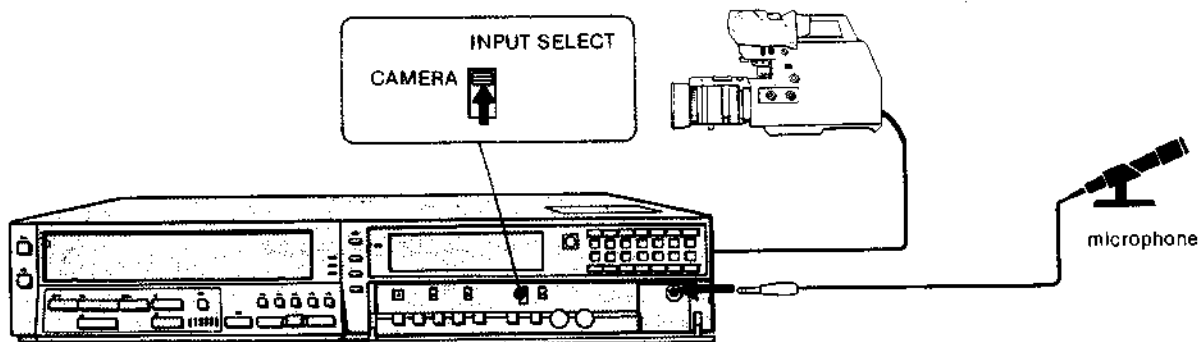
If you want to use a camera not recommended in this manual, make sure that the power requirement of the camera is DC 12V and power consumption is under 10W. Otherwise, the video cassette recorder will be damaged.

To record the sound from an external microphone

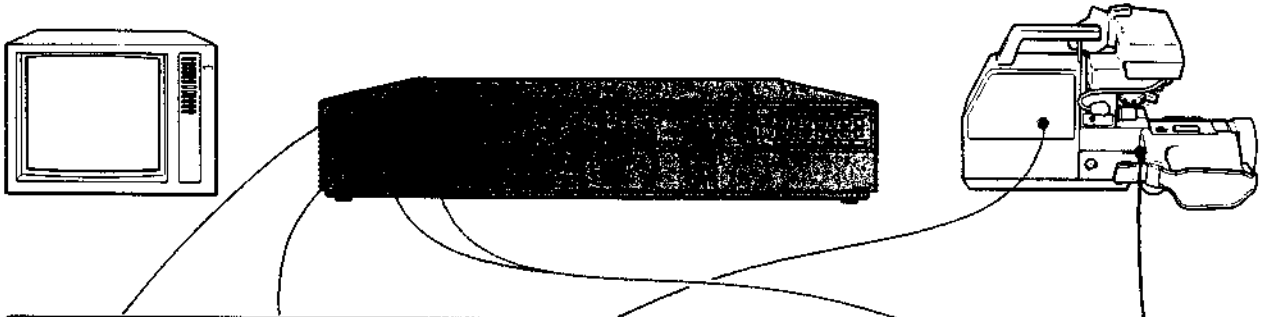
Plug a microphone into the MIC jack on the recorder. The microphone built into the camera will be disconnected automatically.


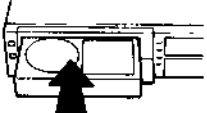
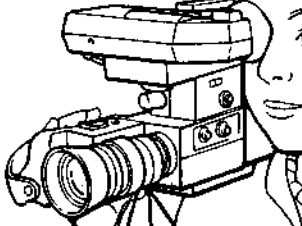
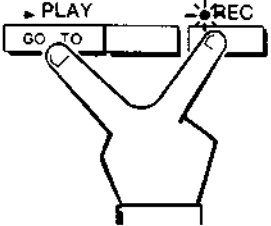

- If the microphone has a phone plug, use a plug adaptor such as the Sony PC-1A (optional).
- When a microphone is connected to the recorder, the sound from the camera is disconnected.

Do not move the INPUT SELECT switch during recording or playback when using a Sony HVC-2000 or HVC-2200 video camera. If you do, the recorder will be set into the pause mode. When the recorder stops, turn the power off and turn it on again.



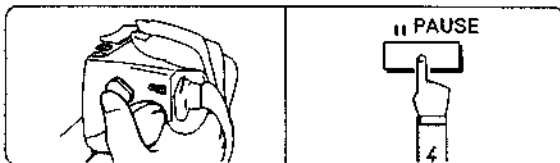
OPERATING PROCEDURE



<p>1</p> <p>The lamp will light up.</p> 	<p>2</p> <p>insert a cassette.</p> 	<p>3</p> <p>Make necessary adjustments on the camera.</p>  <p>For details, refer to the camera's instruction manual.</p>	<p>4</p> <p>While holding ● REC pressed, press ► PLAY.</p>  <p>The recorder will be set into the recording pause mode.</p>	<p>5</p> <p>Press the tape run/stop button on the camera.</p>  <p>Recording will begin.</p>
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To momentarily stop the recording

Press the tape run/stop button on the camera or the PAUSE button on the recorder. To restart the recording, press the same button again.



Automatic release: to protect the video heads and the tape, the pause mode will be automatically released after about 8 minutes. The recorder will revert to the record mode.

TO MONITOR THE PICTURE BEING RECORDED WITH A CAMERA

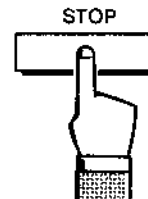
Turn on the TV, select the channel for the video recorder and press the PROGRAM SELECT button on the recorder to light up the associated lamp.

RECORDING REVIEW

When a camera having a recording review function, such as the HVC-2200*, is used

Press the recording review button in the recording pause mode. The last few seconds of recorded scene will be played back immediately so that you can check whether the recording has been made correctly.

When the recording is finished.

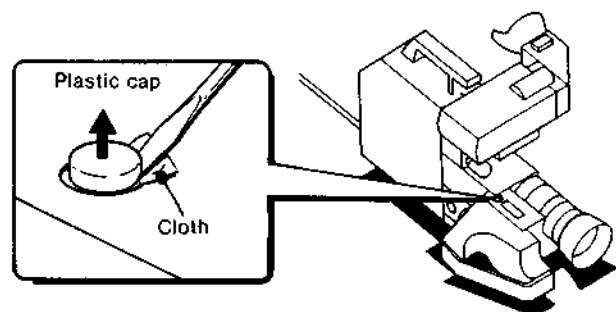


If the tape reaches the end, the tape will be rewound to the beginning.

The recorder will then enter the recording pause mode at the point where the recording review button was pressed. To continue recording, press the tape run/stop button on the camera.

*For customers who have a HVC-2200 camera

The small projection located near the zoom button is a recording review button. If this button is covered with a plastic cap, carefully peel off the cover over the button with a screwdriver or similar object.



Caution:

Make sure that the plastic cap has not already been removed, and inadvertently attempt to pry up the button itself.

BASIC OPERATION

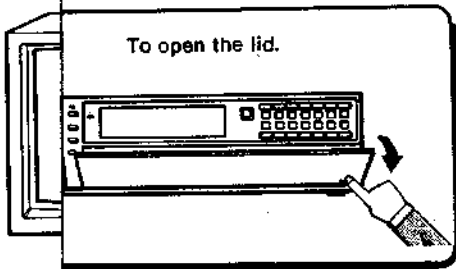
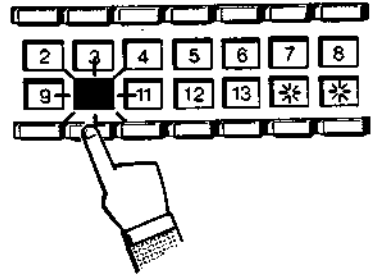
TV PROGRAM RECORDING

1 Turn on the TV and select the channel preset for the video recorder (channel 3 or 4).

2 Press the RECORD MODE button (shown below) to select the desired position. (See below.)



3 Select the channel to be recorded.



In case you want to record a tape which is to be played back on another recorder from the very beginning of the tape, run the tape for about 15 seconds before starting recording. Otherwise you may miss the starting point during playback on the other machine.

RECORDING ONE TV PROGRAM WHILE VIEWING ANOTHER

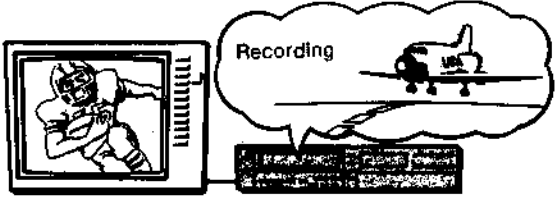
You can view one TV program while recording a different TV program which has been selected on the recorder.

- 1 Start recording the desired TV program following the procedure above.
- 2 Press the PROGRAM SELECT button so that the above lamp goes off.
- 3 Select the channel you want to view on the TV.

The recording modes
Select the recording mode according to the length of the program to be recorded.

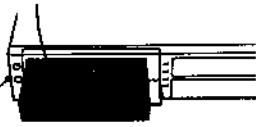
Mode	Cassette used			
	L-830	L-750	L-500	L-250
	3 hr. 20 min.	3 hr.	2 hr.	1 hr.
	5 hr.	4 hr. 30 min.	3 hr.	1 hr. 30 min.

Recording cannot be done in the mode although playback in the mode can be played back with this recorder.



3

Insert a recorded cassette with the round window on the left.



To take out the cassette, press EJECT.

4

Press PLAY.



The lamp will light up.

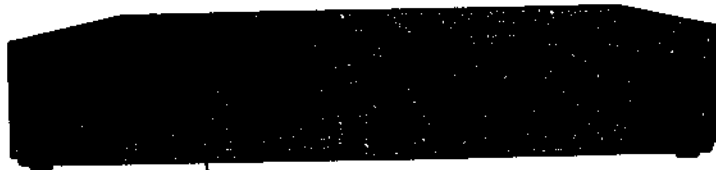
Playback begins.

• The **1/2**, **1/4** and **1/8** modes will be selected automatically in playback depending on the mode in which the tape was recorded.

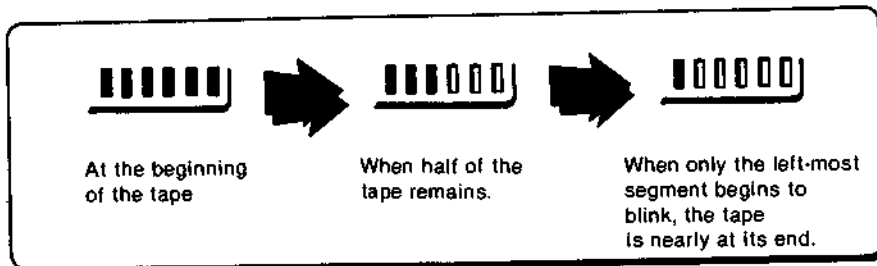
Video cassette recorder

TO CHECK THE AMOUNT OF TAPE LEFT ON THE REEL

The TAPE REMAINING indicator shows the amount of tape remaining while the tape is moving.



TAPE REMAINING indicator



- For the first few seconds the indicator illuminations may fluctuate while the amount of tape is being determined.
- To know the amount of tape remaining during fast forward or rewind mode, play the tape back at normal speed until the illumina-

- tion stabilizes, then rewind or advance the tape rapidly.
- The indicator only operates when tape on which a recording has been made is played back, rewound or advanced rapidly. It will not operate with a blank tape or with the unrecorded portion of a tape.

TIMER-ACTIVATED RECORDING

Using the built-in timer, recordings of up to any four programs occurring within the next fourteen days can be made automatically, even when you are not at home.

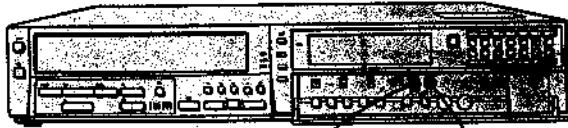
Check before setting the timer

- Is the clock set to the correct day and correct time?
(For the clock setting, refer to the "SETTING THE CLOCK" of the accompanying set-up guide.)
- Is a cassette inserted in the recorder?
- Is the cassette long enough to record the programs?
Check the setting of the RECORD MODE selector.
- Does the cassette have a safety tab on the bottom?
- Is the INPUT SELECT switch set to TUNER?

Examples of timer settings

The turn-on day may be a particular day of the week or every day. You need not set the four programs all at one time.

Program	day of the week	recording time	channel
A	Wednesday this week	8:00 p.m. - 9:00 p.m.	6
B	everyday	8:15 a.m. - 8:25 a.m.	2
C	Friday this week	9:00 p.m. - 11:25 p.m.	8
D	Tuesday next week	11:15 p.m. - 11:30 a.m.	10



INPUT SELECT RECORD MODE

Note: The timer cannot be set during recording.

SETTING THE TIMER

Example: Suppose you want to set the timer to Program C above.



Button to be pressed	Time display The segment to be set will blink.
1 TIMER SET 	 (The timer setting of Program A will be displayed if it has been set.)
2 Select the program. Indication changes in alphabetical order. To go back to the previous indication, NEXT	
3 Select the turn-on day. Indication changes as follows: every day → SUN → MON → ... → SUN with 2ND WEEK → ... SAT with 2ND WEEK → every day To go back to the previous indication, NEXT	

To record a program at the same time everyday
Press the NEXT button when all days of week indications are blinking.

If the day you want to record is more than 7 days ahead
Press the NEXT button when the desired day of week with the "2ND WEEK" indication is blinking.



The 2ND WEEK in this case is different from next week on the calendar. The 2ND WEEK is the week which begins exactly seven days from the present day, at the present time.

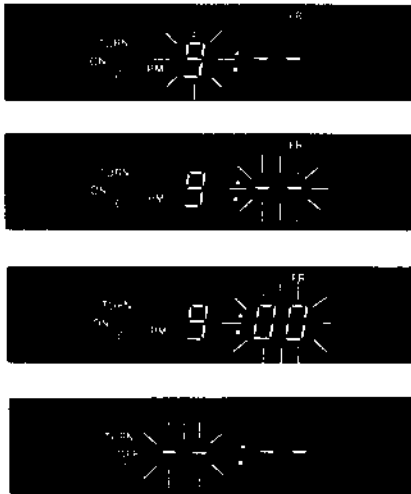
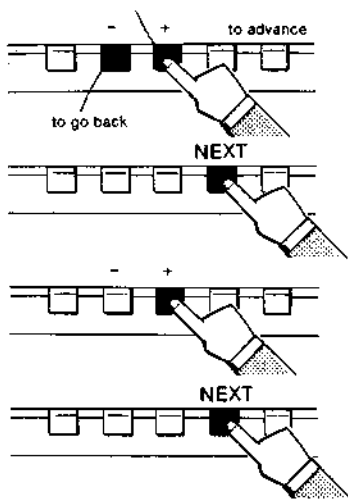
Suppose you are setting the timer on this day at 10:00 a.m.

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

2ND WEEK:
from 10:01 a.m. on 18th to 10:00 a.m. on 23rd.

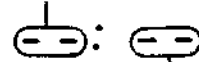
4

Set the turn-on time.



To record to the end of the tape
Set the turn-off time to a time after
the tape will reach the end or to
"---:--".

between PM 11 h. and AM 12 h.

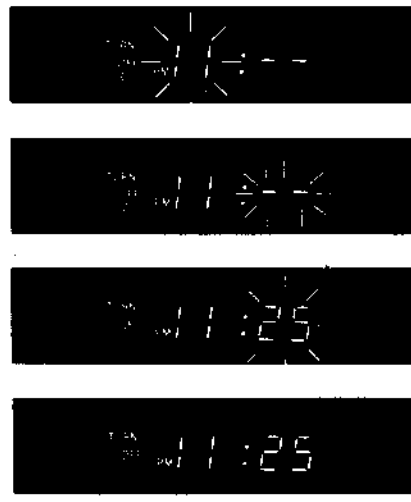
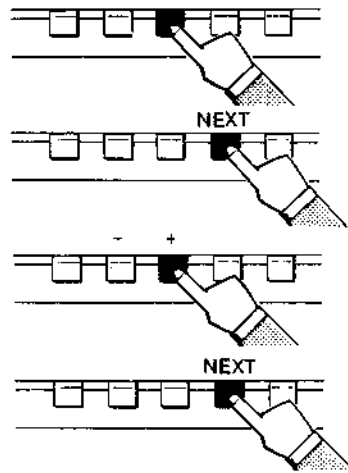


between 59 min. and 0 min.

When the tape reaches the end dur-
ing the timer recording, the recording
stops and the unit will be turned off
automatically after about 30
seconds. In this case the tape will not
be rewound to the beginning.

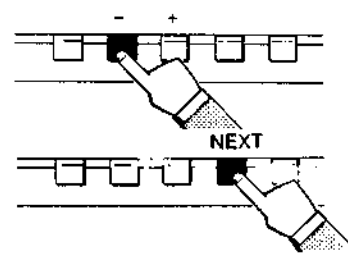
5

Set the turn-off time
(within 24 hours from the turn-on time).

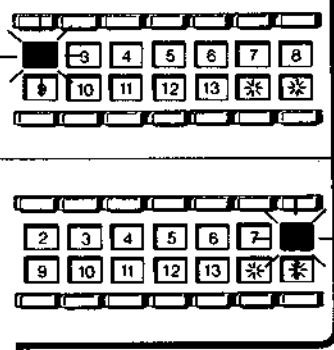


6

Select the channel to be recorded.



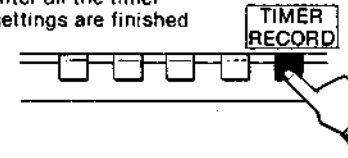
The present time is displayed and the unit
is turned off.



Now Program C is set. To set Program A, B or D, repeat these steps. (The unit
will be turned on when the TIMER SET button is depressed.)

7

After all the timer
settings are finished



The red lamp will light up.



ONCE THE TIMER STANDBY LAMP
HAS LIT UP, NO FUNCTION OF THE
RECORDER CAN BE ACTIVATED, ex-
cept for checking the timer setting.

At the preset turn-on time, recording will start automatically and
will stop at the preset turn-off time.

TO OPERATE THE RECORDER AFTER THE TIMER HAS BEEN SET

Once the TIMER RECORD button has been pressed, the POWER switch on the recorder will not function.

This is to safeguard the timer recording.

To operate the recorder after the timer has been set, press the TIMER RECORD button again so that the TIMER STANDBY lamp goes off.

Also to stop the tape during timer recording, press the TIMER RECORD button so that the TIMER STANDBY lamp goes off.

• The timer settings are kept in the memory even if you disengage the TIMER RECORD button, so you can easily restore the setting later by pressing the TIMER RECORD button.

TO CHECK THE TIMER SETTING

Press the TIMER CHECK button. Each time you press the button, the indication will change as follows:

turn-on day and time of Program A	→	turn-off time
turn-on day and time of Program B	→	turn-off time
turn-on day and time of Program C	→	turn-off time
turn-on day and time of Program D	→	turn-off time
present time*	(The unit will be turned off automatically). **	

The indicator of the channel preset for the recording will light up at the same time the turn-on time of each program is displayed, so that the channel can be checked. During timer recording, however, the channel for other timer programs cannot be checked.

Note: The timer setting cannot be checked during recordings other than a timer recording.

* To obtain a present time during the checking procedure, turn the unit off.

** During timer recording the unit will not be turned off even if you check the timer setting.

TO CLEAR THE TIMER SETTING

The memory of a timer program will be automatically erased when the recording of that program is finished. A setting for everyday will not be erased, of course.

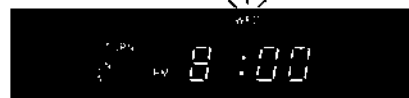
If you want to skip the timer recording preset for everyday temporarily, press the TIMER RECORD button so that the TIMER STANDBY lamp goes off. To resume the timer standby mode of that program, press the button again.

If you want to erase the memory of a timer program, proceed as follows:

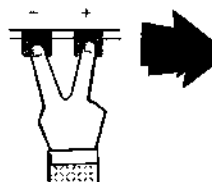
① Press the TIMER SET button as many times as required until the turn-on time or turn-off time of the program to be erased is displayed.



② Press the NEXT button.



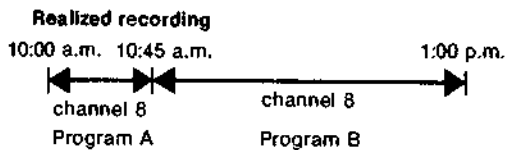
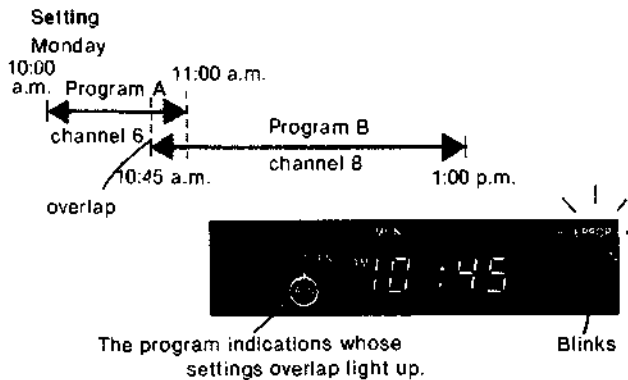
③ Press the + and - SELECT buttons simultaneously. The entire memory of this program will be erased.



To display a present time, turn the unit off.

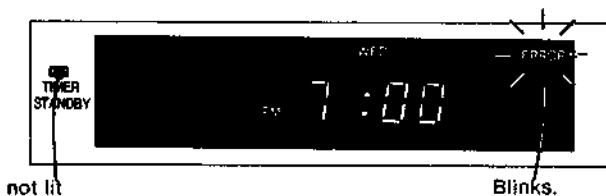
IF THE "ERROR" INDICATOR BLINKS

If the "ERROR" indicator blinks while the timer is being set it means that the settings for the programs overlap. Check the settings and eliminate the overlap.



If the TIMER STANDBY lamp lights up, recording can be made even with the "ERROR" indicator blinking, but the program being recorded will change to the next one when the next turn-on time will come.

If the "ERROR" indicator blinks and the TIMER STANDBY lamp does not light when the TIMER RECORD button is pressed



Check the following points:

- Did you insert a cassette into the recorder?
- Does the cassette inserted have a safety tab on the bottom?
- Make sure that the tape is not at its end.

After correcting the above points, press the NEXT button, then the TIMER RECORD button again. Timer-activated recording cannot be activated if the TIMER STANDBY lamp does not light.

Notes on the "ERROR" indicator

The "ERROR" indicator does not light in the following cases, even if settings overlap.

— when the turn-off time of the program whose turn-on time is set earlier than the other one is set to "----".

Example:

- Program A: Sun. 7:00 p.m. → "----" (to tape end)
- Program B: Sun. 8:00 p.m. → 9:00 p.m.

— when one of the overlapping programs is set for next week and brackets the present time.

Examples:

- Present time: Sun. 3:00 p.m.
- Program A: Sun. 2:00 p.m. → 4:00 p.m.
(The program actually starts next Sunday.)
- Program B: Sun. of the 2nd week 3:30 p.m. → 5:00 p.m.

The ERROR indicator will light up and blink even if one timer program including the present time and another timer program do not actually overlap.

Examples:

- Present time: Sun. 3:00 p.m.
- Program A: Sun. 2:00 p.m. → 4:00 p.m.
(The program will actually start next Sunday.)
- Program B: Sun. 3:30 p.m. → 5:00 p.m.
(The program will start that day.)

We recommend that you check the preset timer programs whenever you set a new timer program.

WHEN A POWER INTERRUPTION OCCURS

If the clock shows "SUN AM 12:00" and does not advance all the timer settings have been erased. Reset the clock time and the timer settings.

If the clock still shows the correct time

the power has been interrupted for less than 10 minutes and the clock has been powered by the built-in self-charging battery so that the timer programs were kept in the memory. If the interruption occurs after the recording has begun, recording will be resumed when the power is restored.

- The built-in battery will be charged automatically when the ac power cord of the recorder is plugged into a wall outlet for at least 40 hours.

ADVANCED OPERATION

TO OBTAIN VARIABLE SPEED PLAYBACK PICTURES — "SWING SEARCH."—

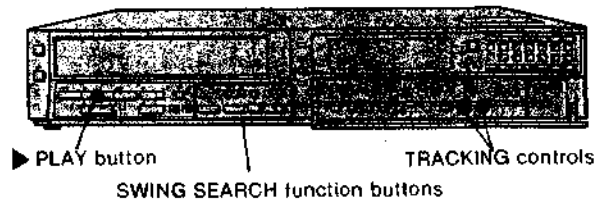
With this video cassette recorder, you can obtain a freeze, a slow motion, a double speed, a frame-by-frame or a reverse playback picture as well as a normal speed playback picture.

For example

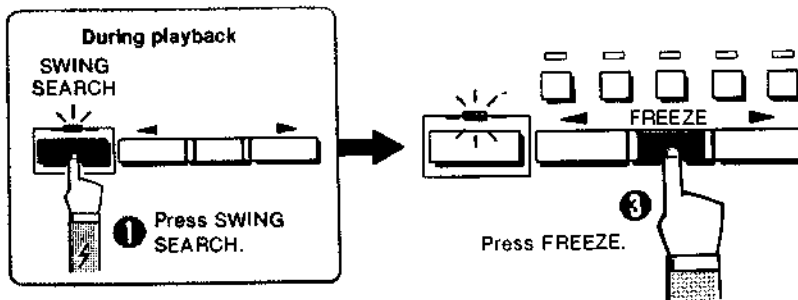
- To closely inspect a particular frame → FREEZE PICTURE
- To study your golf or tennis form → FRAME-BY-FRAME PICTURE
- To watch a football play slowly unfold → SLOW-MOTION PICTURE
- To quickly review a program → DOUBLE-SPEED PICTURE

Notes

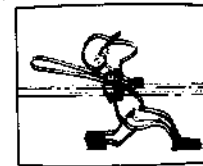
- The audio cannot be monitored in the "Swing Search" mode.
- Tapes recorded in the **BI** mode cannot be played back in the "Swing Search" mode.
- To resume normal playback when the unit is in the "Swing Search" mode, press the **▶ PLAY** button.



FREEZE PICTURE



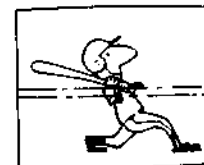
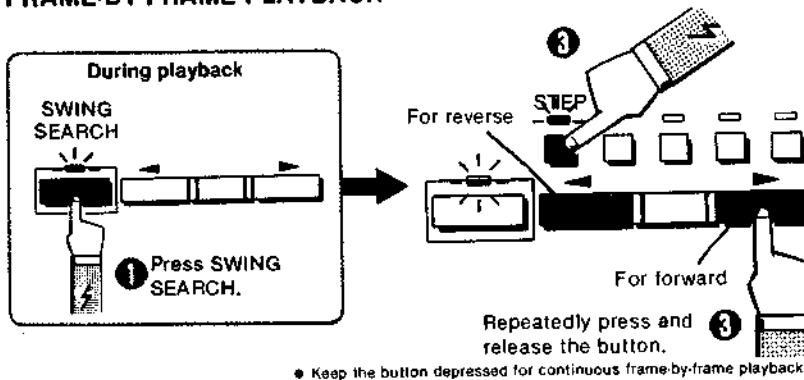
If a vertical jitter appears in the freeze, frame-by-frame or slow motion picture.



Obtain a freeze picture and adjust the TV VERT LOCK control at the rear of the recorder for the best possible picture. Then return the recorder to the previous mode.

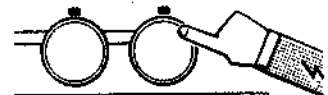
- Once you adjust this control, you do not have to adjust it again unless you change the connected TV receiver.

FRAME-BY-FRAME PLAYBACK



To remove the noise band in the freeze, frame-by-frame or slow motion picture.

TRACKING SLOW MOTION

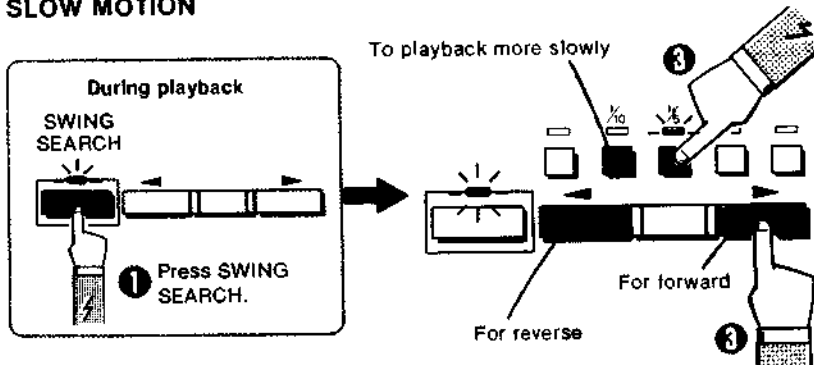


Obtain a slow motion picture and adjust the control. Return the recorder to the previous mode or continue in slow motion.

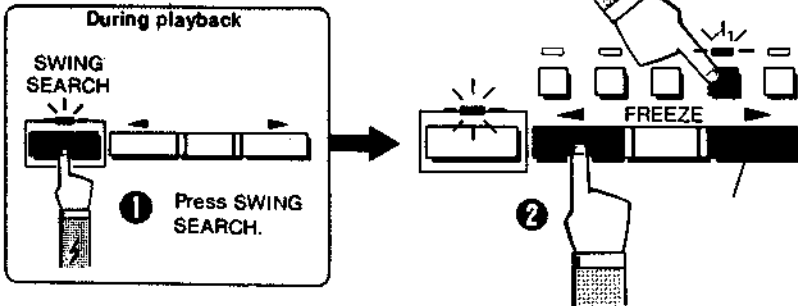


- Return the control to its original (dotted) position after the playback.

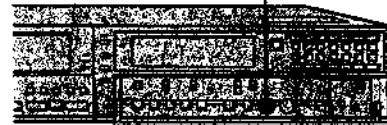
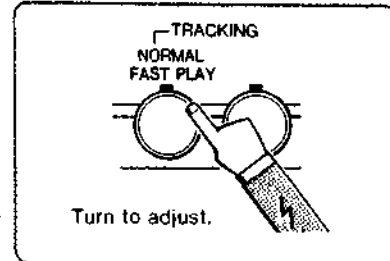
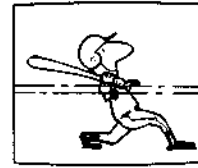
SLOW MOTION



REVERSE PLAYBACK



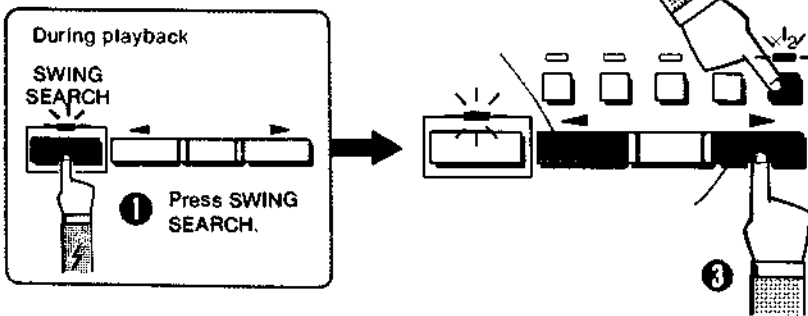
To remove the noise band in the reverse normal speed or the forward double speed picture



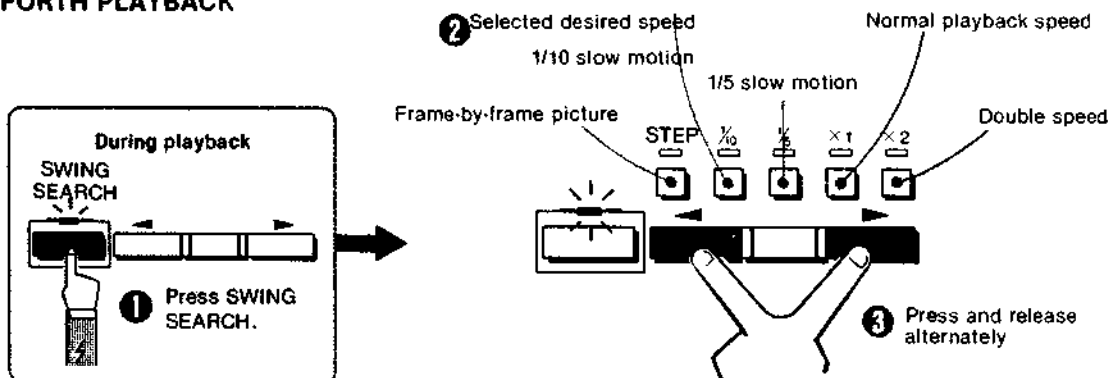
● The noise band in the reverse double speed picture cannot be removed.

Return the control to its original (dotted) position after the reverse normal speed or the forward double speed viewing.

DOUBLE SPEED PICTURE



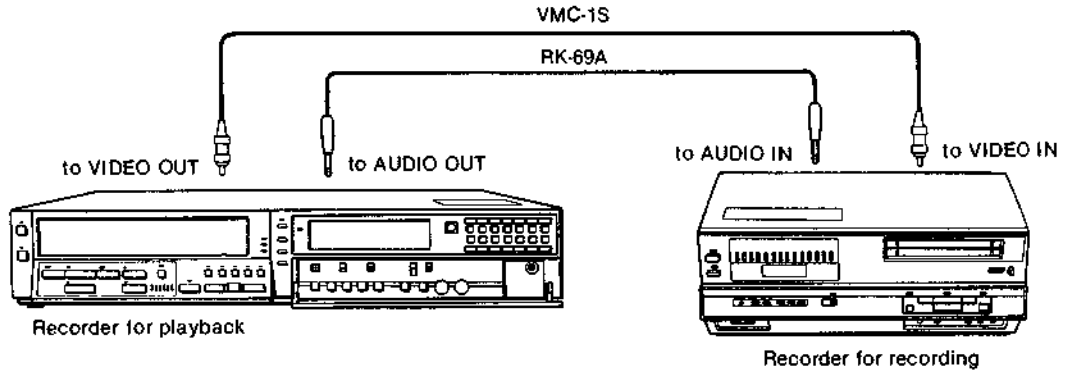
BACK AND FORTH PLAYBACK



TAPE COPY

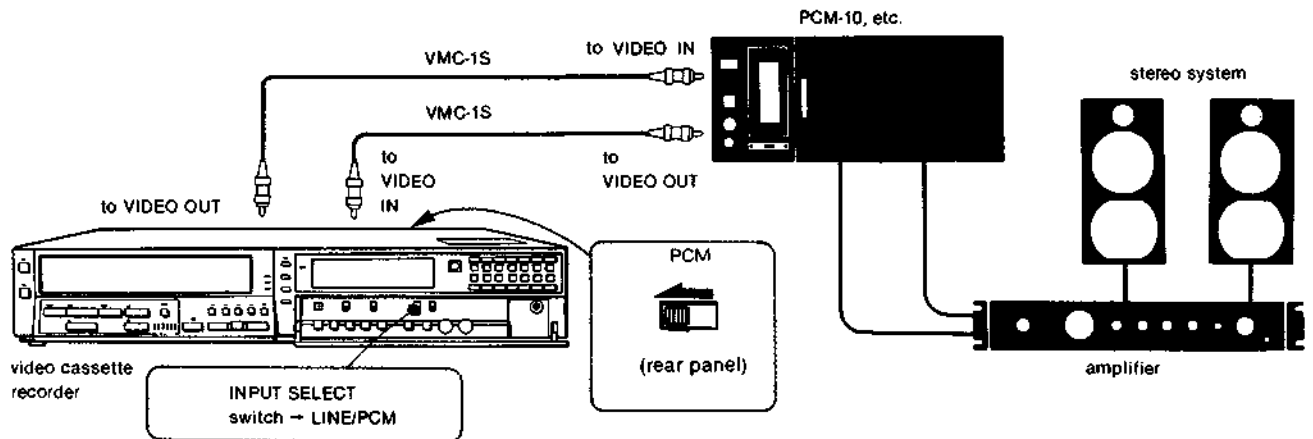
To duplicate a tape, you will need two video recorders; one is to play back the original tape and the other is to record.

- ① Connect the recorders as illustrated.
- ② Turn on both recorders.
- ③ Insert the original cassette into the recorder for playback.
- ④ Insert a blank cassette into the recorder for recording.
- ⑤ Set the INPUT SELECT switch of the recorder for recording to LINE/PCM.
- ⑥ Set the recorder for playback into the playback mode.
- ⑦ Set the recorder for recording into the record mode.



PCM RECORDING AND PLAYBACK

By connecting a PCM digital audio processor (Sony PCM-10, etc.) you can enjoy hi-fi sound reproduction with a wide dynamic range, minimal distortion and a flat frequency response.



- For optimum results, use a video cassette with a model number L-500 or less (L-250, L-125, etc.) and set the RECORD MODE selector to **III**.
- For details, refer to the instruction manual furnished with the digital audio processor.

DUBBING AUDIO

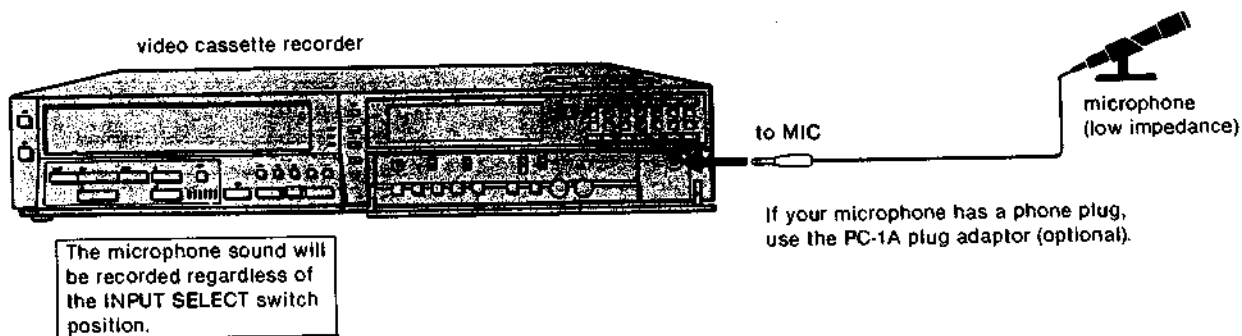
You can record a music or commentary track on any recorded tape. You can dub the audio while watching the recorded picture.

Notes

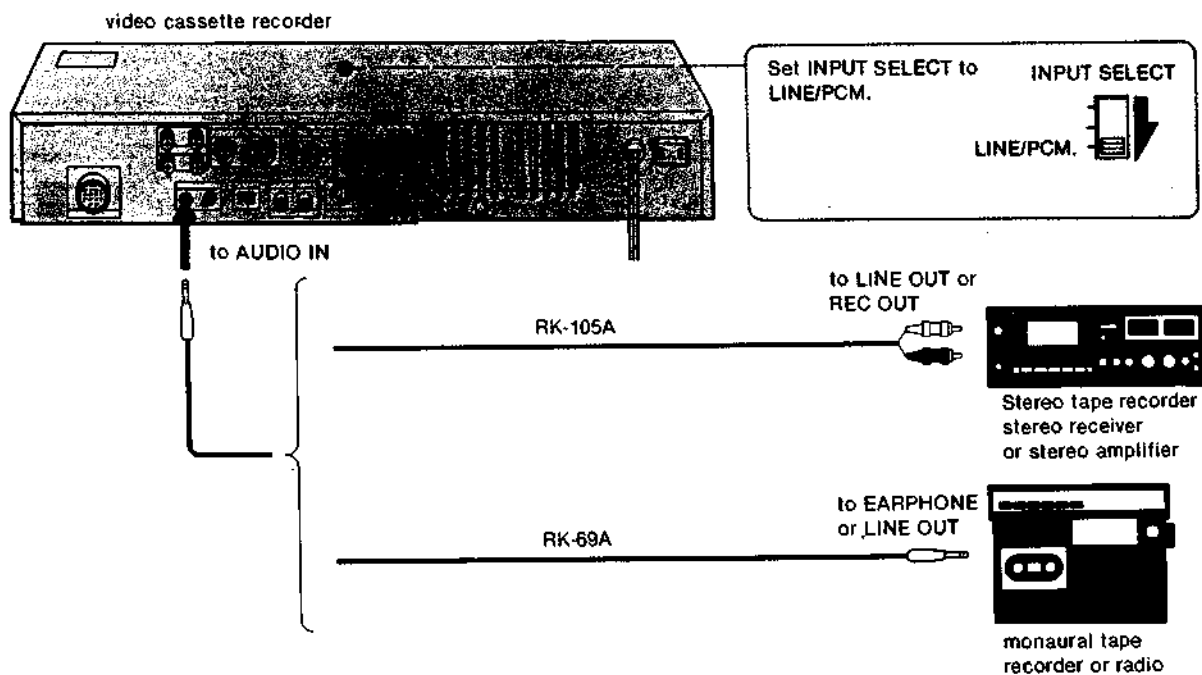
- When a new sound track is recorded, the previously-recorded sound track will be erased, but the picture will remain.
- Audio dubbing cannot be done on a blank tape.

CONNECTIONS

To record microphone sound

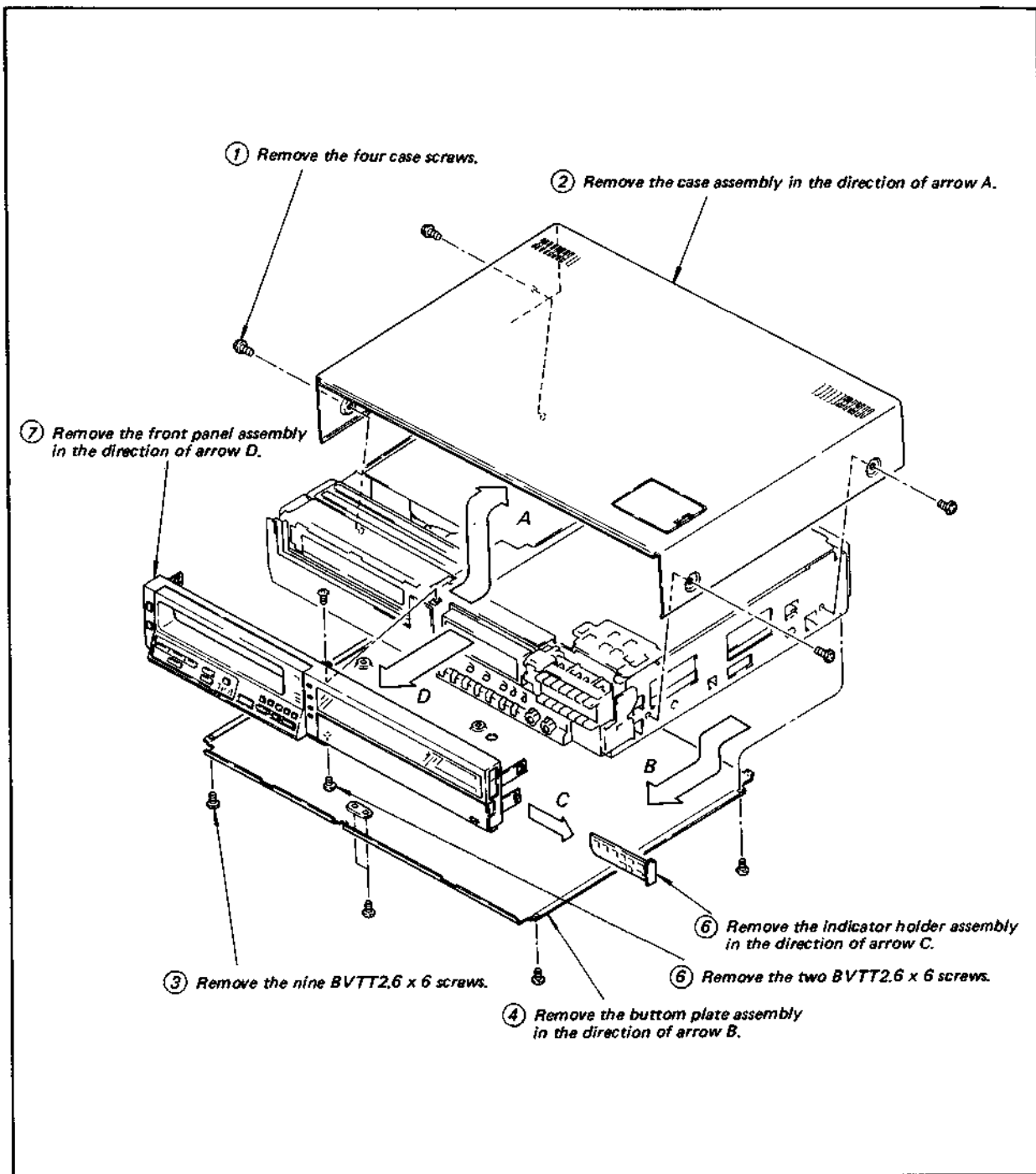


To record from an audio equipment

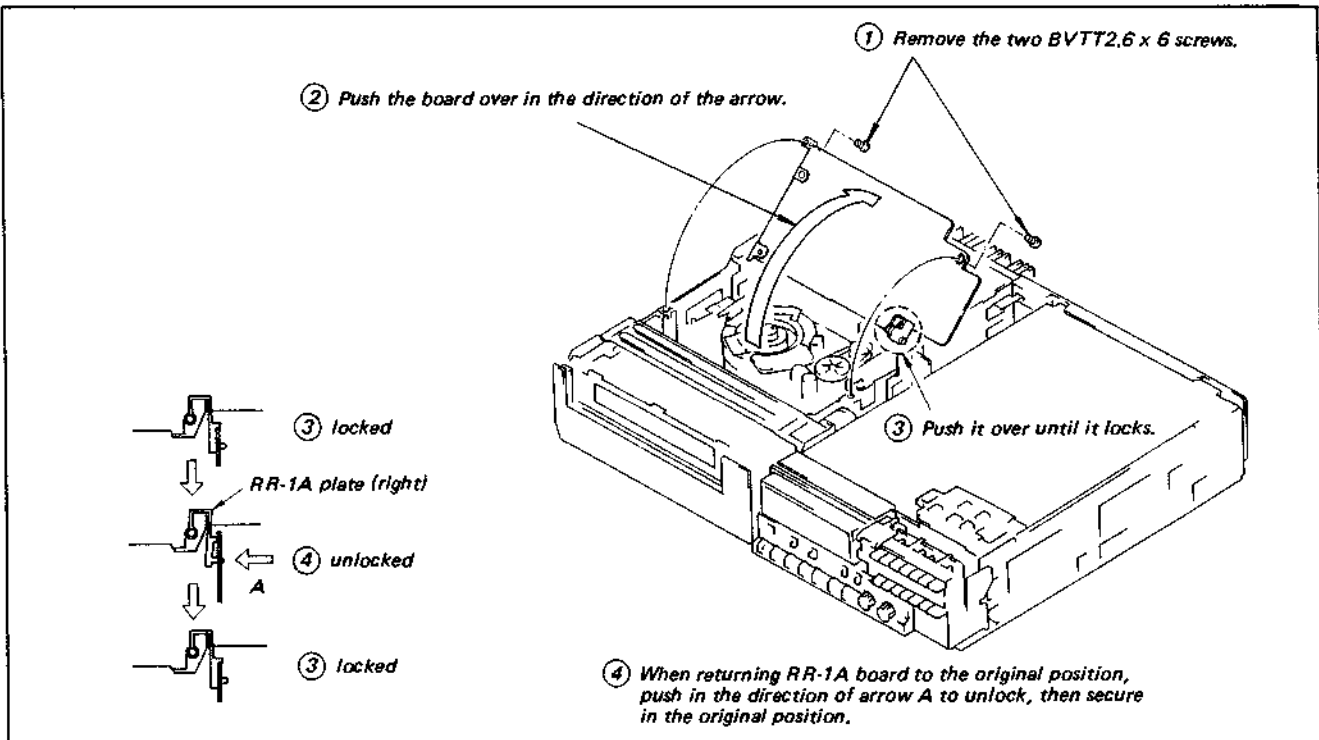


SECTION 2 DISASSEMBLY

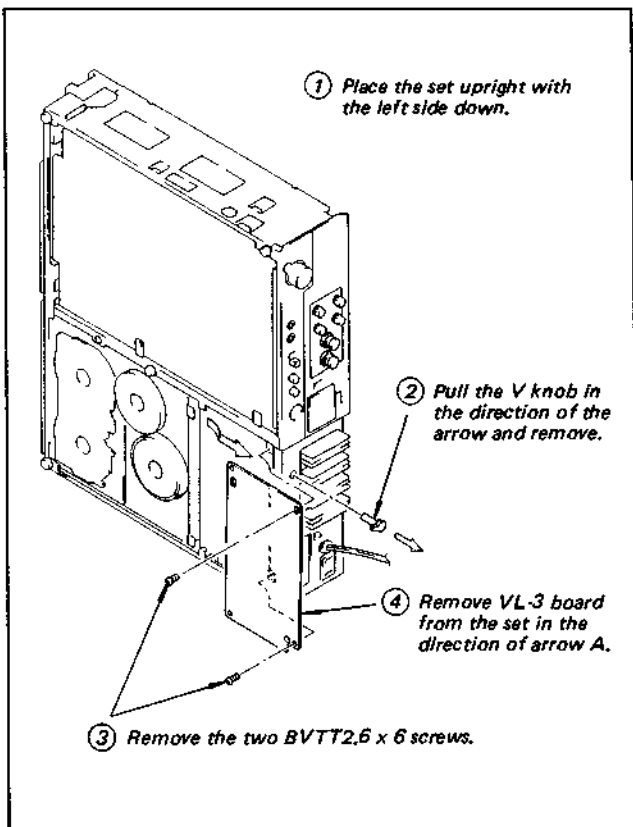
2-1. Cabinet Removal



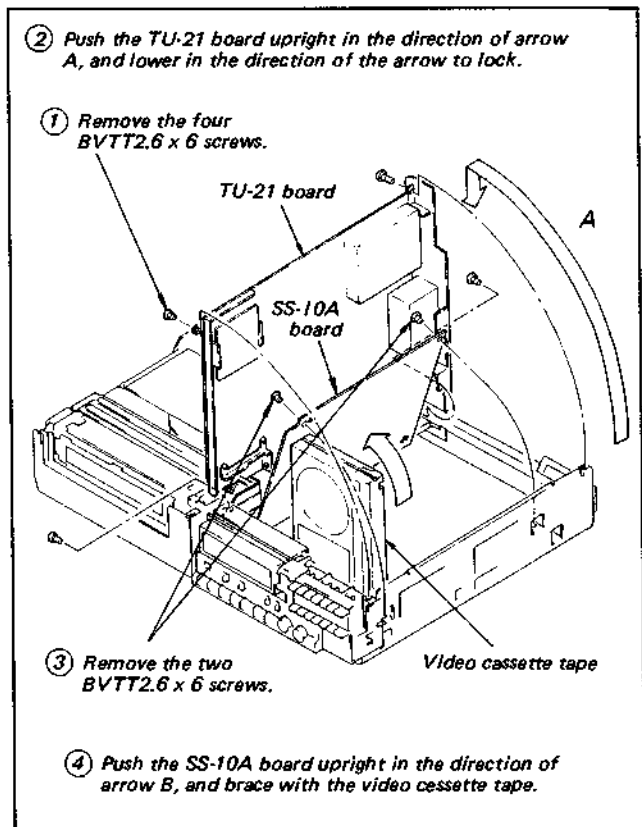
2-2. Opening RR-1A Board



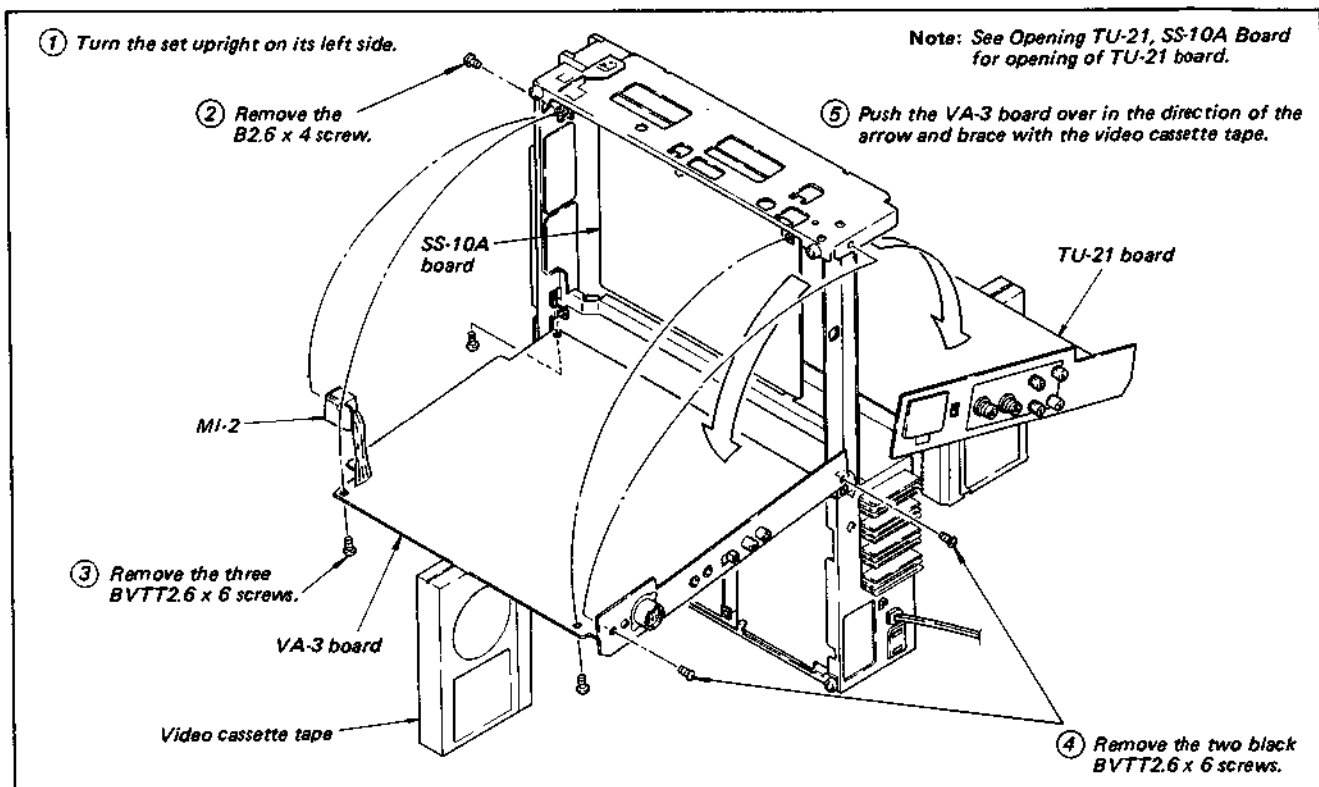
2-3. Removal of VL-3 Board



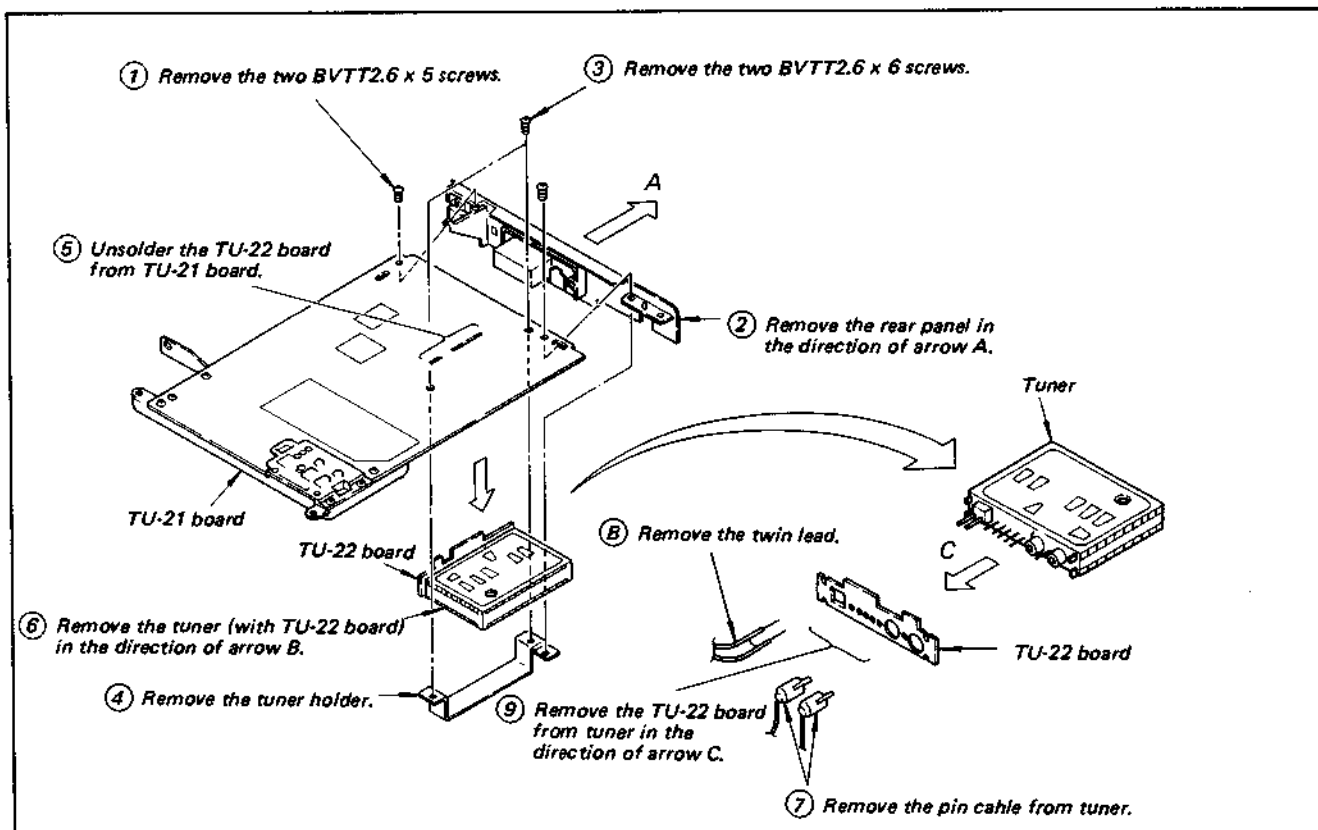
2-4. Opening TU-21, SS-10A Board



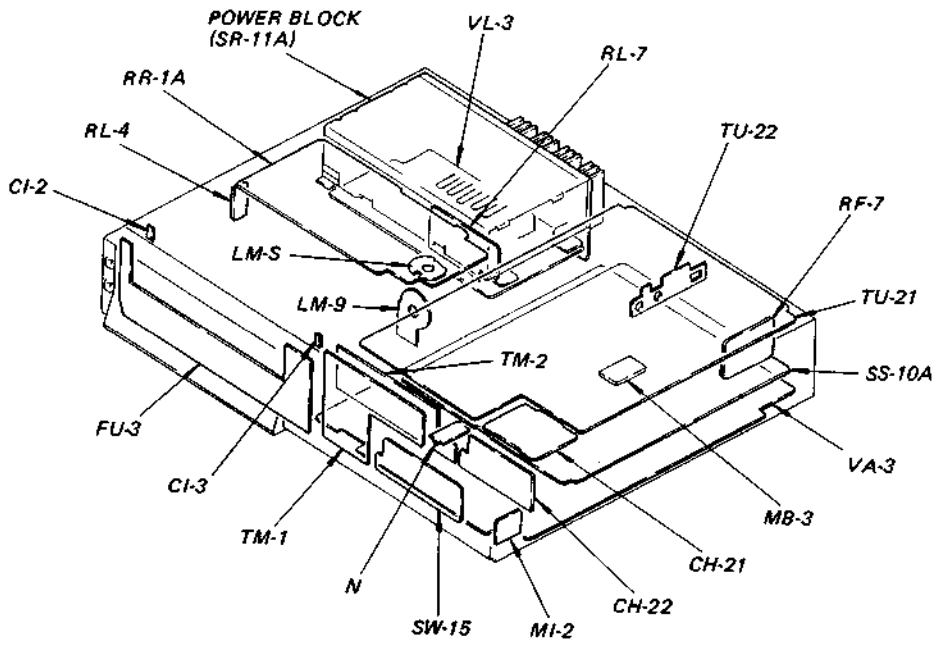
2-5. Opening TU-21, SS-10A, VA-3 and MI-2 Board (Check)



2-6. Tuner Removal

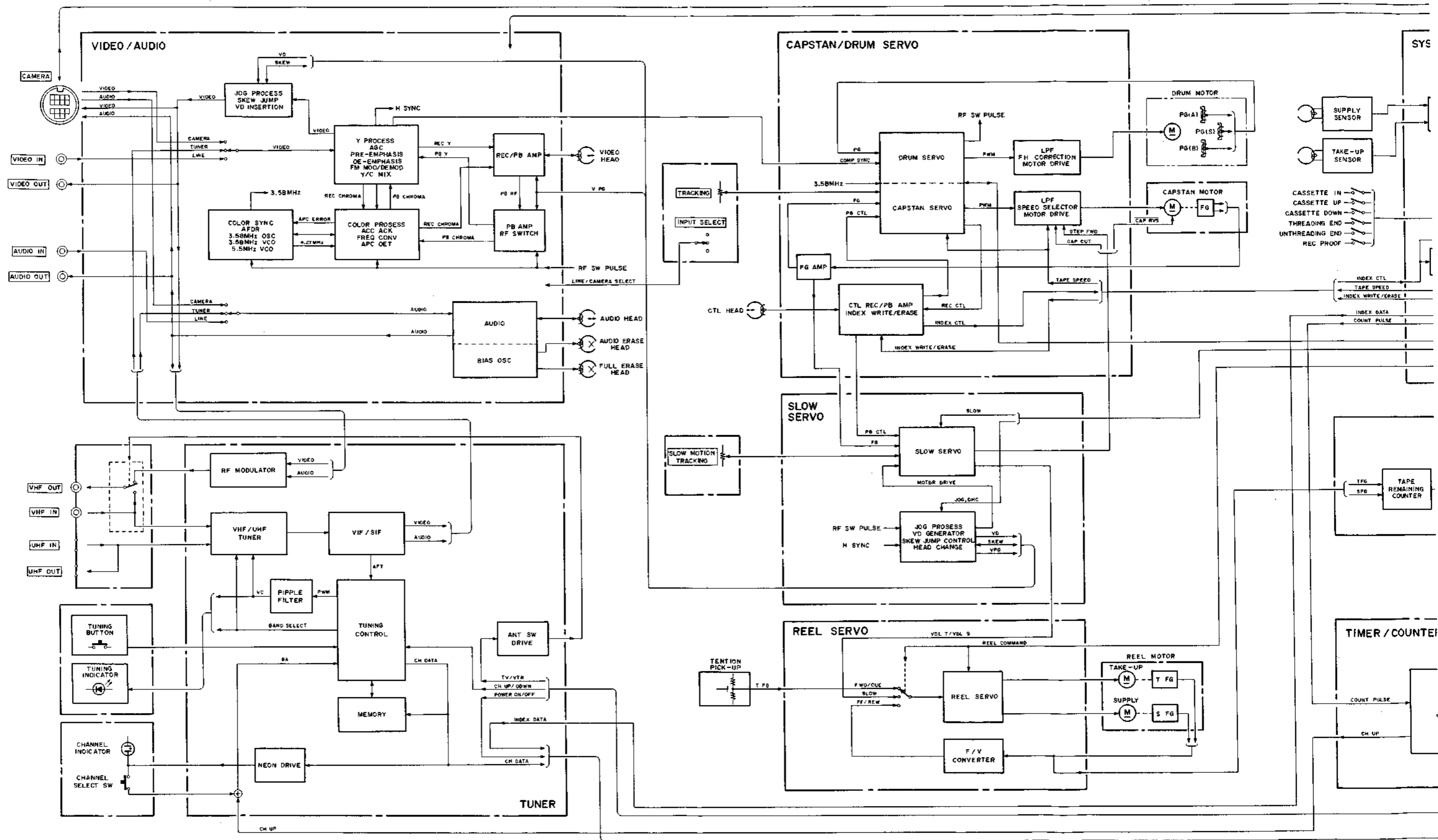


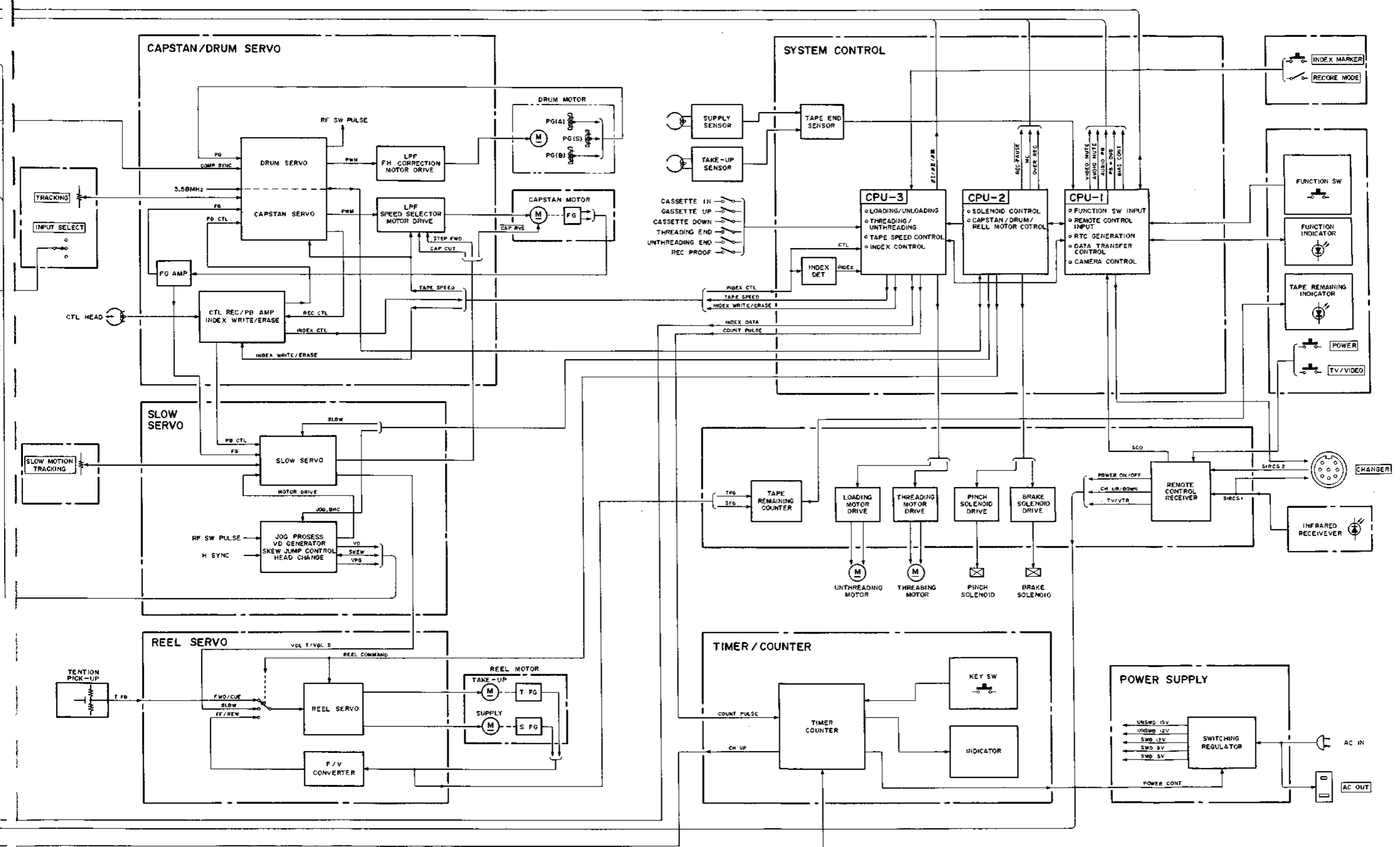
CIRCUIT BOARDS LOCATION



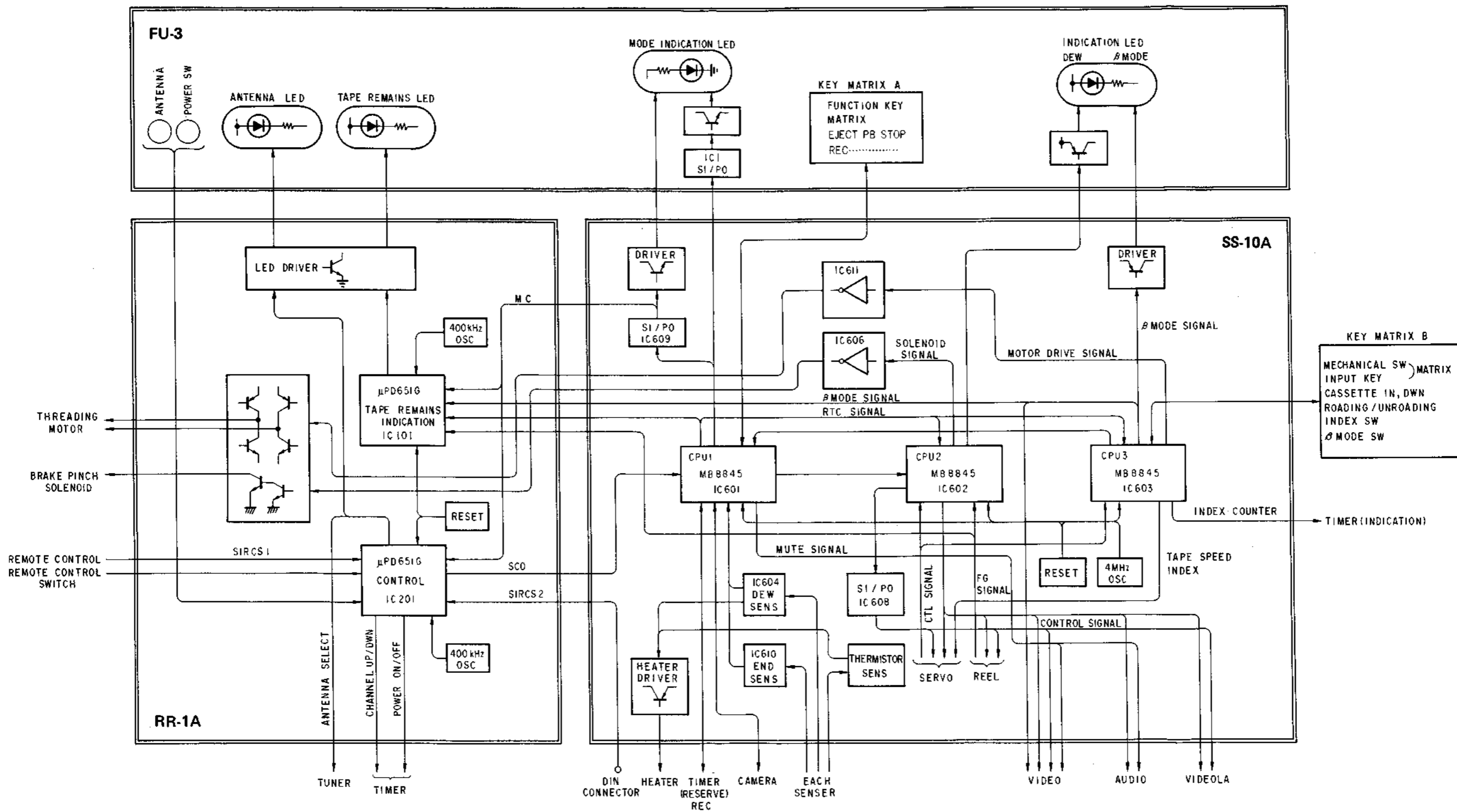
SECTION 3 BLOCK DIAGRAMS

OVERALL BLOCK DIAGRAM

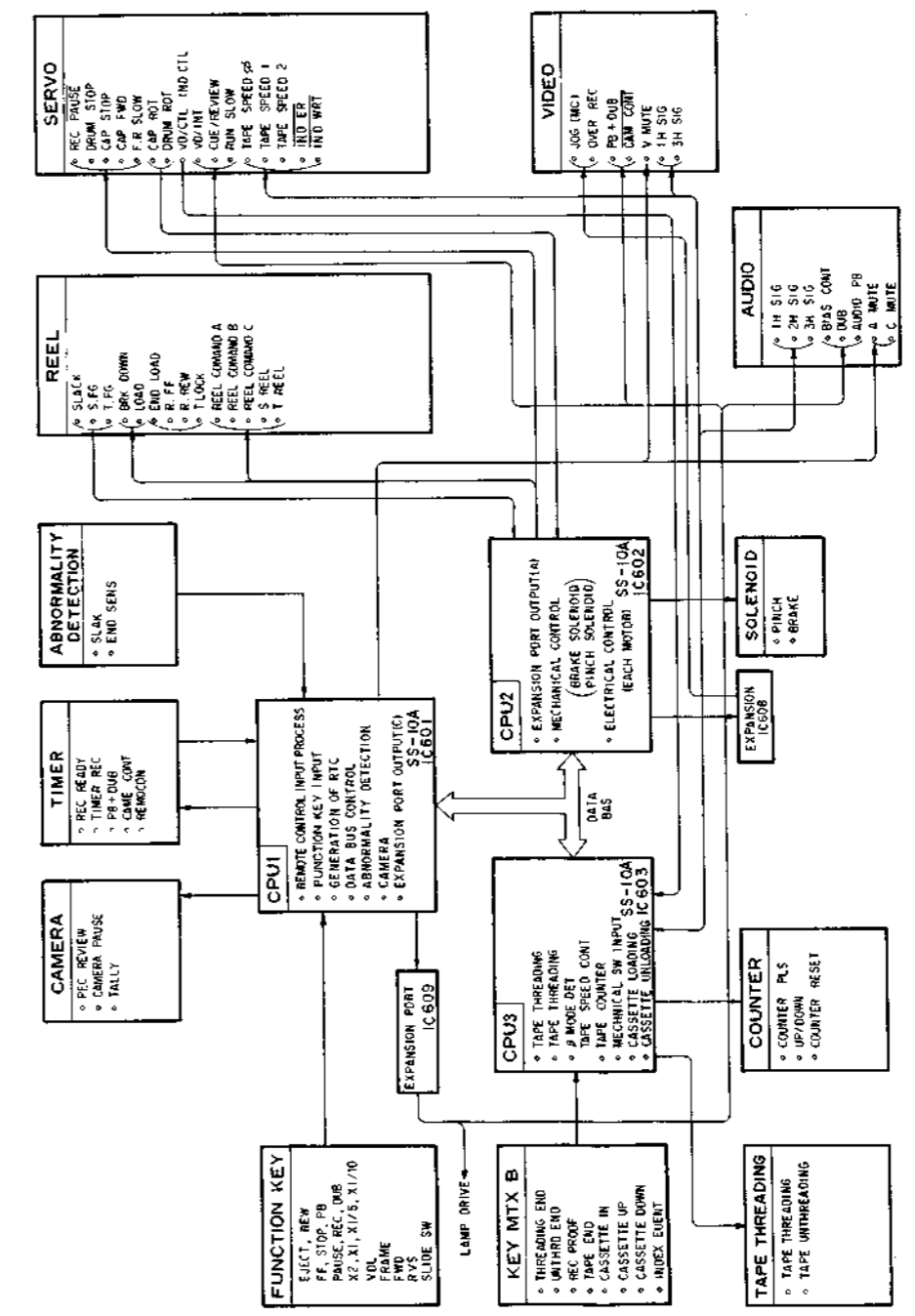
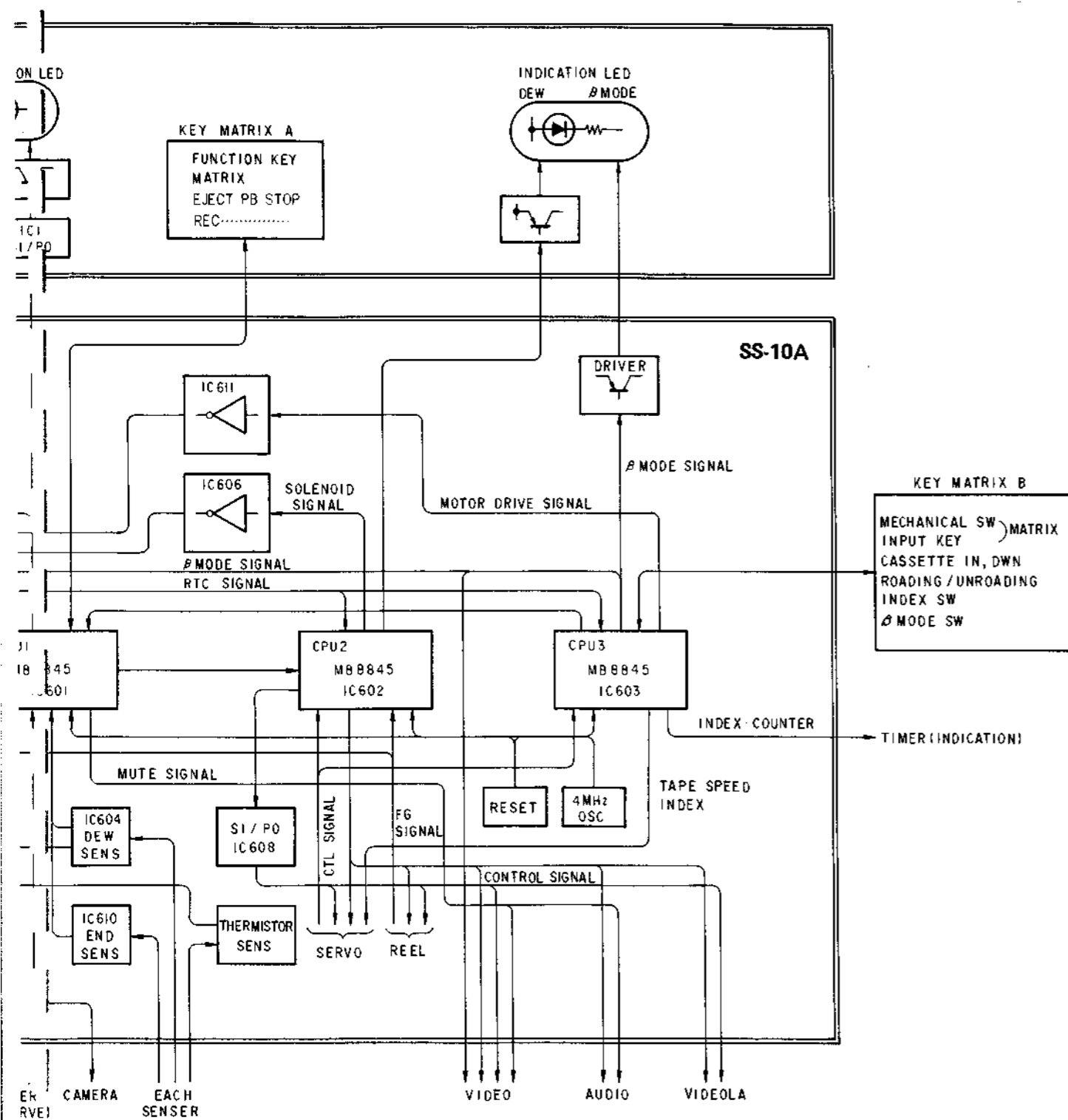




SYSTEM CONTROL BLOCK DIAGRAM



SYSTEM CONTROL BLOCK DIAGRAM (1)



SYSTEM CONTROL CIRCUIT AND MECHANISM INTERFACE

SIGNAL	MODE		Pin No.
	I/O		
BRAKE PLUNGER ON**	O		CN621-5
BRAKE PLUNGER OFF**	O		CN621-4
PINCH PLUNGER ON**	O		CN621-3
PINCH PLUNGER OFF**	O		CN621-2
THREADING MOTOR (+)**	O		CN621-6
THREADING MOTOR (-)**	O		CN621-7
CASSETTE LOADING MOTOR (+)	O		CN621-8
CASSETTE LOADING MOTOR (-)	O		CN621-9
REC PROOF SW (A)**	I		CN615-4 CPU3 16 Pin (K3)
REC PROOF SW (B)**	O		CN515-3 CPU3 29 Pin (P1)
CASSETTE IN SW (A)**	I		CN616-4 CPU3 13 Pin (K0)
CASSETTE IN SW (B)**	O		CN616-1 CPU3 29 Pin (P1)
CASSETTE DWN SW A	I		CN616-2
CASSETTE DWN SW B	O		CN616-1
CASSETTE UP SW A	I		CN516-3
CASSETTE UP SW B	O		CN616-1
LOADING END SW (A)**	I		CN615-4 CPU3 16 Pin (K3)
LOADING END SW (B)**	O		CN615-1 CPU3 32 Pin (P3)
UNLOADING END SW (A)**	I		CN615-4 CPU3 16 Pin (K3)
UNLOADING END SW (B)**	O		CN615-2 CPU3 31 Pin (P2)
S SENSOR OUT**	I		CN604-6 IC609 (H42) 7 Pin
T SENSOR OUT**	I		CN604-5 IC609 (H42) 3 Pin

- * 1 control signal for brake solenoid, pinch roller solenoid and threading motor
- * 2 key matrix signal
- * 3 when detecting dew
- * 4 osc freq 600 kHz at tape end
- * 5 osc freq 600 kHz at tape end

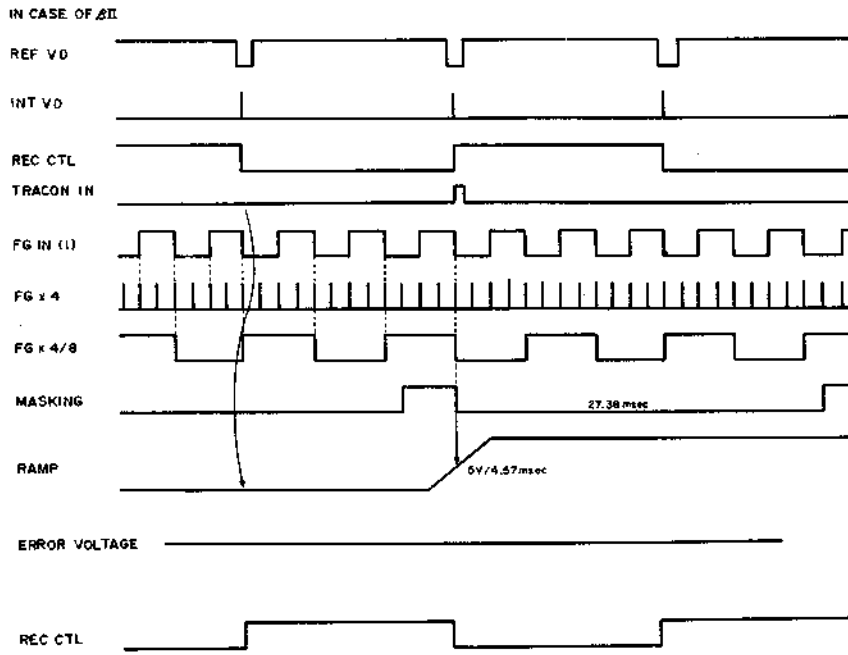
SYSTEM CONTROL CIRCUIT AND TUNER CIRCUIT INTERFACE

SIGNAL *1	MODE		Pin No.	STOP	PB	REC	FF	REW	CUE	REV	PB PAUSE	REC PAUSE	THREADING	EJECT	DUB	DUB PAUSE
	I/O															
REC-PAUSE	O		CN620-5	L	L	H	L	L	L	L	L	L	L	L	L	L
INDEX (3) } *2	O		CN620-4 CPU3 40 Pin ($\bar{O}7$)													
INDEX (2)	O		CN620-3 CPU3 39 Pin ($\bar{O}6$)													
INDEX (1)	O		CN620-3 CPU3 38 Pin ($\bar{O}5$)													
INDEX (0)	O		CN620-1 CPU3 37 Pin ($\bar{O}4$)													

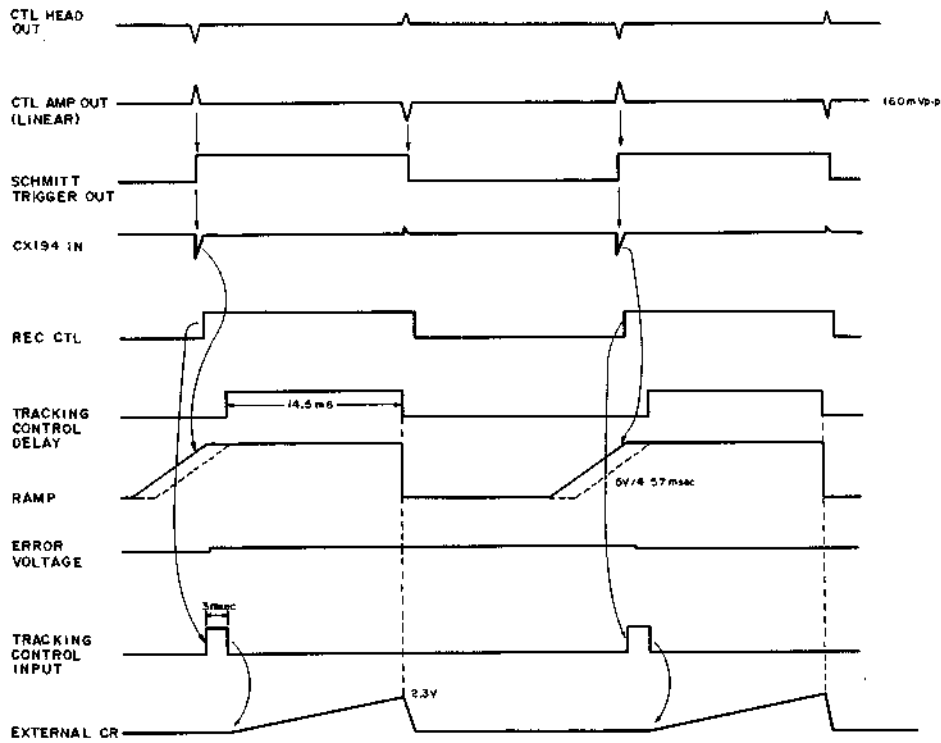
* 1 Signal is correspond to connector (refer to Pin No.)

* 2 $\bar{O}H \sim 9H$; Index indication, EH: "IND" Flash, FH: "IND", "Lamp OFF, when power is OFF, Tuner block side is no use signal, 4 bit-binary

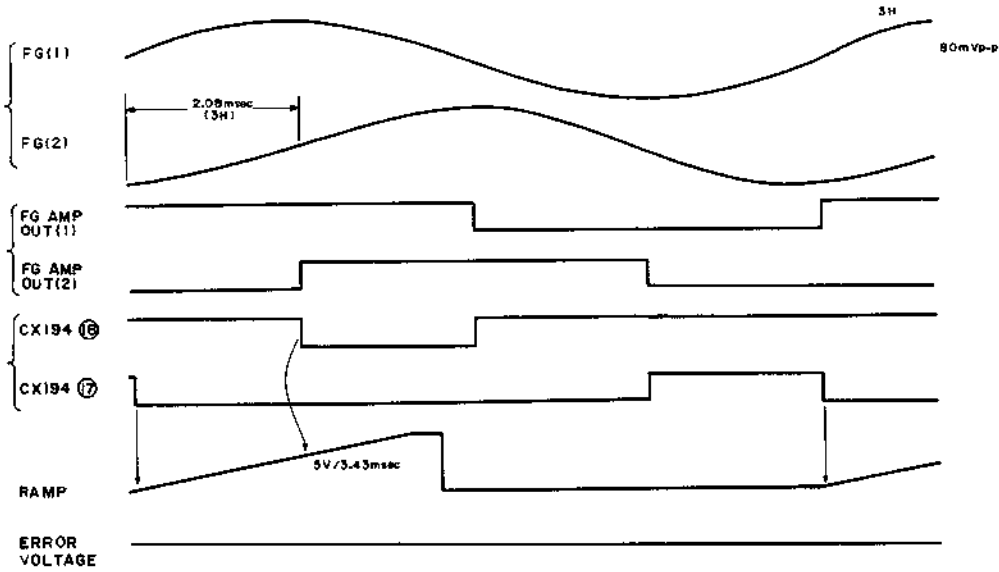
CAPSTAN PHASE SYSTEM TIMING CHART (REC)



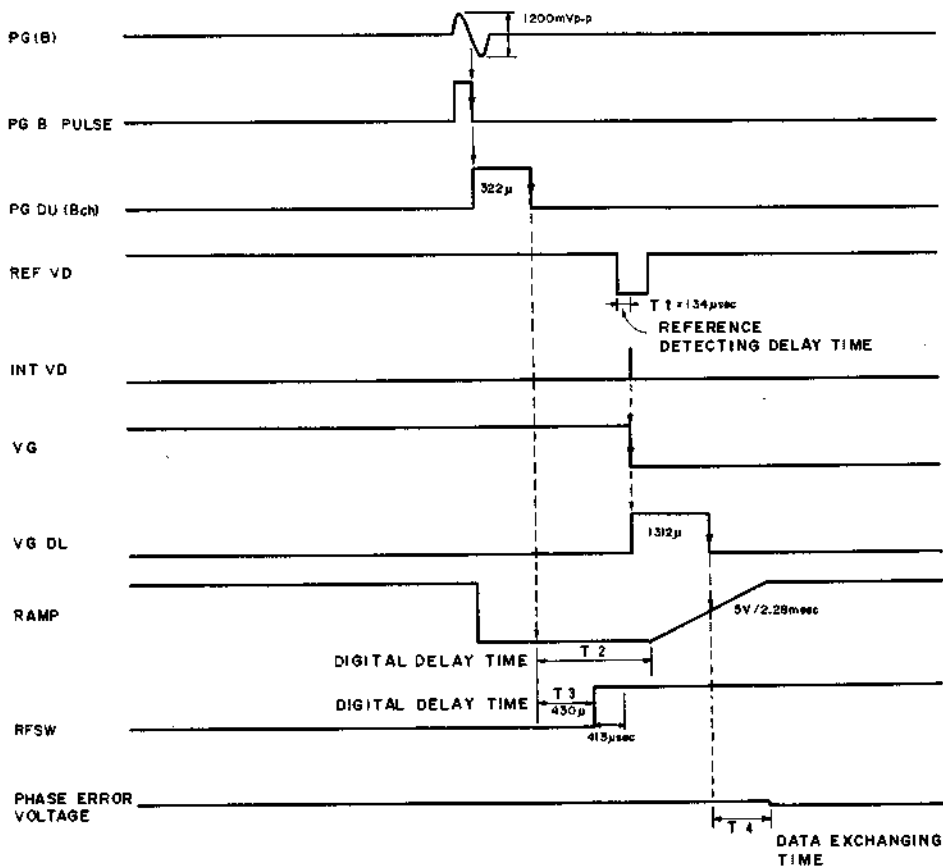
CAPSTAN PHASE SYSTEM TIMING CHART (PB)



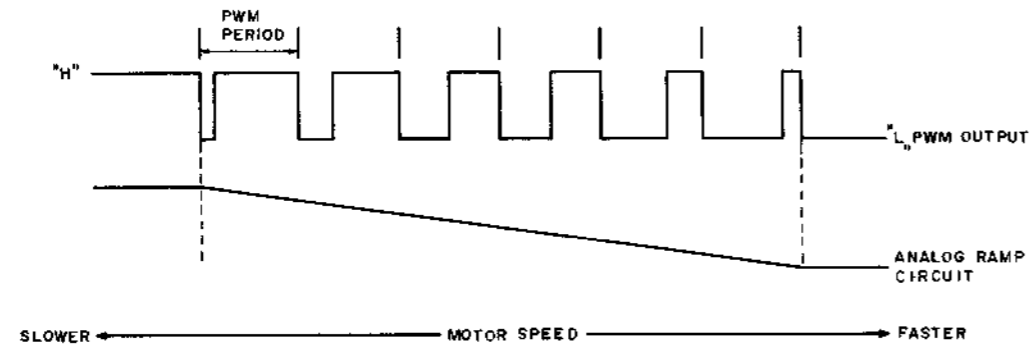
CAPSTAN SPEED SYSTEM TIMING CHART



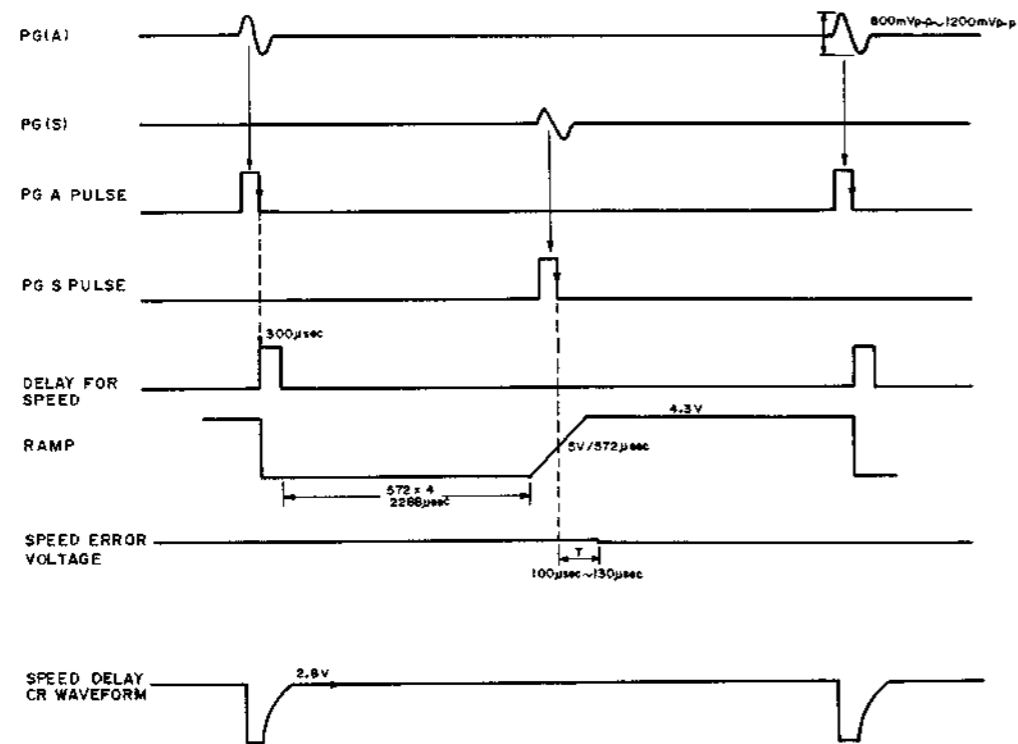
DRUM PHASE SYSTEM TIMING CHART



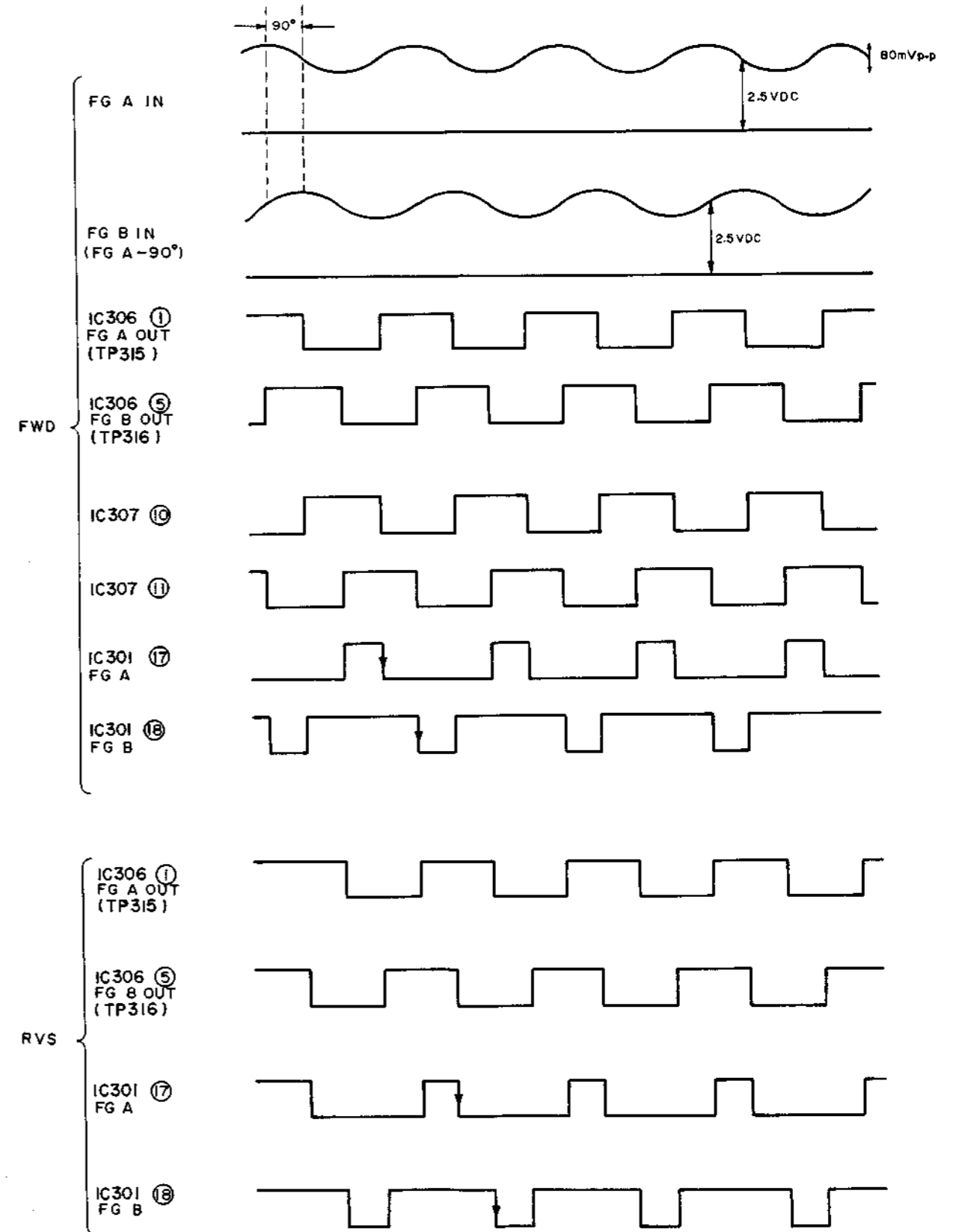
INSTRUMENTATION COUNTER TIMING CHART



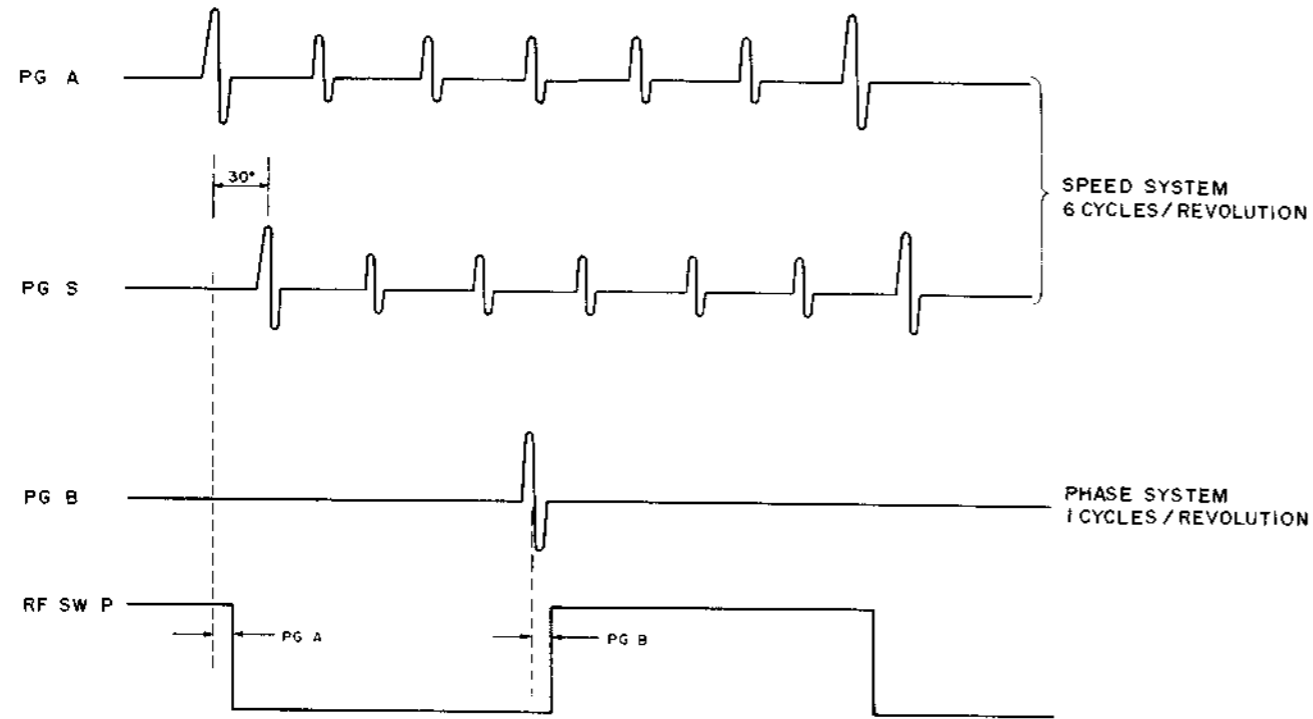
DRUM SPEED SYSTEM TIMING CHART



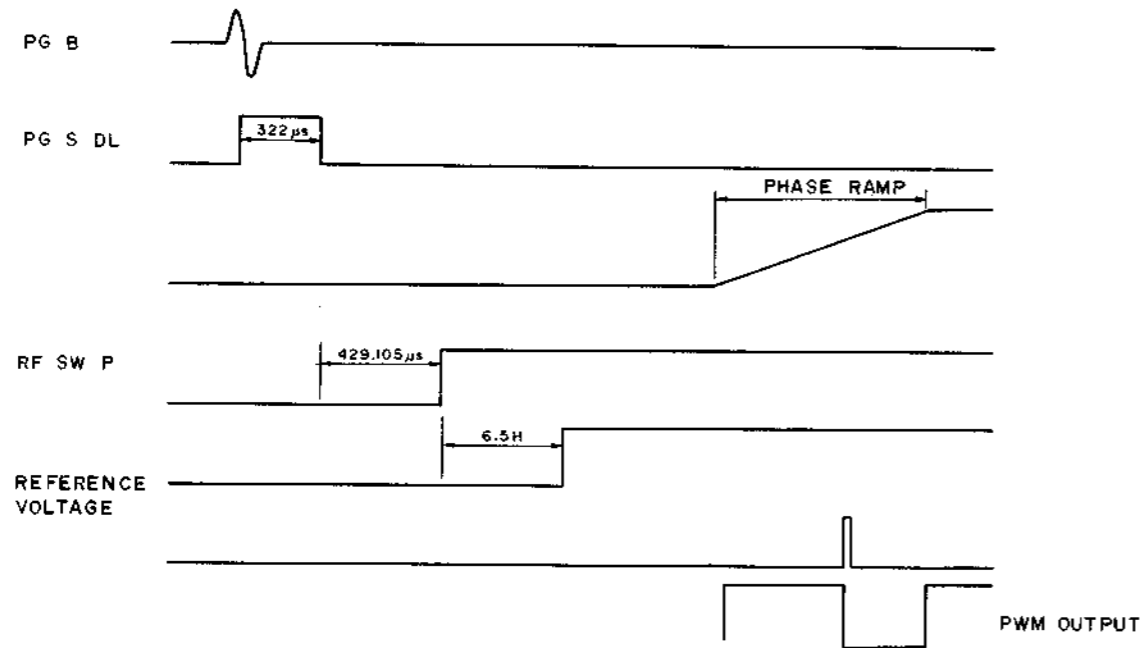
FG CIRCUIT TIMING CHART



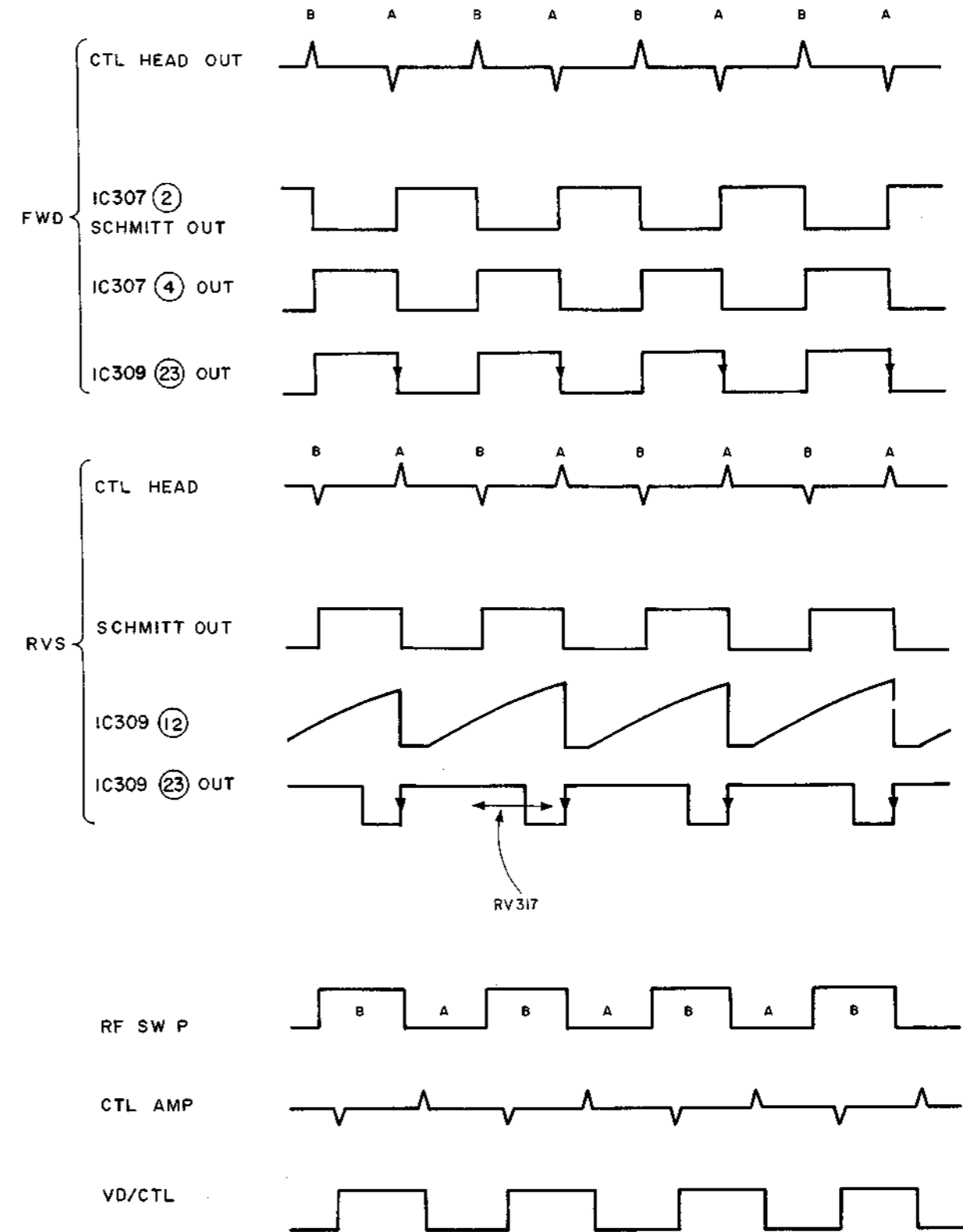
PG-A, PG-B, PGS TIMING CHART



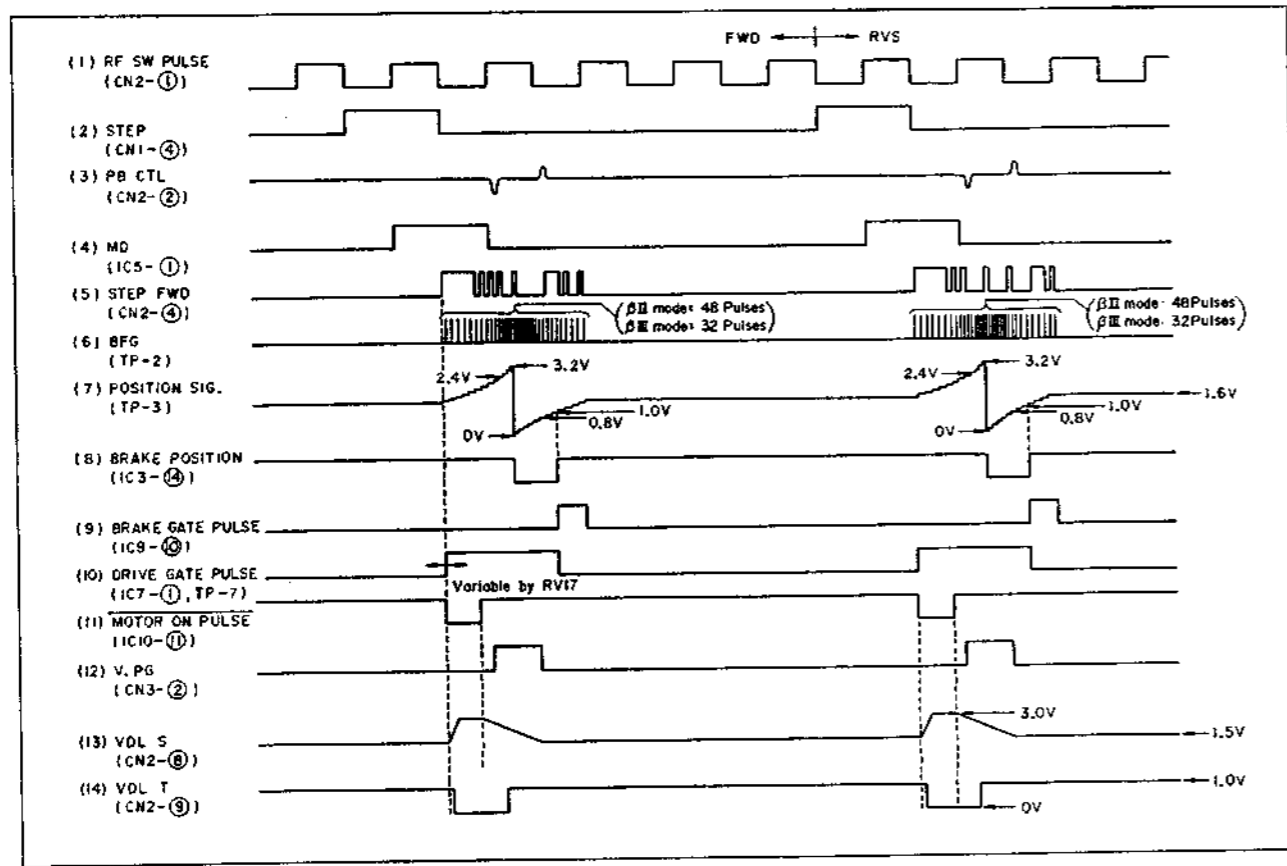
PG-A, PGS TIMING CHART (REC/PB)



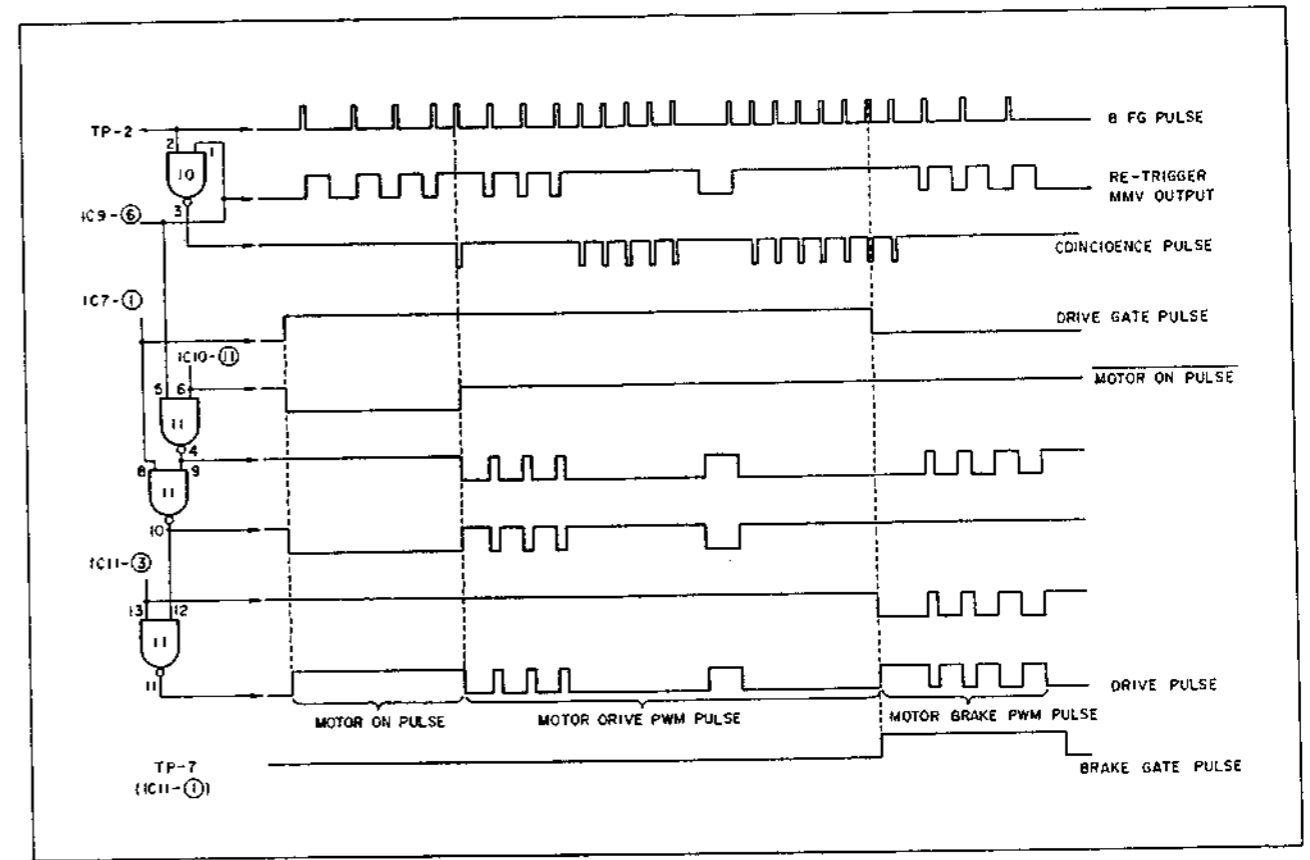
CTL CIRCUIT OF IC409 TIMING CHART



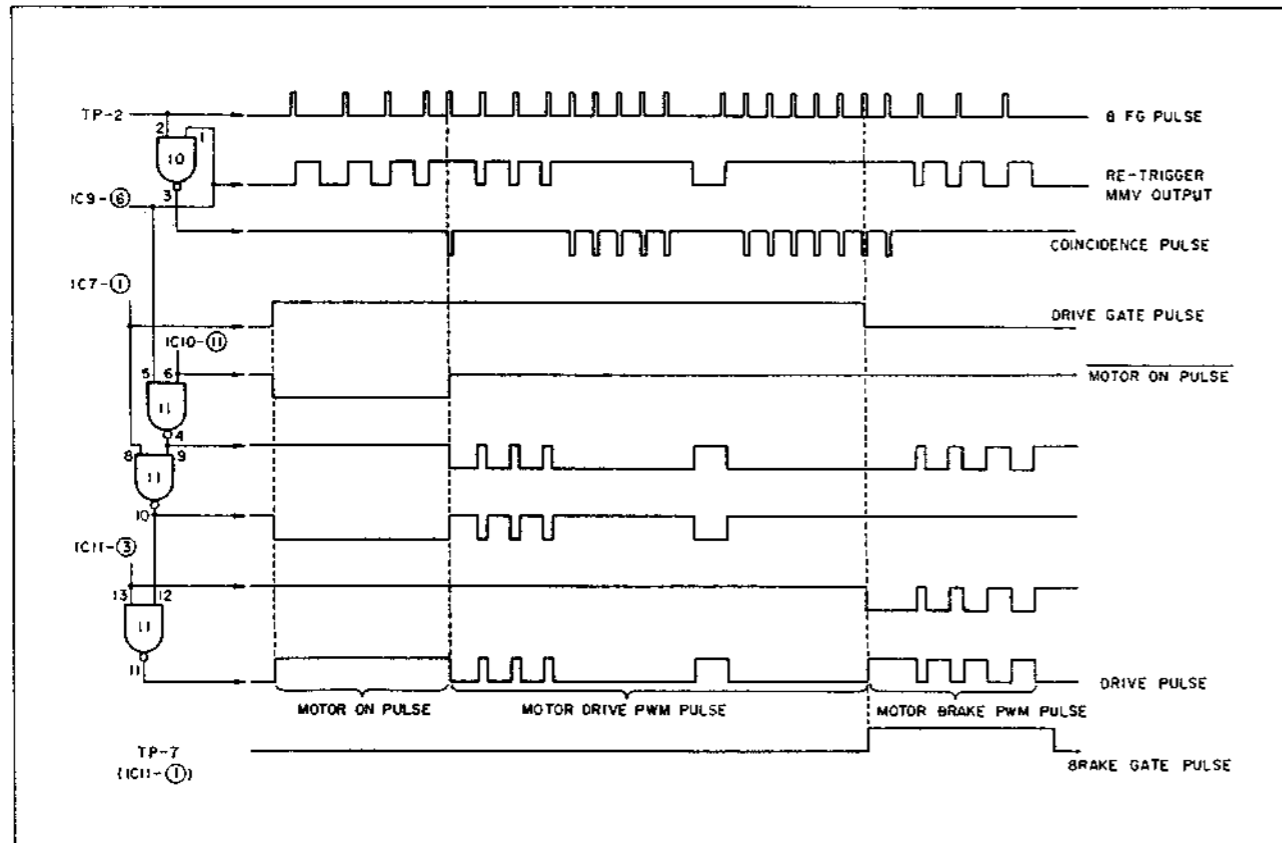
SWING SEARCH SERVO TIMING CHART (1)



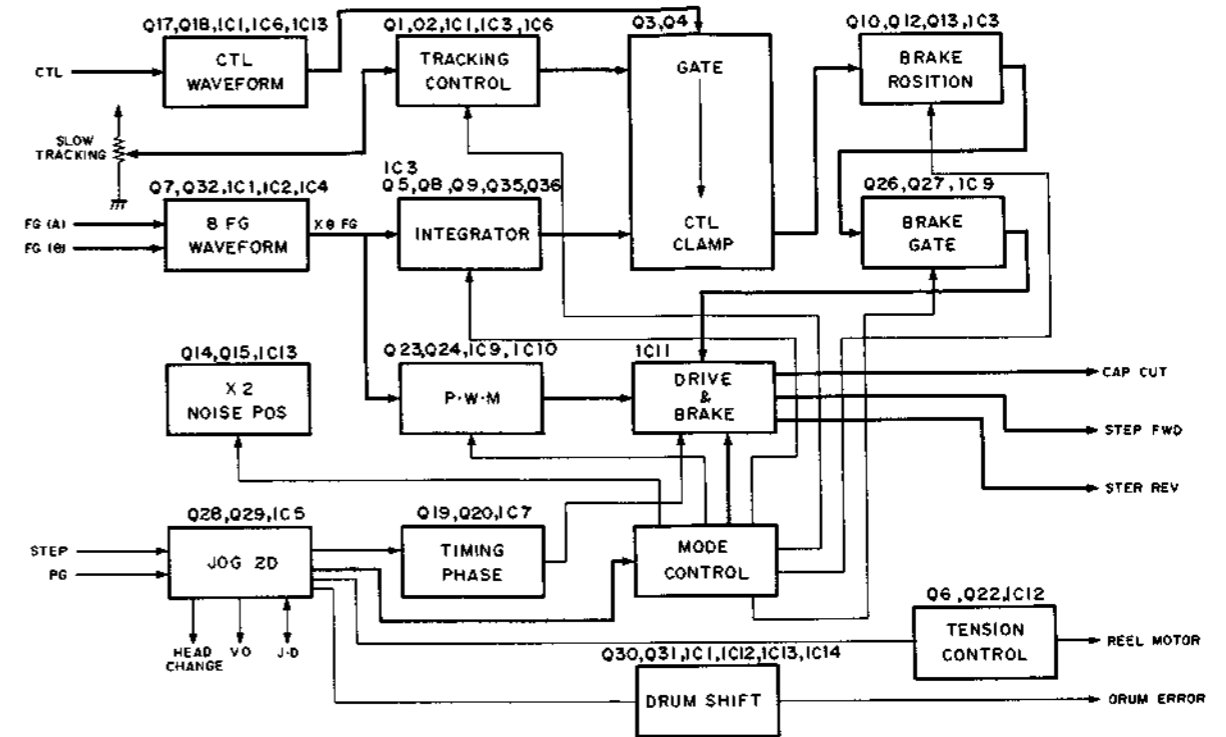
SWING SEARCH SERVO TIMING CHART (2)



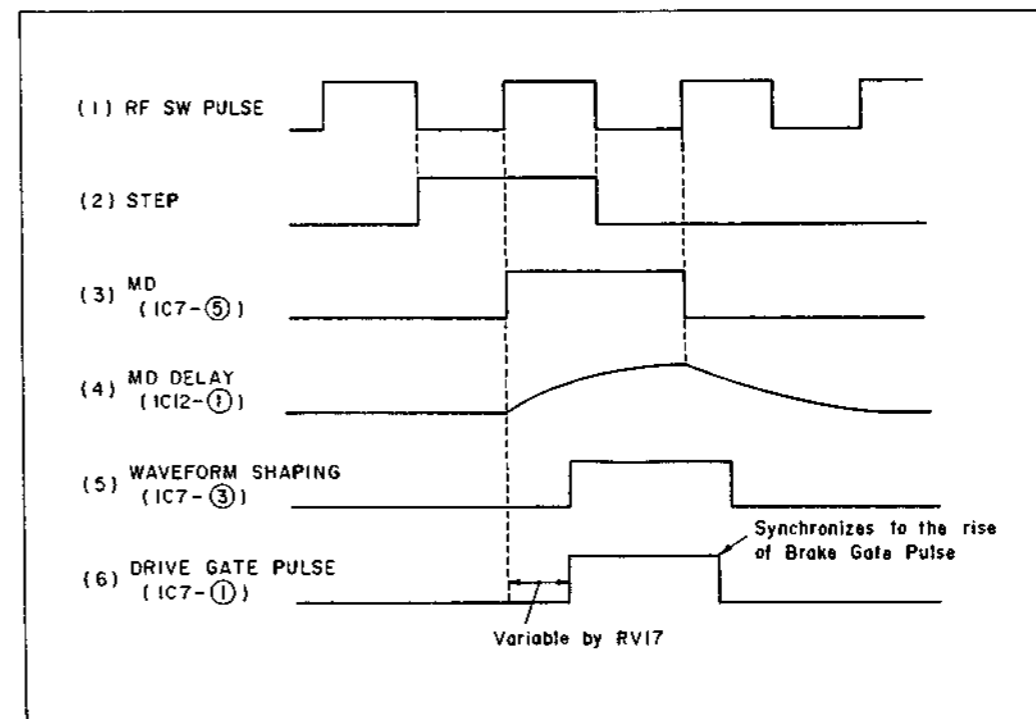
SWING SEARCH SERVO TIMING CHART (2)



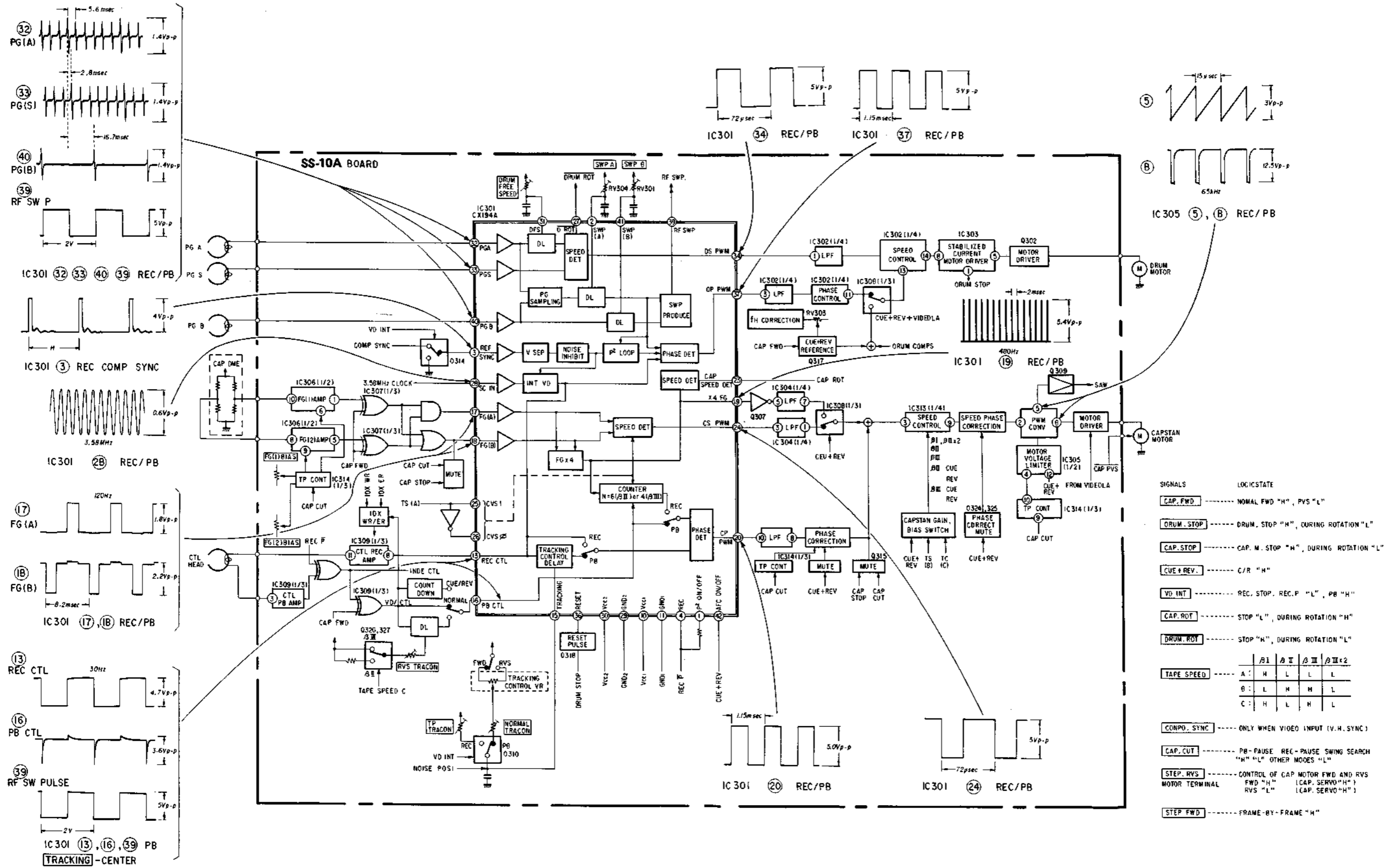
SWING SEARCH SERVO BLOCK DIAGRAM



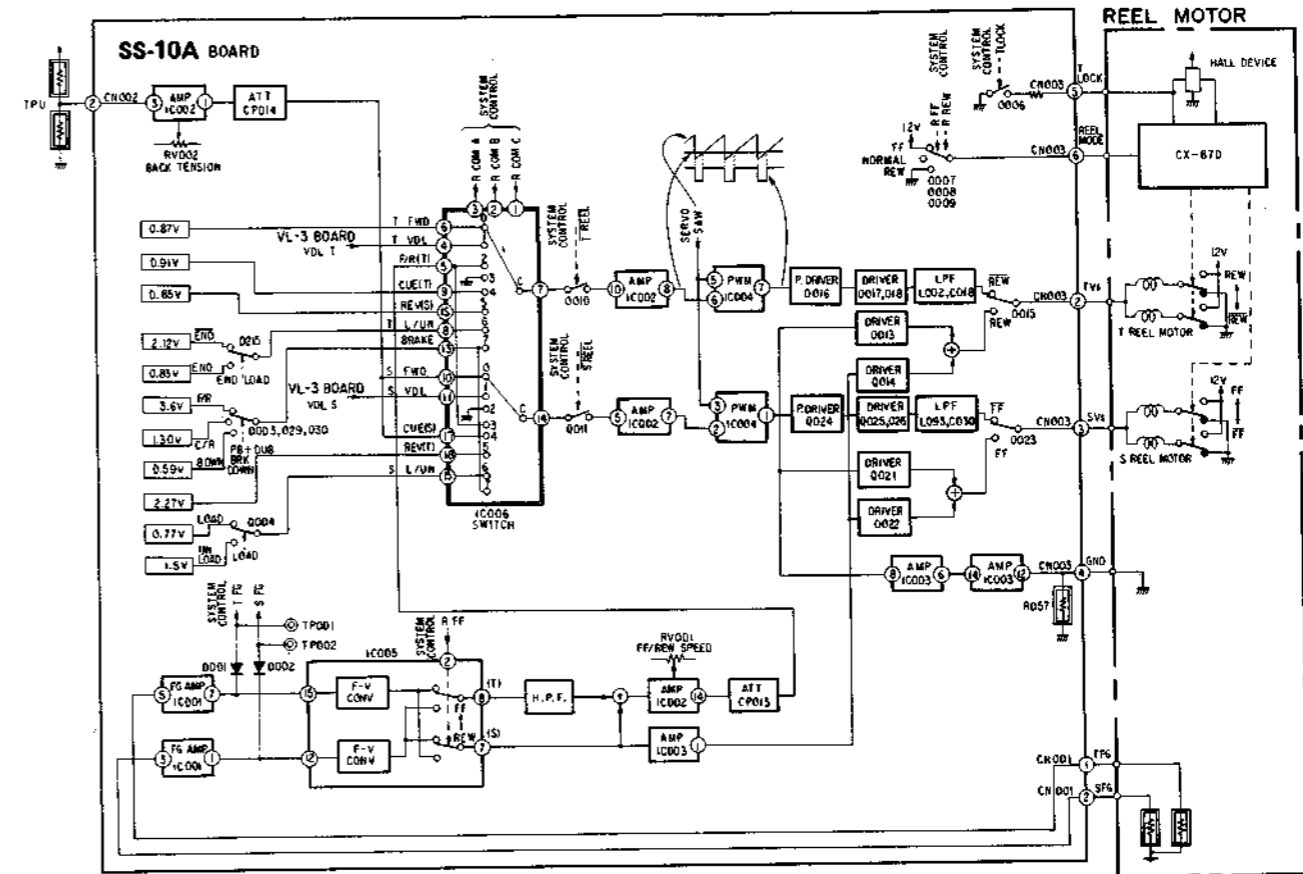
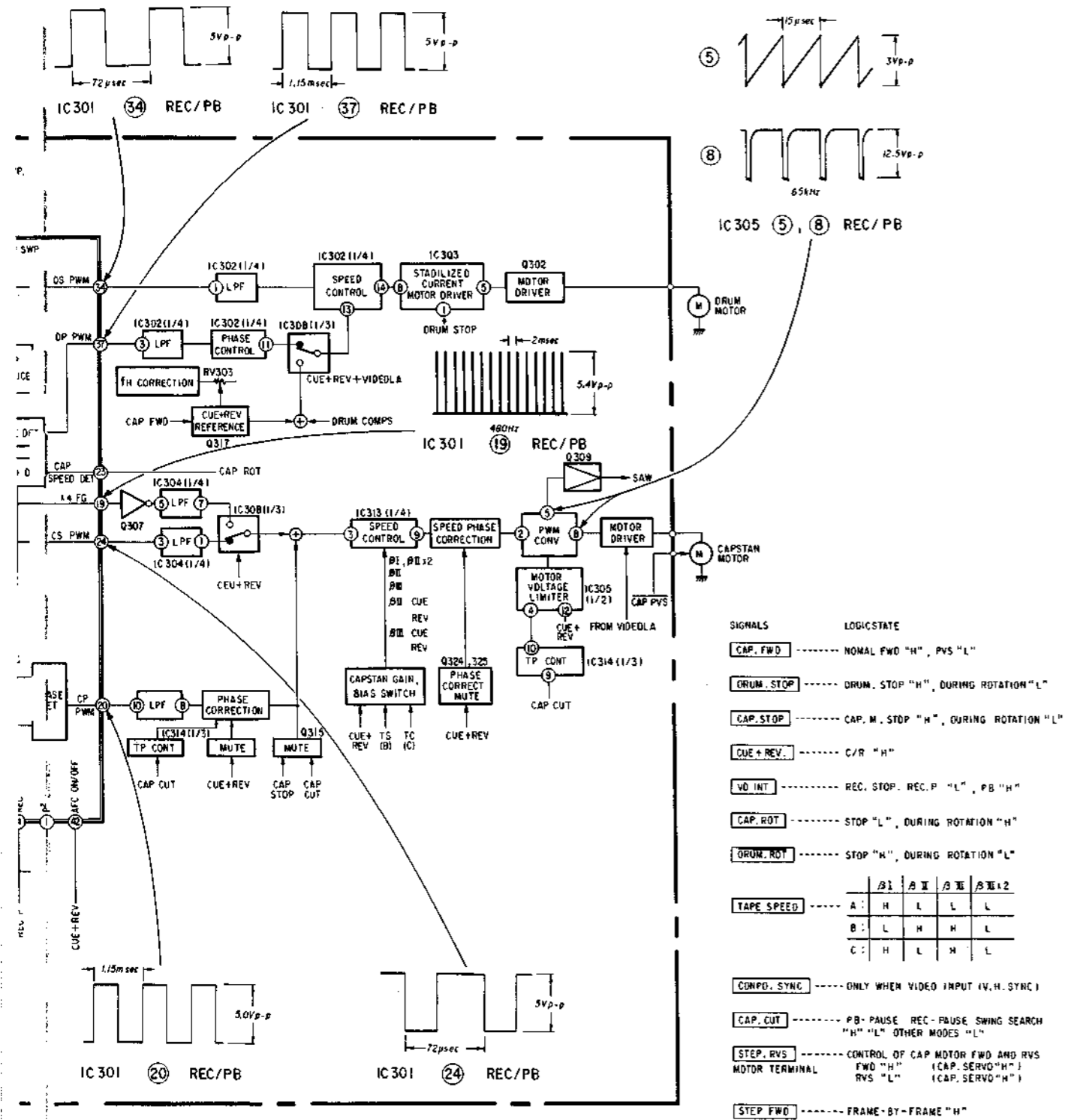
SWING SEARCH SERVO TIMING CHART (3)



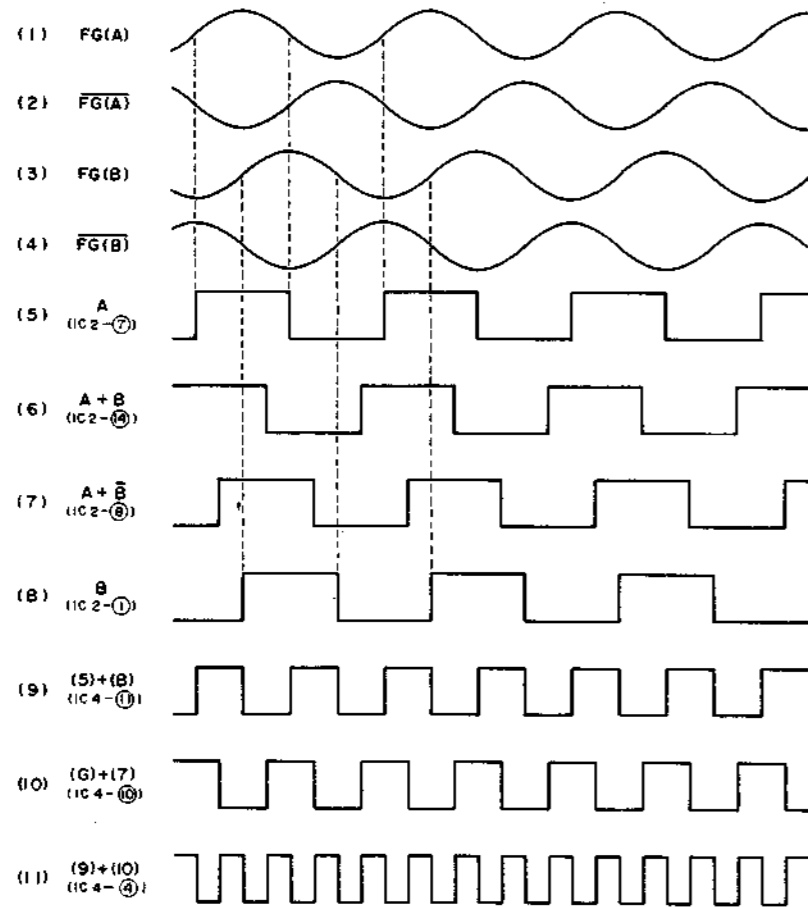
SERVO BLOCK DIAGRAM (DRUM/CAPSTAN)



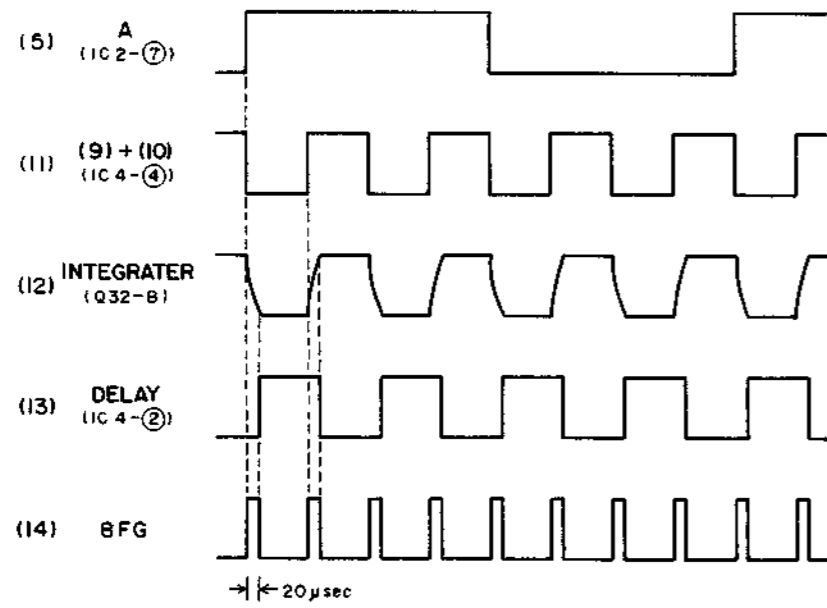
REEL SERVO BLOCK DIAGRAM



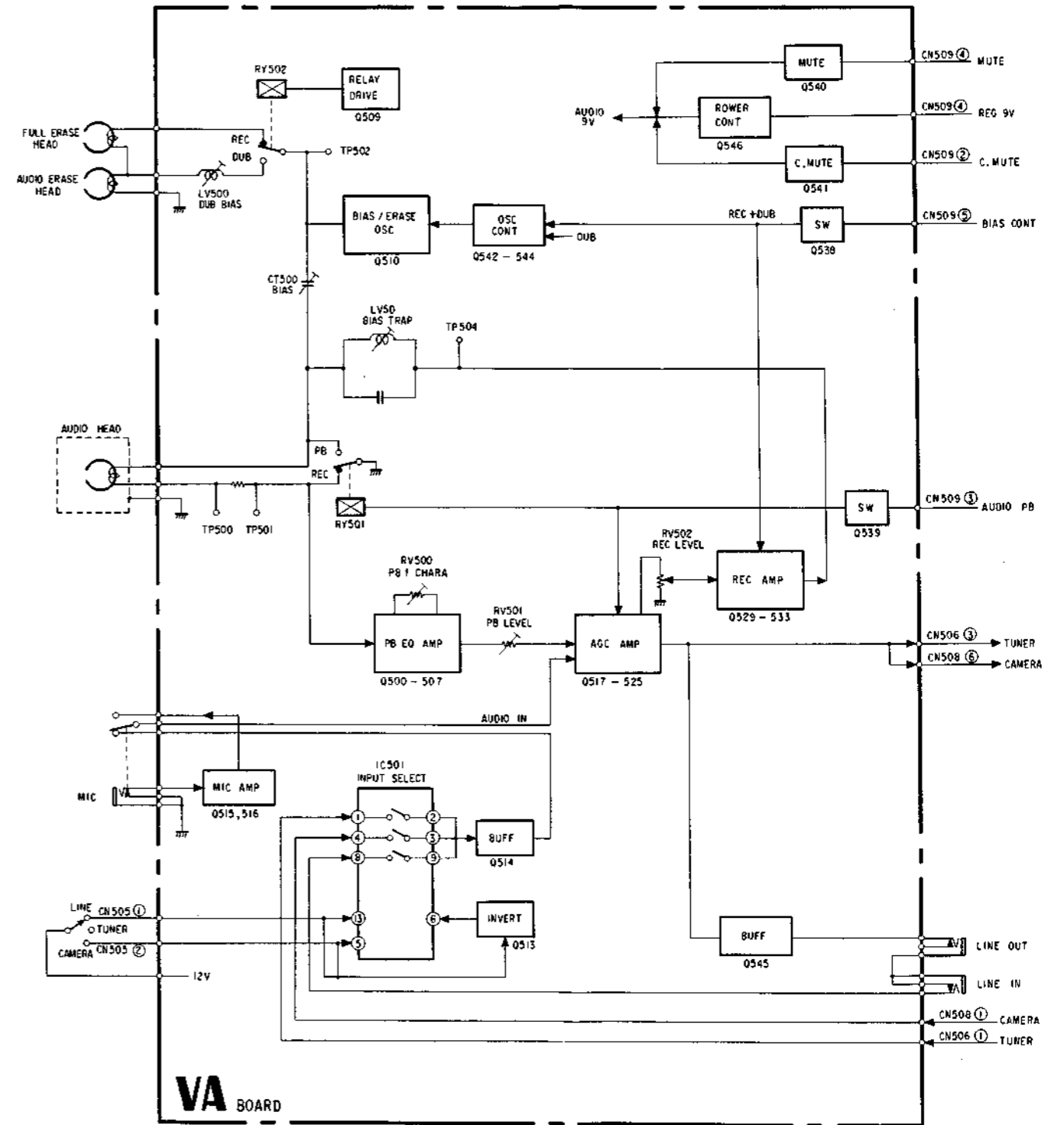
SFG SIGNAL GENERATOR TIMING CHART (1)



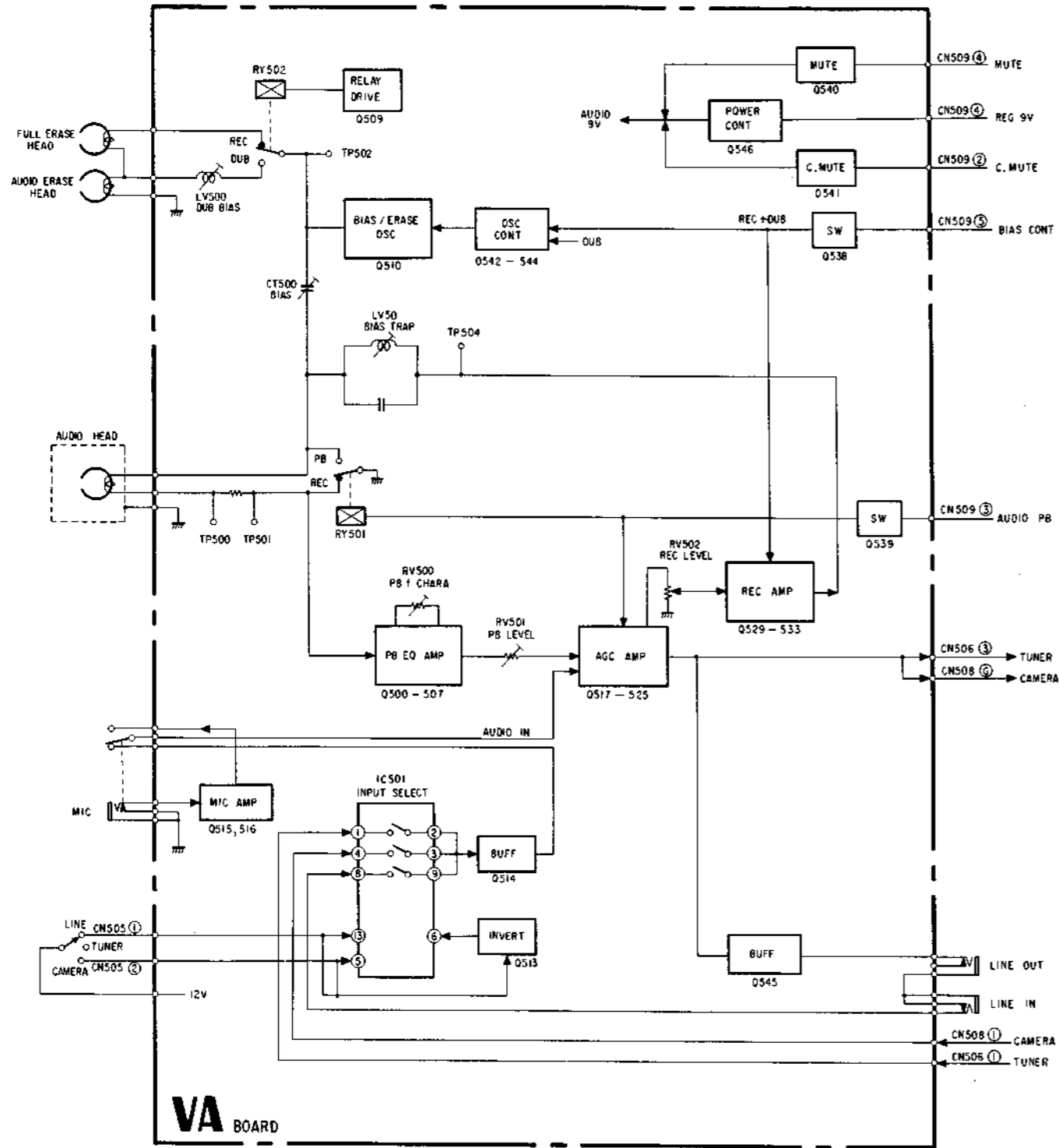
SFG SIGNAL GENERATOR TIMING CHART (2)



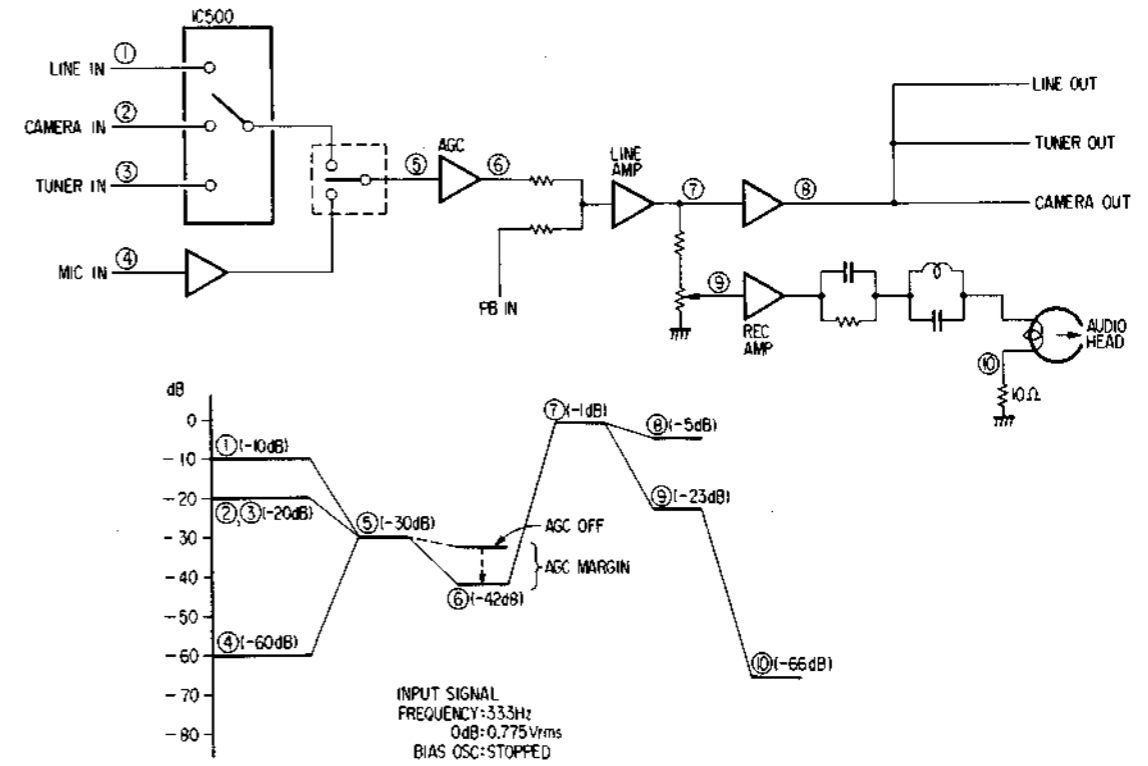
AUDIO BLOCK DIAGRAM



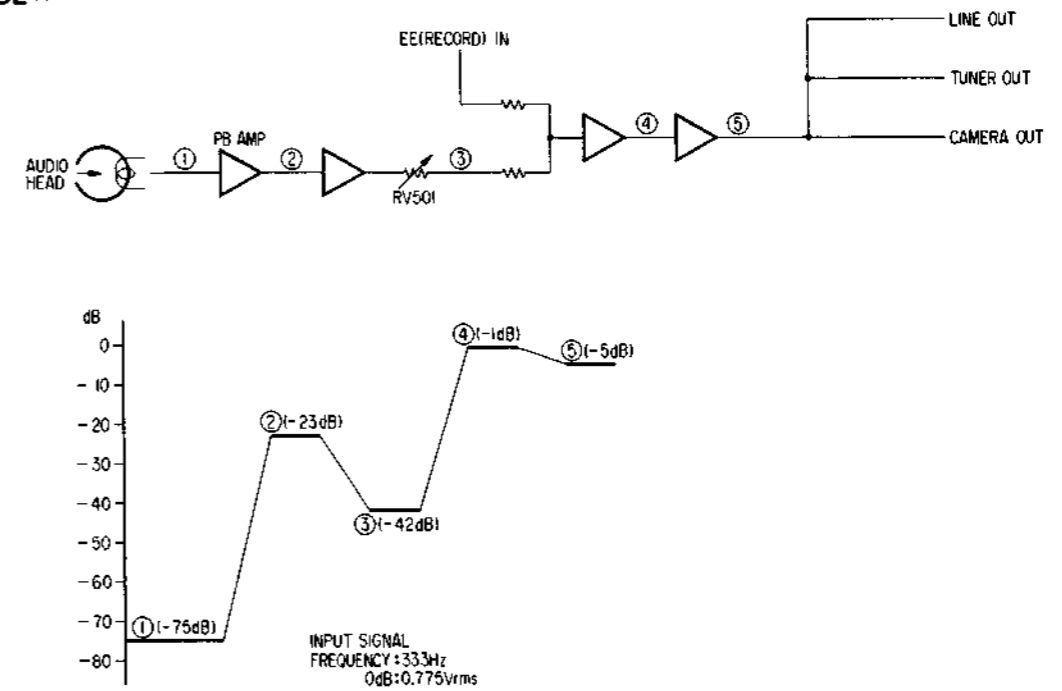
AUDIG BLDCK DIAGRAM



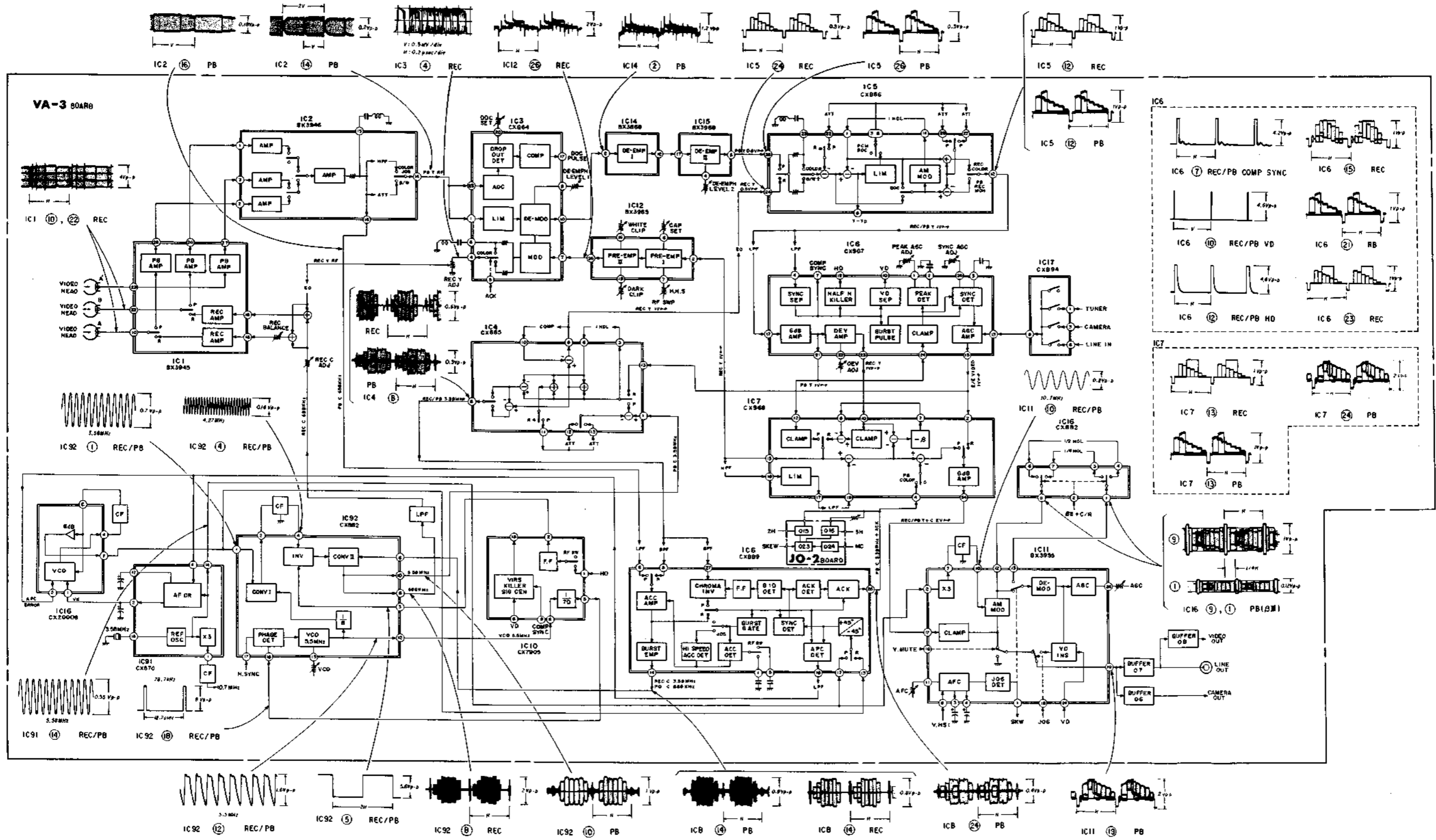
**AUDIG LEVEL DIAGRAM
- REC MDDE -**



- PB MDDE -

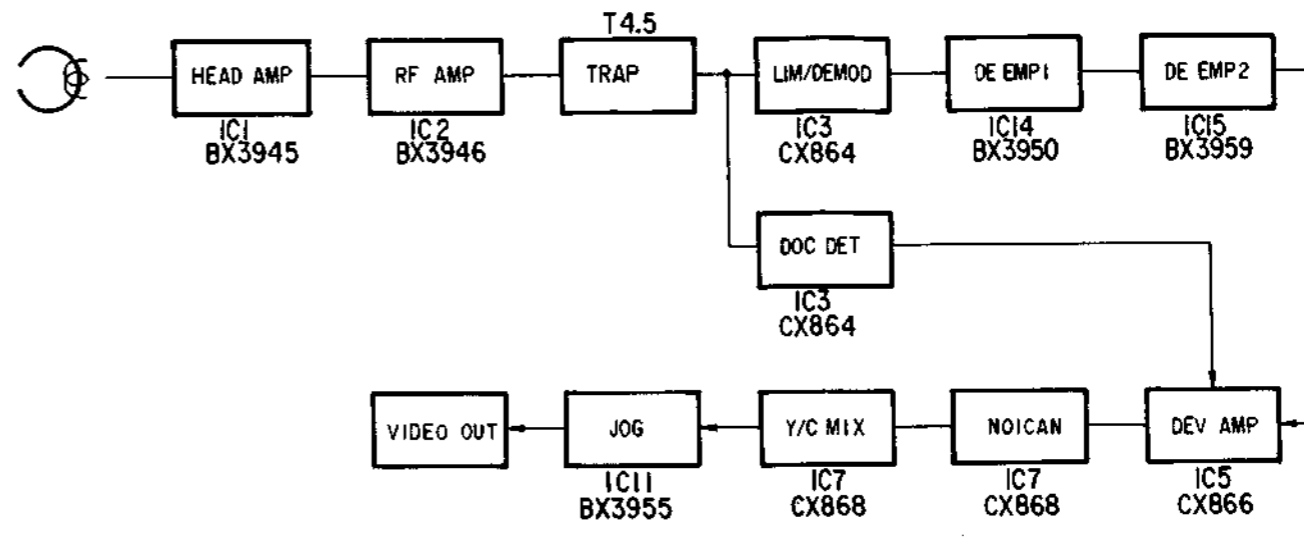


VIDEO BLOCK DIAGRAM

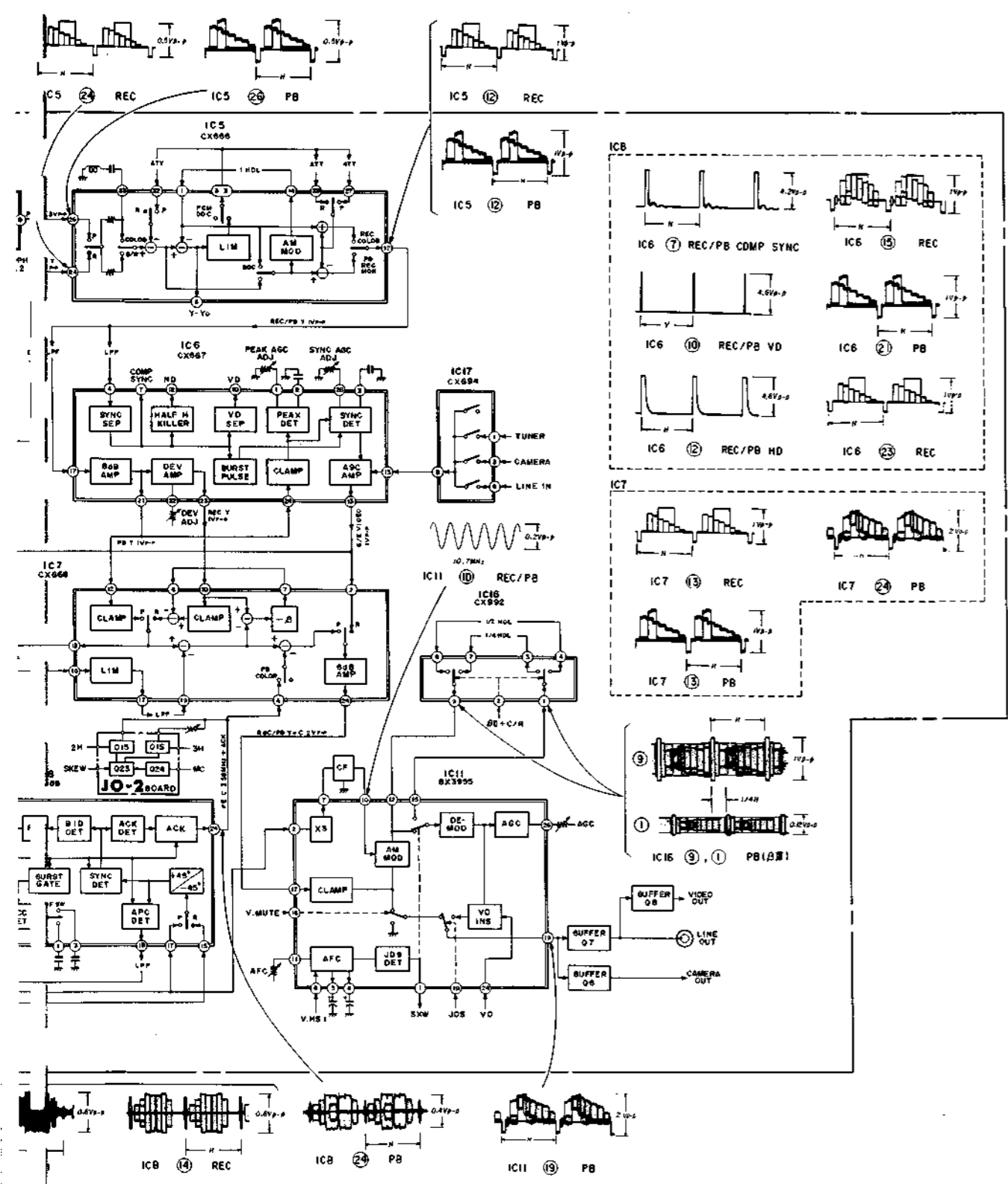
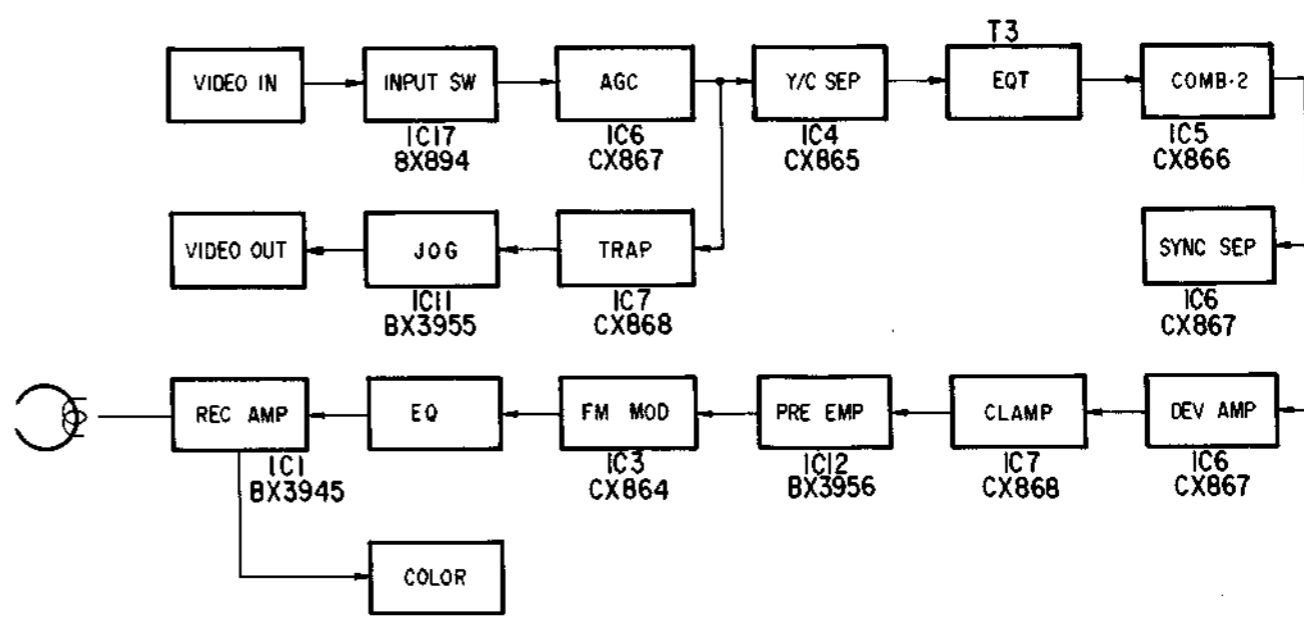


VIDEO Y BLOCK DIAGRAM

PB Y

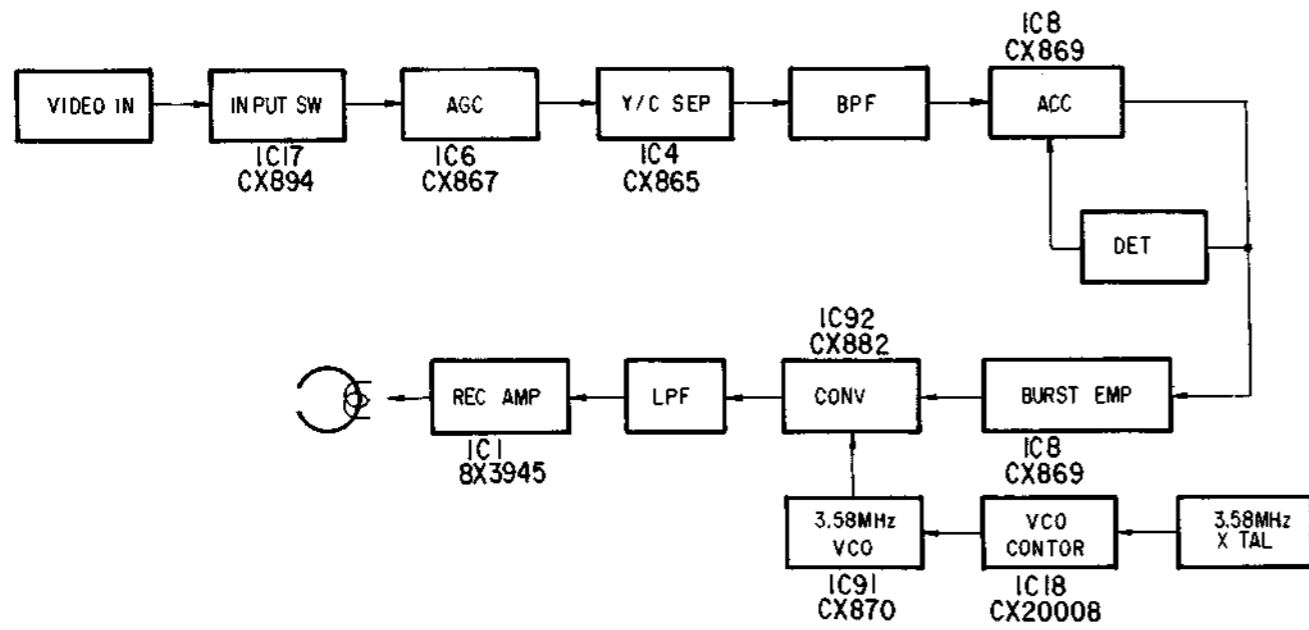


REC Y

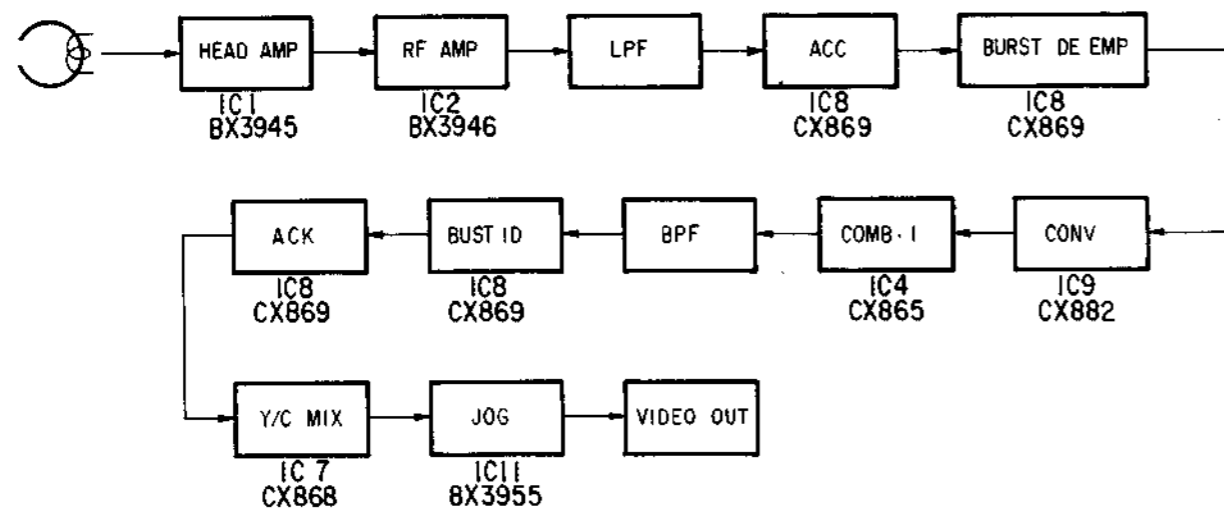


VIDEO CHROMA BLOCK DIAGRAM

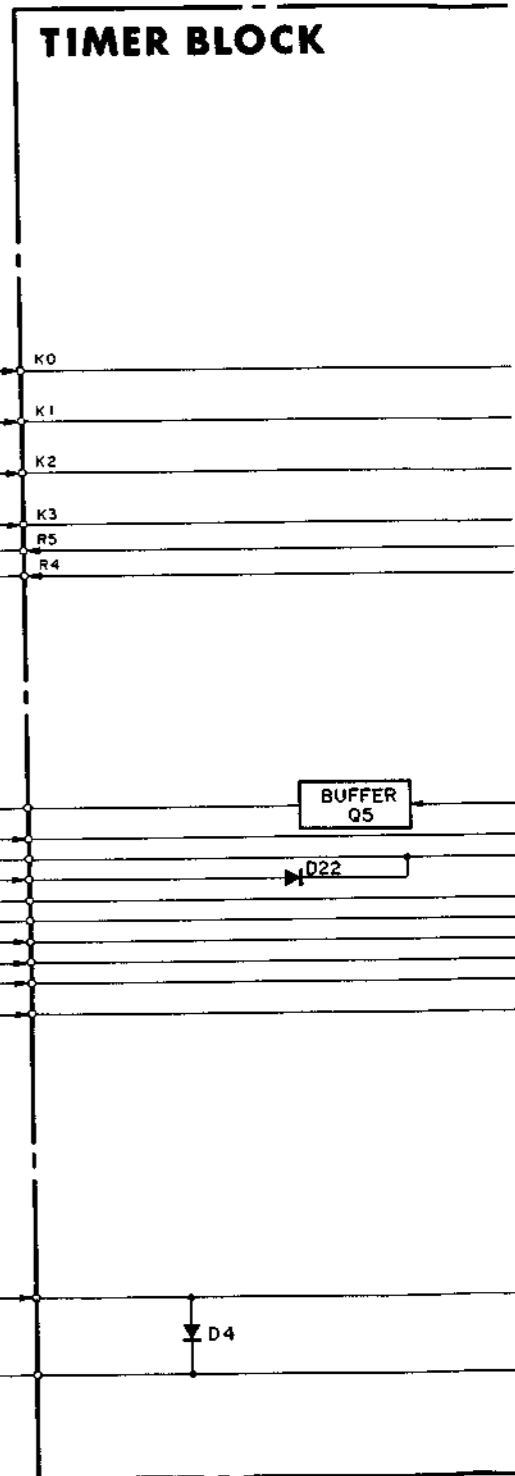
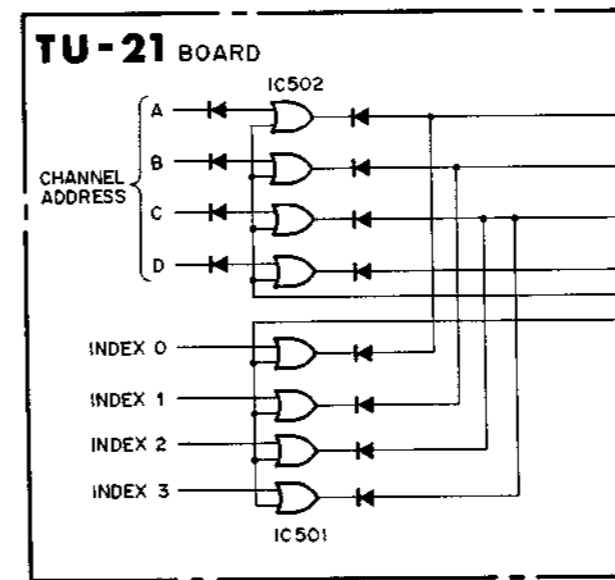
REC CHROMA



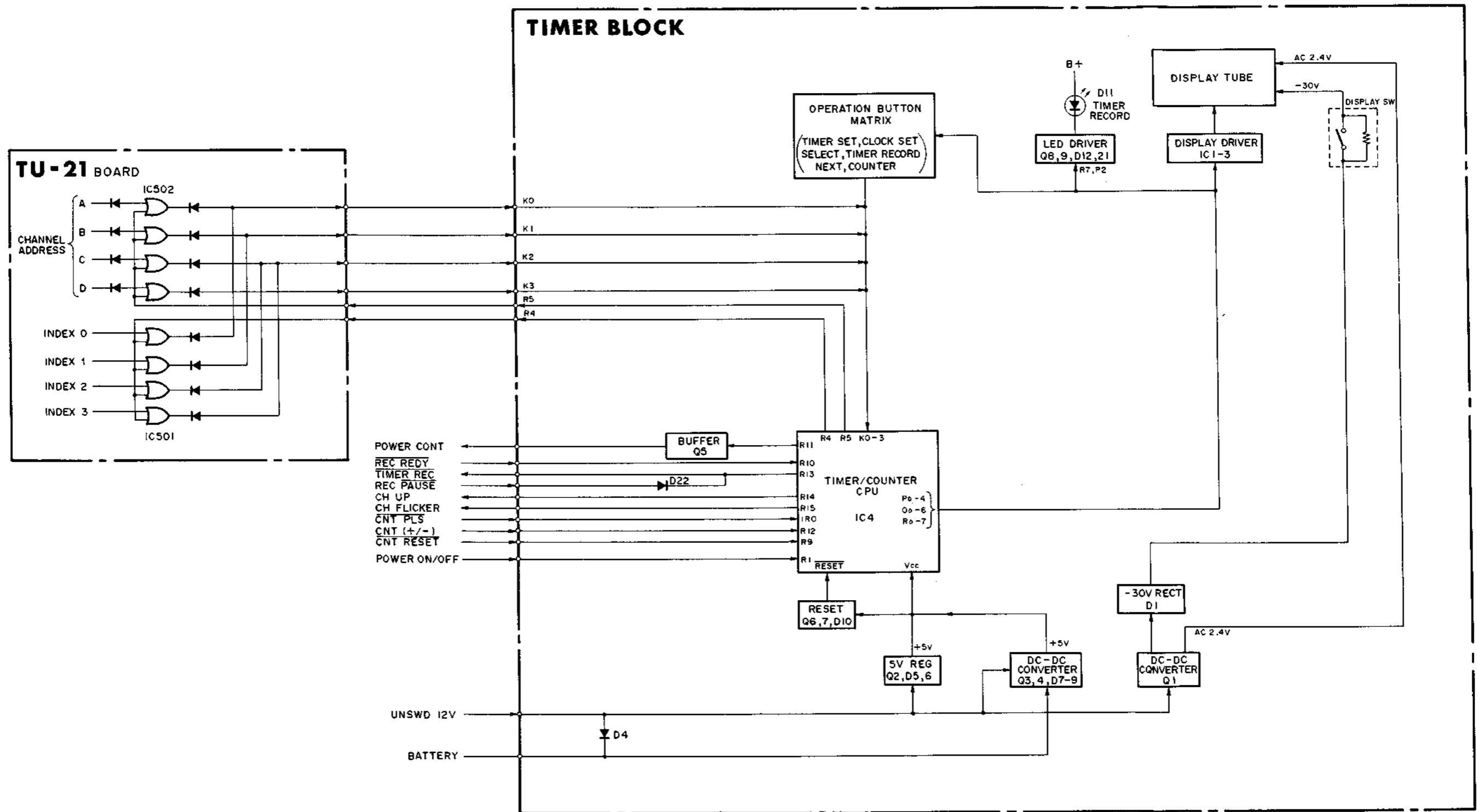
PB CHROMA



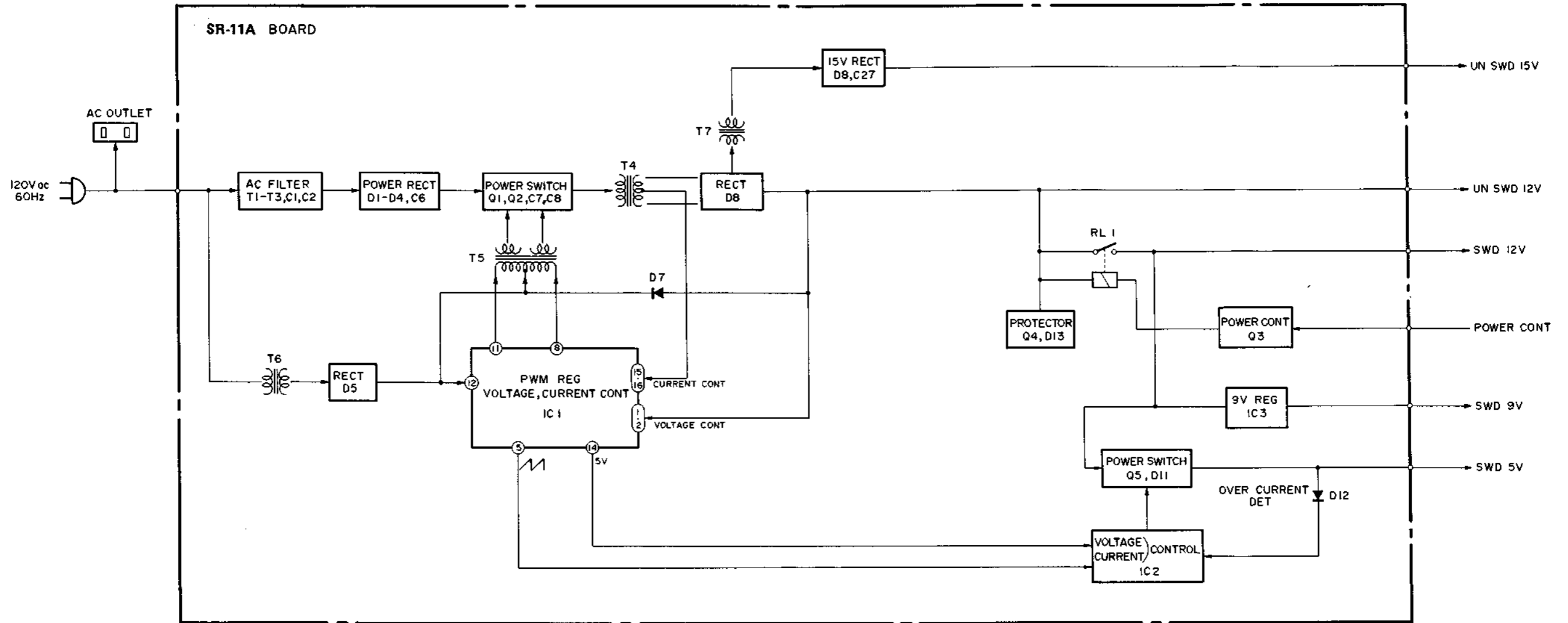
TIMER BLOCK DIAGRAM



TIMER BLOCK DIAGRAM

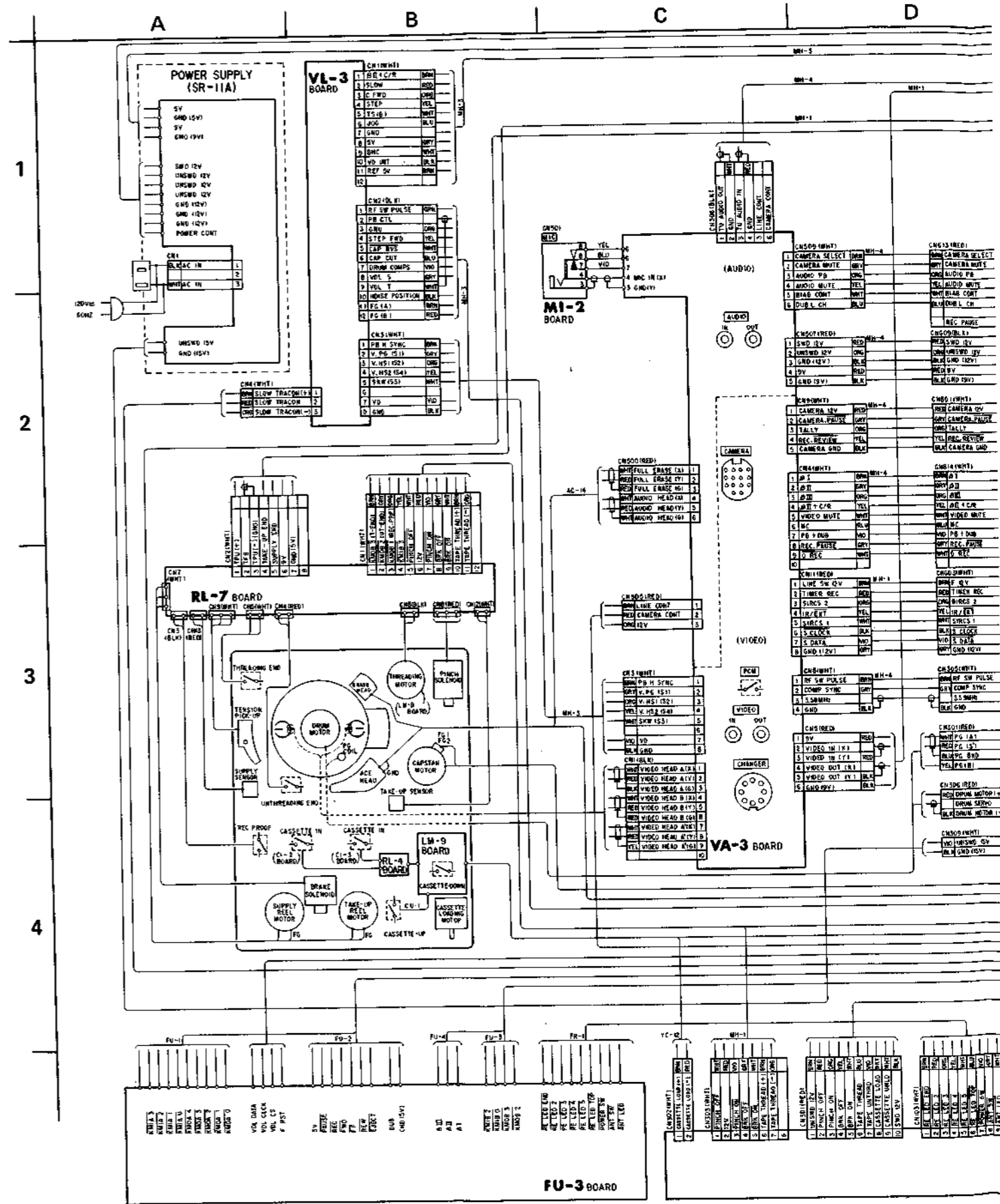


POWER SUPPLY BLOCK DIAGRAM

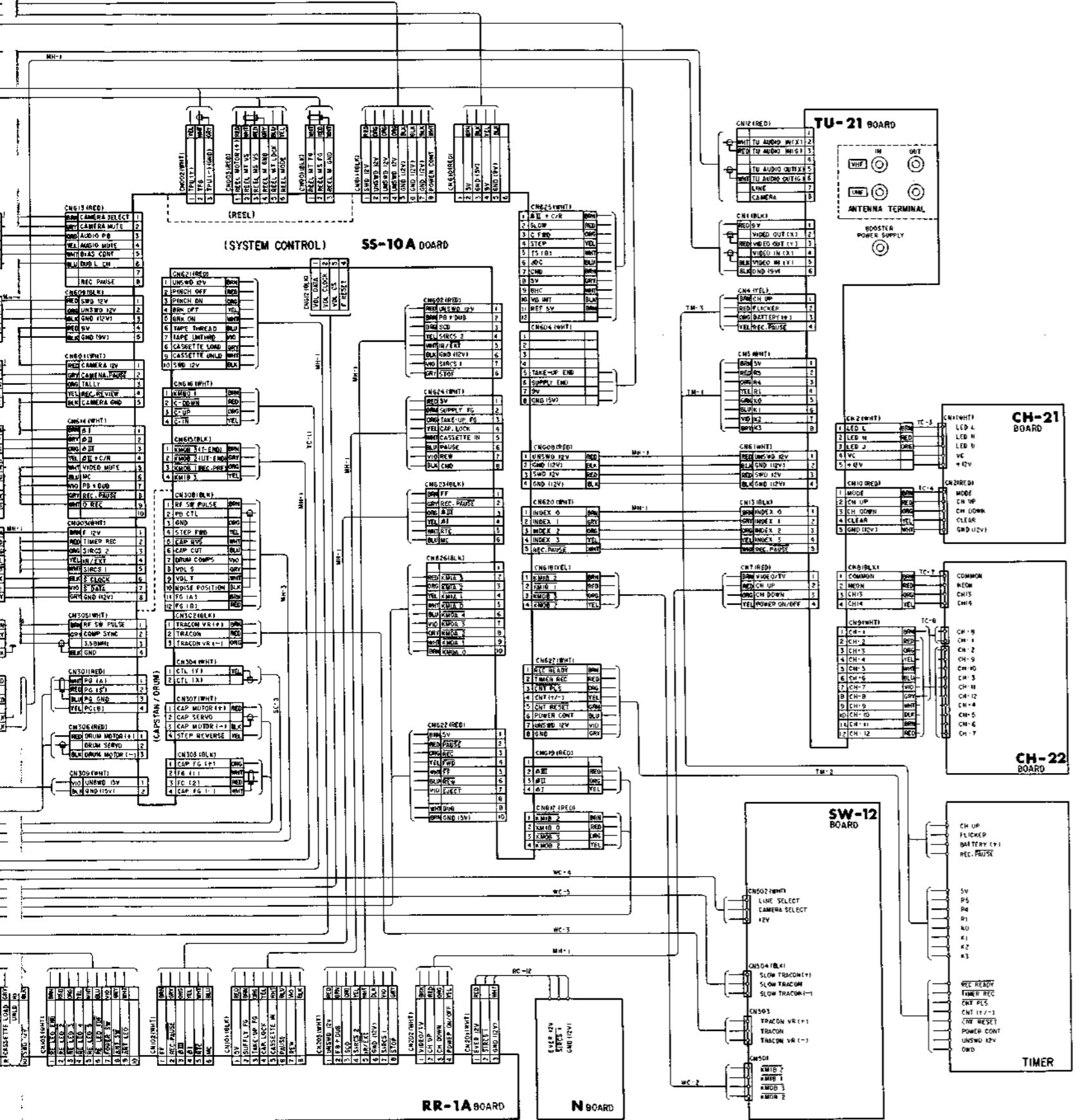


SECTION 4 PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

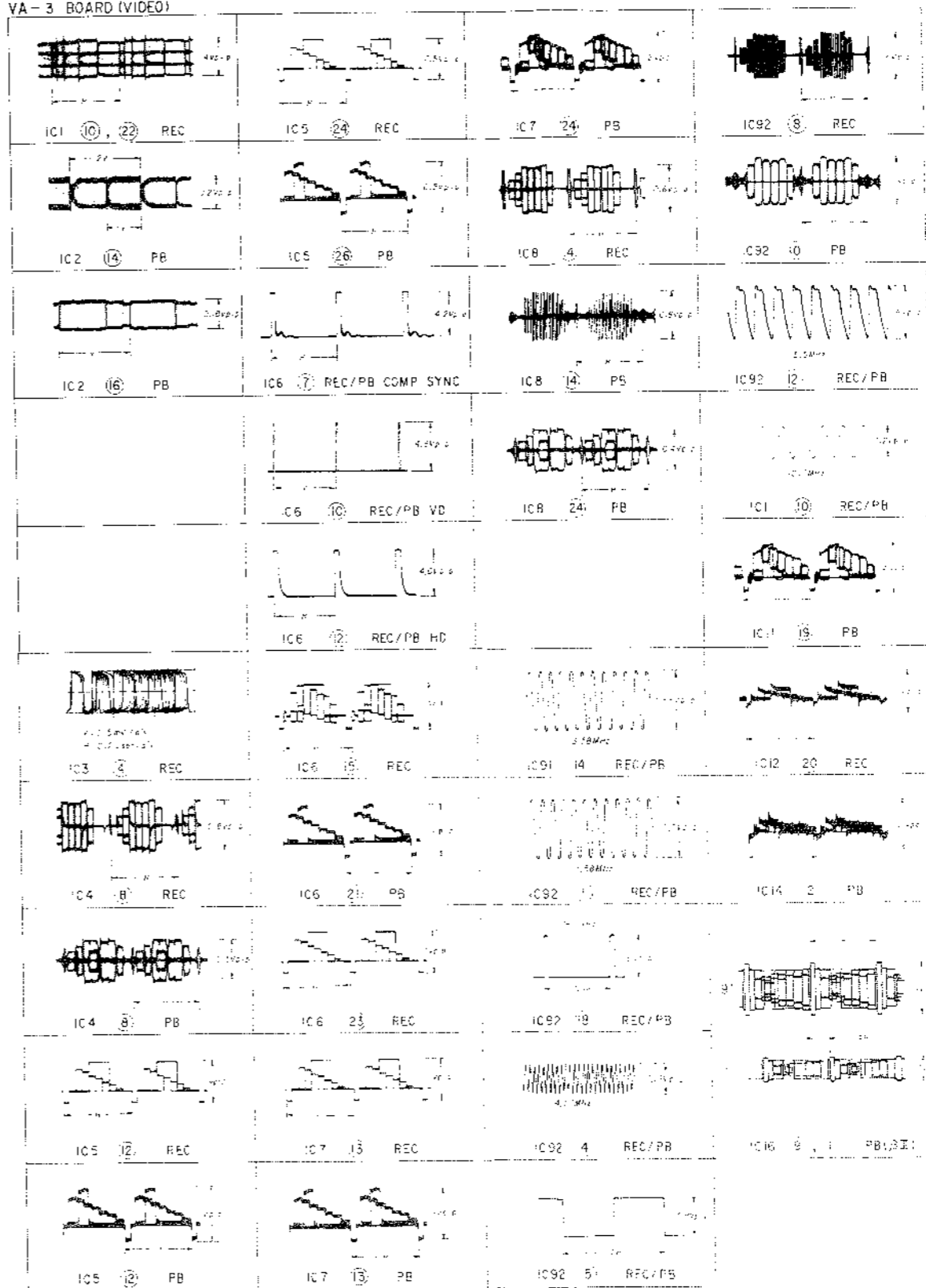
FRAME SCHEMATIC DIAGRAM



D E F G H

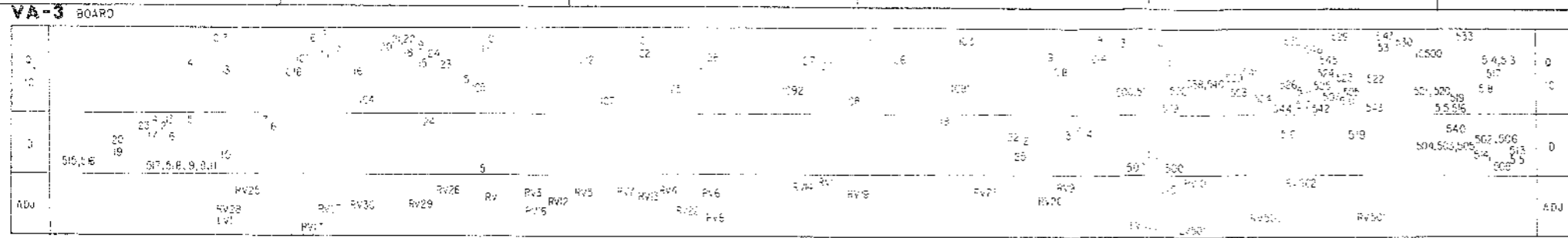


VA-3 BOARD (VIDEO)



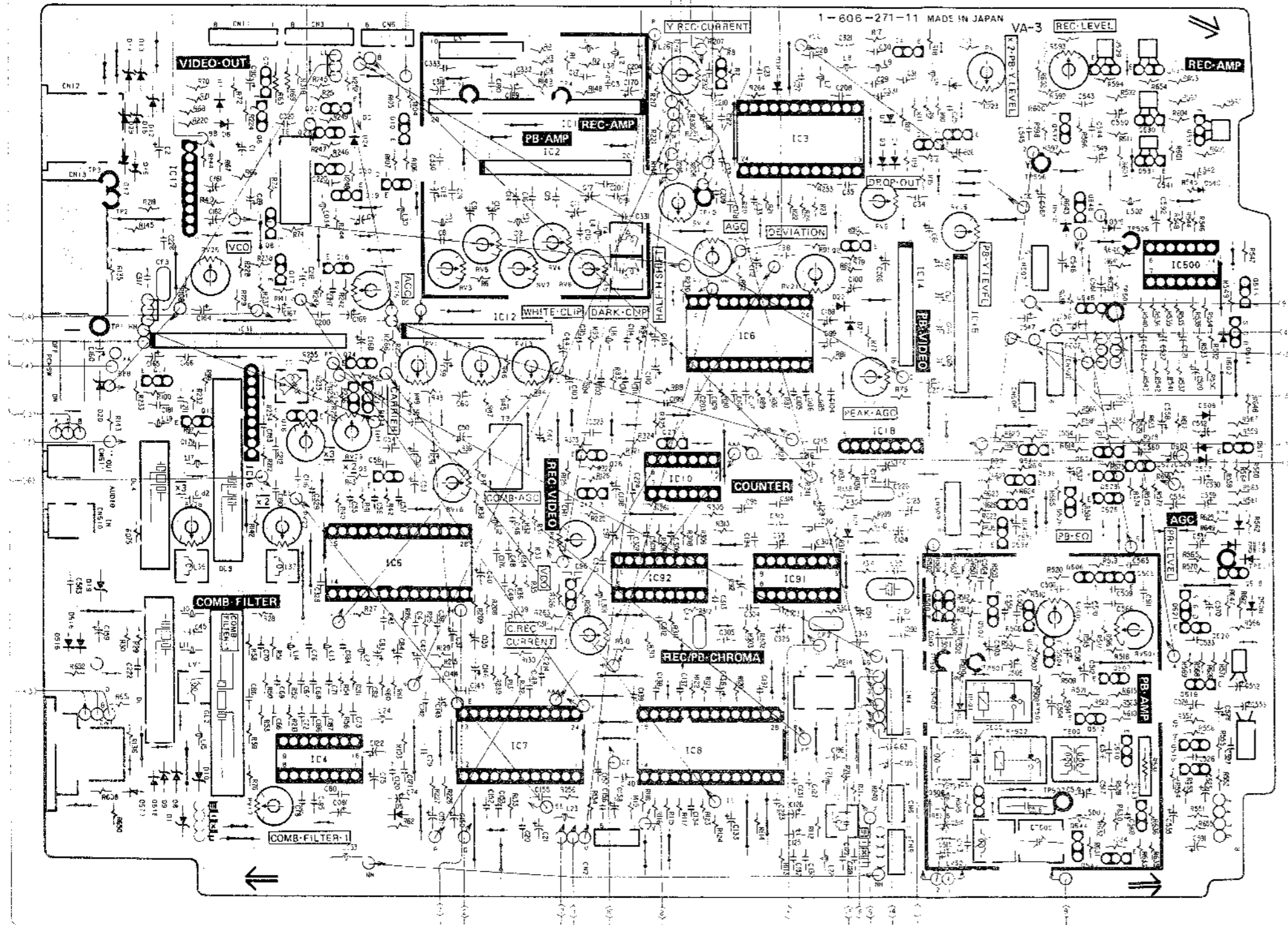
VIDEO/AUDIO VIDEO/AUDIO

VA-3 (Y & CHROMA SIGNALS RECORD/PLAYBACK PROCESS) PRINTED WIRING BOARD - Ref. No.1000 series -



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.



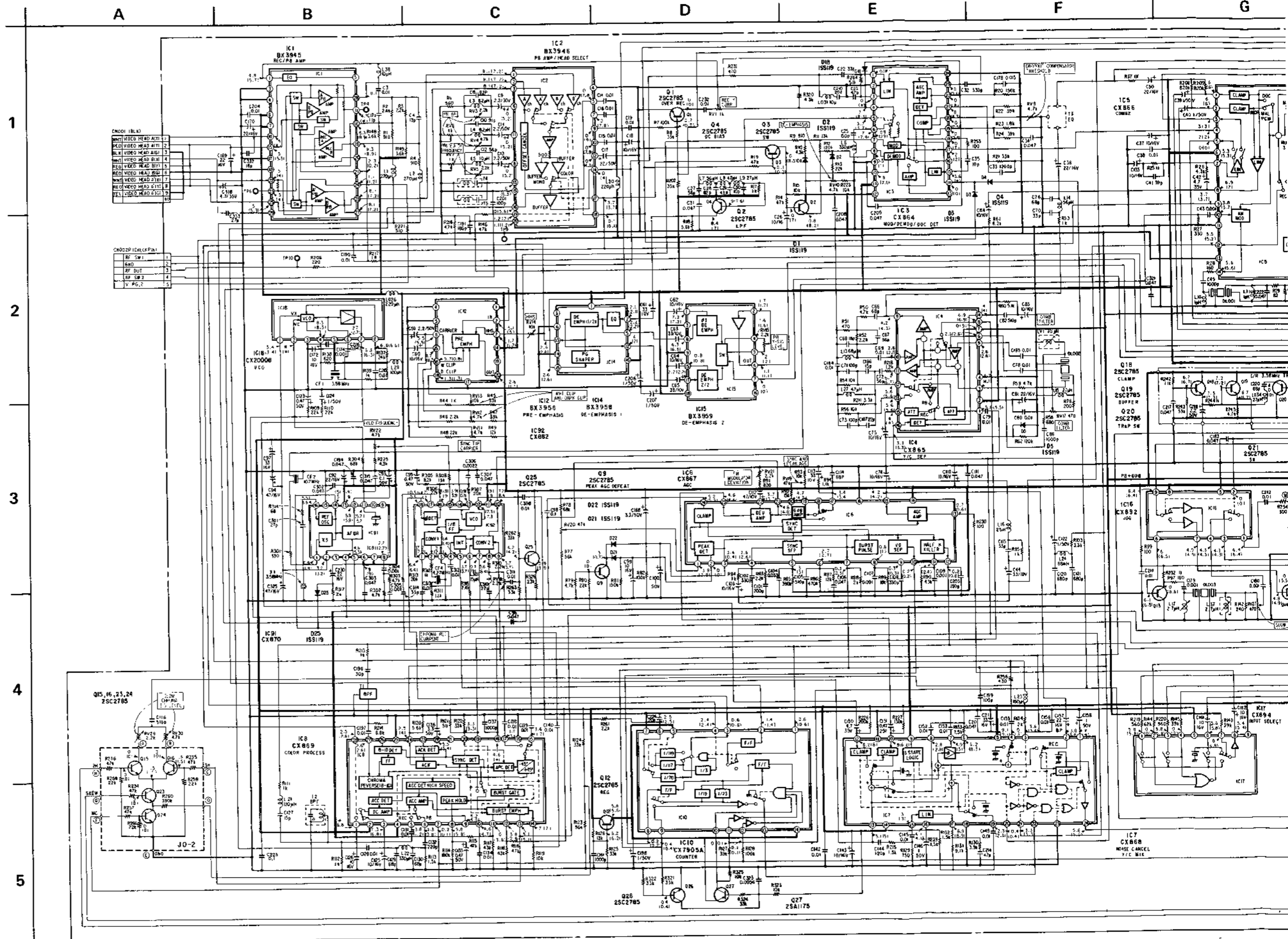
- Note:
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$
 - : nonflammable resistor.
 - : fusible resistor.
 - : internal component.
 - : panel designation.
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - The red lines show the main voltages.
 - Marked * is not able to measure the voltage of it's position.
 - All voltages are dc measured with a VOM (20 $\text{k}\Omega/\text{V}$).

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

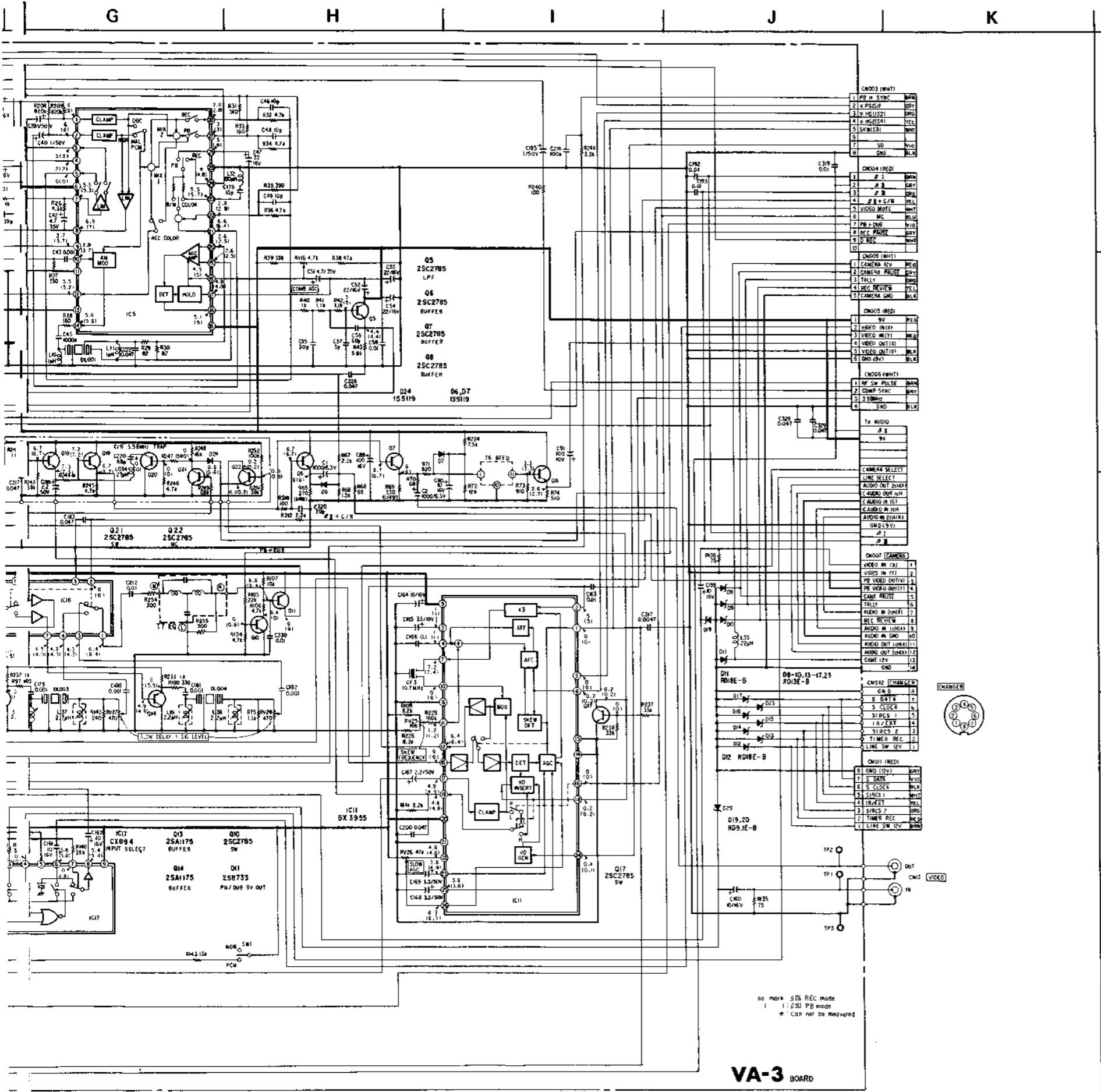
VIDEO/AUDIO VIDEO/AUDIO

VA-3 (Y & CHROMA SIGNALS RECORD/PLAYBACK PROCESS) BOARD SCHEMATIC DIAGRAM

— Ref. No.1000 series —



VIDEO/AUDIO VIDEO/AUDIO



VA-3 BOARD

no mark SII REC made
 I : SII PB mode
 * Can not be measured

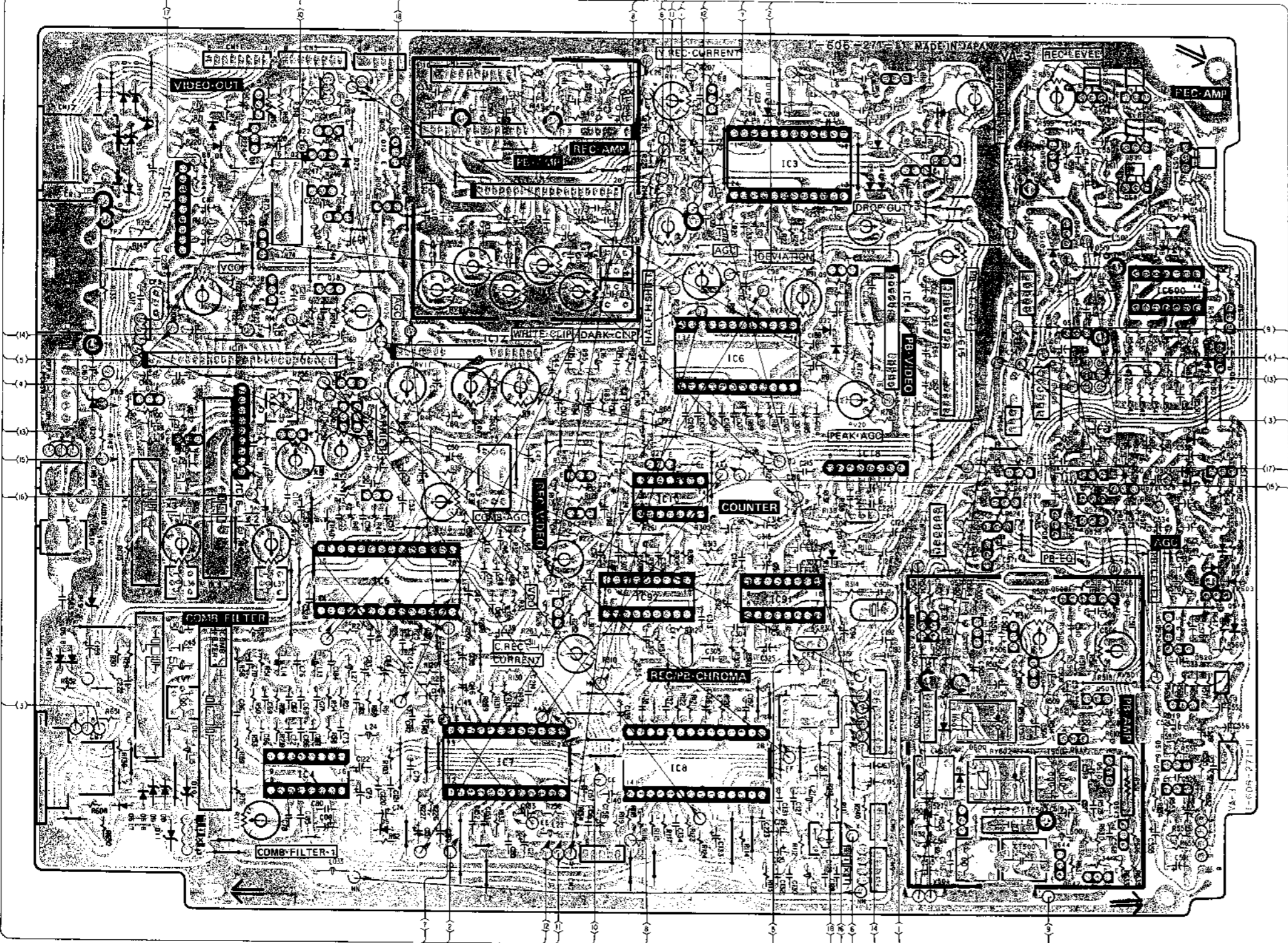
CN003 (WHT)			
1	PR H SYNC	WHT	
2	V POSIT	GRY	
3	V HSLUSZ	GRY	
4	V HSLER1	YEL	
5	V HSLUS1	WHT	
6	V0	WHT	
7	GND	BLK	
8	GND	BLK	
9	GND	BLK	
10	GND	BLK	
11	GND	BLK	
12	GND	BLK	
CN004 (RED)			
1	# 2	WHT	
2	# 3	GRY	
3	# 4	GRY	
4	# 5	GRY	
5	VIDEO MUTE	WHT	
6	MC	WHT	
7	PR + DUB	WHT	
8	REC PAUSE	GRY	
9	REC	WHT	
10	GND	BLK	
11	GND	BLK	
CN005 (WHT)			
1	CAMERA 12V	RED	
2	CAMERA PAUSE	GRY	
3	TALK	WHT	
4	REC REVIEW	YEL	
5	CAMERA GND	BLK	
6	GND	BLK	
CN005 (RED)			
1	V0	RED	
2	VIDEO MUTE	RED	
3	VIDEO MUTE	RED	
4	VIDEO MUTE	RED	
5	VIDEO OUT1	BLK	
6	GND	BLK	
CN005 (WHT)			
1	PR SW PULSE	WHT	
2	COMP SYNC	GRY	
3	3.5MHz	WHT	
4	GND	BLK	
5	GND	BLK	
To AUDIO			
1	# 1	WHT	
2	# 2	GRY	
3	# 3	GRY	
CAMERA SELECT			
1	CAMERA SELECT	WHT	
2	AUDIO OUT 2OHM	GRY	
3	AUDIO OUT 16K	YEL	
4	AUDIO IN 1G	WHT	
5	AUDIO IN 16K	GRY	
6	AUDIO IN CENTER	WHT	
7	GND	BLK	
8	GND	BLK	
CN007 (GREEN)			
1	VIDEO IN 2H	GRN	
2	VIDEO IN 1H	GRN	
3	PR VIDEO OUT1	GRN	
4	PR VIDEO OUT2	GRN	
5	CAMP PAUSE	GRN	
6	TALK	GRN	
7	AUDIO IN 2OHM	GRN	
8	REC REVIEW	GRN	
9	AUDIO IN 16K	GRN	
10	AUDIO IN GND	GRN	
11	AUDIO OUT 16K	GRN	
12	AUDIO OUT 2OHM	GRN	
13	CAMP 12V	GRN	
14	GND	GRN	
CN002 (CHANGER)			
1	GND	GRN	
2	S. CLOCK	GRN	
3	SH. CLK	GRN	
4	1P/2T	GRN	
5	SIRCS 2	GRN	
6	TIMER REC	GRN	
7	LINE SW 12V	GRN	
CN011 (RED)			
1	GND (2V)	RED	
2	GND	RED	
3	S. CLOCK	RED	
4	SH. CLK	RED	
5	1P/2T	RED	
6	SIRCS 2	RED	
7	TIMER REC	RED	
8	LINE SW 12V	RED	



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

VIDEO/AUDIO VIDEO/AUDIO

VA-3 BOARD		A										B										C										D										E										F										G										H									
Q		IC17 6 7 20 21 22 10 11										IC1 14 13 IC11 16 17 18 19 24 23 5 IC5										IC12 IC2 12 26 27 IC10 IC6 IC3										9 IC14 IC15 532 546 529 547 530 533										514 513 517 518										Q																													
0		23 14 23 15 7 6 24										IC4 IC7										IC9 IC8 IC91										500 501 502 538 540 539 541 526 524 523 522 525 505 544 512 542 543										519 540 502 506										0																													
ADJ		RV25 RV28 LV1 RV17 RV27 RV30 RV29 RV26 RV11 RV3 RV16 RV12 RV5 RV7 RV13 RV4 RV6 RV22 RV8 RV14 RV1 RV19 RV21 RV9 RV20 RV15 RV10 RV502 RV501										LV500 LV501 RV500 RV501																																																		ADJ																			

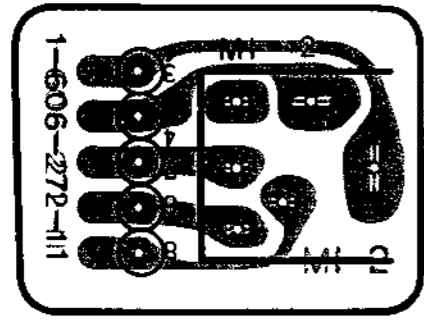


MI-1
1-606-272-111

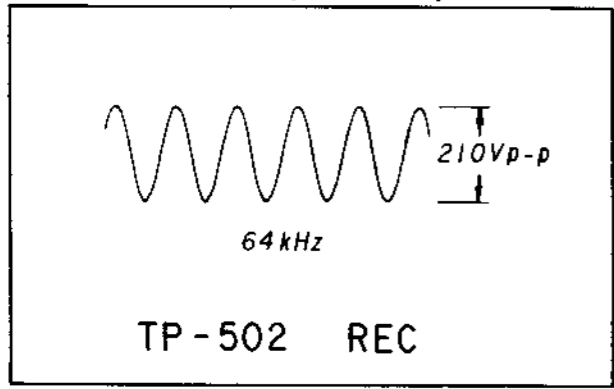
VA-

H I

MI-2 BOARD



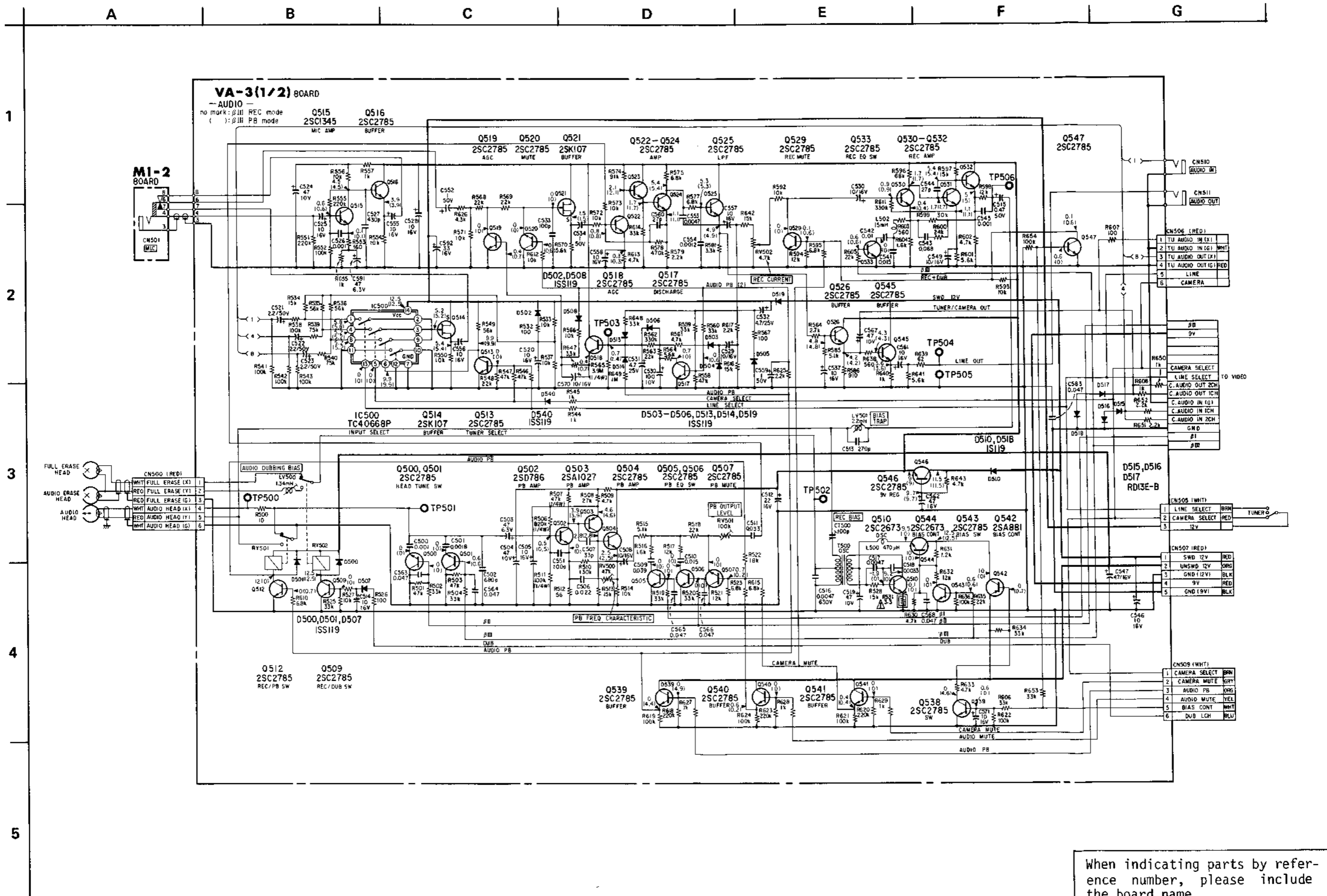
VA-3 BOARD (AUDIO)



SYSTEM CONTROL SYSTEM CONTROL

VA-3 (AUDIO RECORD/PLAYBACK PROCESS) AND MI-2 (MIC JACK)

BOARD SCHEMATIC DIAGRAM - Ref. No. VA-3 BOARD: 1000 series MI-2 BOARD: 2000 series -

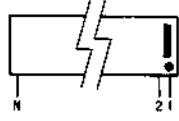


When indicating parts by reference number, please include the board name.

- SEMIC
- BX-101
- BX-103
- BX-394
- BX-397
- BX-398
- BX-399

SEMICONDUCTOR

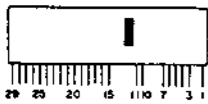
BX-1013-1
BX-1016
BX-1038
BX-3946-1
BX-3955
BX-3976
BX-3978
BX-3983
BX-3988



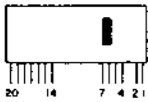
BX-1039



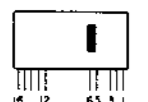
BX-3945-1



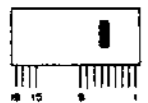
BX-3956-1



BX-3958-1



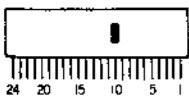
BX-3959-1



BX-3980



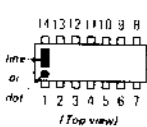
BX-3981



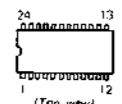
BX-3984



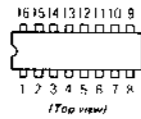
CX-761A



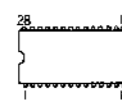
CX-864
CX-867



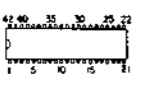
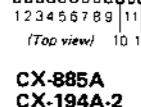
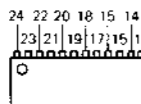
CX-866
CX-870A
HD14538BP
TC4051BP
TL494CN



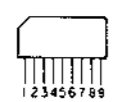
CX-866
CX-860



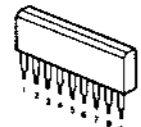
CX-868



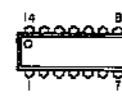
CX-892



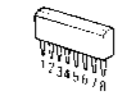
CX-804



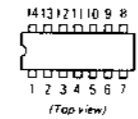
CX-7905A
MB3759



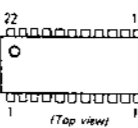
CX-20008
M51903L



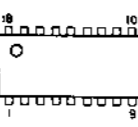
SN74LS04N
TC4011BP
TC4013BP
TC4030BP
TC4066BP
TC4069UBP
TC4071BP
TC4081BP
TC40H004P
TC6026BP
 μ PC324C
 μ PC339C



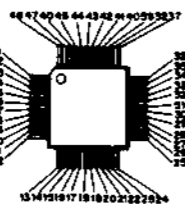
MB8747



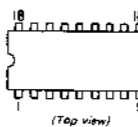
MB8758



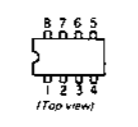
MB8845-527
MB8845-528
MB8845-549
MB8845-495M
 μ PD651G-517
 μ PD651G-518



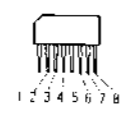
MSL915RS



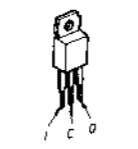
μ PC393C



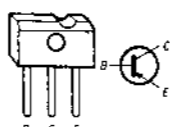
μ PC1373H



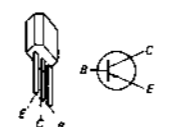
μ PC78M08H



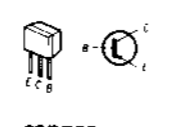
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2SA937



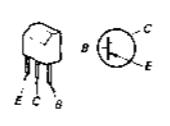
2SA1027R



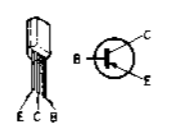
2SA1175



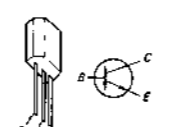
2SB733
2SB733-U2



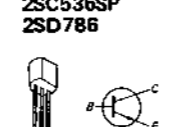
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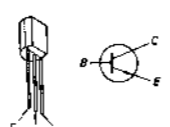
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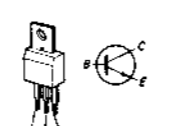
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2SC536SP
2SD786



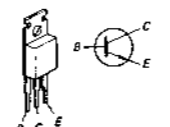
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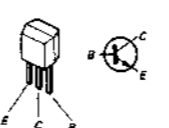
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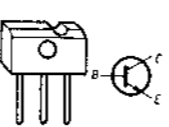
2SC1816



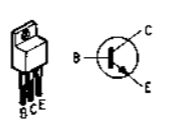
2SC1941



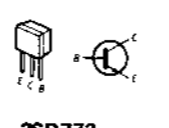
2SC2021



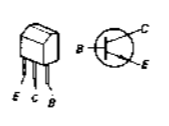
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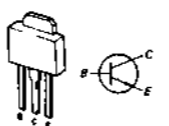
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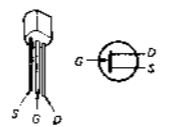
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2SD774



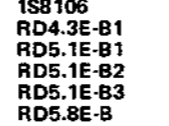
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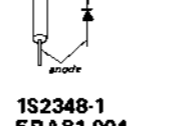
2SK107-3



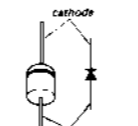
10E2
1S1585
1S8106
RD4.3E-B1
RD5.1E-B1
RD5.1E-B2
RD5.1E-B3
RD5.8E-B
RD9.1E-B
RD13E-B
RD15E-B3
RD18E-B
RD24E-B
RD36E-B



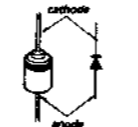
1S2348-1
ERA81-004
ERB81-004
S3V40



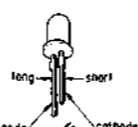
1SS119



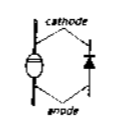
1SS133



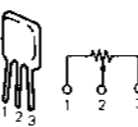
BR3402S
PG3432SY



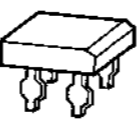
GH3F



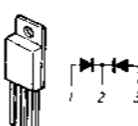
PH302A
PH302B



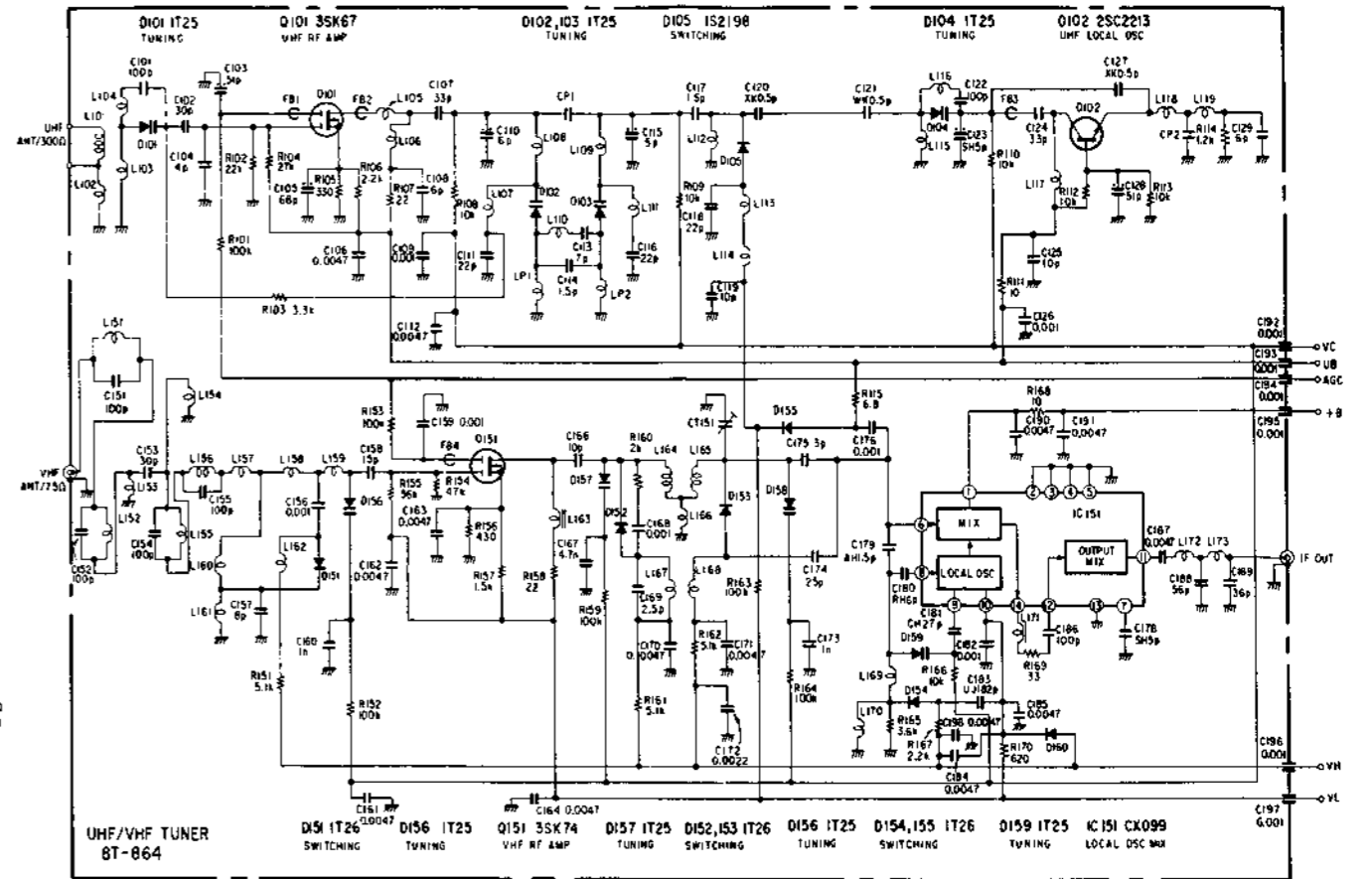
S1WB10



S5KC20



**TUNER SCHEMATIC DIAGRAM
- UHF/VHF TUNER BT-664 -**



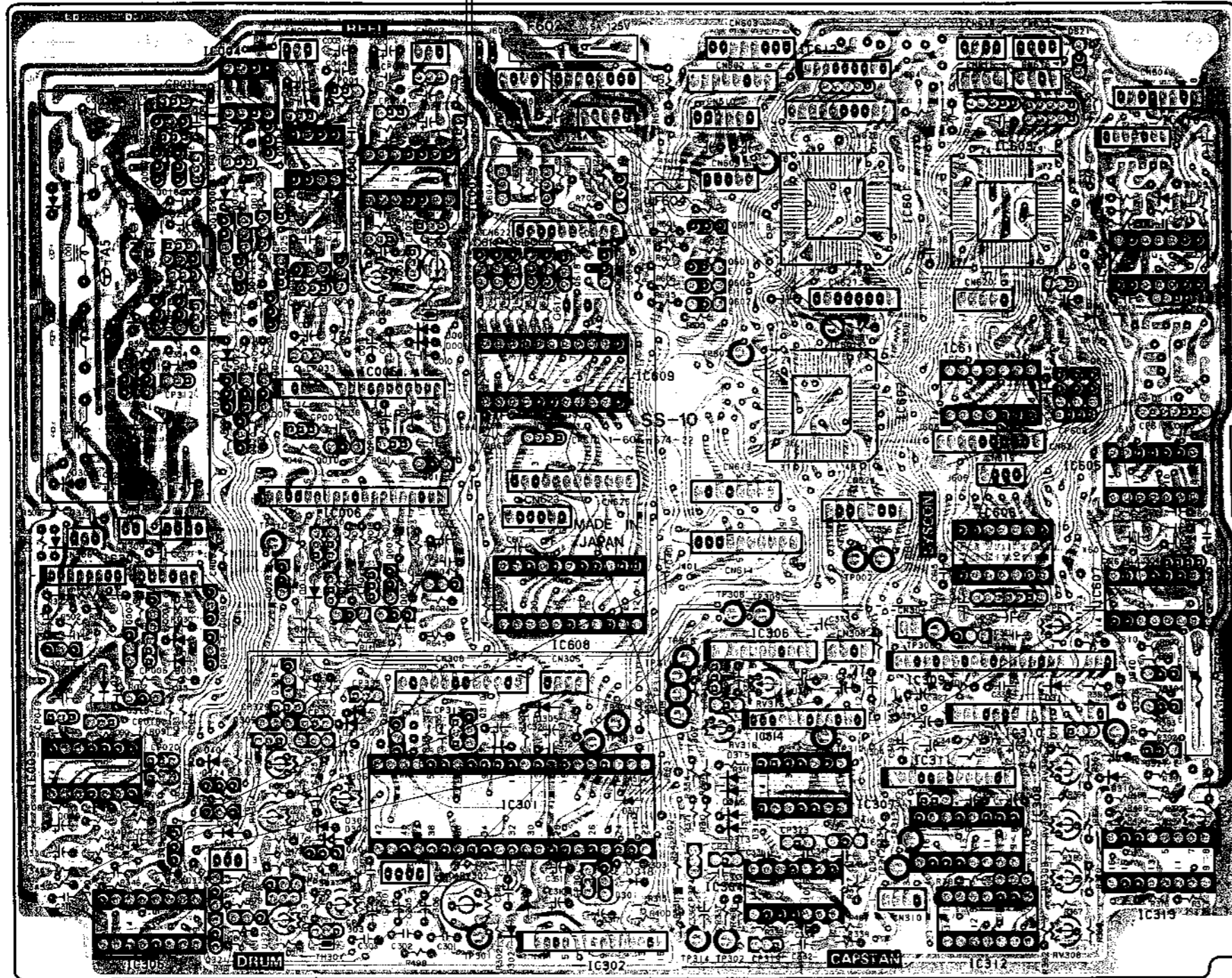
SYSTEM CONTROL SYSTEM CONTROL

SS-10A (SYSTEM CONTROL) AND MB-3 (SWITCH) PRINTED WIRING BOARD

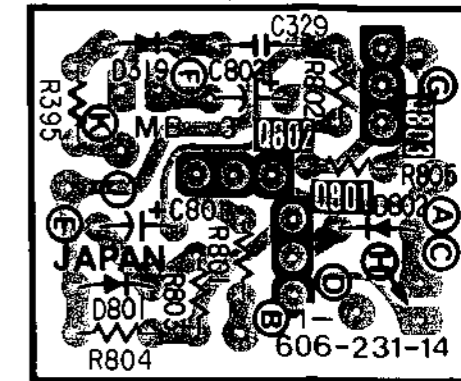
— Ref. No.SS-10A BOARD: 3000 series MB-3 BOARD: 4000 series —

SS-10A BOARD

		IC004	IC001	IC612	IC603	IC610	
Q	016 017,018 024	015 022	019 027	613 614,615,616,617,618	605 606	621 624 625 626	Q
IC	304 IC303	303 025,026	023 020	IC005 IC006	IC609 IC306	IC602 IC611 IC606 IC310 IC308	IC
D	009 309	013 301	008 014	012 401	015 312 317 318	002 001 305 317 318	D
ADJ	010	003 304	325 321 320	317 315 313	RV002 RV001	RV314 RV304 RV305 RV303 RV301	ADJ
						RV315 RV316 RV317 RV306 RV307 RV308 RV306	



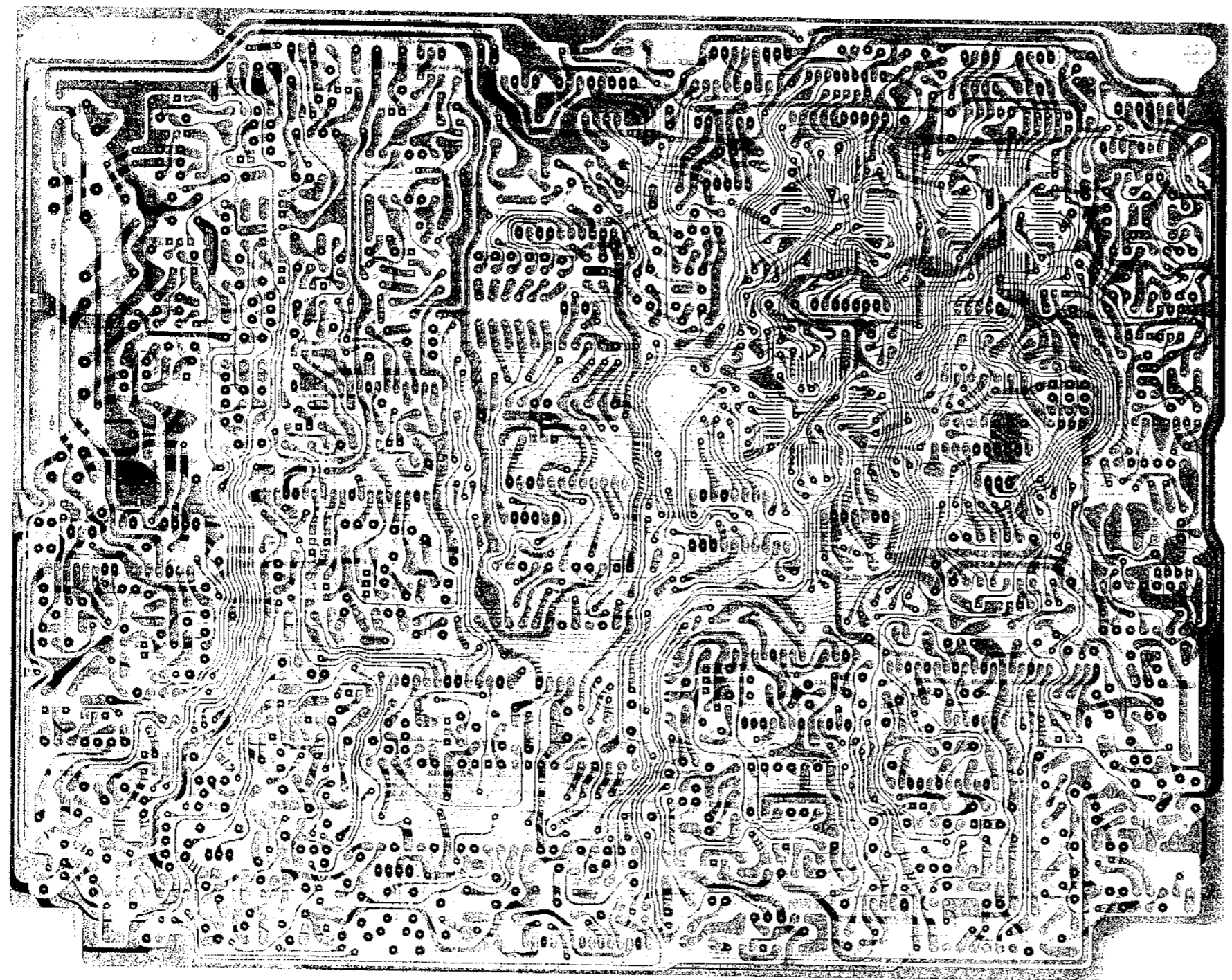
MB-3 BOARD



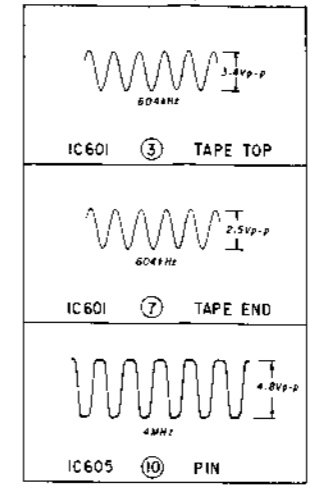
SYSTEM CONTROL SYSTEM CONTROL

CARD

606-231-14

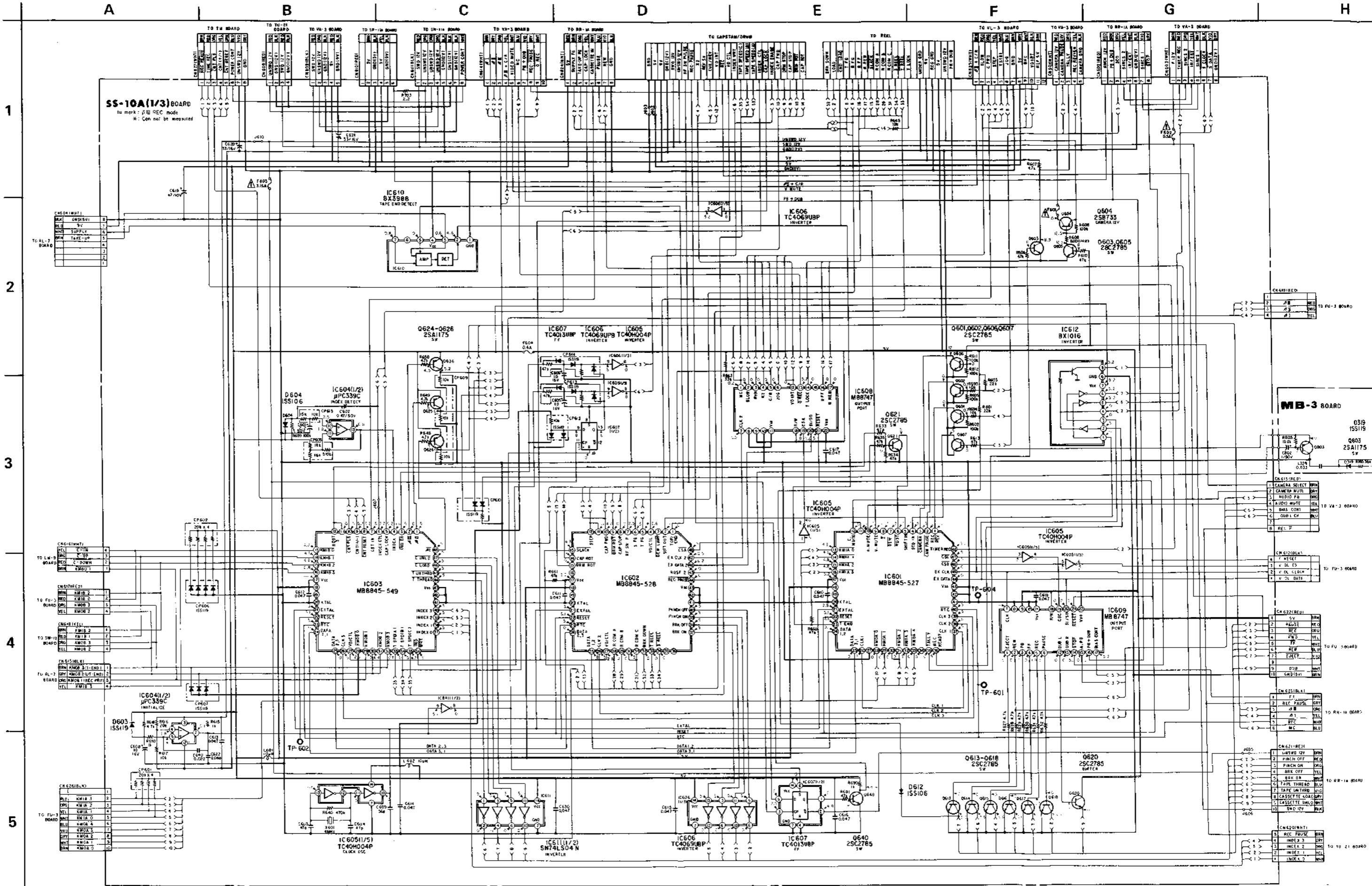


SS-10A(1/3) BOARD
(SYSTEM CONTROL)

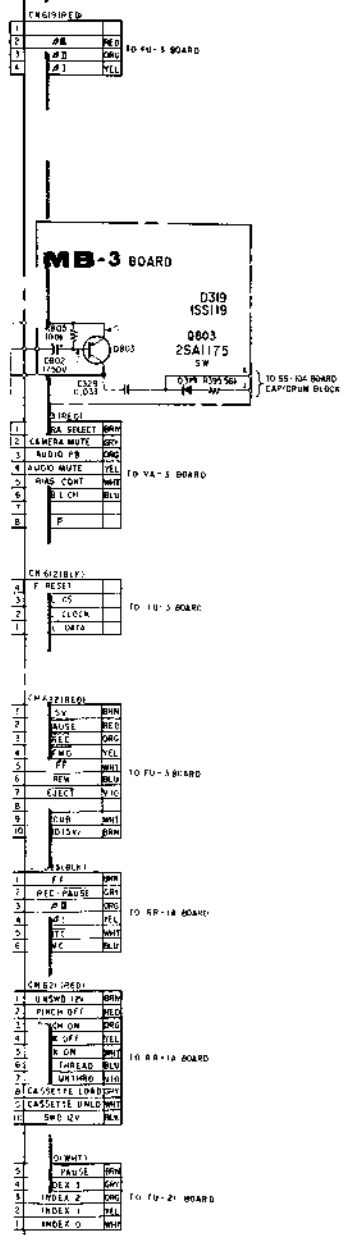


SYSTEM CONTROL SYSTEM CONTROL

SS-10A (SYSTEM CONTROL) AND MB-3 (SWITCH) BOARD SCHEMATIC DIAGRAM - Ref. No. SS-10A BOARD: 3000 series MB-3 BOARD: 4000 series -



H

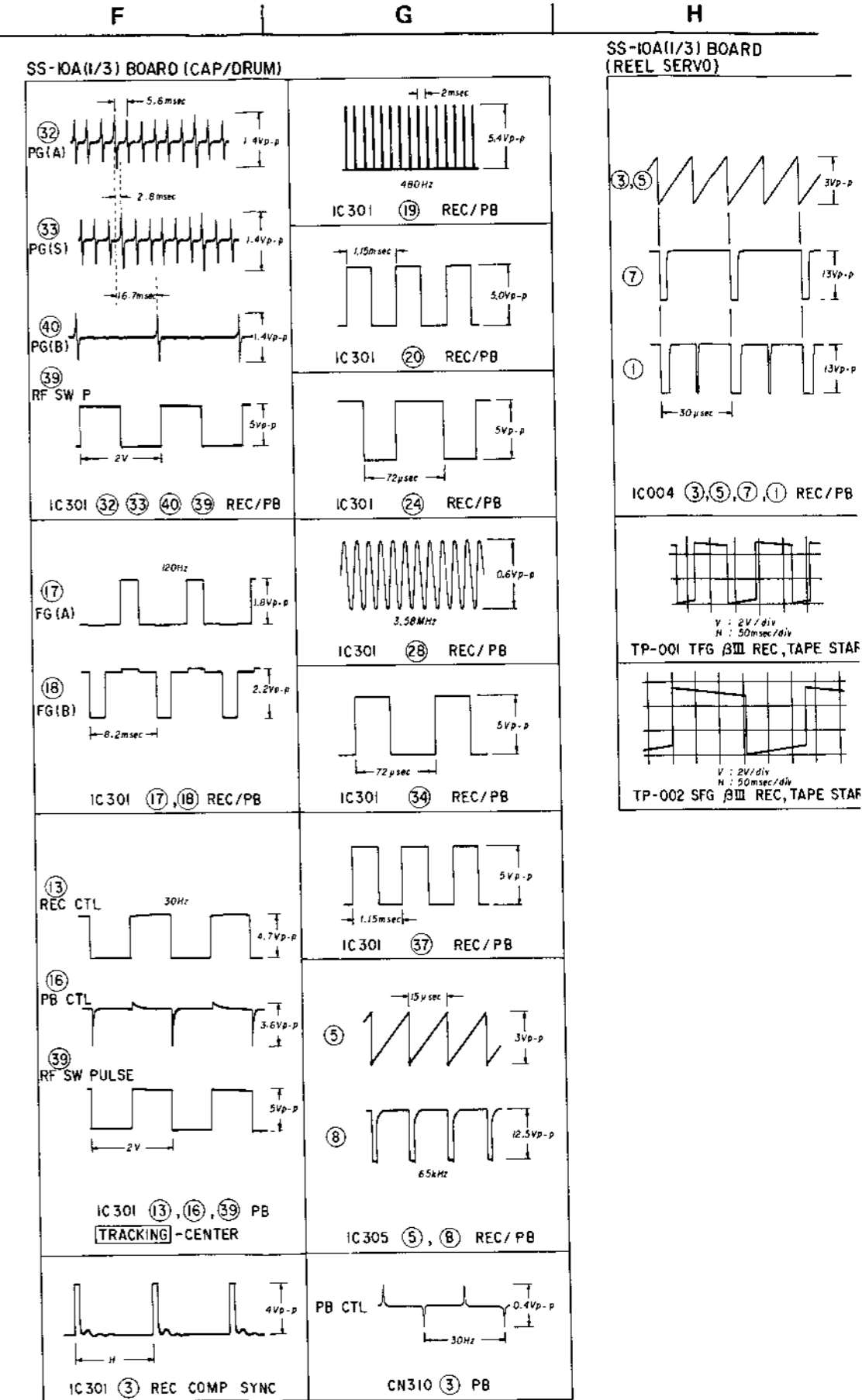
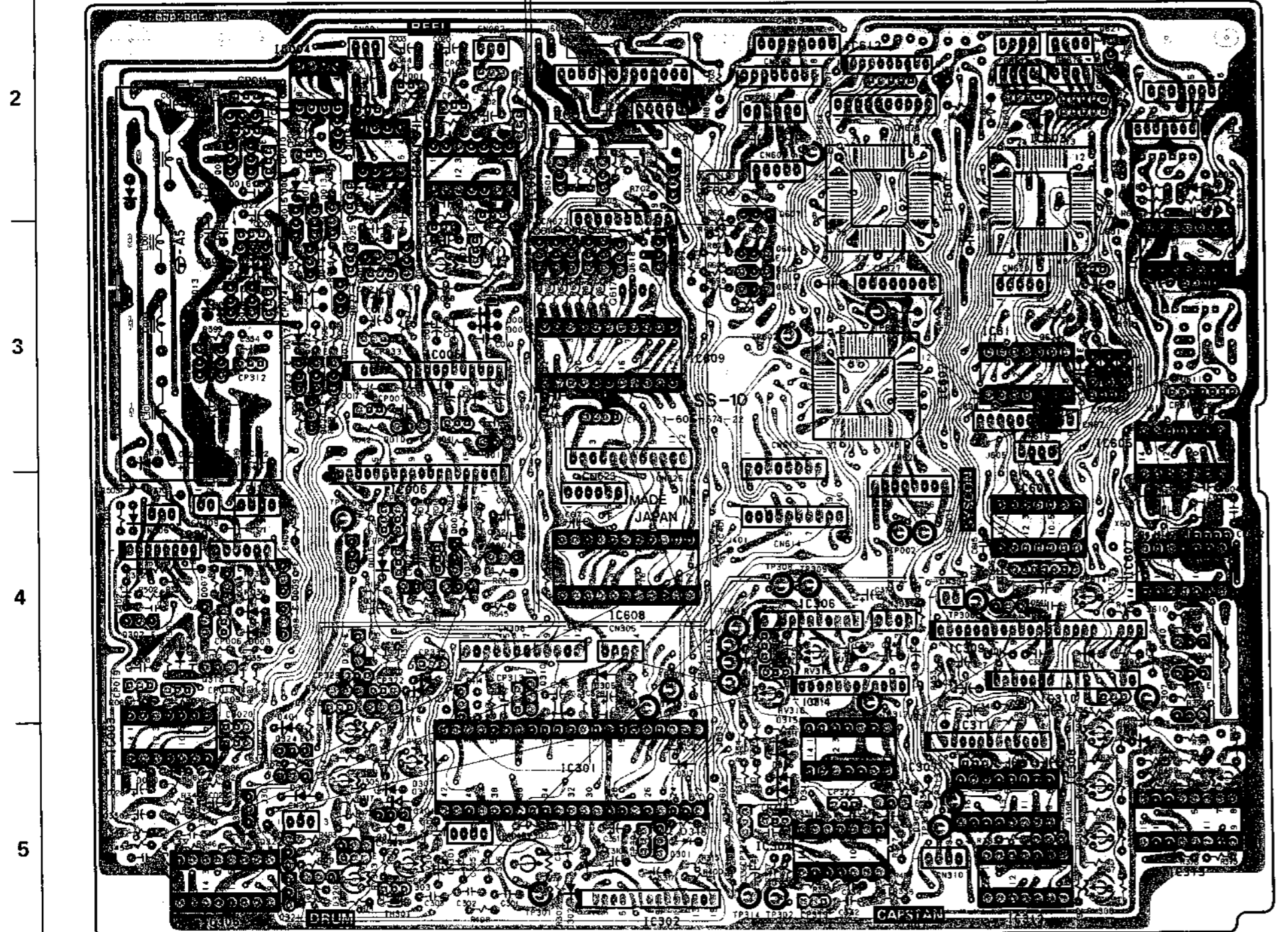


When indicating parts by reference number, please include the board name.

SYSTEM CONTROL SYSTEM CONTROL

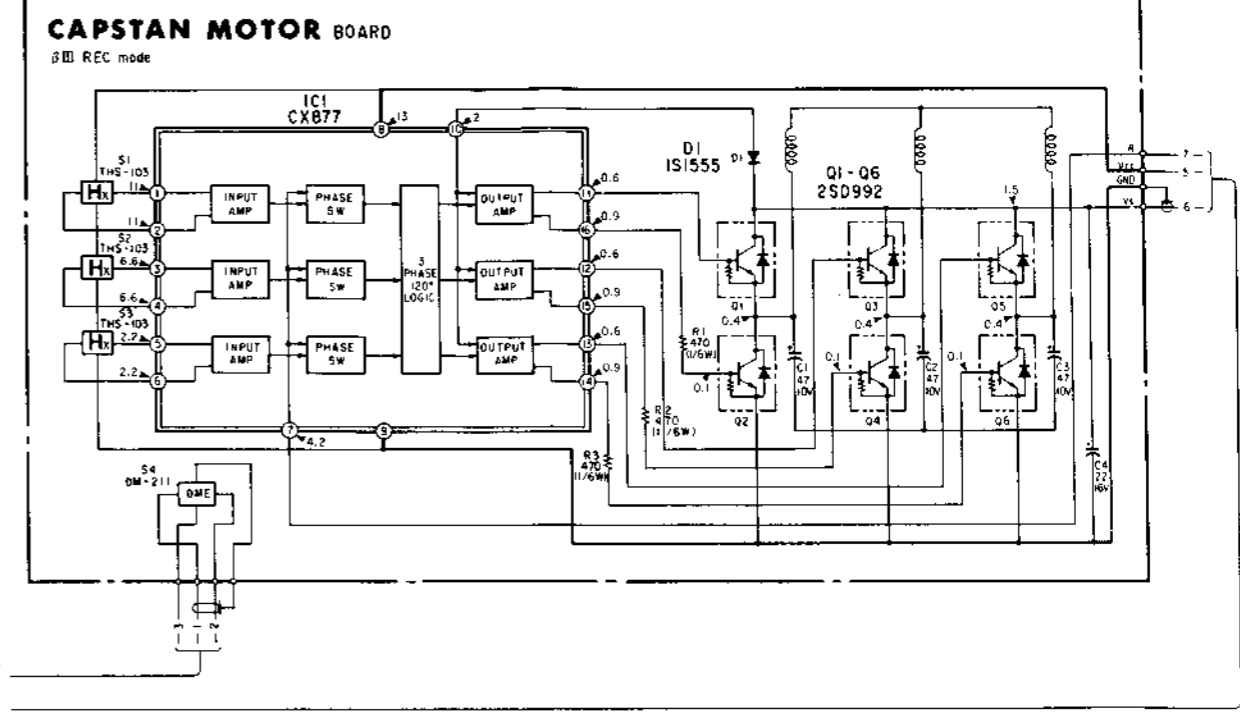
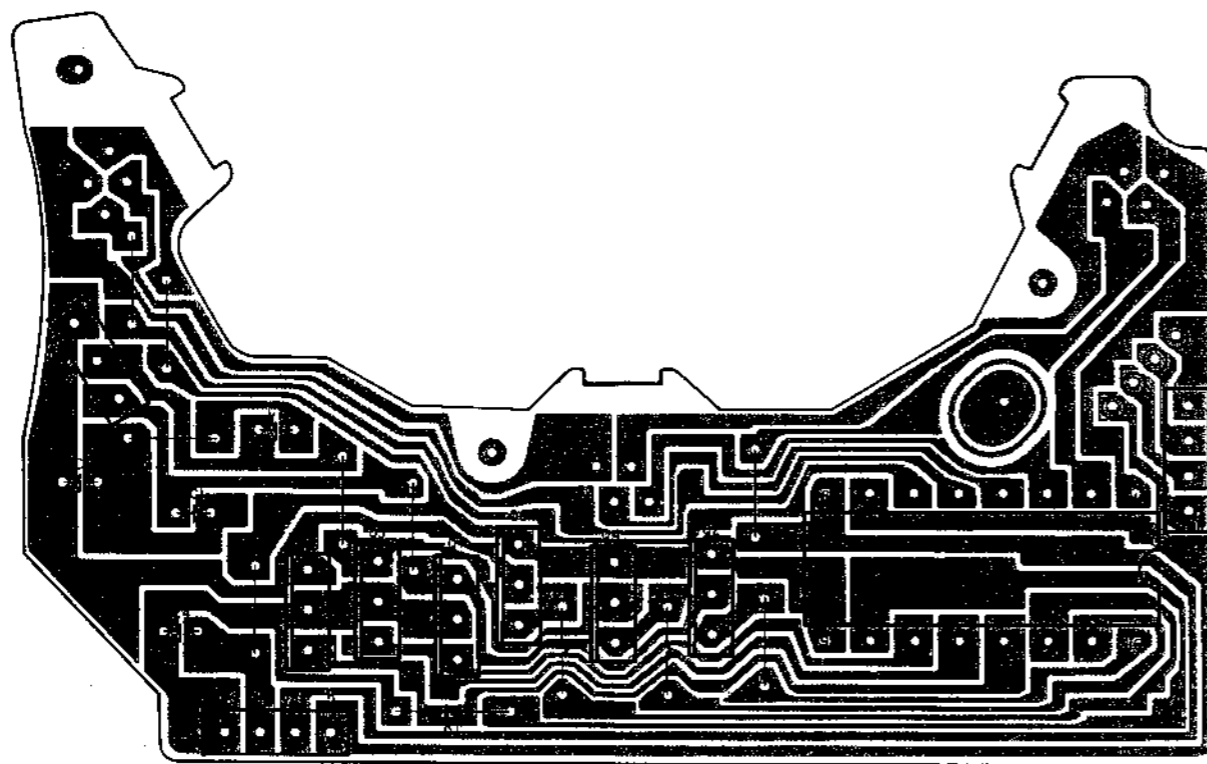
SS-10A (CAPSTAN & DRUM SERVO INDEX/REEL SERVO) PRINTED WIRING BOARD - Ref. No.3000 series -

	A	B	C	D	E	F	G	H	
SS-10A BOARD									
Q	016 017,018 024	014,013 015 022 021	019 001 002	613 614,615,616,617,618	605 620	606 607 601 603,602	IC612 IC601 IC611 IC606 IC605 IC607 624 625 626	IC610 IC604	Q
IC	304 IC303 302 IC003 318 IC305	303 025,026 023 009 020 008 028 029 314 030 004	IC004 IC001 IC005 IC006 003 011 010 027 021 028 029 315 314 030 004	IC002 604 605 606 IC609 IC306 IC314 IC307 IC311 IC312	IC608 IC301 IC302 IC304	IC602 IC601 IC611 IC606 IC605 IC607 640 326 327	IC603 621 IC604 IC610	IC610 IC604	IC
D	009 309 010	013 303 301 014 003	008 012 015 312 307 309	002 001 305 317 318	315 314 313	604 311 310	603	D	
ADJ		RV002 RV001	RV314 RV304 RV305 RV303 RV301	RV315 RV316	RV317 RV306 RV307 RV308 RV309	RV310	ADJ		



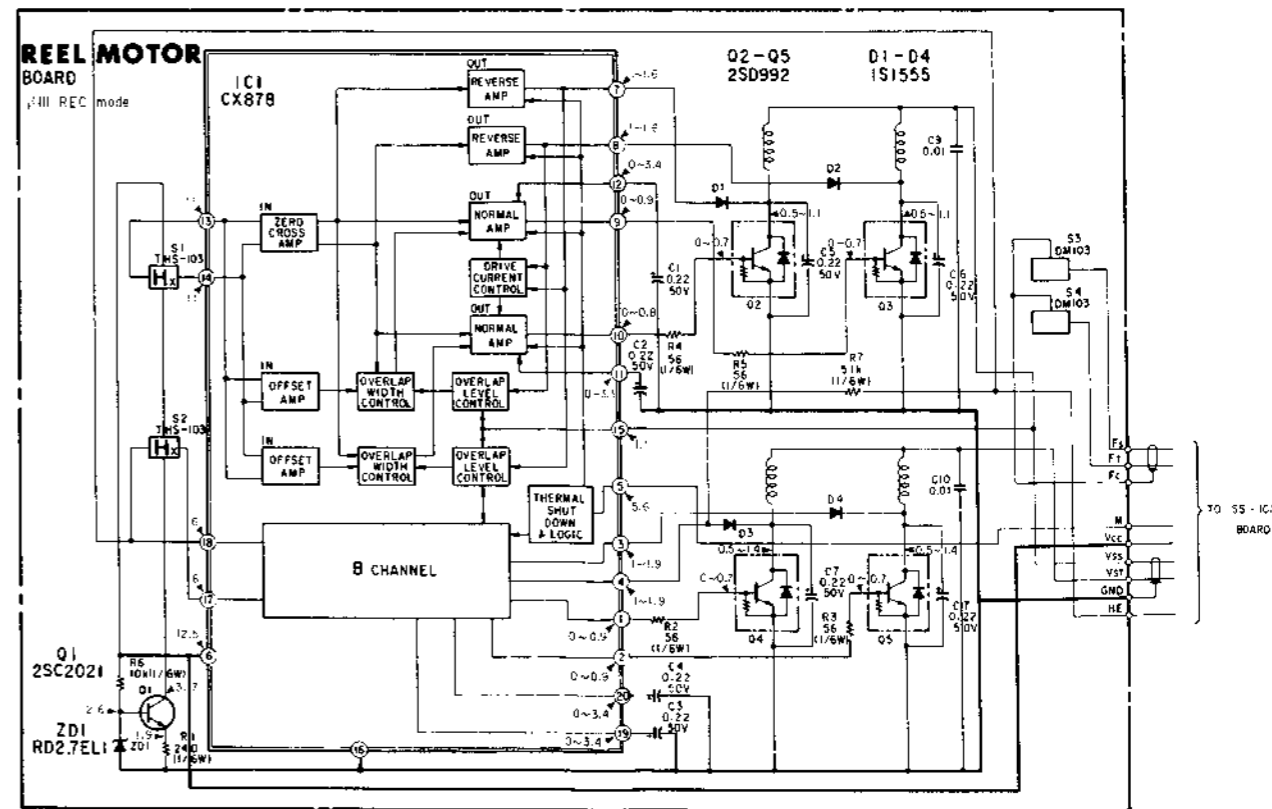
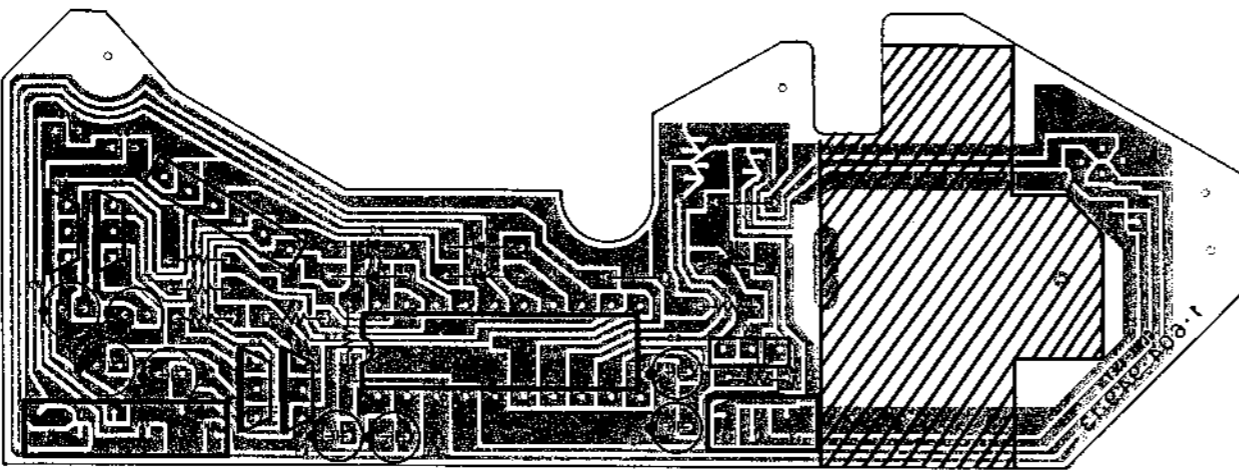
CAPSTAN MOTOR PRINTED WIRING BOARD & SCHEMATIC DIAGRAM

- Ref. No.5100 series -

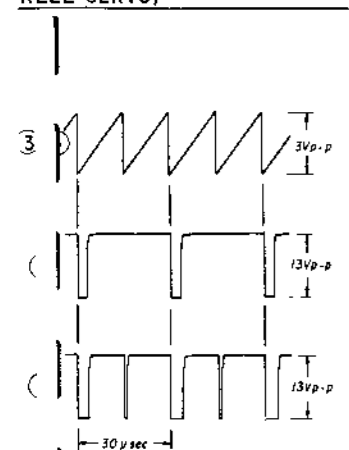


REEL MOTOR PRINTED WIRING BOARD & SCHEMATIC DIAGRAM

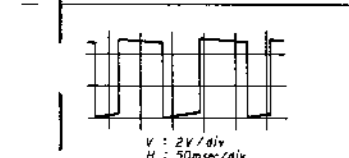
- Ref. No.5500 series -



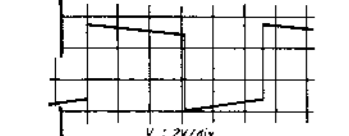
H
35-10A(1/3) BOARD
REEL SERVO)



IC004 ③⑤⑦① REC/PB



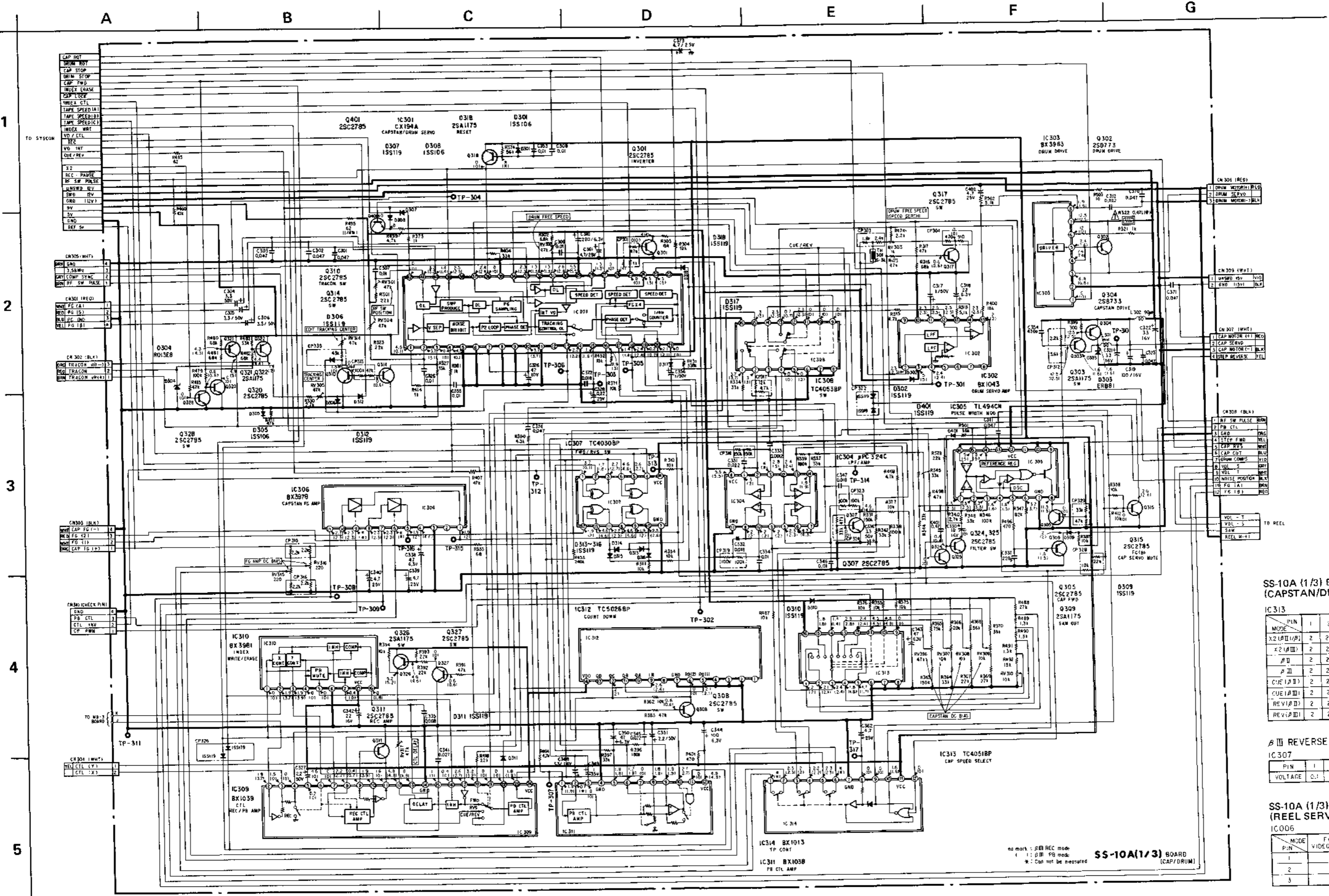
TP-001 TFG βIII REC, TAPE START



①.002 SFG βIII REC, TAPE START

SERVO SERVO

SS-10A (CAPSTAN & DRUM SERVO INDEX/REEL SERVO) BOARD SCHEMATIC DIAGRAM - Ref. No.3000 series -



SS-10A (1/3) BOARD (CAPSTAN/DRUM SERVO)

IC313

MODE	PIN	1	2	3	4	5	6	7	8
X2 (P II/P I)	2	2.1	2.8	1.8	1.7	GND	GND	GND	GND
X2 (P III)	2	2.3	1.4	1.8	1.7				
P II	2	2.1	1.8	1.8	1.7				
P III	2	2.1	2.4	1.8	1.7				
CUE (P II)	2	2.1	2	1.8	1.7				
CUE (P III)	2	2.3	1.8	1.8	1.7				
REV (P II)	2	2.1	2.1	1.8	1.7				
REV (P III)	2	2.1	1.9	1.8	1.7				

REVERSE (X1) MODE
IC307

PIN	1	2	3	4	5	6	7	8
VOLTAGE	0.1	1.3	2.7	2.7	0.1	2.7	GND	0

SS-10A (1/3) BOARD (REEL SERVO)

IC006

MODE	PIN	FWD / VIDE OF. A	FWD / VIDE OF. B	VID LG. / IRE V. RE I	FF
1	0	0	0	5	0
2	0	0	0	5	0
3	0	0	0	5	0

SERVO SERVO

A B C D E F

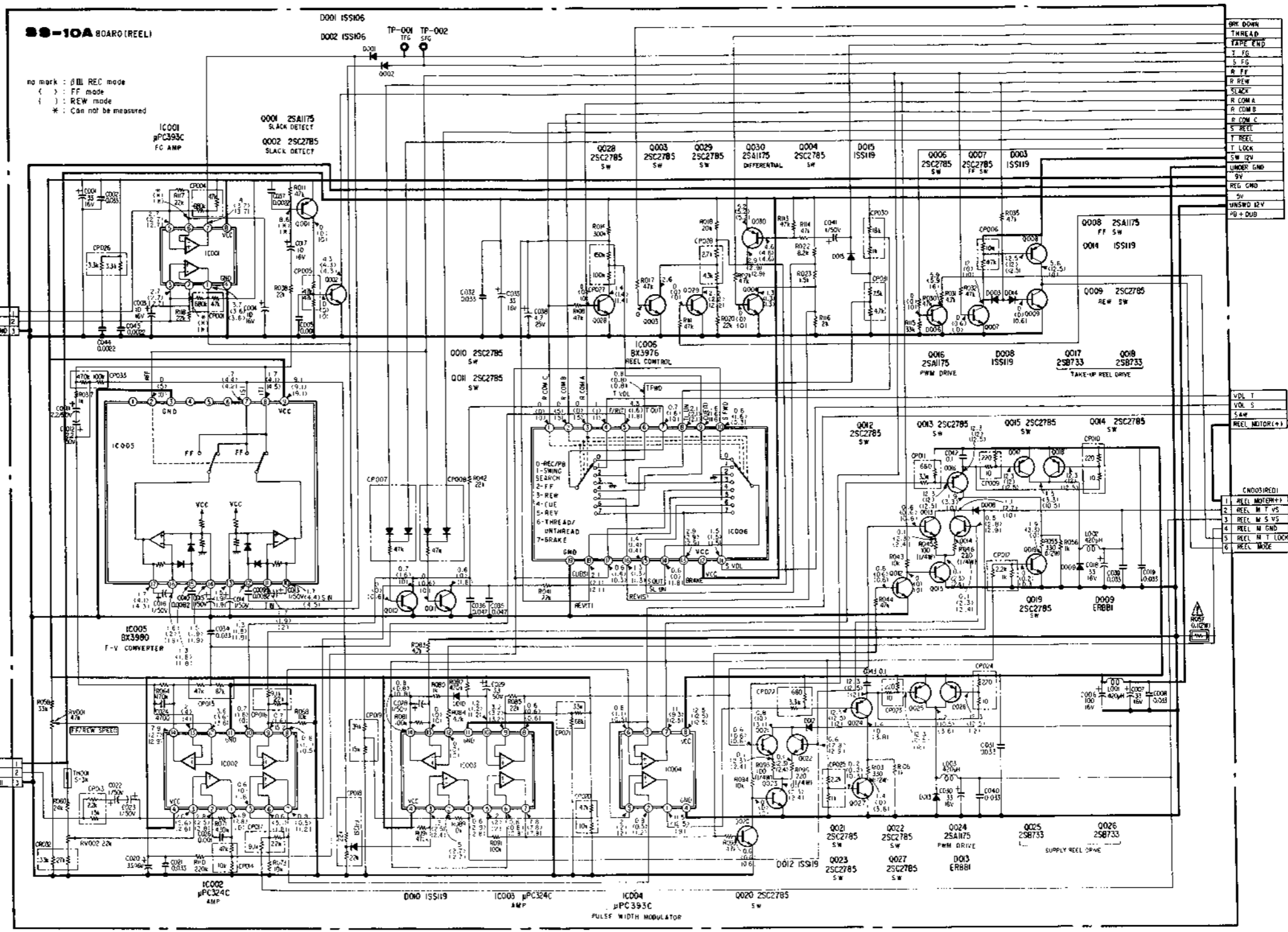
1

2

3

4

5



8W DDM
THREAD
TRAP END
T FG
S FG
R FF
R REW
SLACK
R COM A
R COM B
R COM C
S REEL
T REEL
T LOCK
SW 12V
UNDR GND
9V
REG GND
UNSWD 12V
PG + OUB

VOL T
VOL S
SAW
REEL MOTOR (+)

CM003 (RED)
1 REEL MOTOR (+) RED
2 REEL M T VS RED
3 REEL M VS RED
4 REEL M GND GRN
5 REEL M T LOCK BLU
6 REEL M TDC YEL

BOARD (DRUM SERVO)

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
2	1.8	1.8	1.7	GND	GND	GND	0	0	0	2.5	2.8	1.4	1.8	5.5	
2.1	1.4	1.8	1.7				0	0	4.8	0	2.5	2.8	1.4	1.8	5.5
2	2.4	1.8	1.7				0	4.8	4.5	2.4	2.8	1.4	1.8	5.5	
2	2	1.8	1.7				4.8	0	0	2.5	2.8	1.4	1.8	5.5	
2.1	1.8	1.8	1.7				4.8	0	4.5	2.5	2.8	1.4	1.8	5.5	
2.1	2.1	1.8	1.7				4.8	4.8	0	2.5	2.8	1.4	1.8	5.5	
2.1	1.9	1.8	1.7				4.8	4.8	4.5	2.5	2.8	1.4	1.8	5.5	

(...) MODE

2	3	4	5	6	7	8	9	10	11	12	13	14
	2.7	2.7	0.1	2.7	GND	0.1	2	2.4	2.4	2	0	5.2

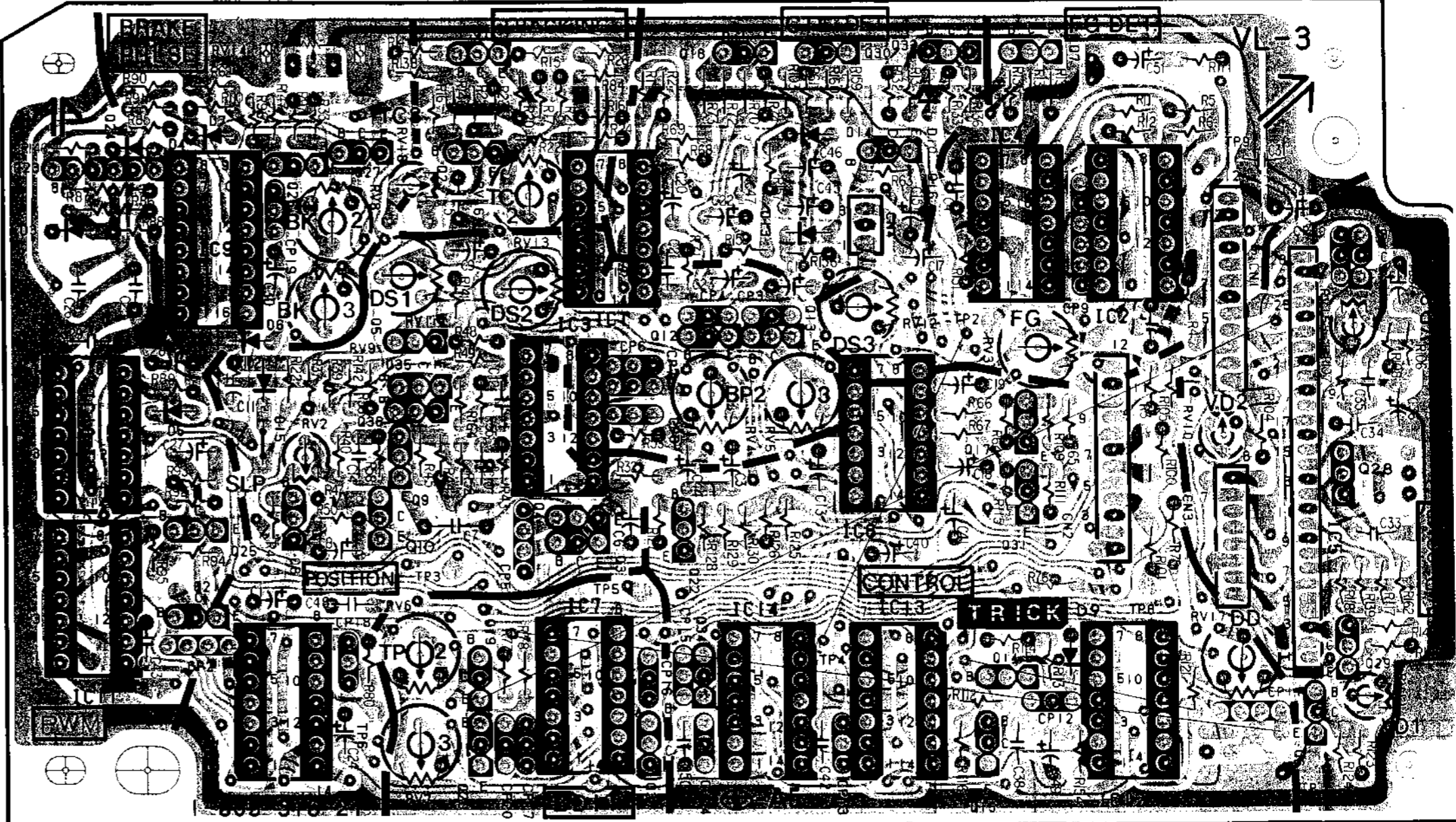
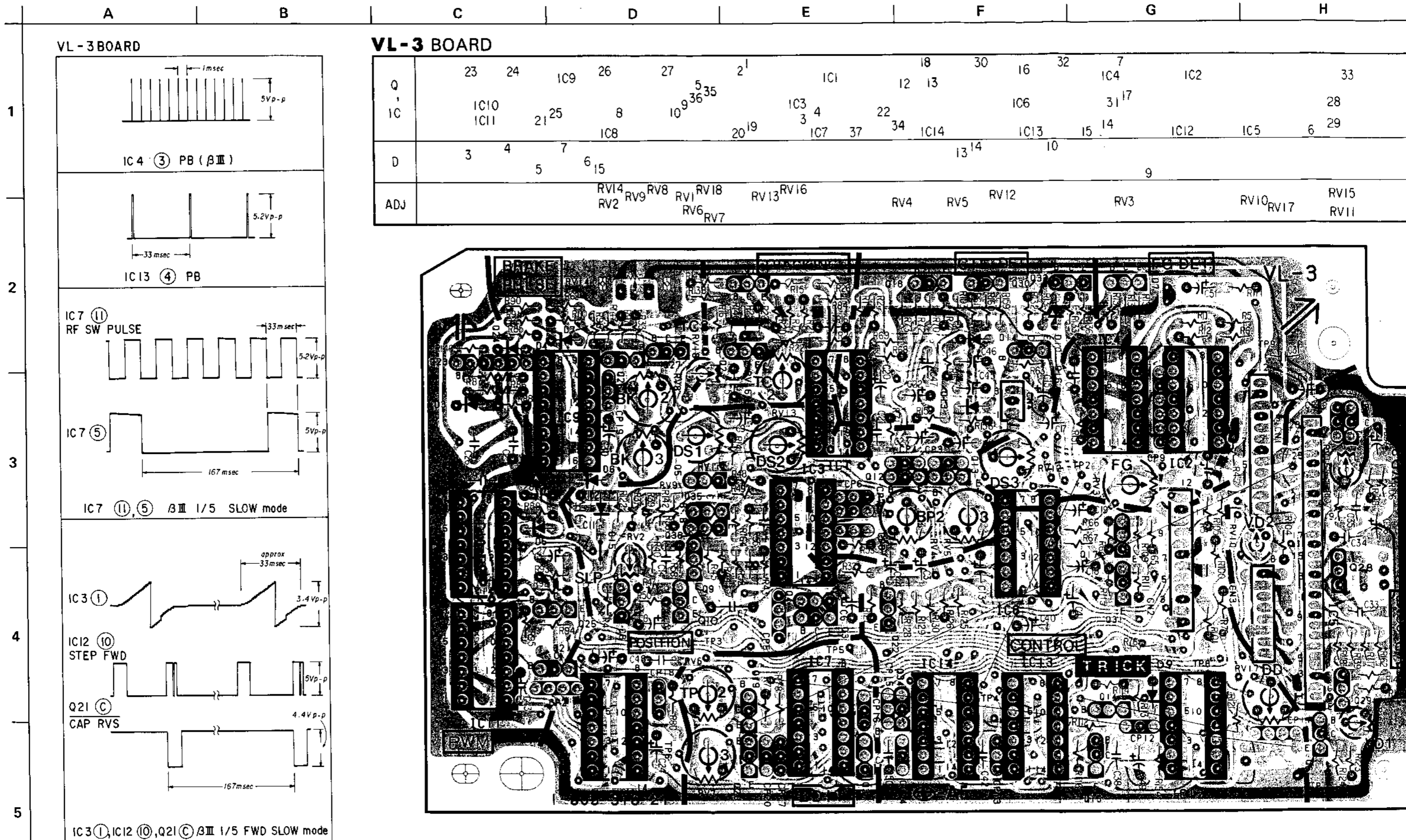
BOARD (O)

WE	LF	MUS	VIDEO A	REVERSE I	FF	REW	CUE	REV	THREADING / UNTHREADING	E-E
0			C	0	0	5	5	5	5	5
0			0	5	5	0	0	5	5	5
0			5	0	5	0	5	5	5	5/0

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

SERVO SERVO

VL-3 (SLOW SERVO) PRINTED WIRING BOARD — Ref. No.6000 series —



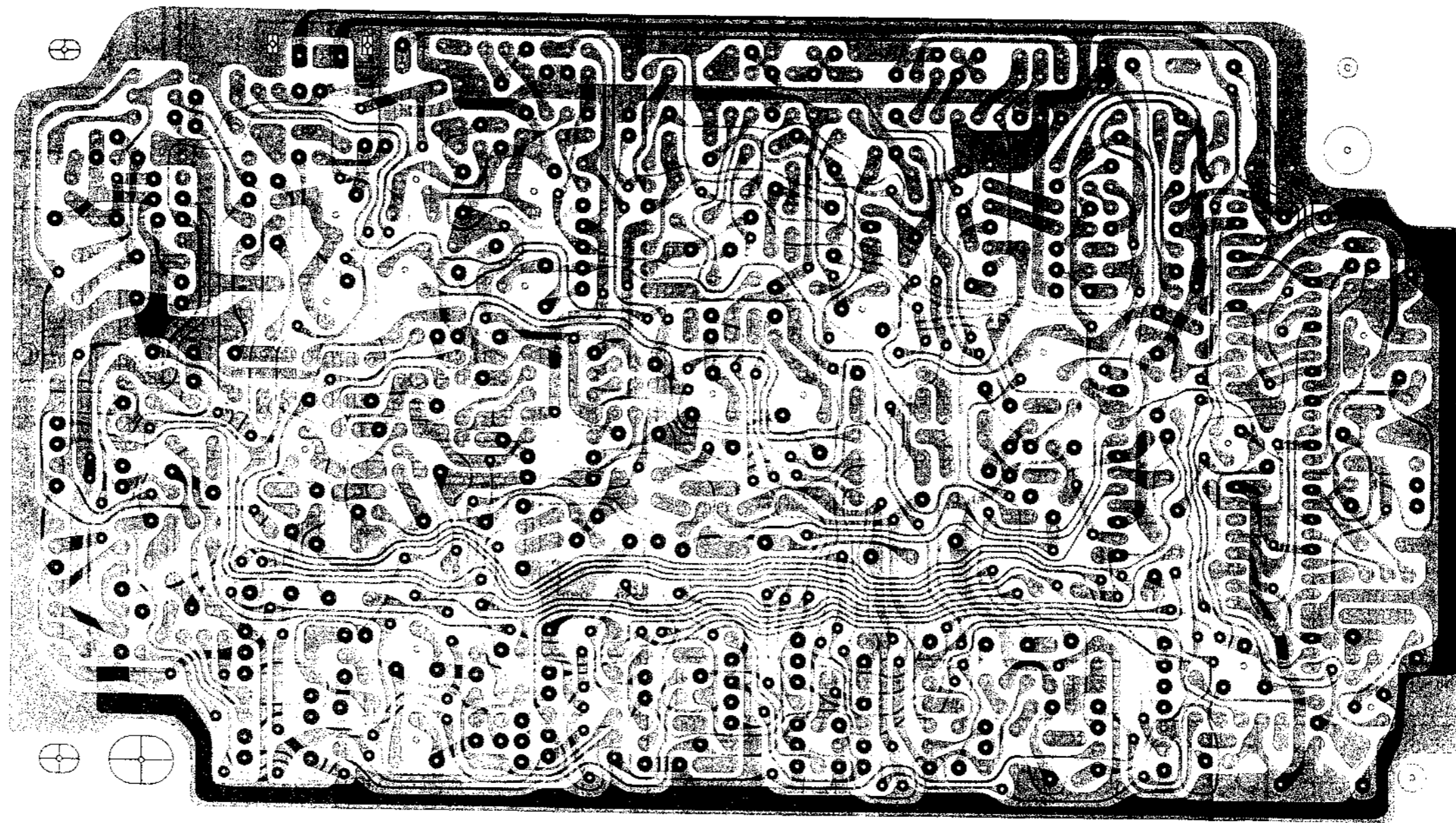
SERVO SERVO

H

I

33	Q
28	IC
29	
6	D
RV15 RV11	ADJ
7	

3



SERVO SERVO

VL-3 (SLOW SERVO) BOARD SCHEMATIC DIAGRAM

- Ref. No.6000 series -

VL-3 BOARD X1 REVERSE MODE

IC	PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
IC3	1.6	0.3	2.9	5.2	1.7	3.3	0	2.4	1.6	7.3	GND	1.6	1.1	2.5	
IC6	2.4	2.4	2.4	0.9	0	0	GND	0	0	0	0	5.2	5.2	5.2	
ICB	5.2	5.2	5.2	0	0	0	GND	0	0	0	0	5.2	0	5.2	
IC12	0	5.2	0	0	0	0	GND	0	0	0	0	5.2	5.2		
IC13	0.6	0	5.2	0.2	4	4	GND	5.2	0	5.2	5.2	0	0	5.2	
IC14	0	5.2	2.5	2.6	0.6	5.2	GND	5.1	0	0	5.1	5.2	0.1	5.2	

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
C5	3.6	3.2	5.2	2.9	-	2.6	0.3	0	5	0	0	0.1	2.6	0	5.2	GND	0.2	0	GND	0	0.6	2.9	3.3	3	4.5	0	1.9	4.6

Q	1	4	14	15	21	28	29	36
B	0	0	4.6	4.6	0.6	3.7	3.7	4.5
C	2.4	2.9	1.8	1.7	0	1.9	4.2	2.9
E	2.9	2.4	5.2	5.2	GND	3.7	4.2	5.2

VL-3 BOARD CUE/REV MODE

MODE	PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
CUE	3.6	3.2	5.2	0.3	5.1	2.7	0.3	0	0	0	5.2	4.6	2.6	4.7	5.2	GND	4.2	0.8	GND	0	0.6	3	3.4	4.7	3.1	0	2.1	4.6	
REV	3.6	3.2	5.2	0.3	5.1	2.7	0.3	0	5	0	5.2	0	2.6	4.7	5.2	GND	4.2	0.8	GND	0	0.6	3	3.4	4.7	3.2	0	2.1	4.6	

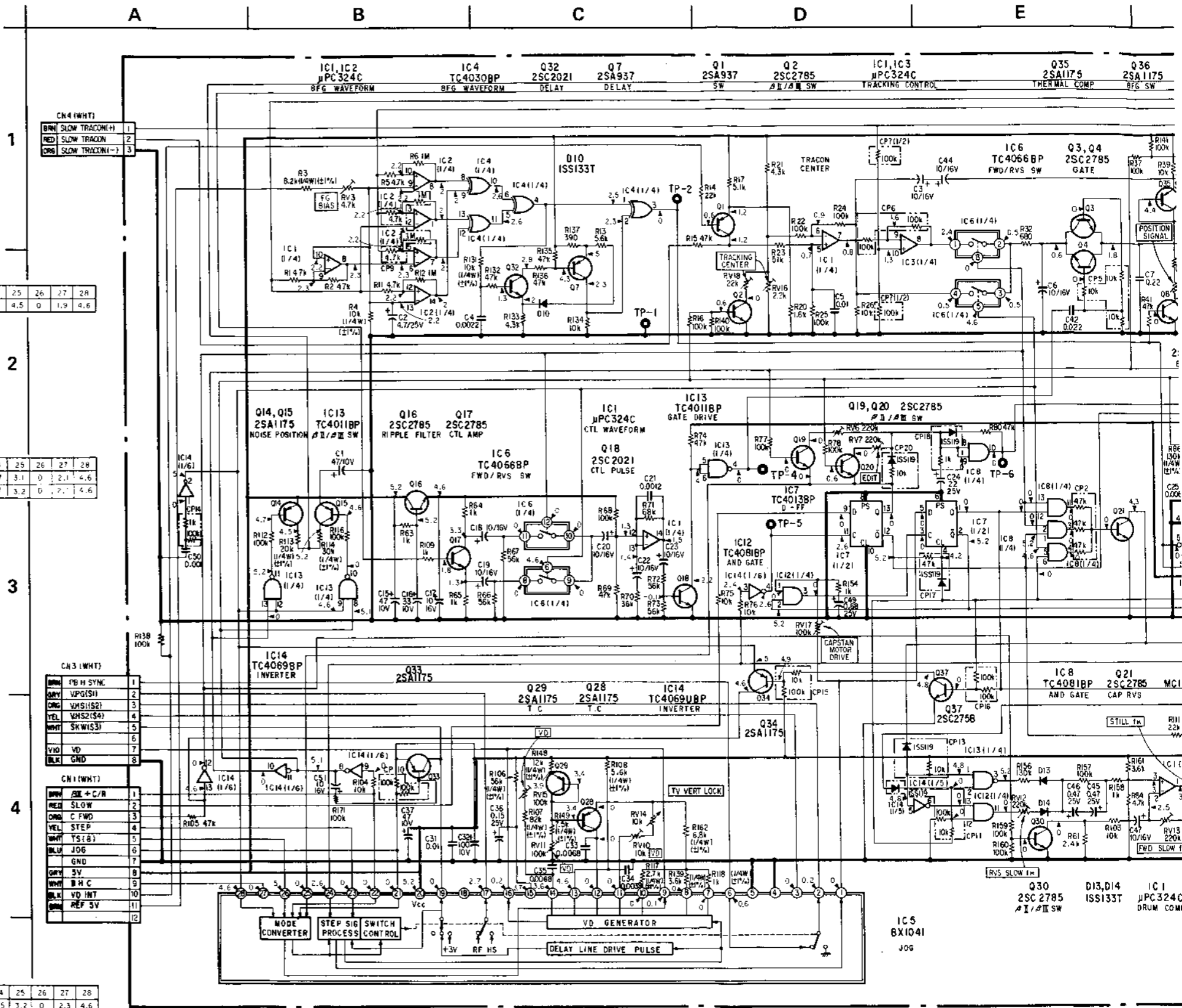
MODE	Q	Q2B	Q2S			
CUL	3.7	2.1	3.8	3.7	3.7	4.2
REV	3.7	2.1	3.8	3.7	3.7	4.2

VL-3 BOARD 1/5 FWD SLOW MODE

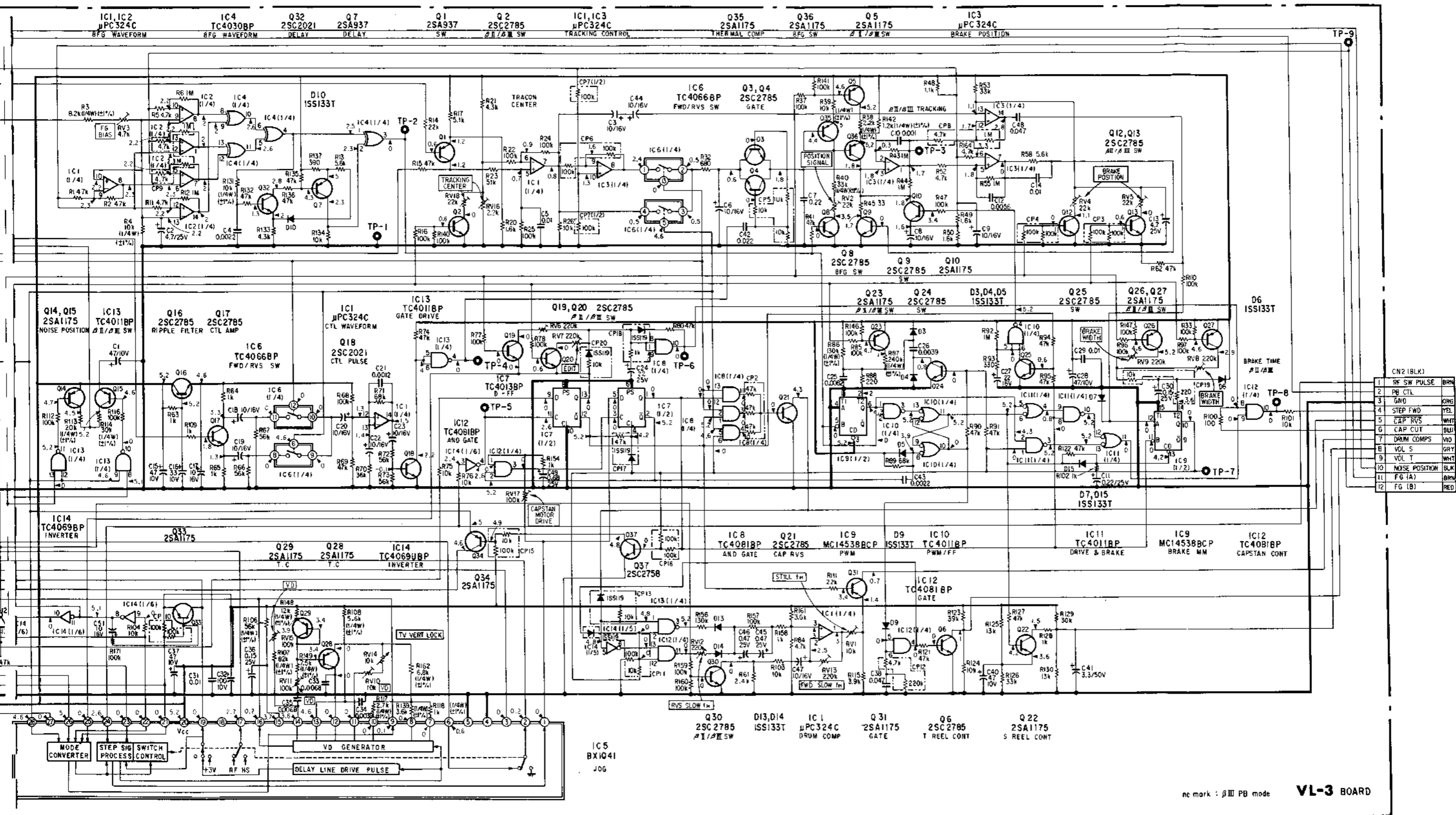
IC	PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC1	2.3	3	2.2	0.7	0.9	0.8	*	2.3	2.2	GND	1.2	1.4	1.4				
IC2	*	1.6	*	5.2	2.4	2.7	*	2.2	2.4	GND	1.7	2.2	*				
IC3	1.5	*	0.4	GND	1.5	3.3	0	2.4	1.6	1.3	GND	1.6	1.1	3.7			
IC4	*	*	0	*	*	GND	*	0.4	*	*	*	*	*	5.2			
IC5	2.4	0.4	0.8	0.8	4.6	4.6	GND	0	0	0	0	0	0	5.2			
IC7	0.9	4.3	0	0.2	1	0	GND	0	5	0	2.6	0	5.2	5.2			
IC8	0	0	0	0.2	4.6	0.9	GND	4.6	4.6	5	0	0	0.9	5.2			
IC9	GND	3.2	5.2	GND	0	0.4	4.3	0	5	0.2	0.8	*	3.8	3.7	GND	5.2	
IC10	1	0	5.2	0	0	0	GND	3.9	5	0.2	5	0.2	5.2	5.2			
IC11	0.2	0.9	5	4.4	0.9	5	GND	0.9	4.4	5	0.4	5	5	5.2			
IC12	2.7	4.3	0	2.4	0.3	0.2	GND	5	0.4	0.4	0	0.8	0.2	5.2			
IC13	4.6	0.3	4.3	0	4.2	4.2	GND	5.2	4.6	0	5.2	4.6	0	5.2			
IC14	5	0	2.5	2.6	4.6	0.2	GND	5.1	0	0	5.1	0	4.6	5.2			

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
C5	3.6	3.1	5.2	1.8	3	0.6	0.3	0	5	5	0	4.6	2.6	0	5.2	GND	0.2	0	GND	1	0.6	3.8	3.8	3.5	3.2	0	2.3	4.6

Q	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
9	4.6	0.6	0	0	4.6	0	*	0	0	3.4	0	0.6	4.6	4.6	5.2	1.9	0	0	3.4	0	4.2	4.7	0	0.1	4.6	4.7	3.7	3.8	0	0.6	*		*	*		
0	1.1	0	0.3	0.4	5.2	0.9	*	*	0.6	0.4	1.1	0	4.5	5.2	5.2	3.3	4.2	2.3	4.6	4.1	1.8	1.6	0.1	0	5.2	3.9	2.3	3.8	0	1.1	*		*	0.4		
5	1.2	GND	0.4	0.6	5.2	GND	5	GND	GND	1.6	GND	GND	GND	5.2	5.2	4.6	1.3	GND	5.2	5.2	GND	3.3	5.2	GND	GND	5.2	5.2	3.8	4.2	GND	1.2	2		5	5.2	



B C D E F G H



Color	Function
BRN	RF SW PULSE
BRN	PB CTL
GRN	GND
YEL	STEP FWD
WHT	CAP RVS
BLU	CAP CUT
VID	DRUM COMPS
GRY	VOL S
WHT	VOL T
BLK	NOISE POSITION
BRN	FG (A)
RED	FG (B)

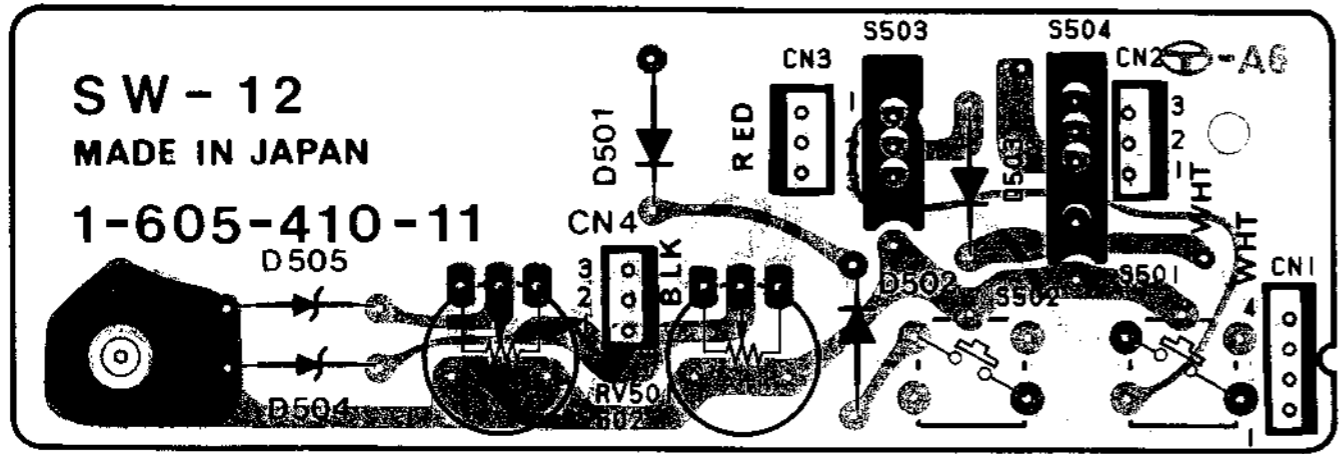
no mark : β III PB mode VL-3 BOARD

35	36
*	*
*	0.4
5	5.2

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

SW-12 (SWITCH TRACKING CONTROL)
PRINTED WIRING BOARD - Ref. No.7500 series -

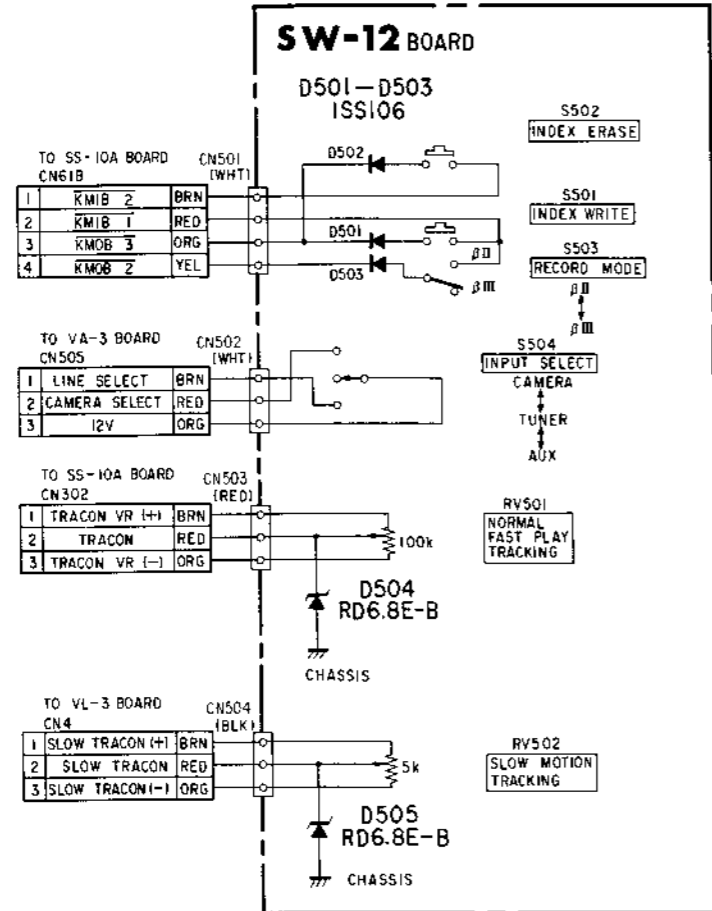
SW-12 BOARD



SW - 12
MADE IN JAPAN

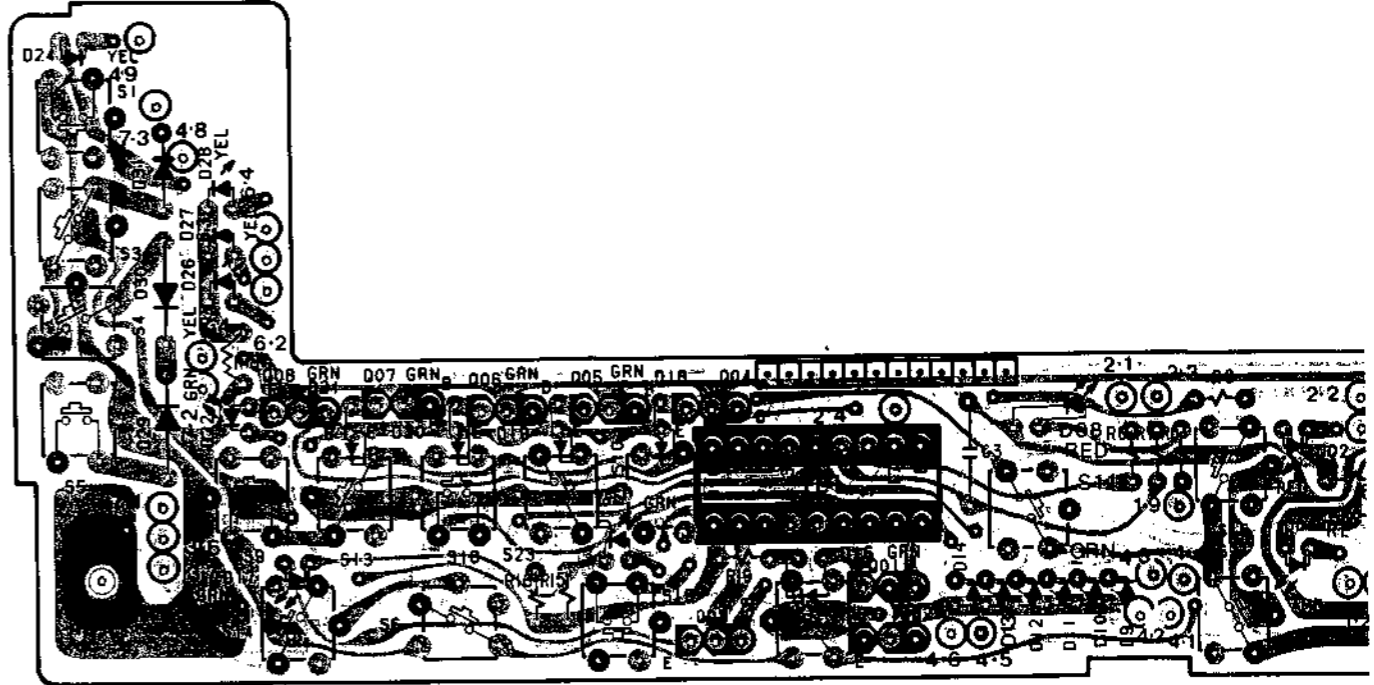
1-605-410-11
D505

SCHEMATIC DIAGRAM

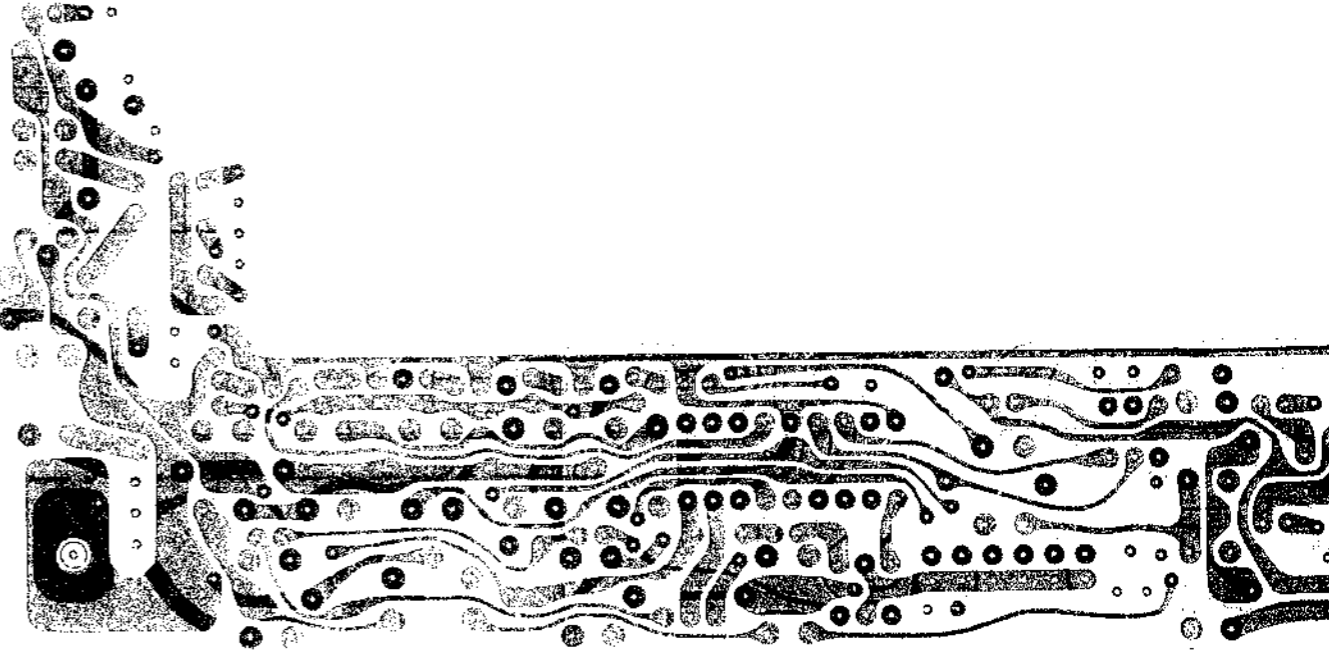


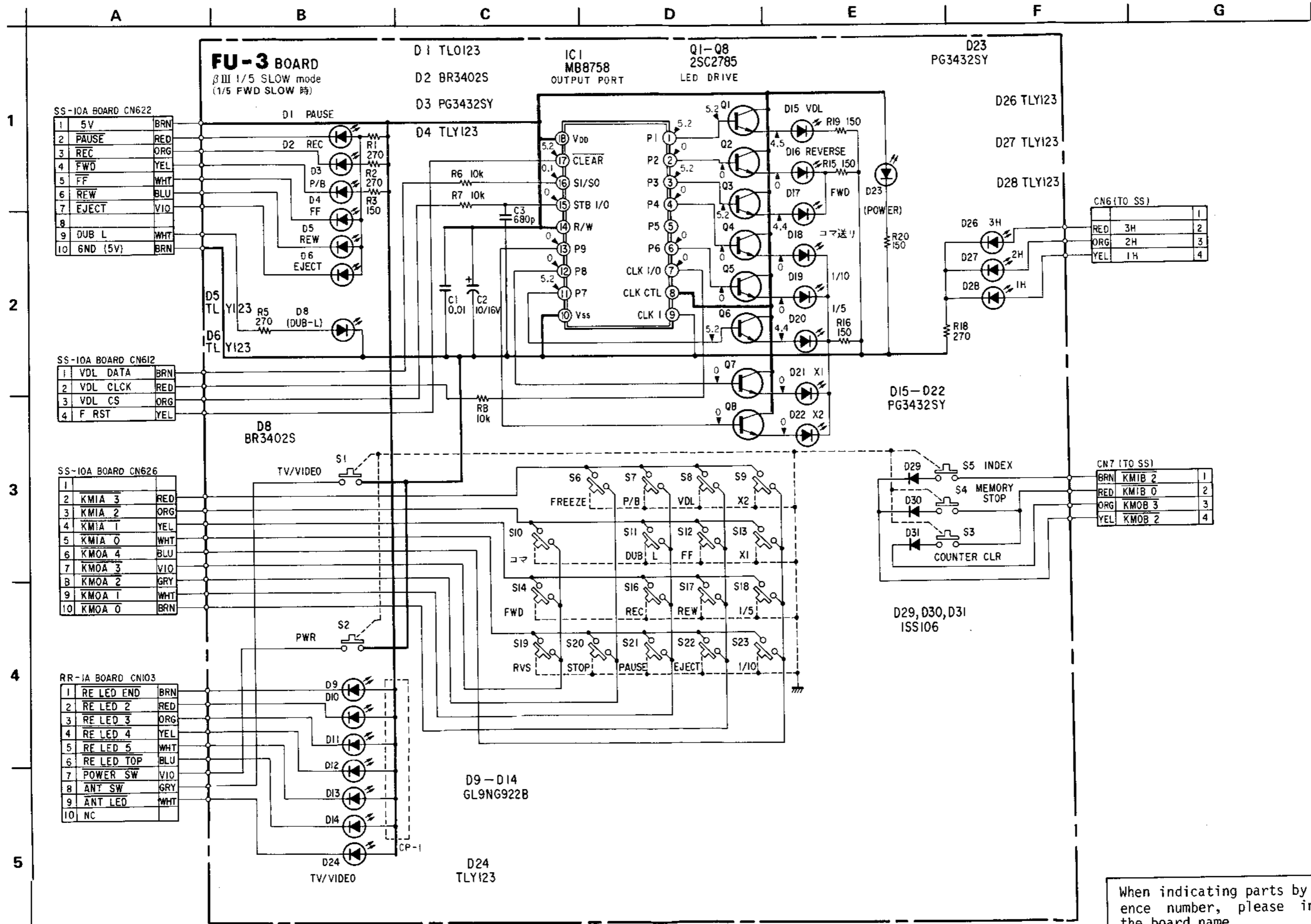
When indicating parts by reference number, please include the board name.

FU-3 BOARD



Q IC		08	07	06	05	04	03	IC1	01	02					
D	24	31	28	21	20	19	18		08	02					
		30	27					15	14	13	12	11	10	9	01
		29	26					17							





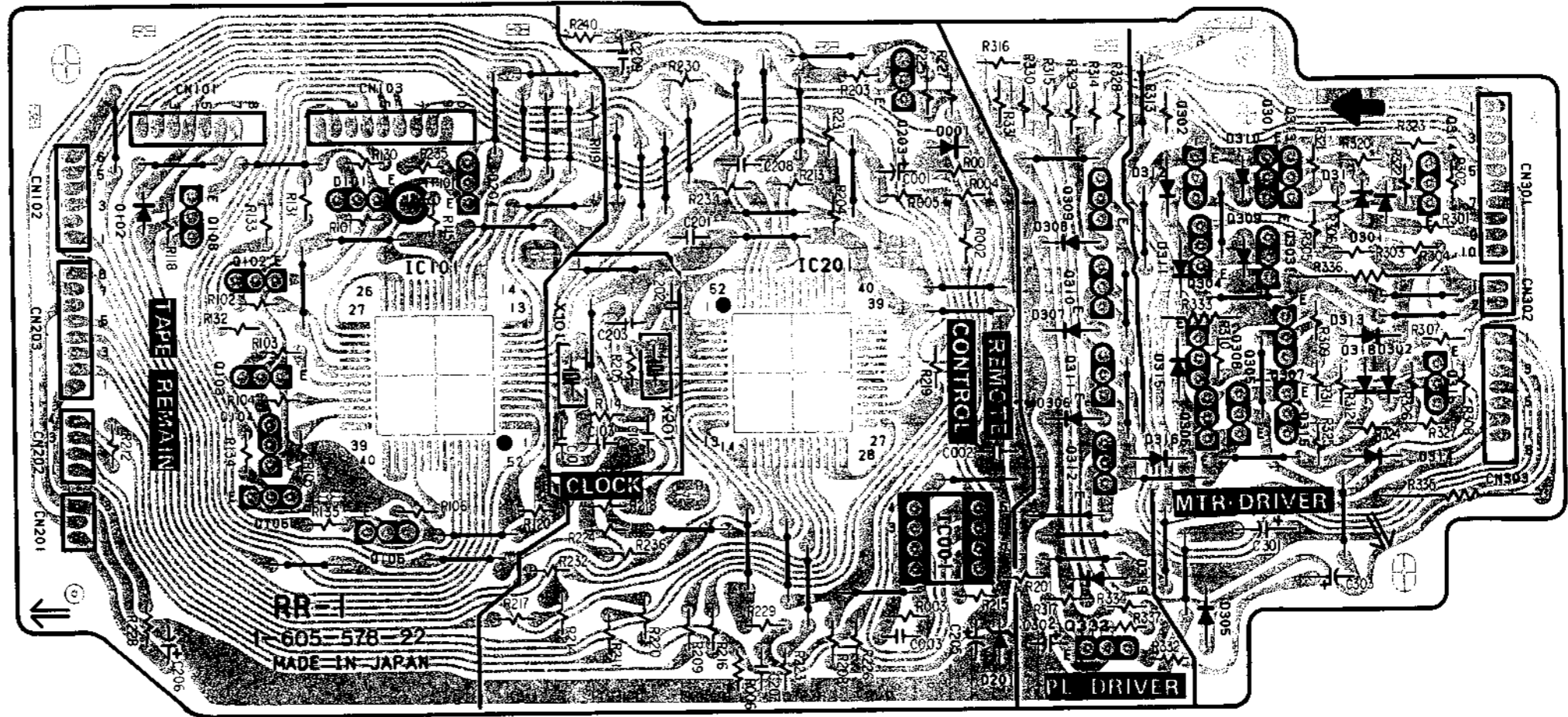
When indicating parts by reference number, please include the board name.

RR-1A (REMOTE CONTROL (RECEIVER) TAPE SOLENOID & MOTOR DRIVE
REMAINING INDICATOR) PRINTED WIRING BOARD - Ref. No.8000 series -

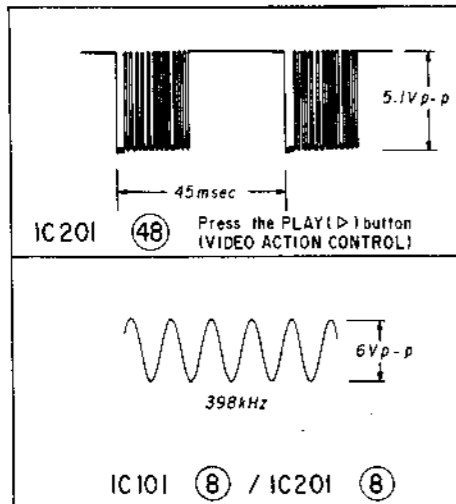
A B C D E F G

RR-1A BOARD

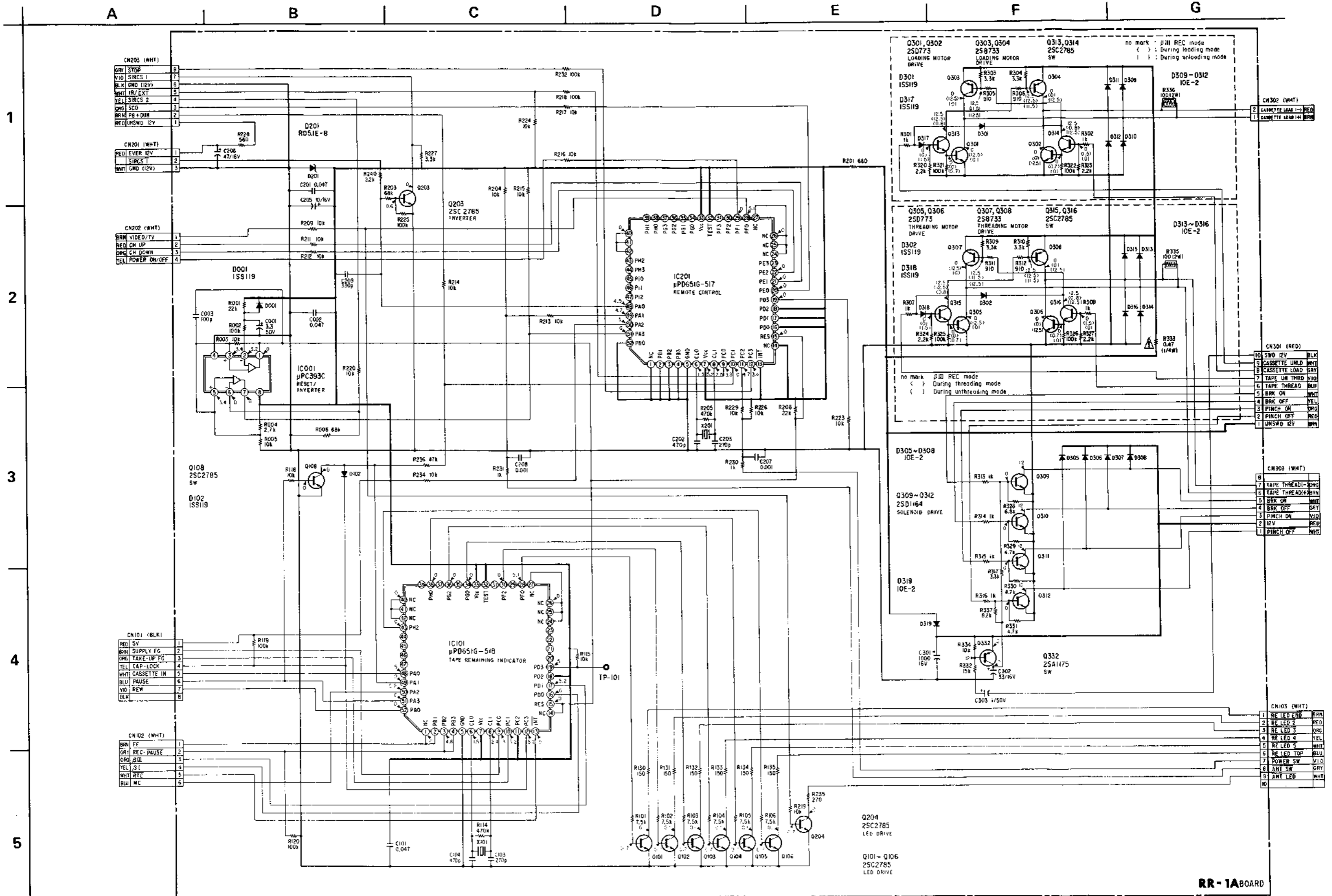
Q	108	102	101	204	203	309	302	301,313	314	Q
IC		103				310	304	303		IC
		104				311	308	307	315	
		105		IC101	IC 201	312	306	305		316
D	102		106			332				D
					IC001	001	312	310	317,301	
							311	309	313	
							315		318,302	
						201	319	316 305	314	



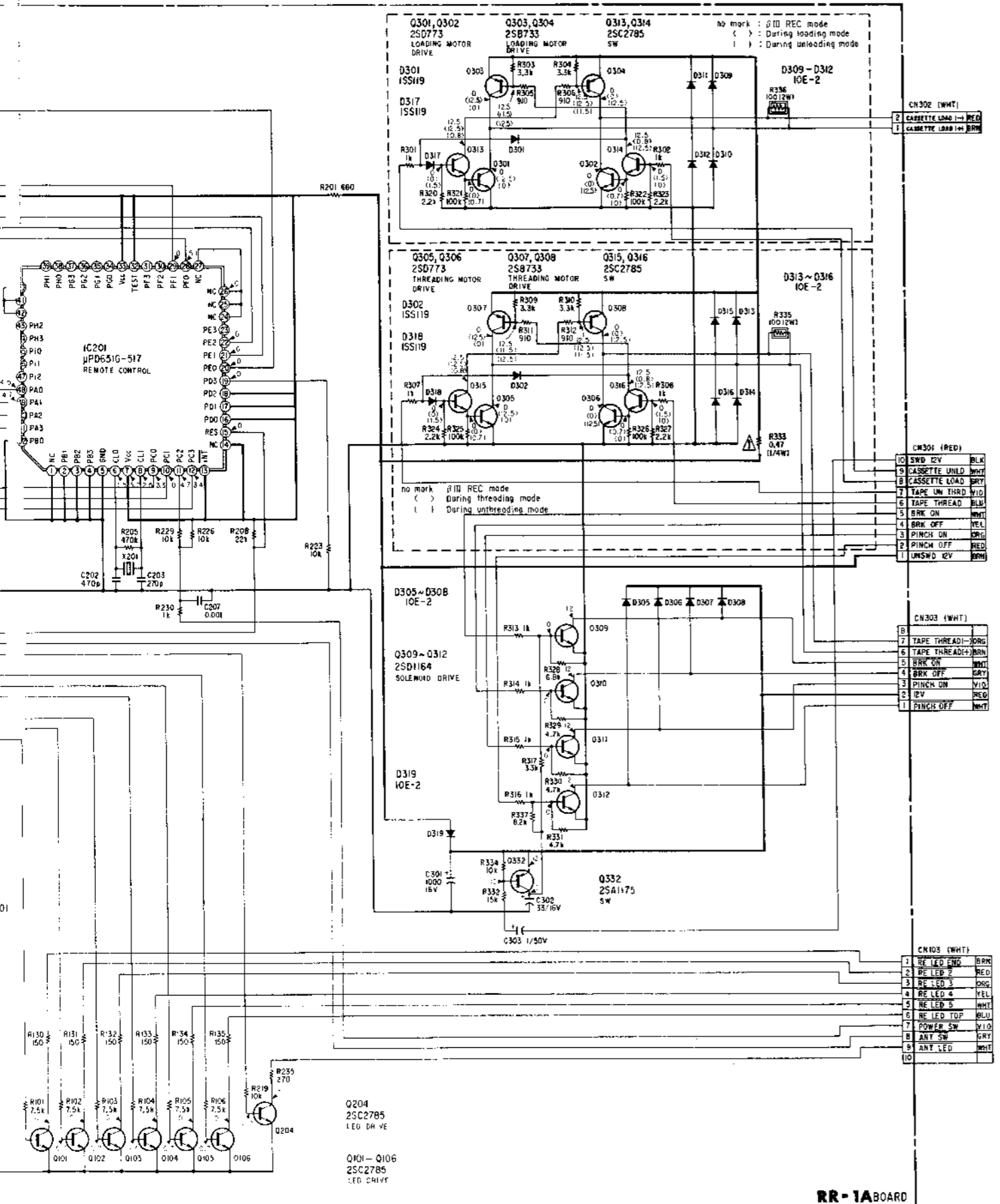
RR-1A BOARD



RR-1A (REMOTE CONTROL (RECEIVER) TAPE SOLENOID & MOTOR DRIVE
REMAINING INDICATOR) BOARD SCHEMATIC DIAGRAM - Ref. No.8000 series -



D E F G



- CN302 (WHT)
- 2 CASSETTE UNLD (WHT)
 - 1 CASSETTE LOAD (WHT)

- CN301 (RED)
- 10 SWD 12V (BLK)
 - 9 CASSETTE UNLD (WHT)
 - 8 CASSETTE LOAD (GRY)
 - 7 TAPE UN THRD (WHT)
 - 6 TAPE THREAD (BLU)
 - 5 BRK ON (WHT)
 - 4 BRK OFF (YEL)
 - 3 PINCH ON (ORG)
 - 2 PINCH OFF (RED)
 - 1 UNSWD 12V (BRN)

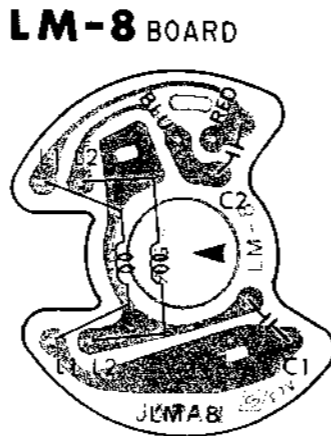
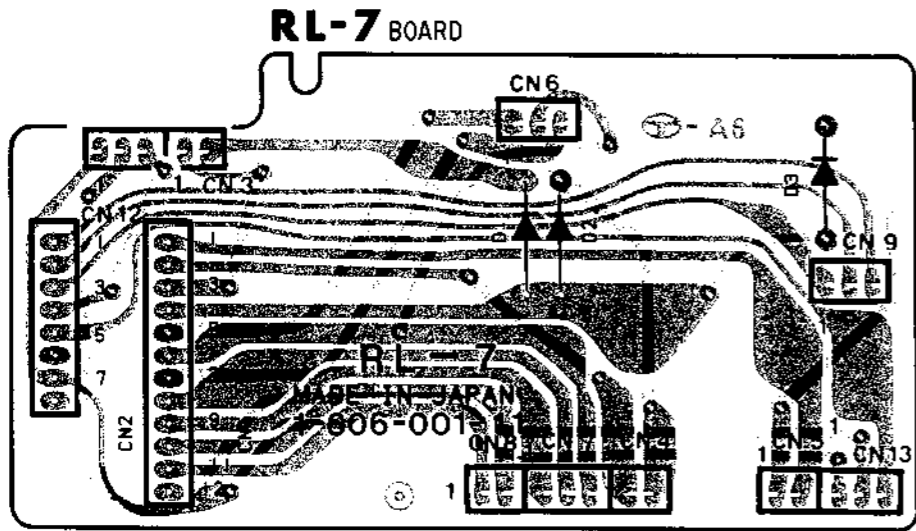
- CN303 (WHT)
- 8 TAPE UN THRD (WHT)
 - 7 TAPE THREAD (ORG)
 - 6 TAPE THREAD (BRN)
 - 5 BRK ON (WHT)
 - 4 BRK OFF (GRY)
 - 3 PINCH ON (YLD)
 - 2 12V (RED)
 - 1 PINCH OFF (WHT)

- CN103 (WHT)
- 1 RE LED END (BRN)
 - 2 RE LED 2 (RED)
 - 3 RE LED 3 (ORG)
 - 4 RE LED 4 (YEL)
 - 5 RE LED 5 (WHT)
 - 6 RE LED TOP (BLU)
 - 7 POWER SW (YLD)
 - 8 ANT SW (GRY)
 - 9 ANT LED (WHT)
 - 10

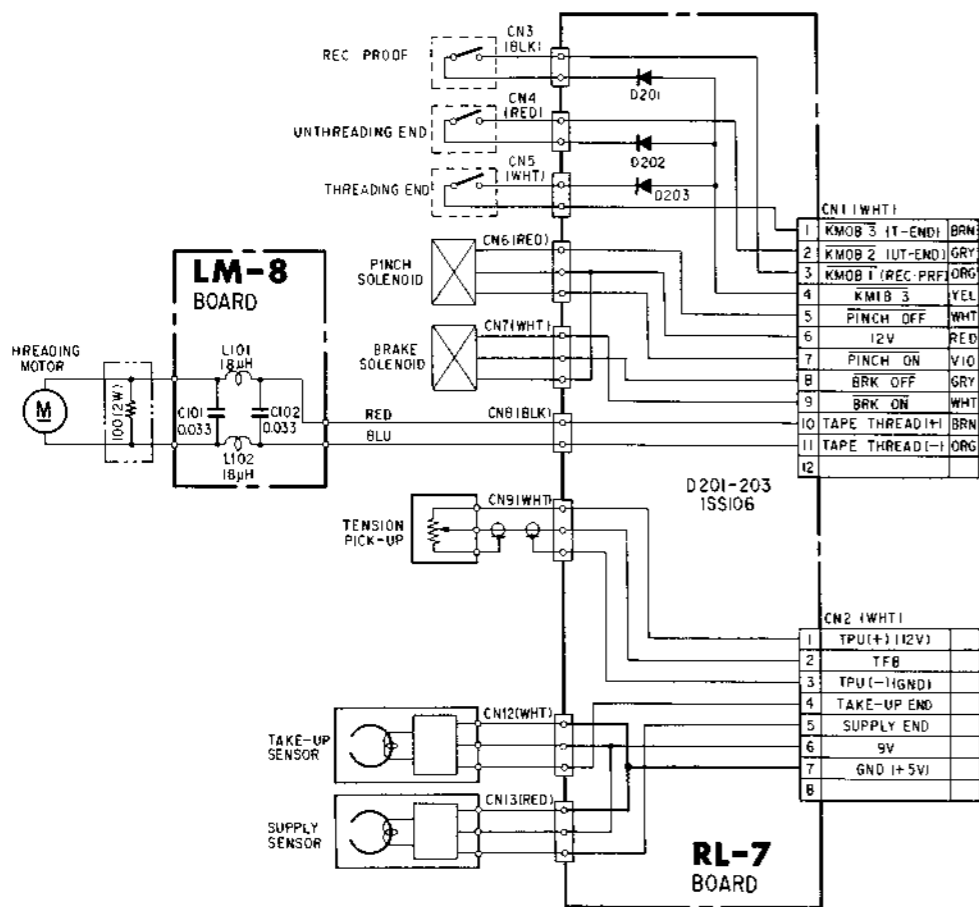
RR-1A BOARD

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

RL-7 (RELAY) AND LM-8 (NOISE FILTER)
PRINTED WIRING BOARD - Ref. No. LM-8 BOARD: 9000 series RL-7 BOARD: 9100 series -



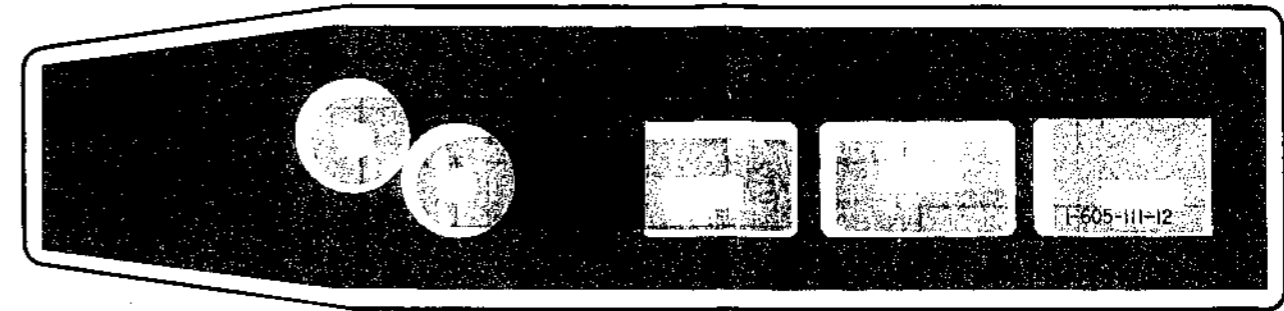
SCHEMATIC DIAGRAM



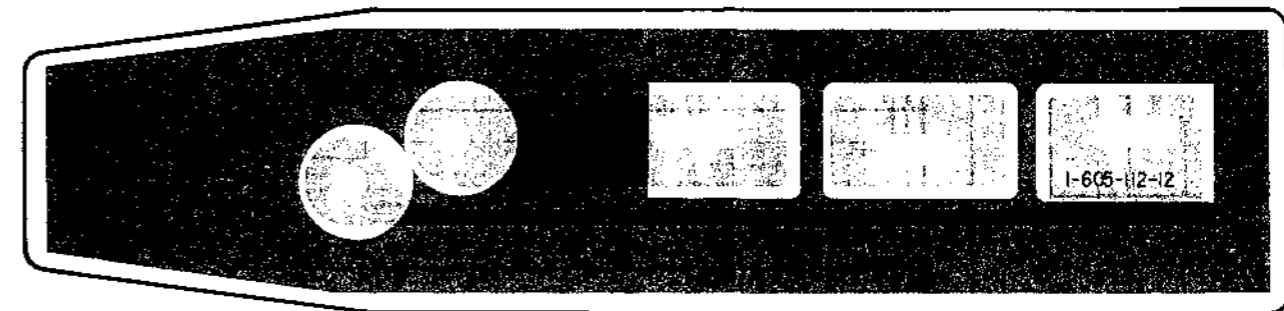
When indicating parts by reference number, please include the board name.

LM-9 (NOISE FILTER RELAY), RL-4 (RELAY), CI-2, CI-3 (SWITCH)
PRINTED WIRING BOARD - Ref. No. LM-9 BOARD: 9500 series -

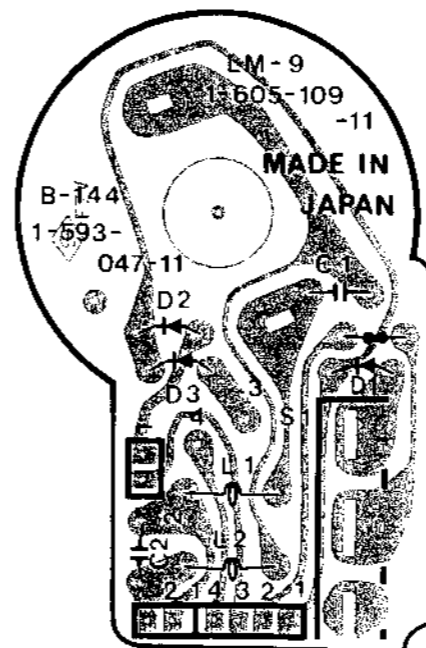
CI-2 BOARD



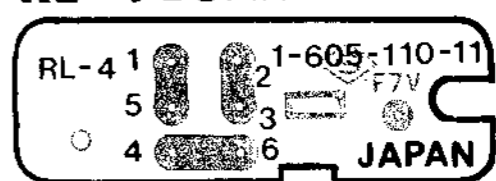
CI-3 BOARD

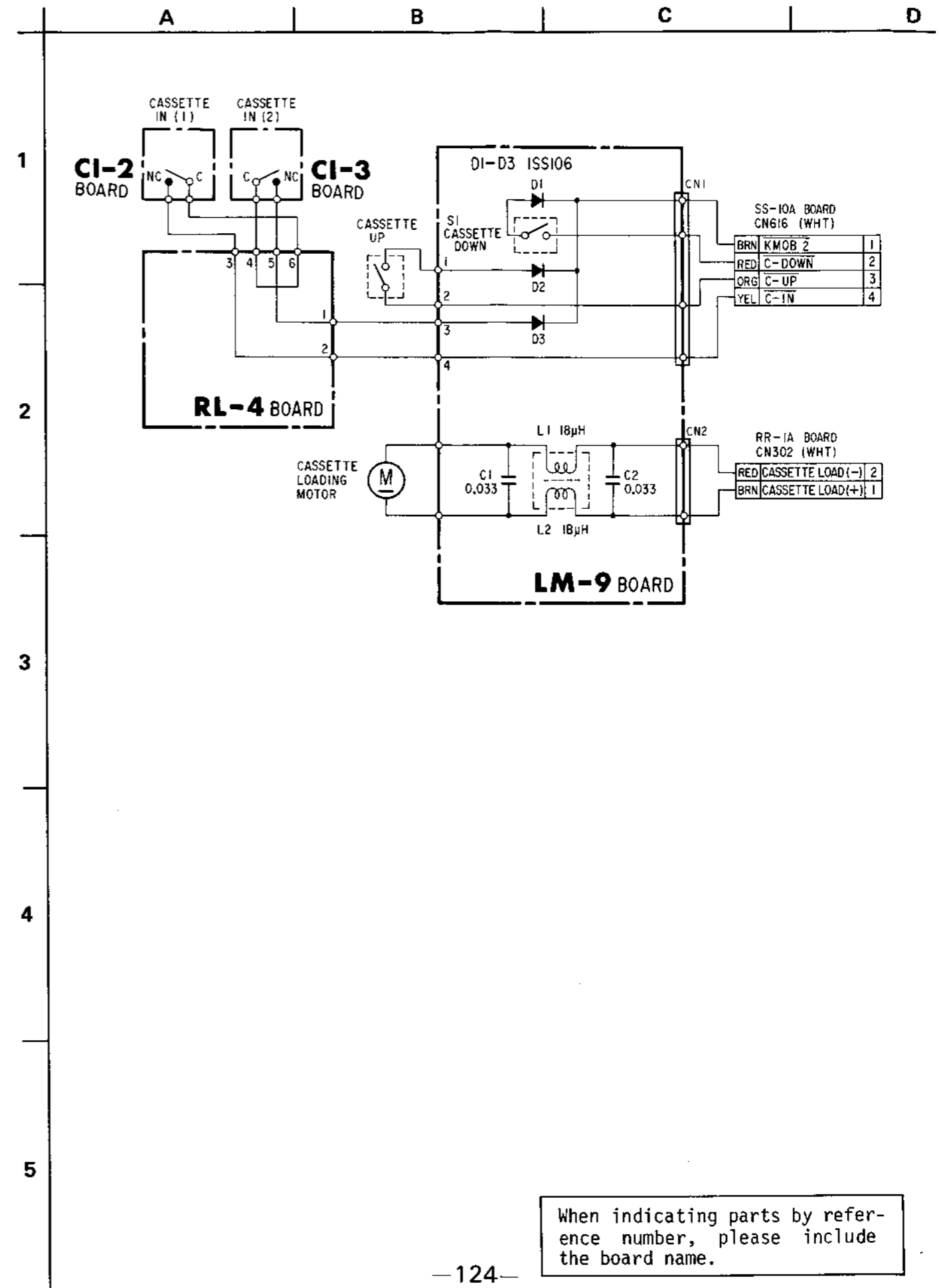
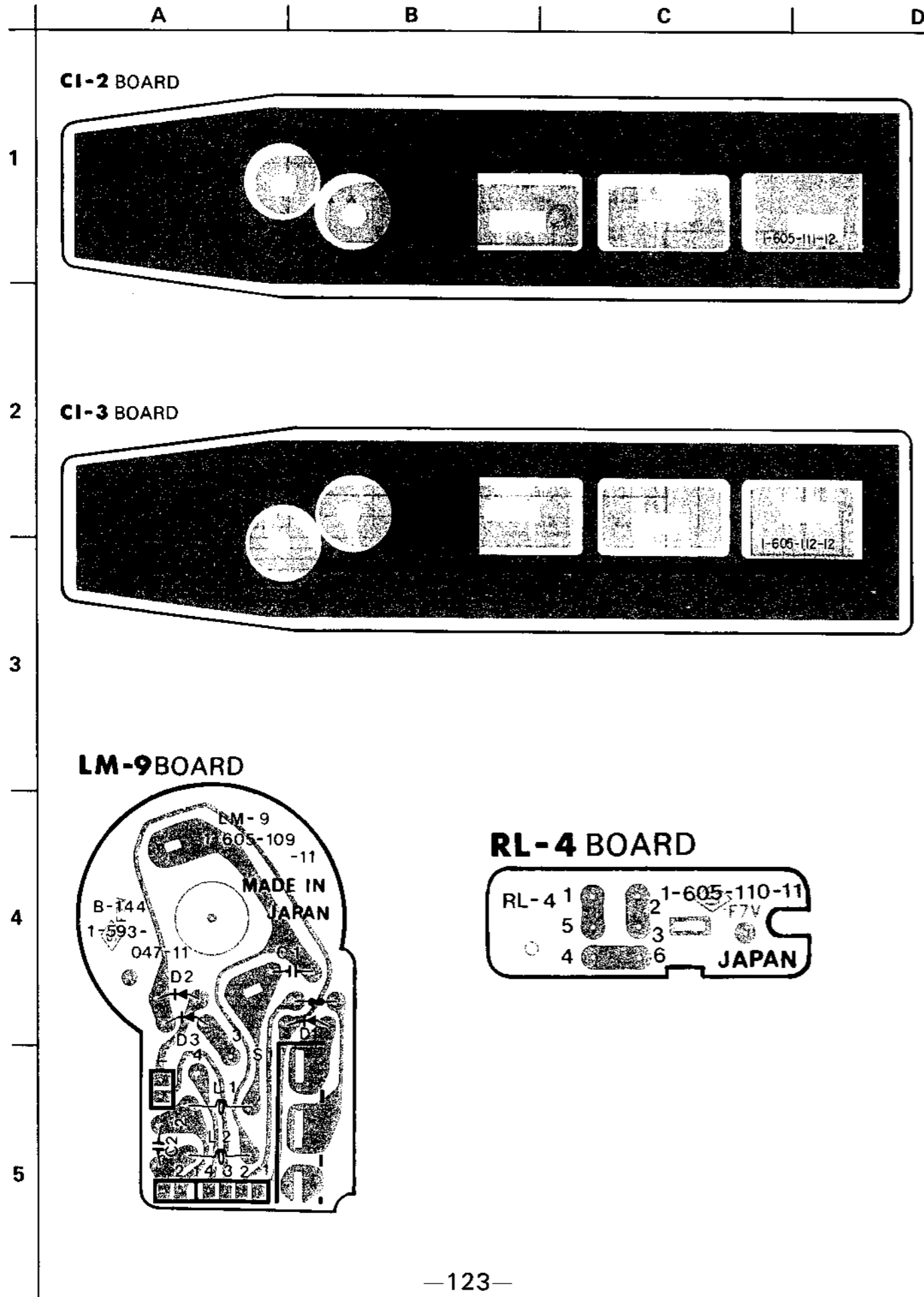


LM-9 BOARD



RL-4 BOARD



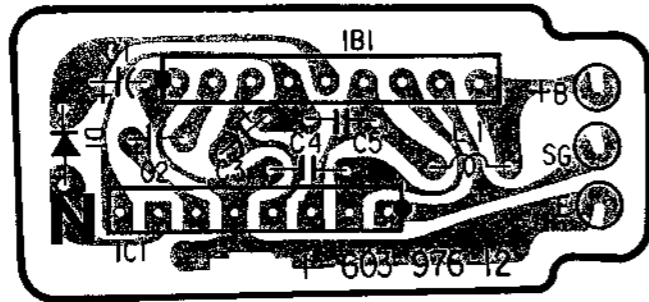


When indicating parts by reference number, please include the board name.

A B C D

1

N BOARD



2

3

4

5

A B C D

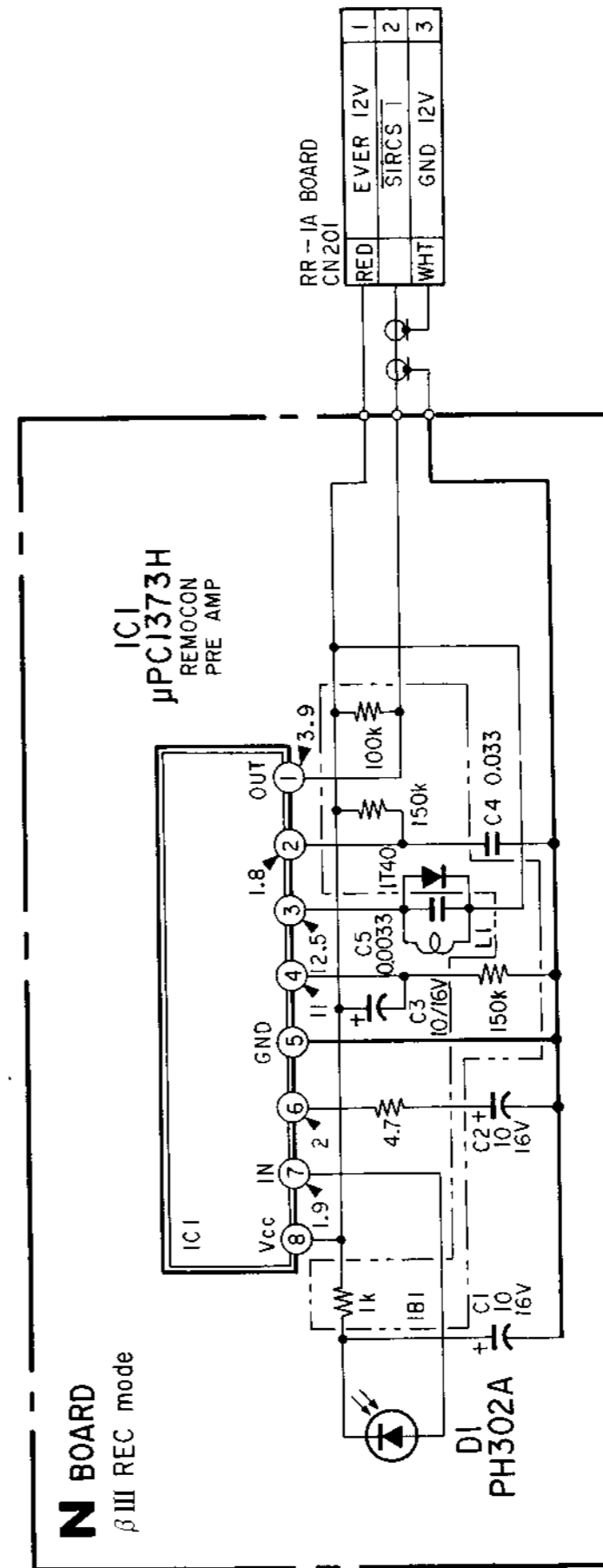
1

2

3

4

5

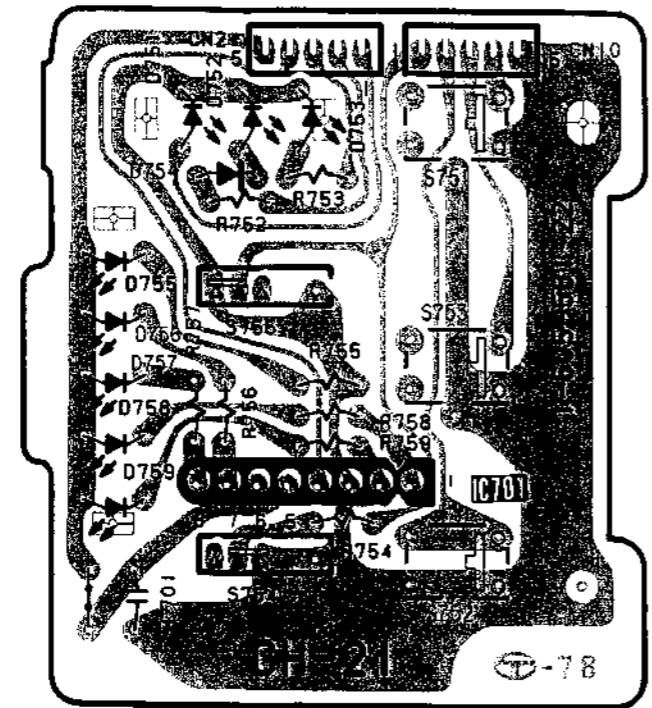


N BOARD
β III REC mode

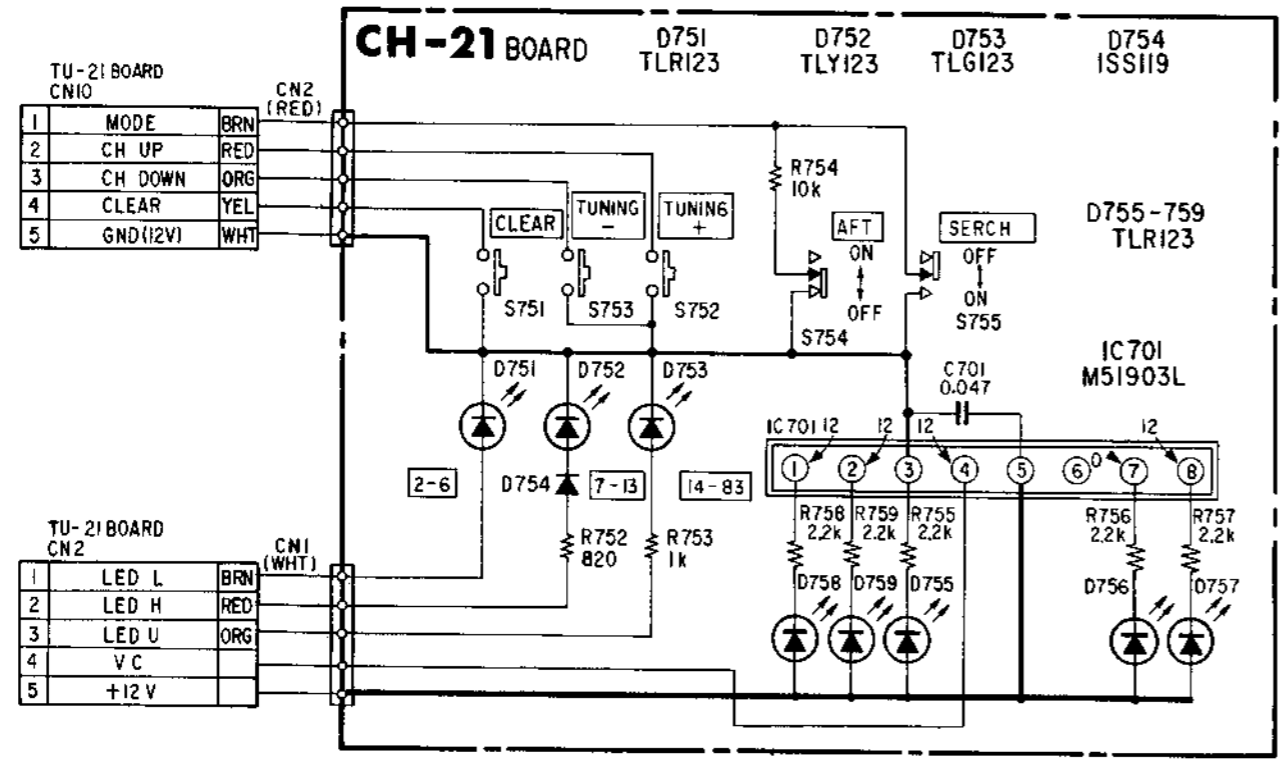
When indicating parts by reference number, please include the board name.

A B C D
 CH-21 (TUNING SWITCH)
 PRINTED WIRING BOARD - Ref. No. 11000 series -

CH-21 BOARD



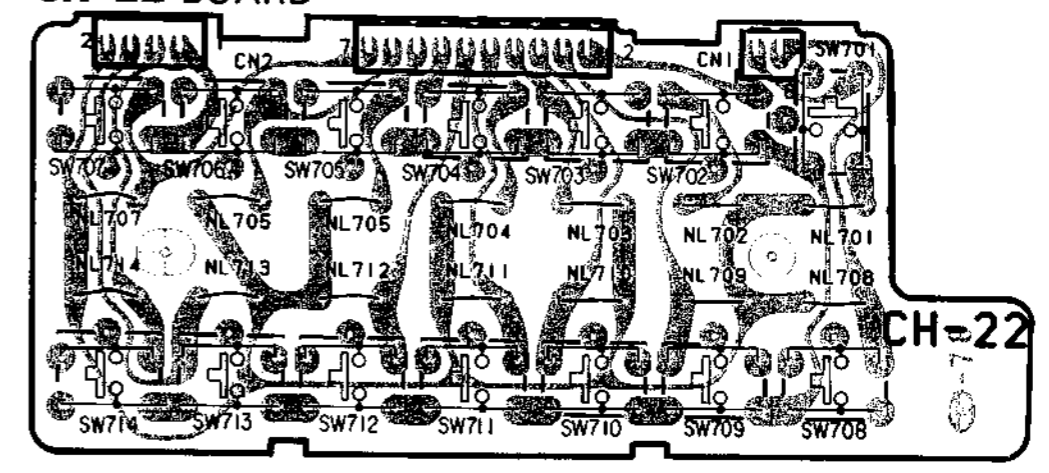
3 SCHEMATIC DIAGRAM



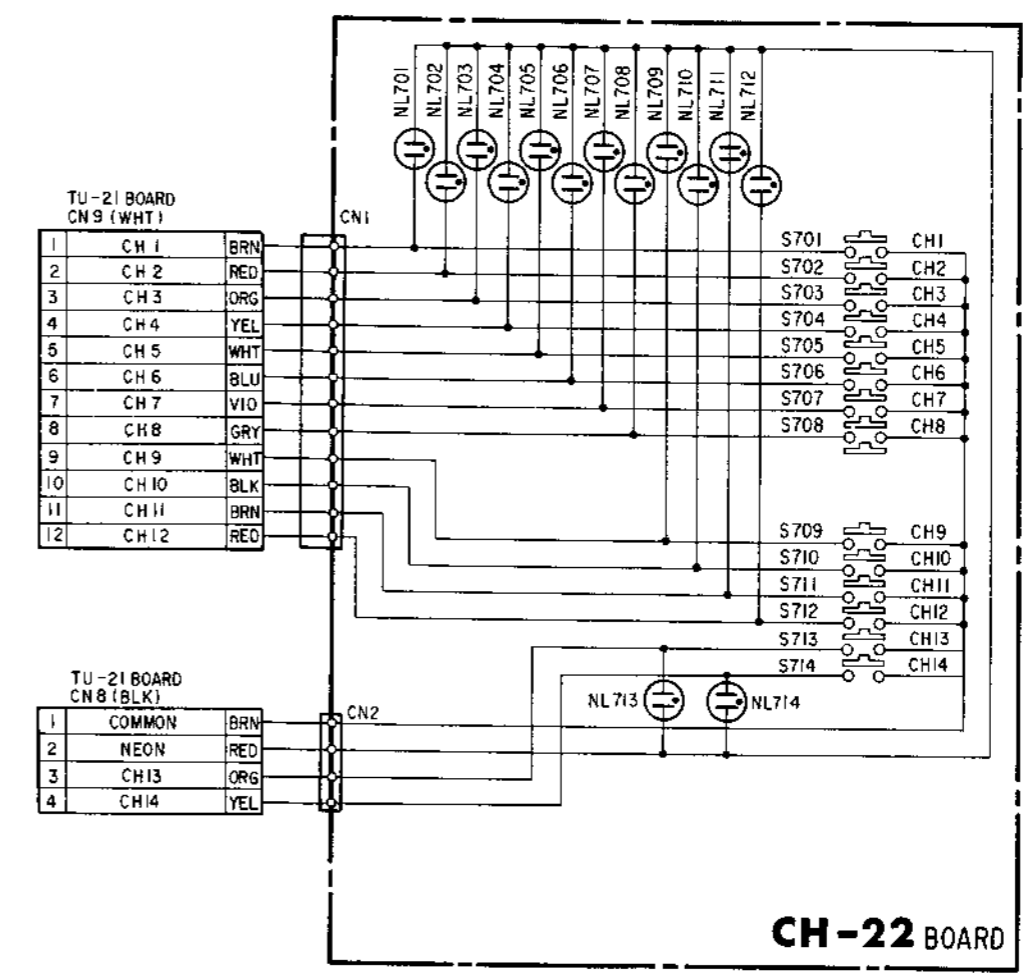
When indicating parts by reference number, please include the board name.

A B C D
 CH-22 (CHANNEL SELECTOR)
 PRINTED WIRING BOARD - Ref. No. 12000 series -

CH-22 BOARD



3 SCHEMATIC DIAGRAM



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

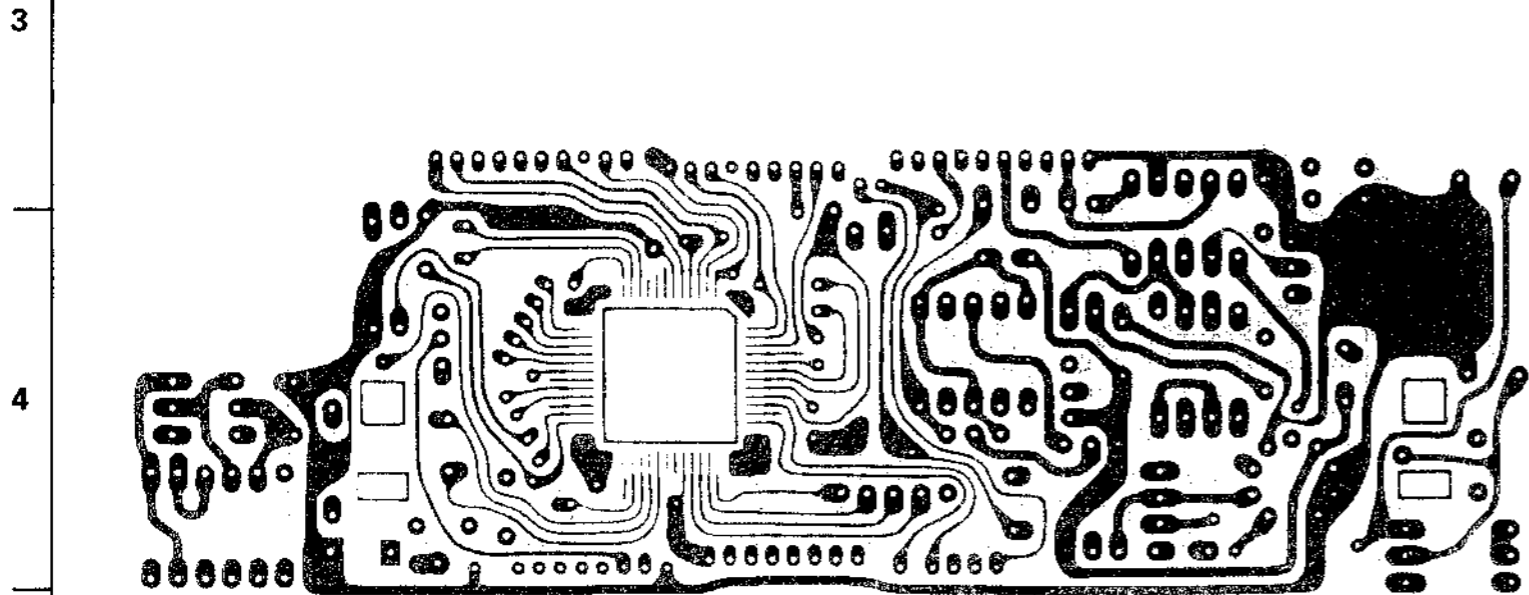
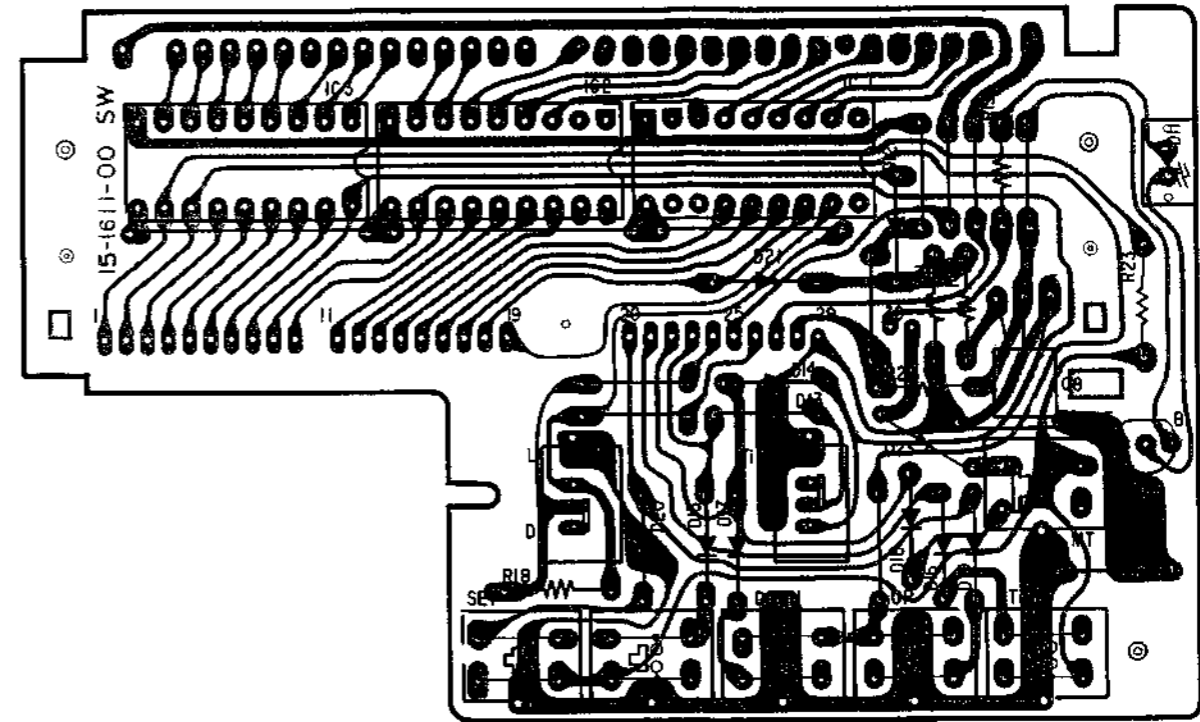
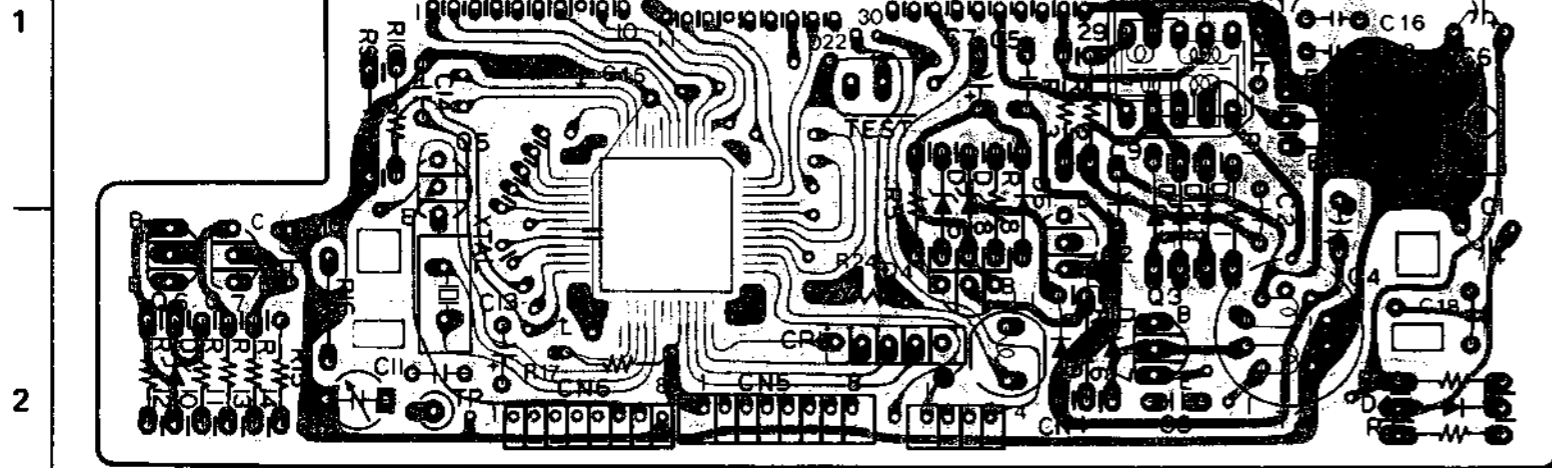
TIMER/COUNTER TIMER/COUNTER

TM-34 (PROGRAM TIMER/TAPE COUNTER) PRINTED WIRING BOARD — Ref. No. 13000 series —

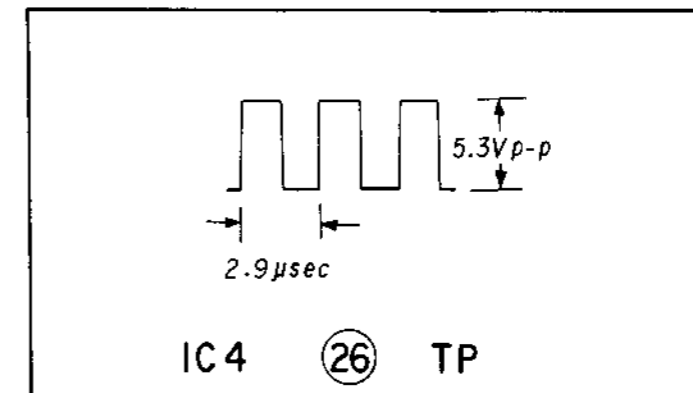
TM-3

A B C D E F G

TM-34 BOARD

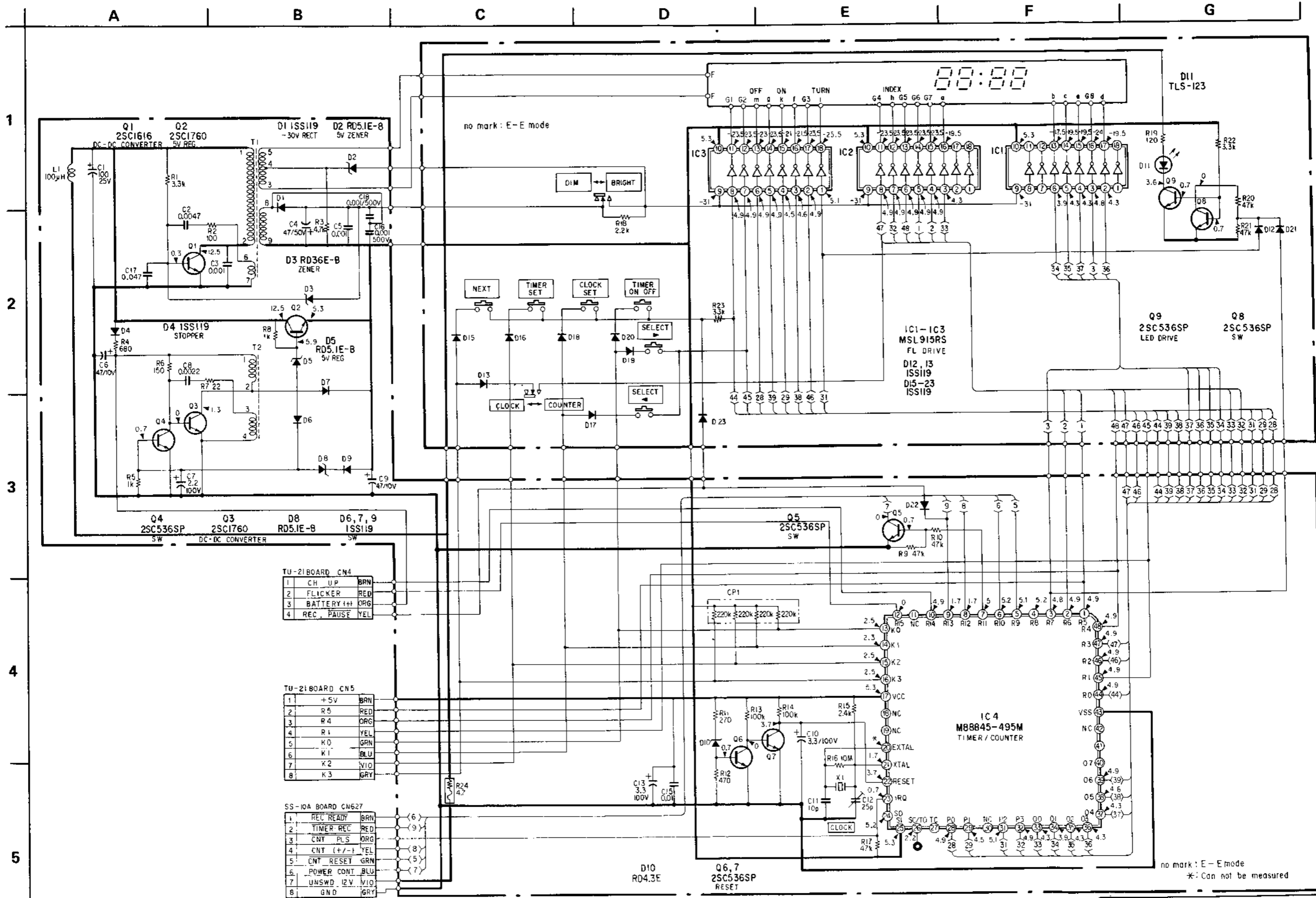


TIMER BLOCK



TIMER/COUNTER TIMER/COUNTER

TM-34 (PROGRAM TIMER/TAPE COUNTER) BOARD SCHEMATIC BOARD — Ref. No.13000 series —



TU-21 BOARD CN4

1	CH UP	BRN
2	FLICKER	RED
3	BATTERY H	ORG
4	REC. PAUSE	YEL

TU-21 BOARD CN5

1	+5V	BRN
2	R 5	RED
3	R 4	ORG
4	R 1	YEL
5	K 0	GRN
6	K 1	BLU
7	K 2	VIO
8	K 3	GRY

SS-10A BOARD CN627

1	REC READY	BRN	(6)
2	TIMER REC	RED	(9)
3	CNT PLS	ORG	(8)
4	CNT (+/-)	YEL	(5)
5	CNT RESET	GRN	(5)
6	POWER CNT	BLU	(7)
7	UNSWD 12V	VIO	(7)
8	GND	GRY	(7)

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

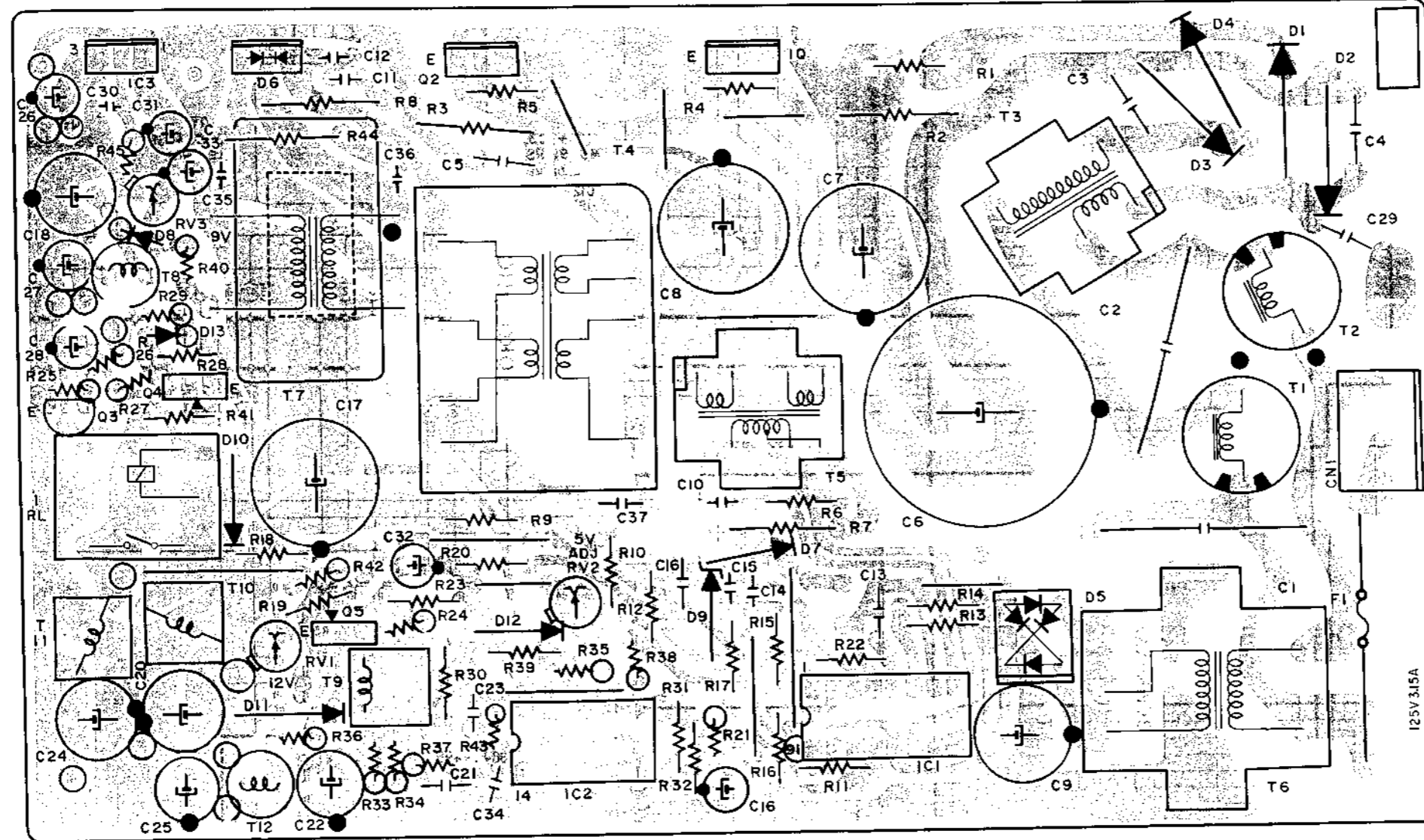
POWER SUPPLY POWER SUPPLY

SR-11A (POWER SUPPLY) PRINTED WIRING BOARD — Ref. No. 14000 series —

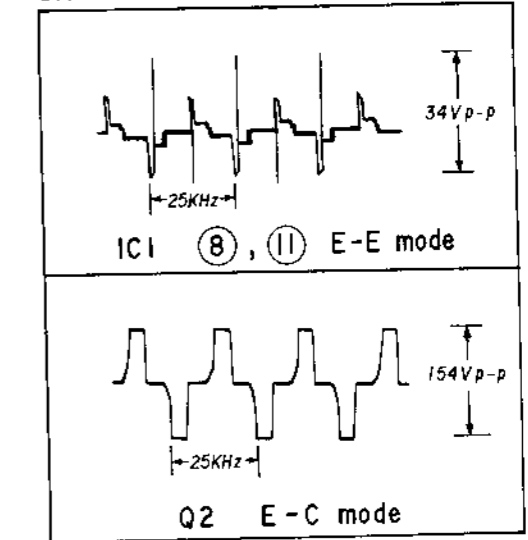
A B C D E F G

IC	IC3					IC2					IC1									
Q	3	4	5			2					1									
D		8	13	10	6	11		12		9	7			5		4	3	1	2	
ADJ			RV3				RV1						RV2							

SR-11A BOARD

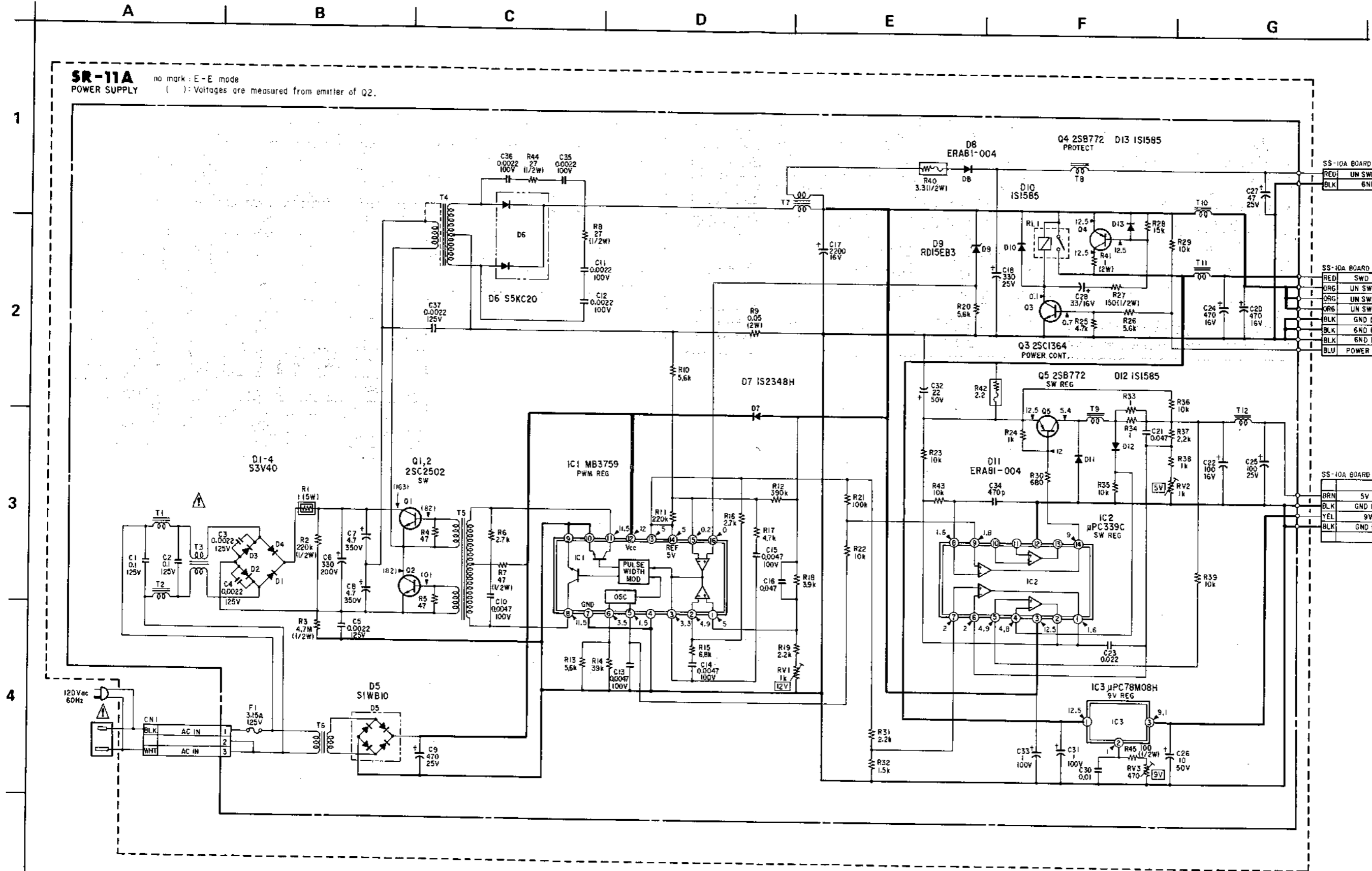


SR-11A BOARD



POWER SUPPLY POWER SUPPLY

SR-11A (POWER SUPPLY) BOARD SCHEMATIC DIAGRAM - Ref. No. 14000 series -



SR-11A no mark: E-E mode
POWER SUPPLY () : Voltages are measured from emitter of Q2.

SS-10A BOARD CN309

RED	UN SWD 15V	1
BLK	GND	2

SS-10A BOARD CN611

RED	SWD 12V	1
ORG	UN SWD 12V	2
ORG	UN SWD 12V	3
ORG	UN SWD 12V	4
BLK	GND (12V)	5
BLK	GND (12V)	6
BLK	GND (12V)	7
BLU	POWER CONT	8

SS-10A BOARD CN610

BRN	5V	1
BLK	GND (5V)	2
YEL	9V	3
BLK	GND (9V)	4

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

SECTION 5 EXPLODED VIEWS

NOTE:

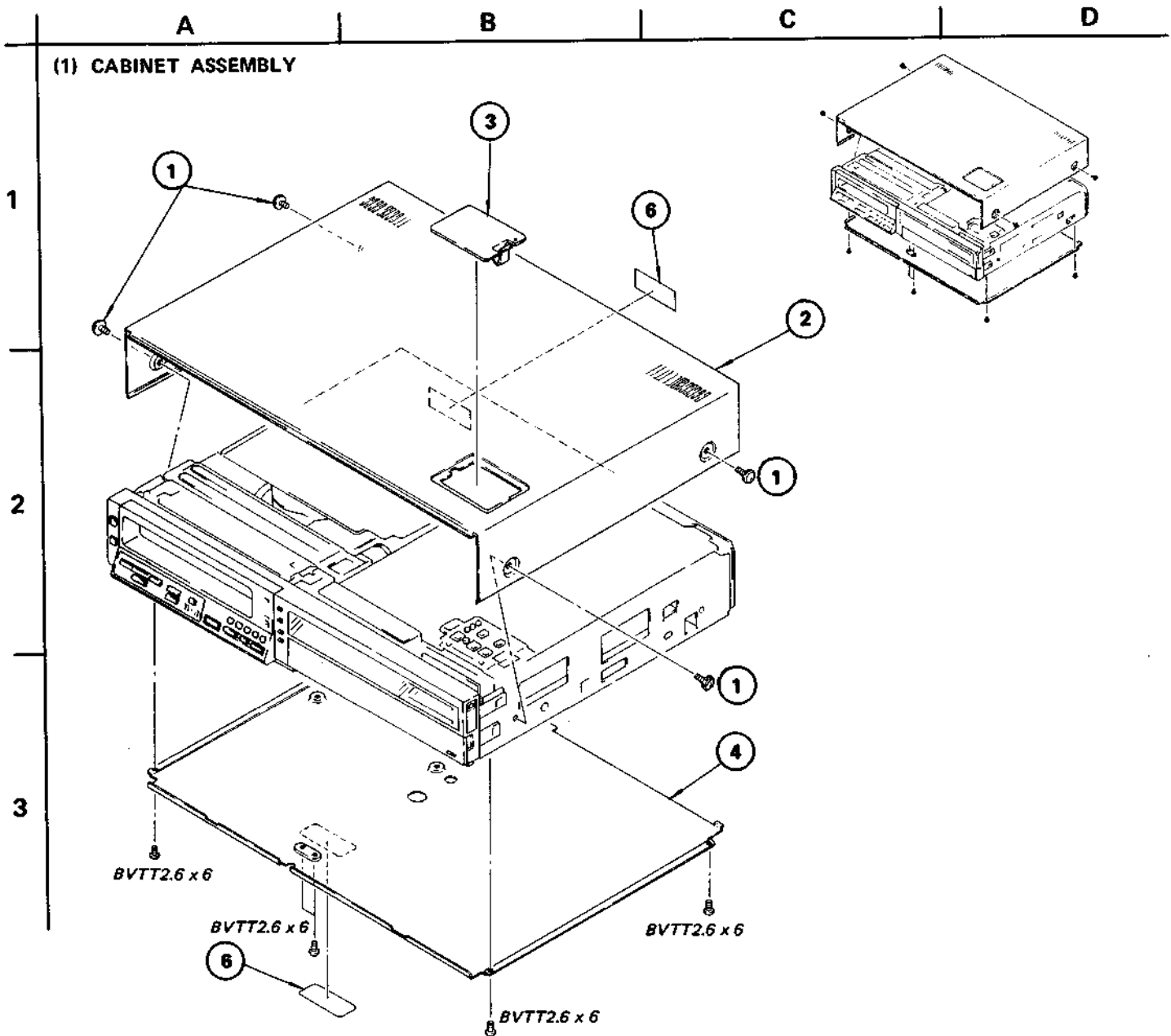
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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.

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



No.	Part No	Description	Remark	No.	Part No	Description	Remark
1	3-703-354-11	SCREW (OS), CASE, CLAW		4	X-3670-039-0	PLATE ASSY, BOTTOM	5
2	X-3670-047-0	CASE ASSY		5	3-703-043-21	LABEL, MAIN COUTION	
3	4-342-123-00	DOOR, PRESET		6	▲ 3-671-881-00	LABEL, MODEL NUMBER	

A

B

C

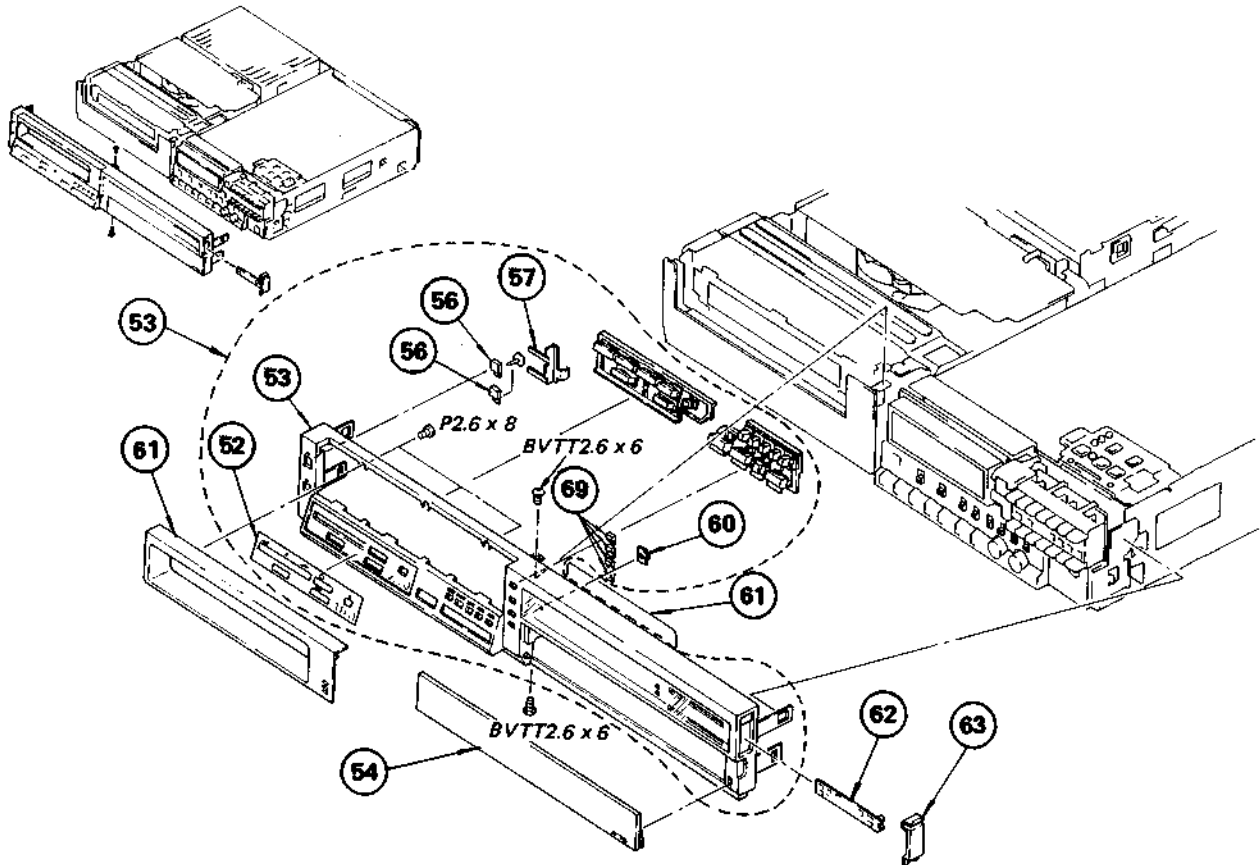
D

(2) FRONT ASSEMBLY

1

2

3



No.	Part No	Description	Remark	No.	Part No	Description	Remark
51	X-3670-038-0	GUIDE ASSY, ENTRANCE, CASSETTE		59	3-670-074-00	BUTTON, COUNTER	
52	3-670-176-00	PLATE, ORNAMENTAL, BUTTON, FU		60	3-670-075-00	LED COVER, TIMER RECORD	
53	X-3670-054-0	PANEL ASSY, FRONT	52, 55-57, 59, 60	61	3-671-861-00	COVER, TIMER	
54	X-3670-050-0	DOOR ASSY, FRONT		62	3-670-122-00	HOLDER, INDICATOR	
55	3-670-082-11	BUTTON, PE		63	3-670-087-00	FRONT (RIGHT)	
56	3-670-082-00	BUTTON, PE					
57	3-670-080-00	SPRING, LEAF (PE)					

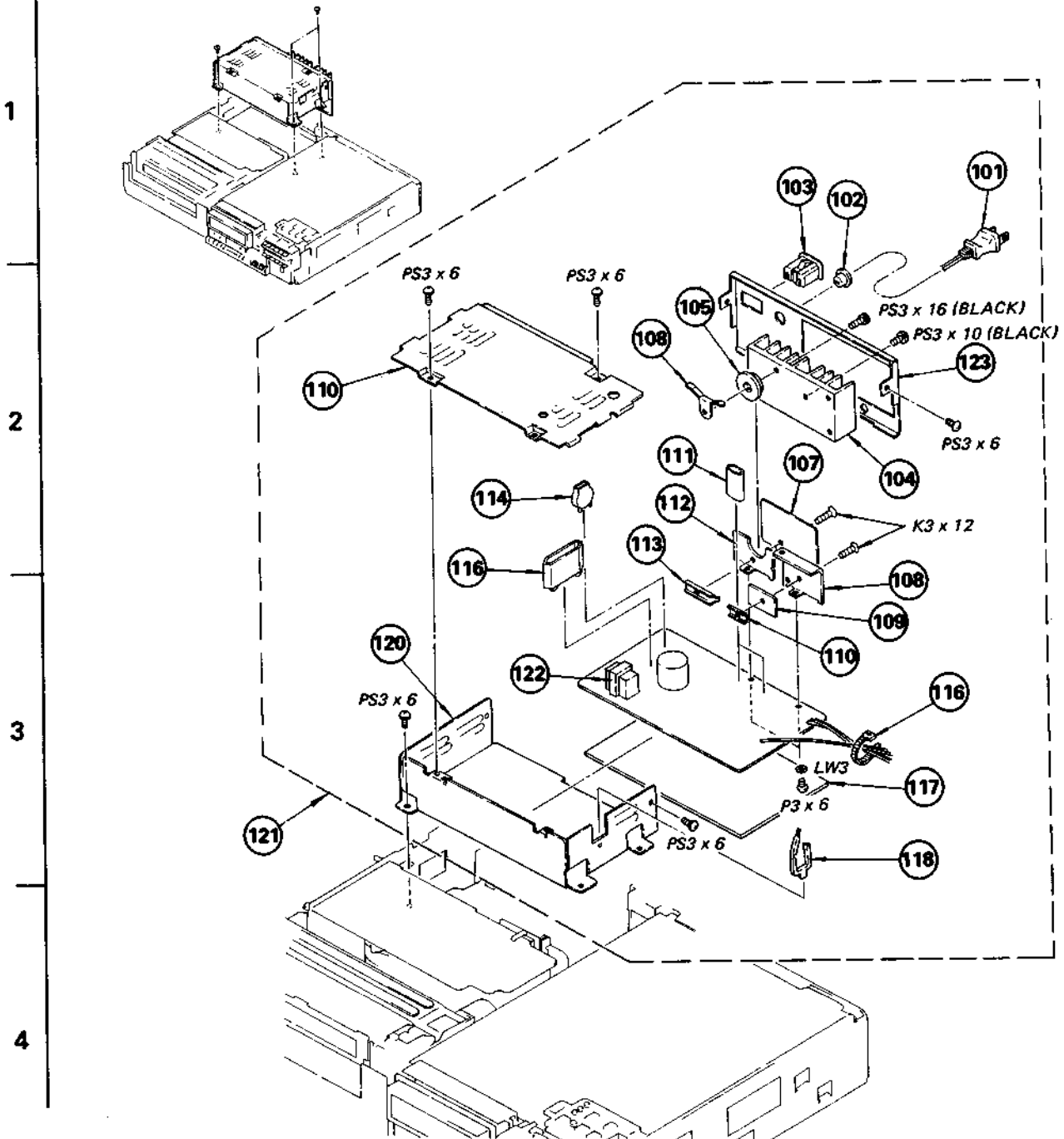
A

B

C

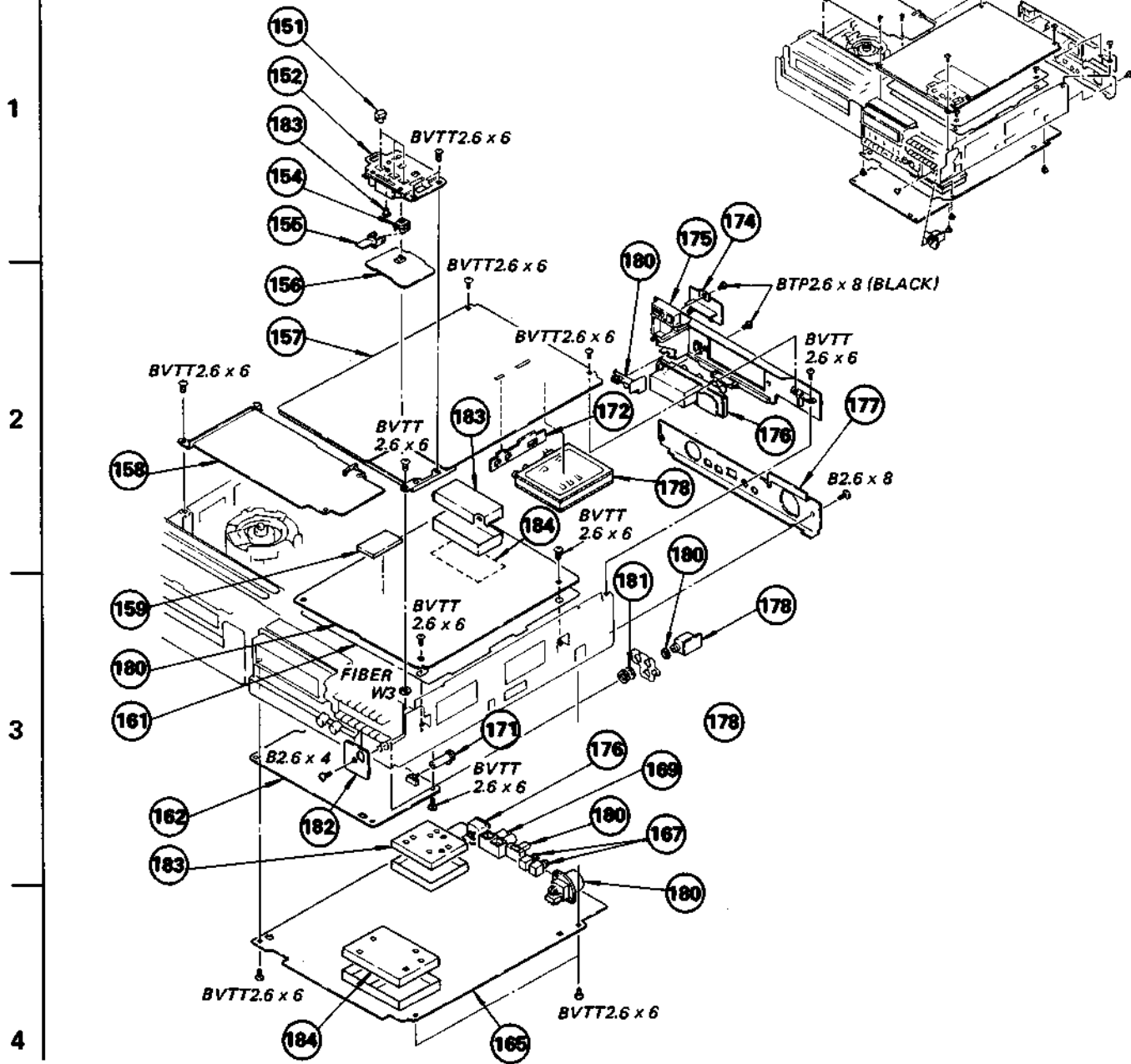
D

(3) POWER ASSEMBLY



No.	Part No	Description	Remark	No.	Part No	Description	Remark
101	▲ 1-551-964-00	CORD, POWER		115	▲ 4-316-137-00	COVER, CAPACITOR	
102	▲ 2-231-019-00	GROMMET, STRAIN RELIEF		116	▲ 3-701-748-00	CLAMP, HARNESS	
103	▲ 1-561-347-00	SOCKET, AC		117	▲ 9-982-208-00	PLATE, INSULATING	
104	▲ 9-982-200-00	HEAT SINK, FIN		118	▲ 4-316-015-00	CLAMP, HARNESS	
105	2-291-522-00	WASHER INSULATING		119	▲ 9-982-197-00	CASE, UPPER	
106	▲ 9-982-213-00	BRACKET, UP		120	▲ 9-982-198-00	CASE, LOWER	
107	9-982-204-00	SHEET, INSULATING		121	▲ 1-413-081-11	POWER BLOCK (SR-11A)	101,102,103,104,105 106,107,108,109,110 111,112,113,114,115 116,117,118,119,120 122,123
108	▲ 9-982-202-00	HEAT SINK, SP		122	▲ 1-447-197-00	TRANSFORMER, POWER	
109	9-982-203-00	SHEET, INSULATING		123	▲ 9-982-265-00	PANEL, CASE	
110	▲ 9-982-021-00	RETAINER, SP					
111	2-291-517-00	SHEET INSULATING, UP TO, 3					
112	▲ 2-291-515-00	HEAT SINK, UP					
113	▲ 2-291-519-00	RETAINER, UP					
114	▲ 2-291-547-00	COVER, CAPACITOR					

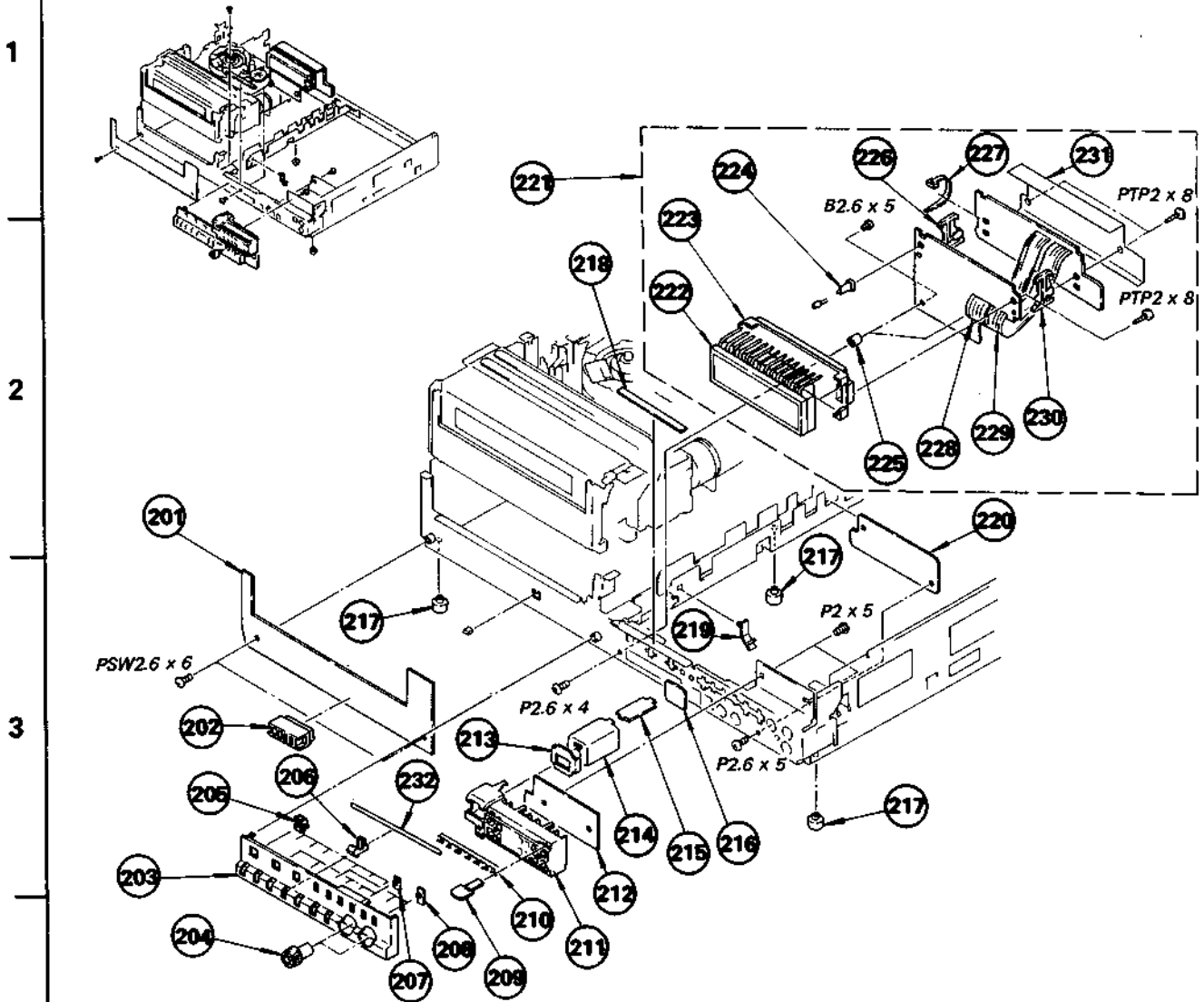
(4) MAIN BOARD ASSEMBLY



No.	Part No	Description	Remark
151	2-291-041-00	BUTTON (A), PRESET	
152	X-3670-025-0	PRESET ASSY	
153	3-669-528-00	CAP, BUTTON	151,153
154	3-670-148-00	KEY (P), SLIDE	
155	3-670-138-00	LEVER, RELEASE	
156	:1-605-581-00	CH-21 BOARD	
157	:A-6721-086-A	TU-21 BOARD, COMPLETE	
158	:A-6717-236-A	RR-1A BOARD, COMPLETE	
159	:1-606-231-00	MB-3 BOARD	
160	:A-6715-131-A	SS-10A BOARD, COMPLETE	
161	:3-670-123-00	INNER, INSULATOR	
162	:A-6711-323-A	VL-3 BOARD, COMPLETE	
163	:3-671-855-00	LID, CASE, SHIELD, VA-A	
164	:3-671-852-00	LID, CASE, SHIELD, VA-V	
165	:A-6711-314-A	VA-3Z BOARD, COMPLETE	
166	1-561-690-00	CONNECTOR, CAMERA 14P	
167	1-507-251-XX	JACK	
168	1-552-821-00	SWITCH, SLIDE	

No.	Part No	Description	Remark
169	1-507-742-00	JACK, PIN 2P	
170	1-561-703-00	CONNECTOR, DIN 8P	
171	3-670-149-00	KNOB, V SYNCHRONOUS	
172	:1-605-575-00	TU-22 BOARD	
173	1-463-377-00	TUNER (8T-864)	
174	2-291-019-00	LID, BOOSTER	
175	3-670-160-11	PANEL (UPPER), REAR	
176	1-536-672-41	TERMINAL BOARD (WITH ANT SW)	
177	3-671-808-03	PANEL (LOWER), REAR	
178	:1-606-272-00	MI-2 BOARD	
179	1-507-285-00	JACK	
180	3-670-164-00	SPACER, JACK	
181	3-701-444-11	WASHER, 6	
182	:3-670-171-00	PLATE (SMALL), ORNAMENTAL	
183	:X-3670-043-0	LID ASSY, SS-10 SHIELD CASE	
184	:X-3670-042-0	LID ASSY, REAR, SHIELD CASE	
185	:3-671-857-00	PLATE, GROUND	

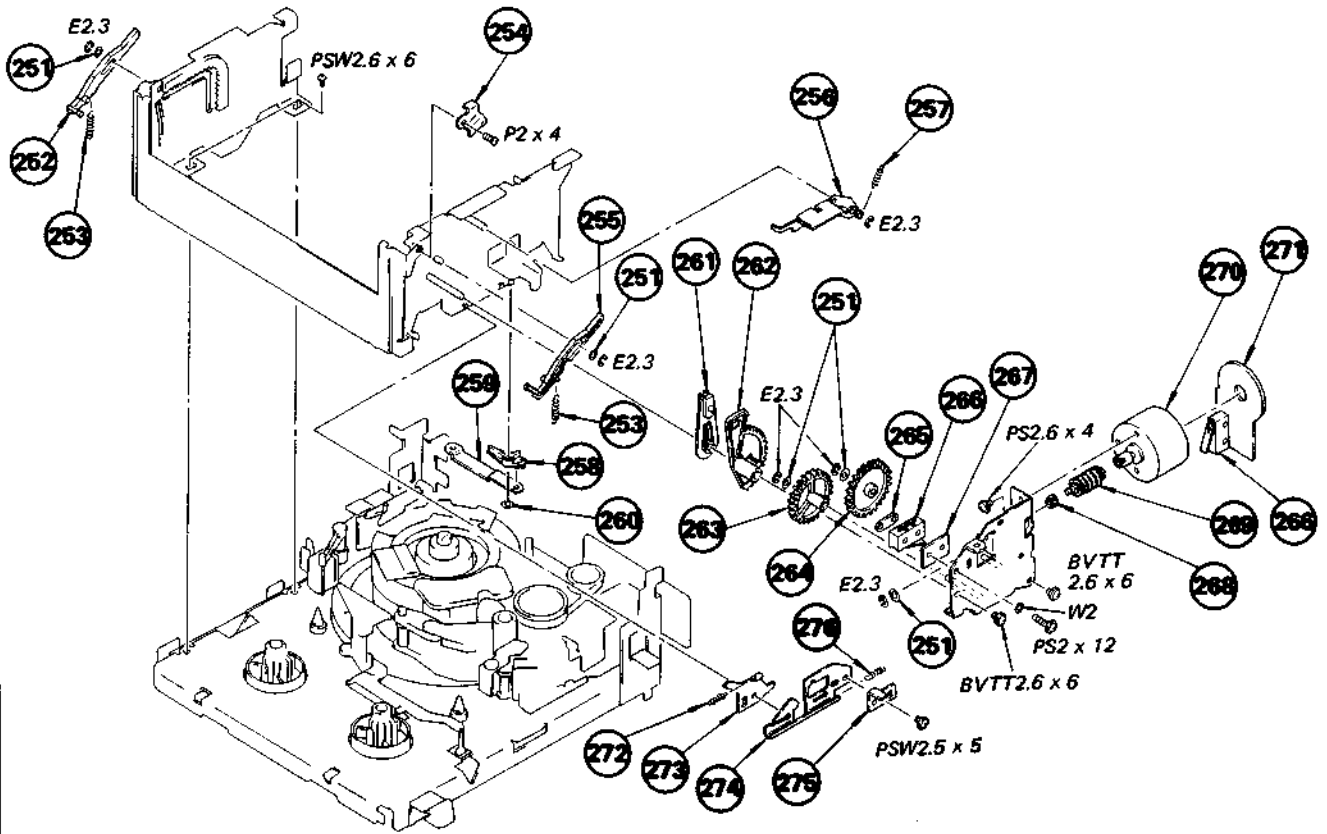
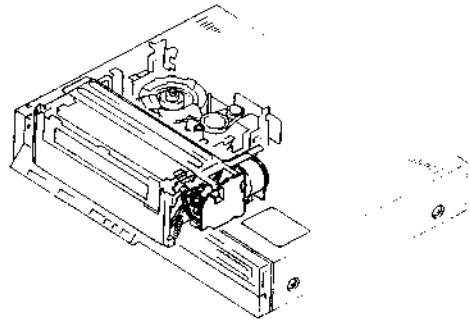
(5) FRONT BOARD ASSEMBLY



No.	Part No	Description	Remark	No.	Part No	Description	Remark
201	▲:A-6717-225-A	FU-3 BOARD, COMPLETE		218	▲:3-670-142-00	INSULATOR, TIMER	
202	▲:3-670-094-00	HOLDER, LED, 6 GANG		219	▲:3-701-832-00	HINGE, CIRCUIT BOARD	
203	X-3670-051-0	PANEL ASSY, SUB, FRONT		220	▲:1-605-410-00	SW-12 BOARD	
204	3-670-093-00	KNOB, TRACK CONTROL		221	1-548-552-12	TIMER BLOCK	222,223,224,225,226 227,228,229,230,231
205	3-670-091-00	KEY (B), TACT		222	▲:9-982-255-00	FLUORESCENT DISPLAY	
206	3-670-090-00	KEY (A), TACT		223	▲:9-982-256-00	HOLDER, INDICATION TUBE	
207	3-670-089-00	KEY (B), SLIDE		224	▲:9-982-259-00	HOLDER, LED	
208	3-670-088-00	KEY (A), SLIDE		225	▲:9-982-257-00	SPACER, PC BOARD	
209	2-291-024-00	BUTTON, TUNER		226	▲:9-982-245-00	HOLDER, PC BOARD	
210	▲:2-291-025-00	SPRING, LEAF		227	3-701-748-00	CLAMP, HARNESS	
211	3-670-159-00	FRAME, TUNER		228	▲:9-982-061-00	CABLE, RIBBON 9P	
212	▲:1-605-895-00	CH-22 BOARD		229	▲:9-982-260-00	CABLE, RIBBON 10P	
213	▲:3-671-831-00	COVER, RAY CATCHER BLOCK		230	▲:9-982-254-00	HOLDER, PC BOARD	
214	▲:4-342-117-00	CASE, SHIELD (MAIN), R		231	▲:9-982-253-00	CASE ASS'Y SHIELD	
215	▲:1-603-976-00	N BOARD		232	▲:3-671-865-00	CUSHION, BUTTON	
216	▲:4-342-118-00	LID, SHIELD CASE, R					
217	3-670-155-00	LEG					

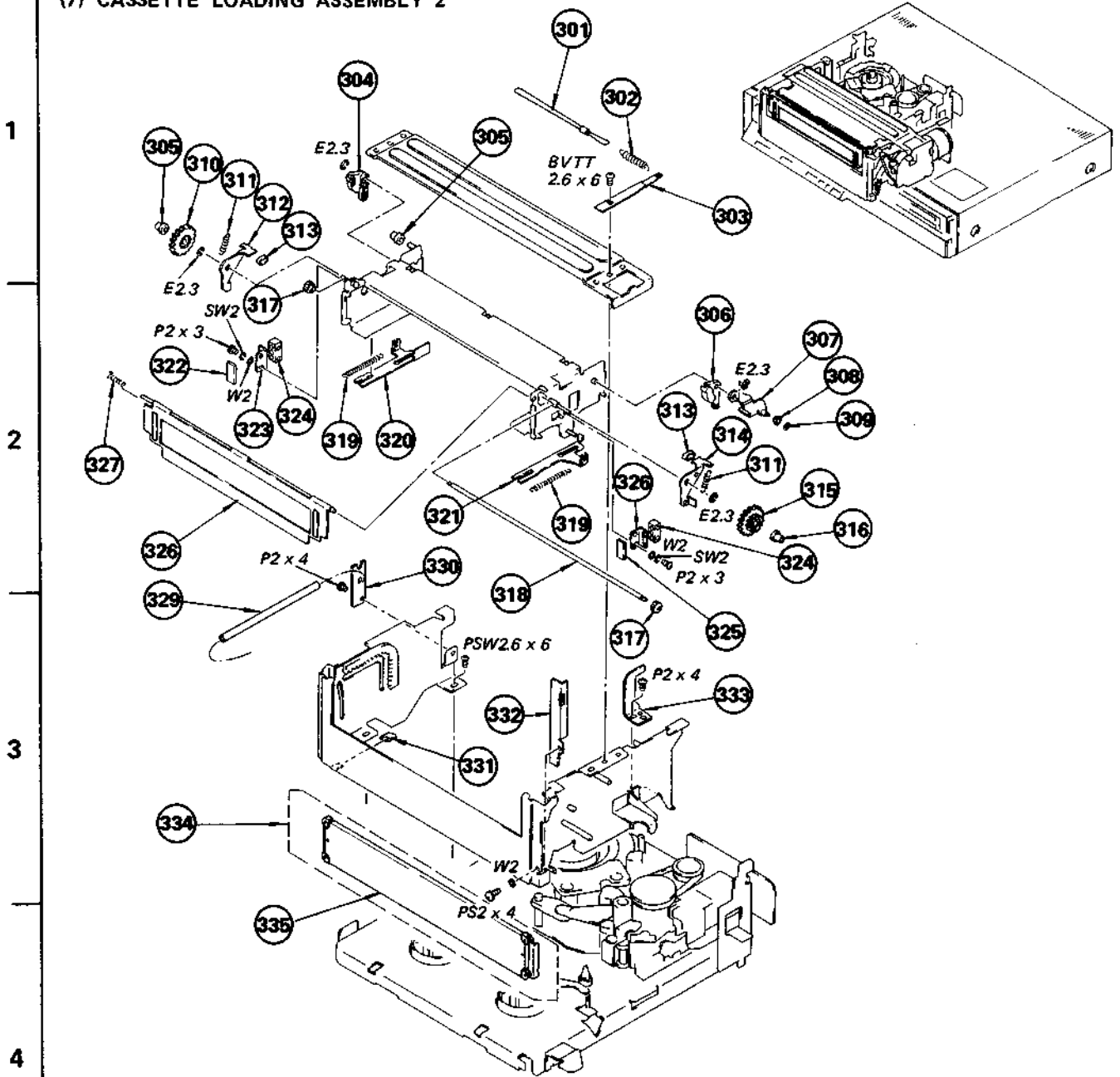
(6) CASSETTE LOADING ASSEMBLY 1

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No.	Part No	Description	Remark	No.	Part No	Description	Remark
251	3-701-439-21	WASHER		264	3-670-015-00	WHEEL, WORM	
252	3-670-056-00	ARM (L), DOOR		265	3-646-476-00	NUT, PLATE	
253	3-500-130-00	SPRING, TENSION		266	1-552-664-00	SWITCH, MICRO	
254	3-671-819-00	COVER, SECTOR GEAR		267	3-534-263-00	INSULATOR	
255	3-670-057-00	ARM (R), DOOR		268	3-670-168-00	BEARING, WORM	
256	3-670-152-00	ARM, LOCK, UP		269	X-3670-001-0	WORM ASSY	
257	3-536-767-XX	SPRING, TENSION		270	X-3670-002-0	MOTOR ASSY, FL	
258	3-670-001-00	LEVER, UNLOCK		271	A-6728-246-A	LM-9 BOARD, COMPLETE	
259	3-670-034-00	JOINT, UNLOCK		272	3-530-248-XX	SPRING, TENSION	
260	3-569-465-00	WASHER (1.5), STOPPER		273	3-670-010-00	STOPPER, LOCK	
261	3-670-136-00	ARM, HOLDER DRIVING		274	3-670-009-00	PLATE, LOCK	
262	3-670-151-00	GEAR, SECTOR		275	3-670-011-00	PLATE, ADJUSTMENT, CD	
263	3-670-016-00	GEAR (A)		276	3-630-615-XX	SPRING, TENSION	

(7) CASSETTE LOADING ASSEMBLY 2



No.	Part No	Description	Remark	No.	Part No	Description	Remark
301	3-671-863-00	STRING, PULL, WIRE		318	▲:3-670-053-00	SHAFT, JOINT	
302	3-535-021-00	SPRING, TENSION		319	3-489-310-XX	SPRING, TENSION	
303	3-671-864-00	PLATE, SPRING HOOK		320	▲:3-670-036-00	PLATE (L), SLIDE, C	
304	3-670-003-00	CAM (L), C-IN		321	▲:3-670-037-00	PLATE (R), SLIDE, C	
305	3-670-018-00	ROLLER, GUIDE		322	▲:1-605-111-00	CI-2 BOARD	
306	3-670-004-00	CAM (R), C-IN		323	▲:3-670-039-00	HOLDER (R), CSW	
307	▲:X-3670-005-0	ARM ASSY, OPEN LID		324	1-553-719-00	SWITCH, MICRO	
308	3-670-054-00	ROLLER, OPEN LID		325	▲:1-605-112-00	CI-3 BOARD	
309	3-669-465-00	WASHER (1.5), STOPPER		326	▲:3-670-038-00	HOLDER (L), CSW	
310	3-670-006-00	GEAR (E)		327	3-670-058-00	SPRING, LEAF	
311	3-670-169-00	SPRING, TENSION		328	3-670-150-21	PLATE, BLIND	
312	▲:3-670-031-00	RETAINER (L), CASSETTE		329	▲:3-670-170-00	TUBE, RUBBER	
313	▲:3-646-334-00	CUSHION		330	▲:A-672B-247-A	RL-4 BOARD, COMPLETE	
314	▲:3-670-041-00	RETAINER (R), CASSETTE		331	3-573-469-00	RETAINER, LEAD, SD	
315	3-670-005-00	GEAR (B)		332	▲:3-670-032-00	RAIL (R)	
316	3-671-878-00	ROLLER (B), GUIDE		333	▲:3-670-012-00	OPEN LID	
	3-671-892-00	ROLLER (M), GUIDE		334	X-3670-044-0	DOOR ASSY, CASSETTE	335
317	3-670-007-00	GEAR (C)		335	3-670-110-11	PLATE, ORNAMENTAL, CASSETTE DOOR	

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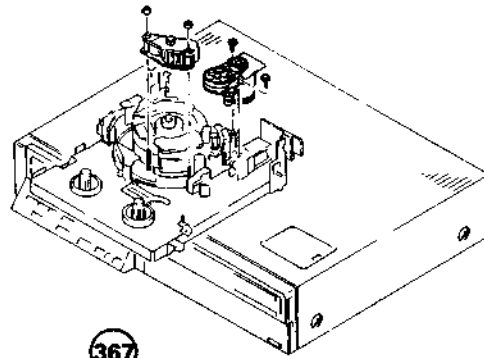
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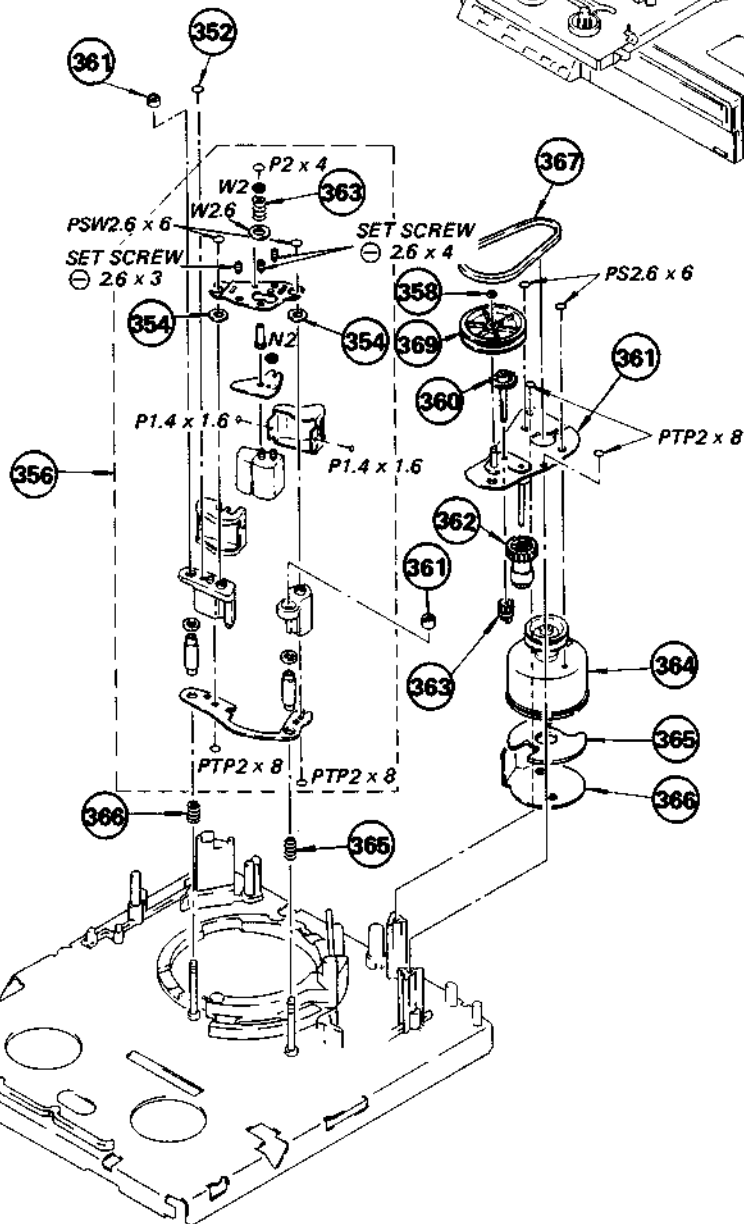
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(S) CHASSIS ASSEMBLY 1

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No.	Part No	Description	Remark	No.	Part No	Description	Remark
351	3-669-318-00	NUT, ADJUSTMENT, GUIDE		359	3-669-328-00	PULLEY, GEAR	
352	3-669-480-11	+ PTPWH 2		360	3-669-332-00	GEAR (BA)	
353	• 3-669-316-00	SPRING, COMPRESSION		361	X-3669-324-0	CHASSIS ASSY, MOTOR, L	
354	3-669-59B-00	WASHER, CTL		362	X-3669-321-0	GEAR (C) ASSY	
355	3-669-317-00	SPRING, COMPRESSION		363	3-669-333-00	GEAR (BC)	
356	A-6761-043-A	ACE ASSY (M-2)		364	• A-6737-090-A	ASSY, L MOTOR	
357	3-669-327-00	BELT, RUBBER		365	• A-6728-243-A	LM-B BOARD, COMPLETE	
358	3-669-465-00	WASHER (1.5), STOPPER		366	• 3-669-613-00	INSULATOR, L MOTOR	

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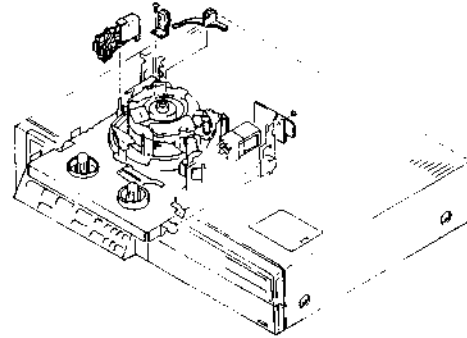
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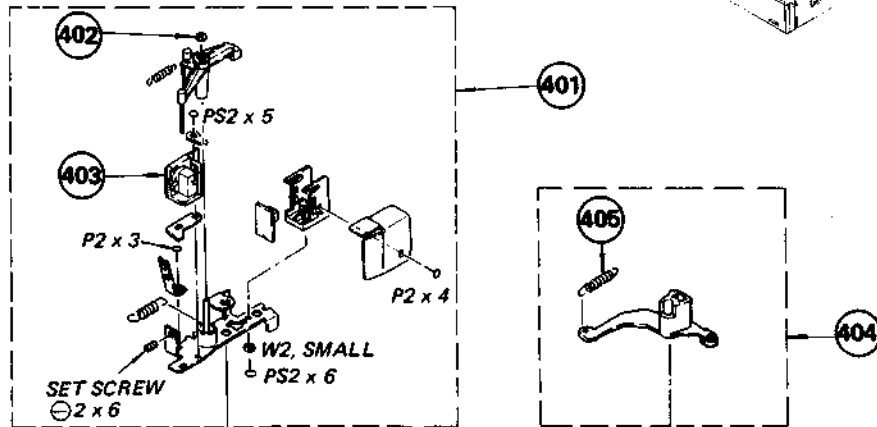
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(0) CHASSIS ASSEMBLY 2

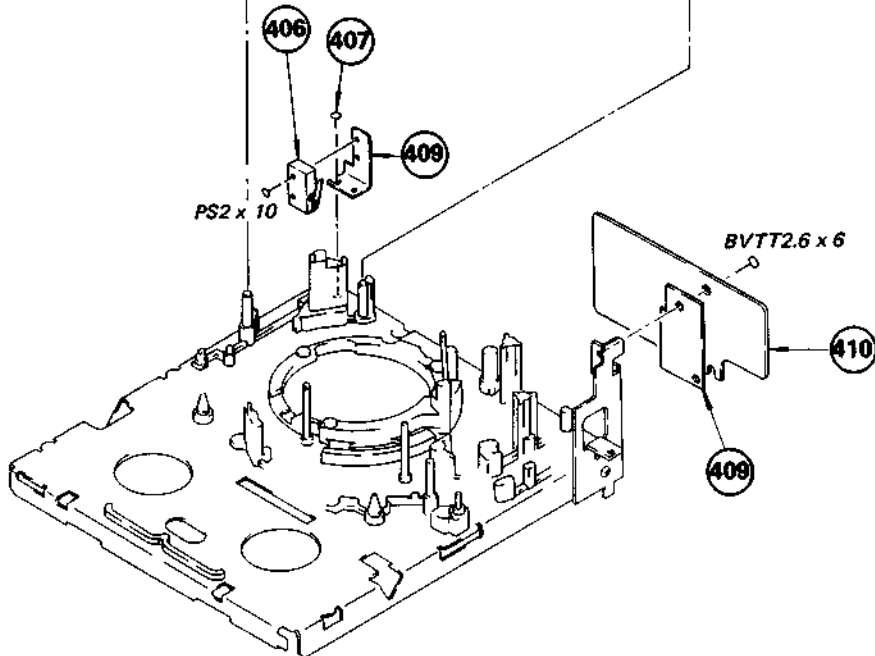
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No.	Part No	Description	Remark	No.	Part No	Description	Remark
401	A-6742-037-A	TP ASSY		406	1-552-664-00	SWITCH, MICRO	
402	3-669-465-00	WASHER (1.5), STOPPER		407	3-669-607-00	+PSM (SMALL ROUND) 2.6	
403	1-235-054-21	COIL, SENSOR, S		408	3-669-354-00	BRACKET, SWITCH, LE	
404	X-3669-351-0	ARM ASSY, LOCK	405	409	3-670-167-00	INSULATOR	
405	3-140-194-XX	SPRING, TENSION		410	1-606-001-00	RL-7 BOARD	

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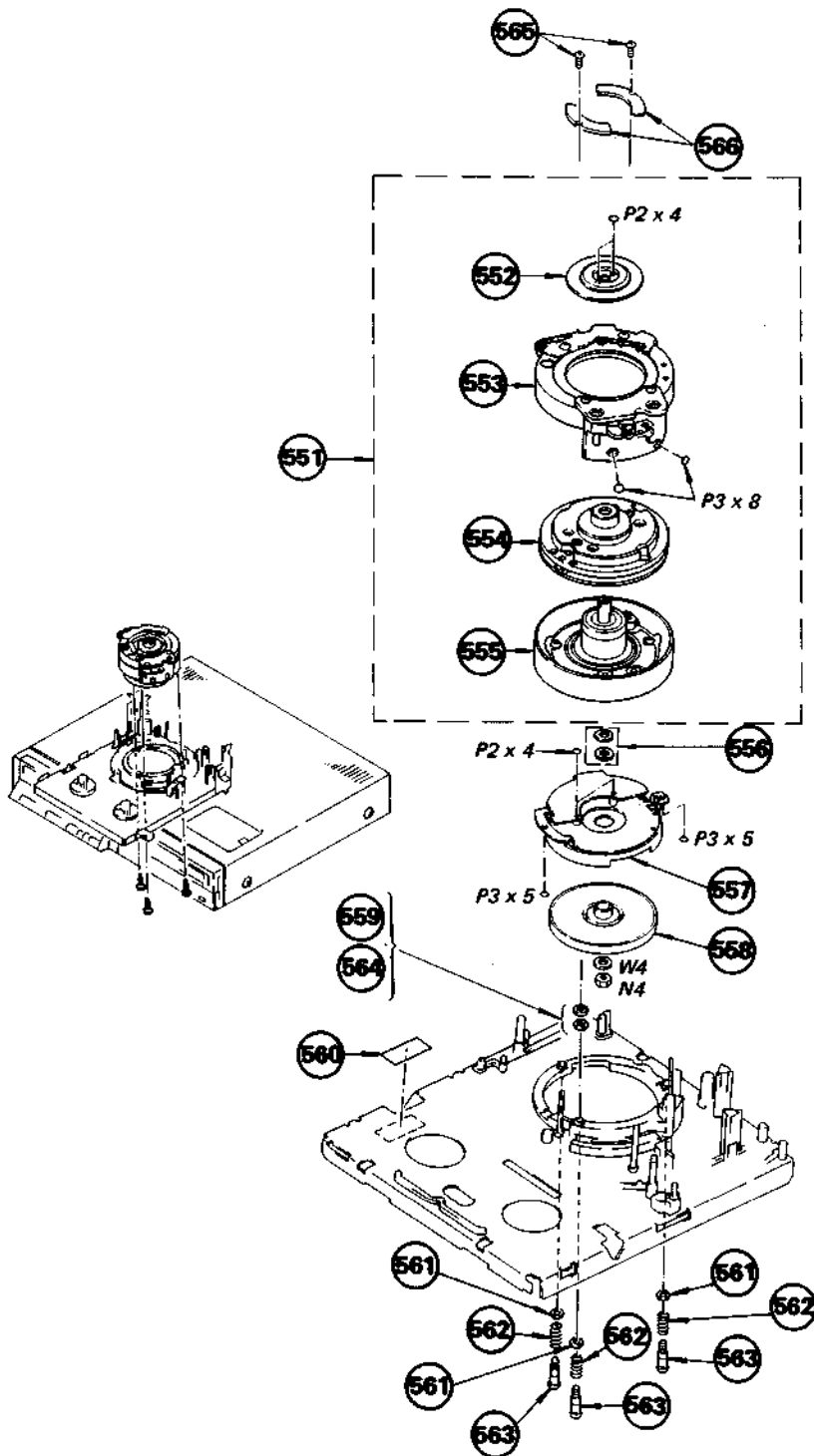
(12) DRUM ASSEMBLY

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No.	Part No	Description
551	A-6050-116-A	DRUM ASS'Y DSH-16A-R
552	X-3669-106-0	DAMPER ASS'Y
553	A-6760-064-A	DRUM ASS'Y, UPPER
554	A-6762-061-A	DISK ASS'Y
555	A-6762-060-B	FLANGE ASS'Y LOWER DRUM
556	X-3669-105-0	SPACER BLOCK ASS'Y
557	X-2621-204-2	STATOR ASS'Y, DRUM
558	X-2621-202-0	ROTAR ASS'Y, DRUM

Remark	No.	Part No	Description	Remark
	559	▲ 3-669-646-00	SPACER, DRUM	
	560	3-701-703-00	KDOA ID MARK	
	561	3-669-600-11	WASHER, FLAT (3.5)	
	562	3-429-123-00	SPRING	
	563	3-669-302-00	SCREW, FITTING	
	564	▲ 3-669-646-11	SPACER, DRUM	
	565	3-669-696-00	SCREW, WEIGHT (M2.6X6)	
	566	▲ 3-669-684-00	WEIGHT	

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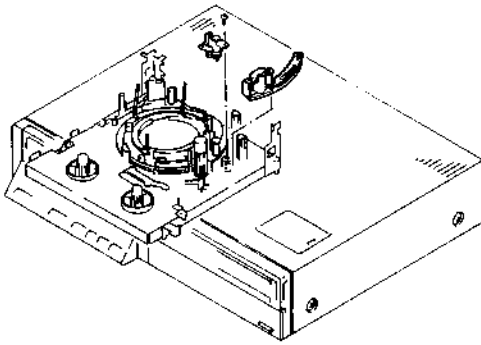
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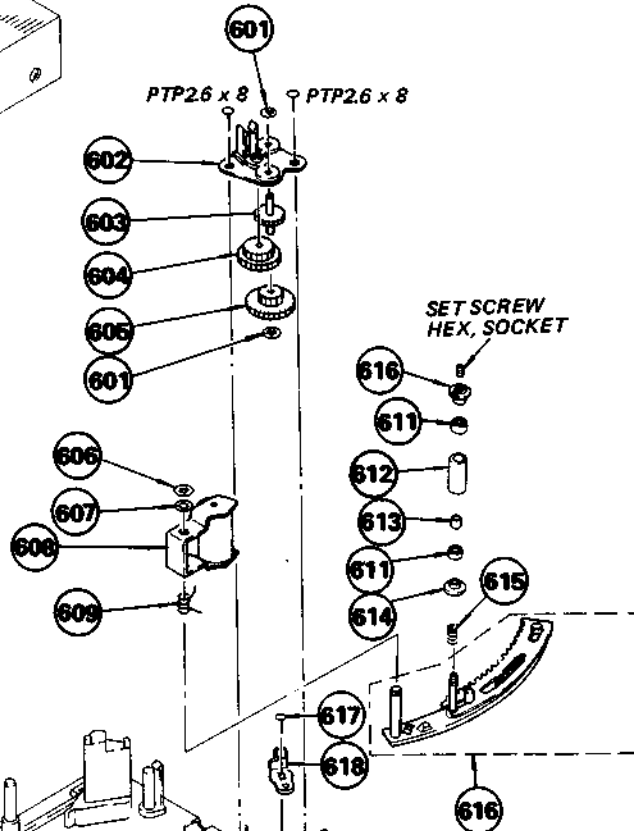
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(13) CHASSIS ASSEMBLY 5

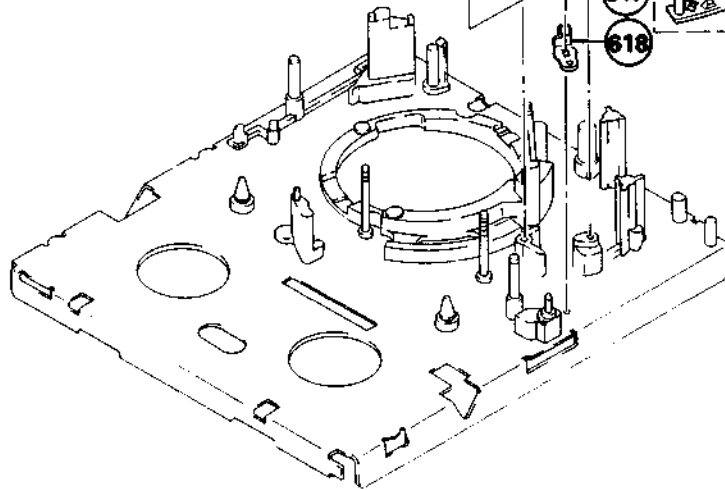
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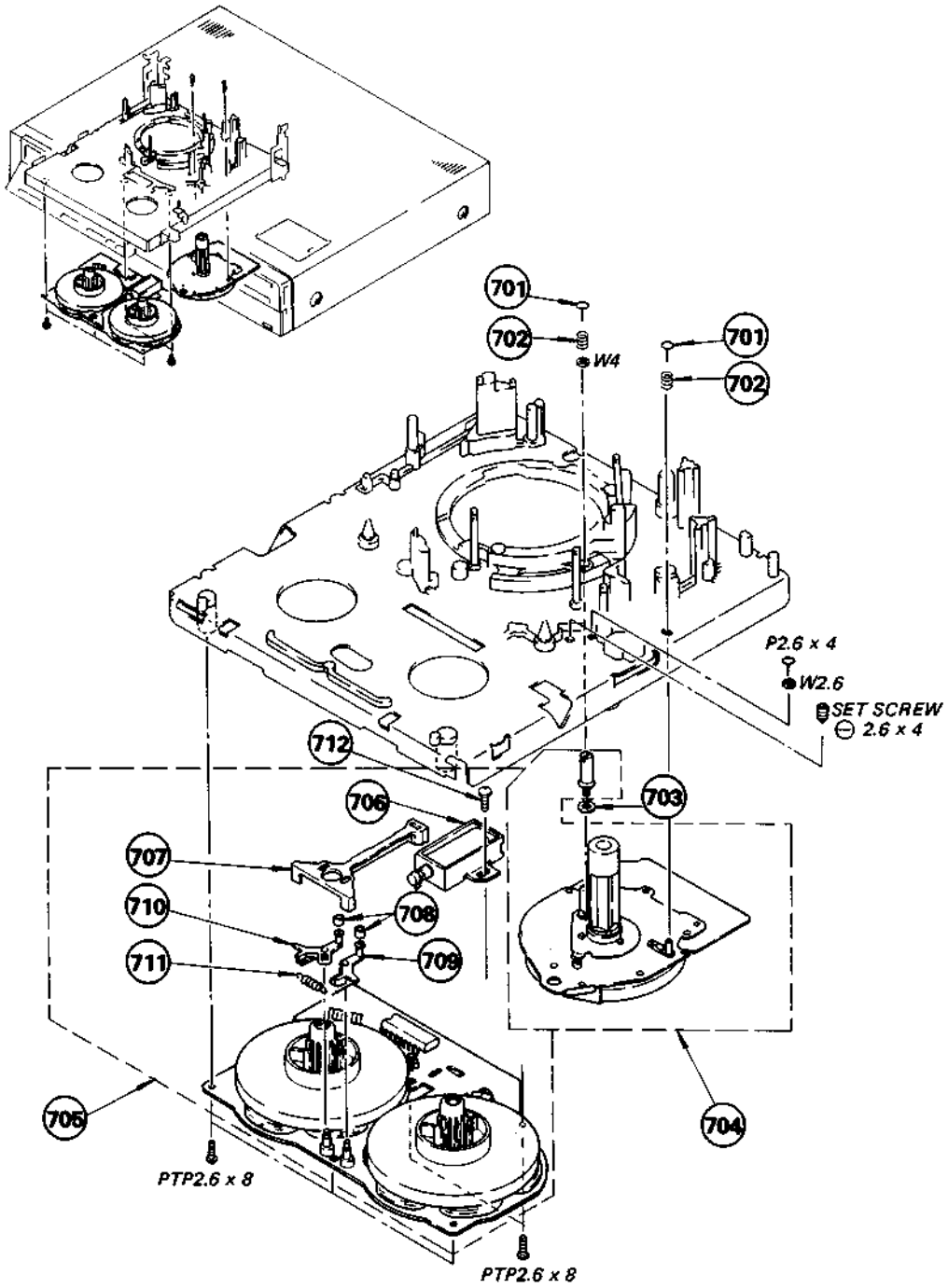


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No.	Part No	Description	Remark	No.	Part No	Description	Remark
601	3-669-465-00	WASHER (1.5), STOPPER		610	3-669-431-00	FLANGE (UPPER), GUIDE	
602	X-3669-326-0	CHASSIS ASSY, GEAR, DRIVE		611	3-669-443-00	BEARING, BALL (NO FLANGE)	
603	X-3669-305-0	GEAR (F) ASSY		612	3-669-438-00	ROLLER, GUIDE	
604	3-669-338-00	GEAR (E)		613	3-657-B41-31	SPACER (DIA. 2)	
605	3-669-337-00	GEAR (D)		614	3-669-432-00	FLANGE (LOWER), GUIDE	
606	3-669-596-00	WASHER (2.3), STOPPER		615	3-669-452-00	SPRING, COMPRESSION	
607	3-701-439-01	WASHER		616	♣:X-3669-350-0	GEAR ASSY, SLIDER	
608	X-3669-307-0	ARM ASSY, PINCH ROLLER		617	3-669-607-11	+PSW (SMALL ROUND) (2.6)	
609	3-669-444-00	SPRING, TORSION		618	♣:3-669-350-00	STOPPER, SLIDER	

(15) CHASSIS ASSEMBLY 7

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No.	Part No	Description	Remark	No.	Part No	Description	Remark
701	3-669-633-00	SCREW, + PW2		707	3-669-530-00	ARM, BRAKE	
702	3-669-602-00	SPRING, COMPRESSION		708	3-669-305-00	BUSHING	
703	3-669-697-00	SPACER, CAPSTAN		709	3-669-303-00	BRAKE, T	
704	8-838-022-11	MOTOR, DC (BHF-1900B)		710	3-669-304-00	BRAKE, S	
705	1-A-6737-093-A	BLOCK ASSY, L MOTOR		711	3-491-360-00	SPRING, TENSION	
706	1-454-281-00	SOLENOID, PLUNGER		712	3-669-663-00	+PSW 2.6	

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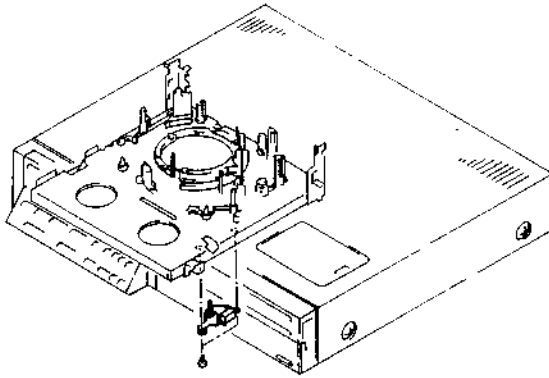
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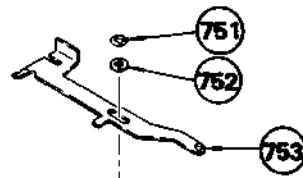
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(16) CHASSIS ASSEMBLY 6

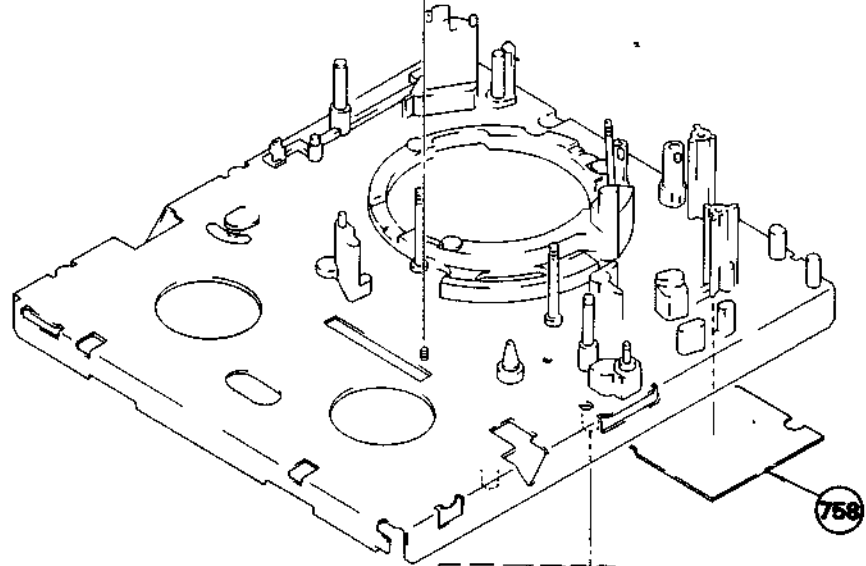
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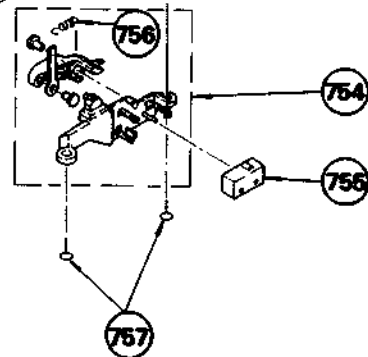
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No.	Part No	Description
751	3-669-595-00	WASHER (2), STOPPER
752	3-701-438-21	WASHER
753	•X-3670-021-0	PLATE ASSY, UNLOCK
754	•X-3669-323-0	MR ASSY

Remark	No.	Part No	Description	Remark
	755	1-553-717-00	SWITCH, MICRO	
	756	♠3-669-411-00	SPRING, TENSION	
	757	3-669-480-11	+ PTPMH 2	
	758	♠3-669-599-00	INSULATOR	

SECTION 6
ELECTRICAL PARTS LIST

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
▲:A-6711-293-A		VA-3 BOARD, COMPLETE *****		C045	1-102-074-00	CERAMIC	0.001MF 10% 50V
▲:3-670-153-00		HOLDER, PCB		C046	1-102-947-00	CERAMIC	10PF 5% 50V
3-670-164-00		SPACER, JACK		C047	1-123-330-00	ELECT	22MF 20% 16V
▲:3-671-851-00		CASE (MAIN), SHIELD, VA-V		C048	1-102-947-00	CERAMIC	10PF 5% 50V
▲:3-671-853-00		LID, REAR, CASE, SHIELD, VA-V		C049	1-102-947-00	CERAMIC	10PF 5% 50V
▲:3-671-854-00		CASE (MAIN), SHIELD, VA-A		C050	1-123-330-00	ELECT	22MF 20% 16V
▲:3-671-856-00		LID, REAR, CASE, SHIELD, VA-A		C051	1-123-340-00	ELECT	4.7MF 20% 35V
3-671-893-00		CLAMP (LOW TYPE)		C052	1-123-330-00	ELECT	22MF 20% 16V
3-701-444-11		WASHER, 6		C053	1-123-330-00	ELECT	22MF 20% 16V
				C054	1-123-330-00	ELECT	22MF 20% 16V
				C055	1-102-962-00	CERAMIC	30PF 5% 50V
				C056	1-101-888-00	CERAMIC	68PF 5% 50V
				C057	1-102-936-00	CERAMIC	3PF 0.25PF 50V
				C058	1-161-013-00	CERAMIC	0.01MF 10% 25V
				C059	1-123-381-00	ELECT	2.2MF 20% 50V
				C060	1-123-356-00	ELECT	10MF 20% 16V
				C061	1-123-305-00	ELECT	33MF 20% 10V
				C062	1-123-356-00	ELECT	10MF 20% 16V
				C063	1-123-305-00	ELECT	33MF 20% 10V
				C064	1-123-356-00	ELECT	10MF 20% 16V
				C065	1-123-305-00	ELECT	33MF 20% 10V
				C066	1-101-888-00	CERAMIC	68PF 5% 50V
				C067	1-102-964-00	CERAMIC	36PF 5% 50V
				C068	1-102-953-00	CERAMIC	18PF 5% 50V
				C069	1-161-013-00	CERAMIC	0.01MF 10% 25V
				C070	1-102-963-00	CERAMIC	33PF 5% 50V
				C071	1-102-816-00	CERAMIC	120PF 5% 50V
				C072	1-101-884-00	CERAMIC	56PF 5% 50V
				C073	1-102-973-00	CERAMIC	100PF 5% 50V
				C074	1-123-356-00	ELECT	10MF 20% 16V
				C075	1-123-356-00	ELECT	10MF 20% 16V
				C076	1-101-888-00	CERAMIC	68PF 5% 50V
				C078	1-161-013-00	CERAMIC	0.01MF 10% 25V
				C079	1-161-013-00	CERAMIC	0.01MF 10% 25V
				C080	1-161-013-00	CERAMIC	0.01MF 10% 25V
				C081	1-123-330-00	ELECT	22MF 20% 16V
				C082	1-101-059-00	CERAMIC	510PF 5% 50V
				C083	1-123-356-00	ELECT	10MF 20% 16V
				C084	1-123-356-00	ELECT	10MF 20% 16V
				C086	1-102-074-00	CERAMIC	0.001MF 10% 50V
				C089	1-123-333-00	ELECT	100MF 20% 16V
				C090	1-123-356-00	ELECT	10MF 20% 16V
				C091	1-123-307-00	ELECT	100MF 20% 10V
				C092	1-123-330-00	ELECT	22MF 20% 16V
				C093	1-123-607-00	ELECT	0.1MF 20% 50V
				C094	1-123-332-00	ELECT	47MF 20% 16V
				C095	1-123-610-00	ELECT	0.47MF 20% 50V
				C096	1-161-021-00	CERAMIC	0.047MF 10% 25V
				C097	1-123-318-00	ELECT	33MF 20% 16V
				C098	1-130-495-00	MYLAR	0.1MF 5% 50V
				C099	1-123-356-00	ELECT	10MF 20% 16V
				C100	1-123-380-00	ELECT	1MF 20% 50V
				C101	1-102-977-00	CERAMIC	200PF 5% 50V

CAPACITOR

C001	1-123-838-00	ELECT	1000MF	20%	6.3V
C002	1-123-838-00	ELECT	1000MF	20%	6.3V
C003	1-161-013-00	CERAMIC	0.01MF	10%	25V
C004	1-102-950-00	CERAMIC	13PF	5%	50V
C008	1-102-971-00	CERAMIC	82PF	5%	50V
C009	1-123-381-00	ELECT	2.2MF	20%	50V
C010	1-102-972-00	CERAMIC	91PF	5%	50V
C011	1-123-381-00	ELECT	2.2MF	20%	50V
C012	1-101-884-00	CERAMIC	56PF	5%	50V
C013	1-123-381-00	ELECT	2.2MF	20%	50V
C014	1-161-013-00	CERAMIC	0.01MF	10%	25V
C015	1-161-013-00	CERAMIC	0.01MF	10%	25V
C016	1-161-013-00	CERAMIC	0.01MF	10%	25V
C017	1-123-381-00	ELECT	2.2MF	20%	50V
C018	1-123-356-00	ELECT	10MF	20%	16V
C019	1-161-013-00	CERAMIC	0.01MF	10%	25V
C020	1-161-021-00	CERAMIC	0.047MF	10%	25V
C021	1-123-318-00	ELECT	33MF	20%	16V
C022	1-102-963-00	CERAMIC	33PF	5%	50V
C023	1-101-880-00	CERAMIC	47PF	5%	50V
C025	1-101-361-00	CERAMIC	150PF	5%	50V
C026	1-123-356-00	ELECT	10MF	20%	16V
C027	1-101-884-00	CERAMIC	56PF	5%	50V
C028	1-102-971-00	CERAMIC	82PF	5%	50V
C029	1-102-966-00	CERAMIC	43PF	5%	50V
C030	1-102-947-00	CERAMIC	10PF	5%	50V
C031	1-161-021-00	CERAMIC	0.047MF	10%	25V
C032	1-102-820-00	CERAMIC	330PF	5%	50V
C033	1-102-118-00	CERAMIC	0.0012MF	10%	50V
C034	1-161-021-00	CERAMIC	0.047MF	10%	25V
C035	1-102-947-00	CERAMIC	10PF	5%	50V
C036	1-123-330-00	ELECT	22MF	20%	16V
C037	1-123-356-00	ELECT	10MF	20%	16V
C038	1-161-013-00	CERAMIC	0.01MF	10%	25V
C039	1-123-380-00	ELECT	1MF	20%	50V
C040	1-123-380-00	ELECT	1MF	20%	50V
C041	1-102-965-00	CERAMIC	39PF	5%	50V
C042	1-123-340-00	ELECT	4.7MF	20%	35V
C043	1-102-074-00	CERAMIC	0.001MF	10%	50V
C044	1-123-305-00	ELECT	33MF	20%	10V

NOTE:

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- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- CAPACITORS: MF : μF, PF : μμF
- RESISTORS: All resistors are in ohms; F : nonflammable
- COILS: MHM : mH, UH : μH

VA-3 BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark				
C102	1-102-820-00	CERAMIC	330PF	5%	50V	C161	1-123-356-00	ELECT	10MF	20%	16V
C103	1-123-356-00	ELECT	10MF	20%	16V	C162	1-123-356-00	ELECT	10MF	20%	16V
C104	1-108-591-00	MYLAR	0.033MF	5%	50V	C163	1-161-013-00	CERAMIC	0.01MF	10%	25V
C105	1-101-059-00	CERAMIC	510PF	5%	50V	C164	1-123-356-00	ELECT	10MF	20%	16V
C106	1-161-021-00	CERAMIC	0.047MF	10%	25V	C165	1-123-305-00	ELECT	33MF	20%	10V
C107	1-108-555-00	MYLAR	0.001MF	5%	50V	C166	1-130-495-00	MYLAR	0.1MF	5%	50V
C108	1-102-820-00	CERAMIC	330PF	5%	50V	C167	1-123-381-00	ELECT	2.2MF	20%	50V
C109	1-108-555-00	MYLAR	0.001MF	5%	50V	C168	1-123-382-00	ELECT	3.3MF	20%	50V
C110	1-123-356-00	ELECT	10MF	20%	16V	C169	1-123-382-00	ELECT	3.3MF	20%	50V
C111	1-161-021-00	CERAMIC	0.047MF	10%	25V	C170	1-123-330-00	ELECT	22MF	20%	16V
C112	1-123-306-00	ELECT	47MF	20%	10V	C171	1-102-948-00	CERAMIC	11PF	5%	50V
C113	1-123-305-00	ELECT	33MF	20%	10V	C172	1-123-356-00	ELECT	10MF	20%	16V
C114	1-101-888-00	CERAMIC	68PF	5%	50V	C174	1-102-074-00	CERAMIC	0.001MF	10%	50V
C115	1-102-963-00	CERAMIC	33PF	5%	50V	C176	1-102-947-00	CERAMIC	10PF	5%	50V
C116	1-101-059-00	CERAMIC	510PF	5%	50V	C178	1-108-583-00	MYLAR	0.015MF	5%	50V
C120	1-102-116-00	CERAMIC	680PF	10%	50V	C179	1-102-074-00	CERAMIC	0.001MF	10%	50V
C121	1-102-116-00	CERAMIC	680PF	10%	50V	C180	1-102-074-00	CERAMIC	0.001MF	10%	50V
C122	1-123-380-00	ELECT	1MF	20%	50V	C181	1-102-074-00	CERAMIC	0.001MF	10%	50V
C123	1-123-379-00	ELECT	0.47MF	20%	50V	C182	1-102-074-00	CERAMIC	0.001MF	10%	50V
C124	1-123-380-00	ELECT	1MF	20%	50V	C183	1-161-021-00	CERAMIC	0.047MF	10%	25V
C125	1-123-356-00	ELECT	10MF	20%	16V	C184	1-161-013-00	CERAMIC	0.01MF	10%	25V
C126	1-123-356-00	ELECT	10MF	20%	16V	C185	1-161-013-00	CERAMIC	0.01MF	10%	25V
C127	1-102-951-00	CERAMIC	15PF	5%	50V	C186	1-102-951-00	CERAMIC	15PF	5%	50V
C128	1-161-013-00	CERAMIC	0.01MF	10%	25V	C187	1-102-959-00	CERAMIC	22PF	5%	50V
C129	1-101-888-00	CERAMIC	68PF	5%	50V	C188	1-123-382-00	ELECT	3.3MF	20%	50V
C130	1-101-888-00	CERAMIC	68PF	5%	50V	C189	1-123-039-00	ELECT	22MF	20%	16V
C131	1-161-013-00	CERAMIC	0.01MF	10%	25V	C190	1-161-013-00	CERAMIC	0.01MF	10%	25V
C132	1-102-978-00	CERAMIC	220PF	5%	50V	C191	1-161-039-00	CERAMIC	0.001MF	10%	25V
C133	1-123-379-00	ELECT	0.47MF	20%	50V	C192	1-161-013-00	CERAMIC	0.01MF	10%	25V
C134	1-161-013-00	CERAMIC	0.01MF	10%	25V	C193	1-161-013-00	CERAMIC	0.01MF	10%	25V
C135	1-123-356-00	ELECT	10MF	20%	16V	C194	1-161-021-00	CERAMIC	0.047MF	10%	25V
C136	1-123-382-00	ELECT	3.3MF	20%	50V	C195	1-123-380-00	ELECT	1MF	20%	50V
C137	1-102-074-00	CERAMIC	0.001MF	10%	50V	C196	1-102-962-00	CERAMIC	30PF	5%	50V
C138	1-161-013-00	CERAMIC	0.01MF	10%	25V	C197	1-161-013-00	CERAMIC	0.01MF	10%	25V
C139	1-161-013-00	CERAMIC	0.01MF	10%	25V	C198	1-123-380-00	ELECT	1MF	20%	50V
C140	1-161-013-00	CERAMIC	0.01MF	10%	25V	C199	1-102-973-00	CERAMIC	100PF	5%	50V
C141	1-102-074-00	CERAMIC	0.001MF	10%	50V	C200	1-161-021-00	CERAMIC	0.047MF	10%	25V
C142	1-161-013-00	CERAMIC	0.01MF	10%	25V	C201	1-102-973-00	CERAMIC	100PF	5%	50V
C143	1-123-356-00	ELECT	10MF	20%	16V	C203	1-101-361-00	CERAMIC	150PF	5%	50V
C144	1-102-816-00	CERAMIC	120PF	5%	50V	C204	1-161-013-00	CERAMIC	0.01MF	10%	25V
C145	1-161-013-00	CERAMIC	0.01MF	10%	25V	C206	1-123-380-00	ELECT	1MF	20%	50V
C146	1-123-380-00	ELECT	1MF	20%	50V	C207	1-123-380-00	ELECT	1MF	20%	50V
C149	1-161-013-00	CERAMIC	0.01MF	10%	25V	C208	1-161-021-00	CERAMIC	0.047MF	10%	25V
C150	1-123-340-00	ELECT	4.7MF	20%	35V	C209	1-161-021-00	CERAMIC	0.047MF	10%	25V
C151	1-131-345-00	ELECT(SOLID)	0.47MF	10%	25V	C210	1-102-958-00	CERAMIC	20PF	5%	50V
C152	1-161-013-00	CERAMIC	0.01MF	10%	25V	C211	1-161-013-00	CERAMIC	0.01MF	10%	25V
C153	1-161-013-00	CERAMIC	0.01MF	10%	25V	C212	1-161-013-00	CERAMIC	0.01MF	10%	25V
C155	1-161-013-00	CERAMIC	0.01MF	10%	25V	C215	1-161-013-00	CERAMIC	0.01MF	10%	25V
C156	1-161-013-00	CERAMIC	0.01MF	10%	25V	C216	1-102-973-00	CERAMIC	100PF	5%	50V
C157	1-123-039-00	ELECT	22MF	20%	16V	C217	1-161-021-00	CERAMIC	0.047MF	10%	25V
C158	1-131-347-00	ELECT(SOLID)	1MF	20%	16V	C218	1-123-381-00	ELECT	2.2MF	20%	50V
C159	1-123-356-00	ELECT	10MF	20%	16V	C220	1-101-888-00	CERAMIC	68PF	5%	50V
C160	1-123-356-00	ELECT	10MF	20%	16V	C222	1-161-021-00	CERAMIC	0.047MF	10%	25V

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CAPACITORS

* MF : μ F, PF : μ μ F

RESISTORS

* All resistors are in ohms
* F : nonflammable

COILS

* MMH : mH, UH : μ H

VA-3 BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark				
C223	1-161-063-00	CERAMIC	0.1MF	20%	25V	C522	1-123-381-00	ELECT	2.2MF	20%	50V
C224	1-102-958-00	CERAMIC	20PF	5%	50V	C523	1-123-381-00	ELECT	2.2MF	20%	50V
C226	1-161-021-00	CERAMIC	0.047MF	10%	25V	C524	1-123-306-00	ELECT	47MF	20%	10V
C228	1-161-021-00	CERAMIC	0.047MF	10%	25V	C525	1-123-356-00	ELECT	10MF	20%	16V
C230	1-123-330-00	ELECT	22MF	20%	16V	C526	1-108-555-00	MYLAR	0.001MF	5%	50V
C232	1-161-013-00	CERAMIC	0.01MF	10%	25V	C527	1-102-824-00	CERAMIC	430PF	5%	50V
C301	1-102-516-00	CERAMIC	27PF	5%	50V	C528	1-123-356-00	ELECT	10MF	20%	16V
C302	1-161-021-00	CERAMIC	0.047MF	10%	25V	C529	1-123-356-00	ELECT	10MF	20%	16V
C303	1-161-021-00	CERAMIC	0.047MF	10%	25V	C530	1-123-307-00	ELECT	100MF	20%	10V
C304	1-102-074-00	CERAMIC	0.001MF	10%	50V	C531	1-123-328-00	ELECT	4.7MF	20%	25V
C305	1-102-074-00	CERAMIC	0.001MF	10%	50V	C532	1-123-328-00	ELECT	4.7MF	20%	25V
C306	1-161-005-00	CERAMIC	0.0022MF	10%	25V	C534	1-123-380-00	ELECT	1MF	20%	50V
C307	1-161-021-00	CERAMIC	0.047MF	10%	25V	C537	1-123-356-00	ELECT	10MF	20%	16V
C308	1-161-013-00	CERAMIC	0.01MF	10%	25V	C541	1-108-583-00	MYLAR	0.015MF	5%	50V
C310	1-102-959-00	CERAMIC	22PF	5%	50V	C542	1-108-579-00	MYLAR	0.01MF	5%	50V
C311	1-161-013-00	CERAMIC	0.01MF	10%	25V	C543	1-108-599-00	MYLAR	0.068MF	5%	50V
C312	1-161-013-00	CERAMIC	0.01MF	10%	25V	C544	1-102-961-00	CERAMIC	27PF	5%	50V
C313	1-161-013-00	CERAMIC	0.01MF	10%	25V	C545	1-108-555-00	MYLAR	0.001MF	5%	50V
C314	1-102-963-00	CERAMIC	33PF	5%	50V	C546	1-123-356-00	ELECT	10MF	20%	16V
C315	1-161-021-00	CERAMIC	0.047MF	10%	25V	C547	1-123-332-00	ELECT	47MF	20%	16V
C317	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C549	1-123-356-00	ELECT	10MF	20%	16V
C318	1-123-340-00	ELECT	4.7MF	20%	35V	C550	1-123-356-00	ELECT	10MF	20%	16V
C319	1-161-013-00	CERAMIC	0.01MF	10%	25V	C551	1-102-973-00	CERAMIC	100PF	5%	50V
C320	1-102-958-00	CERAMIC	20PF	5%	50V	C552	1-123-380-00	ELECT	1MF	20%	50V
C321	1-161-021-00	CERAMIC	0.047MF	10%	25V	C553	1-102-973-00	CERAMIC	100PF	5%	50V
C323	1-108-573-00	MYLAR	0.0056MF	5%	50V	C553	1-108-571-00	MYLAR	0.0047MF	5%	50V
C325	1-123-332-00	ELECT	47MF	20%	16V	C554	1-102-118-00	CERAMIC	0.0012MF	10%	50V
C328	1-161-021-00	CERAMIC	0.047MF	10%	25V	C555	1-123-356-00	ELECT	10MF	20%	16V
C329	1-161-021-00	CERAMIC	0.047MF	10%	25V	C556	1-123-356-00	ELECT	10MF	20%	16V
C332	1-102-953-00	CERAMIC	18PF	5%	50V	C557	1-123-356-00	ELECT	10MF	20%	16V
C333	1-102-961-00	CERAMIC	27PF	5%	50V	C558	1-123-356-00	ELECT	10MF	20%	16V
C500	1-108-555-00	MYLAR	0.001MF	5%	50V	C559	1-123-380-00	ELECT	1MF	20%	50V
C501	1-108-561-00	MYLAR	0.0018MF	5%	50V	C560	1-102-961-00	CERAMIC	27PF	5%	50V
C502	1-102-116-00	CERAMIC	680PF	10%	50V	C561	1-123-356-00	ELECT	10MF	20%	16V
C503	1-123-294-00	ELECT	47MF	20%	6.3V	C562	1-123-332-00	ELECT	47MF	20%	16V
C504	1-123-306-00	ELECT	47MF	20%	10V	C563	1-161-021-00	CERAMIC	0.047MF	10%	25V
C505	1-123-356-00	ELECT	10MF	20%	16V	C564	1-161-021-00	CERAMIC	0.047MF	10%	25V
C506	1-108-587-00	MYLAR	0.022MF	5%	50V	C565	1-161-021-00	CERAMIC	0.047MF	10%	25V
C507	1-102-963-00	CERAMIC	33PF	5%	50V	C566	1-161-021-00	CERAMIC	0.047MF	10%	25V
C508	1-123-356-00	ELECT	10MF	20%	16V	C567	1-123-356-00	ELECT	10MF	20%	16V
C509	1-108-593-00	MYLAR	0.039MF	5%	50V	C568	1-161-021-00	CERAMIC	0.047MF	10%	25V
C510	1-108-583-00	MYLAR	0.015MF	5%	50V	C570	1-123-356-00	ELECT	10MF	20%	16V
C511	1-108-591-00	MYLAR	0.033MF	5%	50V	C571	1-123-356-00	ELECT	10MF	20%	16V
C512	1-123-330-00	ELECT	22MF	20%	16V	C583	1-161-021-00	CERAMIC	0.047MF	10%	25V
C513	1-102-980-00	CERAMIC	270PF	5%	50V	C591	1-123-294-00	ELECT	47MF	20%	6.3V
C514	1-123-356-00	ELECT	10MF	20%	16V	C592	1-123-318-00	ELECT	33MF	20%	16V
C515	1-123-379-00	ELECT	0.47MF	20%	50V						
C516	1-129-710-00	FILM	0.0047MF	10%	630V						
C517	1-108-571-00	MYLAR	0.0047MF	5%	50V						
C518	1-108-567-00	MYLAR	0.0033MF	5%	50V						
C519	1-123-306-00	ELECT	47MF	20%	10V						
C520	1-123-356-00	ELECT	10MF	20%	16V						
C521	1-123-381-00	ELECT	2.2MF	20%	50V						

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- CAPACITORS
 - MF : μ F, PF : μ μ F
- RESISTORS
 - All resistors are in ohms
 - F : nonflammable
- COTLS
 - MMH : mH, μ H : μ H

VA-3 BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
CONNECTOR							
CN001	1-560-471-00	PIN, CONNECTOR 10P		D504	8-719-911-19	DIODE 1SS119	
CN002	1-560-461-00	PIN, CONNECTOR 5P		D505	8-719-911-19	DIODE 1SS119	
CN003	1-560-470-00	PIN, CONNECTOR 8P		D506	8-719-911-19	DIODE 1SS119	
CN004	1-560-471-00	PIN, CONNECTOR 10P		D507	8-719-911-19	DIODE 1SS119	
CN005	1-560-469-00	PIN, CONNECTOR 6P		D508	8-719-911-19	DIODE 1SS119	
CN006	1-560-467-00	PIN, CONNECTOR 4P		D510	8-719-911-19	DIODE 1SS119	
CN007	1-561-690-00	CONNECTOR, CAMERA 14P		D513	8-719-911-19	DIODE 1SS119	
CN009	1-560-468-00	PIN, CONNECTOR 5P		D514	8-719-911-19	DIODE 1SS119	
CN011	1-560-470-00	PIN, CONNECTOR 8P		D515	=>8-719-911-19	DIODE 1SS119	
CN012	1-561-703-00	CONNECTOR, DIN 8P		D516	=>8-719-911-19	DIODE 1SS119	
CN500	1-560-469-00	PIN, CONNECTOR 6P		D517	=>8-719-911-19	DIODE 1SS119	
CN505	1-560-466-00	PIN, CONNECTOR 3P		D518	8-719-911-19	DIODE 1SS119	
CN506	1-560-469-00	PIN, CONNECTOR 6P		D519	8-719-911-19	DIODE 1SS119	
CN507	1-560-468-00	PIN, CONNECTOR 5P		D540	8-719-911-19	DIODE 1SS119	
CN509	1-560-469-00	PIN, CONNECTOR 6P		DELAY LINE			
CN510	1-507-251-XX	JACK		DL001	1-415-243-00	DELAY LINE (1H)	
CN511	1-507-251-XX	JACK		DL002	1-415-065-00	DELAY LINE (1H)	
TRIMER							
CT500	1-141-215-00	CAP, TRIMER 100PF		DL003	1-415-244-21	DELAY LINE (1/2H)	
DIODE							
D001	8-719-911-19	DIODE 1SS119		DL004	1-415-245-00	DELAY LINE (1/4H)	
D002	8-719-911-19	DIODE 1SS119		IC			
D003	8-719-911-19	DIODE 1SS119		IC001	8-743-945-10	IC BX-3945-1	
D004	8-719-911-19	DIODE 1SS119		IC002	8-743-946-10	IC BX-3946-1	
D005	8-719-911-19	DIODE 1SS119		IC003	8-759-608-64	IC CX-864	
D006	8-719-911-19	DIODE 1SS119		IC004	8-759-608-65	IC CX-865	
D007	8-719-911-19	DIODE 1SS119		IC005	8-758-660-00	IC CX-866	
D008	8-719-113-07	DIODE RD13E-8		IC006	8-759-208-67	IC CX-867	
D009	8-719-113-07	DIODE RD13E-B		IC007	8-759-908-68	IC CX-868	
D010	8-719-113-07	DIODE RD13E-B		IC008	8-758-690-00	IC CX-869	
D011	8-719-118-07	DIODE RD18E-B		IC010	8-759-919-05	IC CX-7905A	
D012	8-719-118-07	DIODE RD18E-B		IC011	8-743-955-00	IC BX-3955	
D013	8-719-113-07	DIODE RD13E-B		IC012	8-743-956-10	IC BX-3956-1	
D014	8-719-113-07	DIODE RD13E-B		IC014	8-743-958-10	IC BX-3958-1	
D015	8-719-113-07	DIODE RD13E-B		IC015	8-743-959-10	IC BX-3959-1	
D016	8-719-113-07	DIODE RD13E-B		IC016	8-759-208-92	IC CX-892	
D017	8-719-113-07	DIODE RD13E-B		IC017	8-759-208-94	IC CX-894	
D018	8-719-911-19	DIODE 1SS119		IC018	8-752-000-80	IC CX20008	
D019	8-719-191-07	DIODE RD9.1E-B		IC091	=>8-759-600-08	IC CX-870A	
D020	8-719-191-07	DIODE RD9.1E-B		IC092	8-759-608-82	IC CX-882	
D021	8-719-911-19	DIODE 1SS119		IC500	8-759-240-66	IC TC4066BP	
D022	8-719-911-19	DIODE 1SS119		COIL			
D023	8-719-113-07	DIODE RD13E-B		L001	1-408-620-11	MICRO INDUCTOR 270UH	
D024	8-719-911-19	DIODE 1SS119		L002	1-408-620-11	MICRO INDUCTOR 270UH	
D025	8-719-911-19	DIODE 1SS119		L003	1-408-408-00	MICRO INDUCTOR 8.2UH	
D500	8-719-911-19	DIODE 1SS119		L004	1-408-408-00	MICRO INDUCTOR 8.2UH	
D501	8-719-911-19	DIODE 1SS119		L005	1-408-409-00	MICRO INDUCTOR 10UH	
D502	8-719-911-19	DIODE 1SS119		L006	1-408-427-00	MICRO INDUCTOR 330UH	
D503	8-719-911-19	DIODE 1SS119		L007	1-408-418-00	MICRO INDUCTOR 56UH	
				L008	1-408-417-00	MICRO INDUCTOR 47UH	
				L009	1-408-414-00	MICRO INDUCTOR 27UH	
				L010	1-408-397-00	MICRO INDUCTOR 1UH	

NOTE:

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

Les composants identifiés par une trame et une marque **A** 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, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	
L011	1-408-397-00	MICRO INDUCTOR 1UH		Q022	8-729-178-54	TRANSISTOR 2SC2785		
L012	1-408-423-00	MICRO INDUCTOR 150UH		Q023	8-729-178-54	TRANSISTOR 2SC2785		
L013	1-408-419-00	MICRO INDUCTOR 68UH		Q024	8-729-178-54	TRANSISTOR 2SC2785		
L014	1-408-418-00	MICRO INDUCTOR 56UH		Q025	8-729-178-54	TRANSISTOR 2SC2785		
L015	1-408-414-00	MICRO INDUCTOR 27UH		Q026	8-729-178-54	TRANSISTOR 2SC2785		
L016	1-408-414-00	MICRO INDUCTOR 27UH		Q027	8-729-117-54	TRANSISTOR 2SA1175		
L017	1-408-402-00	MICRO INDUCTOR 2.7UH		Q500	8-729-178-54	TRANSISTOR 2SC2785		
L019	1-408-401-00	MICRO INDUCTOR 2.2UH		Q501	8-729-178-54	TRANSISTOR 2SC2785		
L021	1-408-422-00	MICRO INDUCTOR 120UH		Q502	8-729-908-62	TRANSISTOR 2SD786		
L022	1-408-427-00	MICRO INDUCTOR 330UH		Q503	=>8-729-612-77	TRANSISTOR 2SA1027R		
L023	1-408-423-00	MICRO INDUCTOR 150UH		Q504	8-729-178-54	TRANSISTOR 2SC2785		
L024	1-407-502-31	MICRO INDUCTOR 6.8MMH		Q505	8-729-178-54	TRANSISTOR 2SC2785		
L026	1-408-425-00	MICRO INDUCTOR 220UH		Q506	8-729-178-54	TRANSISTOR 2SC2785		
L027	1-408-417-00	MICRO INDUCTOR 47UH		Q507	8-729-178-54	TRANSISTOR 2SC2785		
L029	1-408-421-00	MICRO INDUCTOR 100UH		Q509	8-729-178-54	TRANSISTOR 2SC2785		
L030	1-408-425-00	MICRO INDUCTOR 220UH		Q510	8-729-967-32	TRANSISTOR 2SC2673		
L031	1-408-409-00	MICRO INDUCTOR 10UH		Q512	8-729-178-54	TRANSISTOR 2SC2785		
L033	1-421-381-00	COIL, FERRITE CHOKE		Q513	8-729-178-54	TRANSISTOR 2SC2785		
L034	1-408-414-00	MICRO INDUCTOR 27UH		Q514	=>8-769-200-30	TRANSISTOR 2SK107-3		
L036	1-408-401-00	MICRO INDUCTOR 2.2UH		Q515	8-729-334-58	TRANSISTOR 2SC1345		
L037	1-408-402-00	MICRO INDUCTOR 2.7UH		Q516	8-729-178-54	TRANSISTOR 2SC2785		
L038	1-407-188-XX	MICRO INDUCTOR 6.8UH		Q517	8-729-178-54	TRANSISTOR 2SC2785		
L301	1-408-411-00	MICRO INDUCTOR 15UH		Q518	8-729-178-54	TRANSISTOR 2SC2785		
L500	1-408-429-00	MICRO INDUCTOR 470UH		Q519	8-729-178-54	TRANSISTOR 2SC2785		
L502	1-459-351-00	COIL (WITH CORE)		Q520	8-729-178-54	TRANSISTOR 2SC2785		
<u>VARIABLE COIL</u>				Q521	=>8-769-200-30	TRANSISTOR 2SK107-3		
LV001	1-408-512-00	COIL (VARIABLE)		Q522	8-729-178-54	TRANSISTOR 2SC2785		
LV500	1-408-524-00	INDUCTOR, ADJ 1.34MMH		Q523	8-729-178-54	TRANSISTOR 2SC2785		
LV501	1-408-523-00	COIL, VARIABLE 22UH		Q524	8-729-178-54	TRANSISTOR 2SC2785		
<u>TRANSISTOR</u>				Q525	8-729-178-54	TRANSISTOR 2SC2785		
Q001	8-729-178-54	TRANSISTOR 2SC2785		Q526	8-729-178-54	TRANSISTOR 2SC2785		
Q002	8-729-178-54	TRANSISTOR 2SC2785		Q529	8-729-178-54	TRANSISTOR 2SC2785		
Q003	8-729-178-54	TRANSISTOR 2SC2785		Q530	8-729-178-54	TRANSISTOR 2SC2785		
Q004	8-729-178-54	TRANSISTOR 2SC2785		Q531	8-729-178-54	TRANSISTOR 2SC2785		
Q005	8-729-178-54	TRANSISTOR 2SC2785		Q532	8-729-178-54	TRANSISTOR 2SC2785		
Q006	8-729-178-54	TRANSISTOR 2SC2785		Q533	8-729-178-54	TRANSISTOR 2SC2785		
Q007	8-729-178-54	TRANSISTOR 2SC2785		Q538	8-729-178-54	TRANSISTOR 2SC2785		
Q008	8-729-178-54	TRANSISTOR 2SC2785		Q539	8-729-178-54	TRANSISTOR 2SC2785		
Q009	8-729-178-54	TRANSISTOR 2SC2785		Q540	8-729-178-54	TRANSISTOR 2SC2785		
Q010	8-729-178-54	TRANSISTOR 2SC2785		Q541	8-729-178-54	TRANSISTOR 2SC2785		
Q011	8-729-113-32	TRANSISTOR 2SB733		Q542	8-729-988-12	TRANSISTOR 2SA881		
Q012	8-729-178-54	TRANSISTOR 2SC2785		Q543	8-729-178-54	TRANSISTOR 2SC2785		
Q013	8-729-117-54	TRANSISTOR 2SA1175		Q544	8-729-967-32	TRANSISTOR 2SC2673		
Q014	8-729-117-54	TRANSISTOR 2SA1175		Q545	8-729-178-54	TRANSISTOR 2SC2785		
Q015	8-729-178-54	TRANSISTOR 2SC2785		Q546	8-729-178-54	TRANSISTOR 2SC2785		
Q016	8-729-178-54	TRANSISTOR 2SC2785		Q547	8-729-178-54	TRANSISTOR 2SC2785		
Q017	8-729-178-54	TRANSISTOR 2SC2785		<u>RESISTOR</u>				
Q018	8-729-178-54	TRANSISTOR 2SC2785		R001	1-246-843-00	CARBON	910	1/8W
Q019	8-729-178-54	TRANSISTOR 2SC2785		R002	1-246-848-00	CARBON	2.4K	1/8W
Q020	8-729-178-54	TRANSISTOR 2SC2785		R003	1-246-787-00	CARBON	2.2K	1/8W
Q021	8-729-178-54	TRANSISTOR 2SC2785		R004	1-246-843-00	CARBON	910	1/8W
				R006	1-246-780-00	CARBON	560	1/8W

NOTE:

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

Les composants identifiés par une trame et une marque **A** 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, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

VA-3 BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark			
R007	1-246-807-00	CARBON	100K	1/8W	R065	1-246-459-00	CARBON	270	5%	1/4W
R008	1-246-801-00	CARBON	33K	1/8W	R066	1-246-785-00	CARBON	1.5K		1/8W
R009	1-246-843-00	CARBON	910	1/8W	R067	1-246-787-00	CARBON	2.2K		1/8W
R010	1-246-851-00	CARBON	4.3K	1/8W	R068	1-246-769-00	CARBON	68		1/8W
R011	1-246-857-00	CARBON	13K	1/8W	R069	1-246-461-00	CARBON	330	5%	1/4W
R012	1-246-808-00	CARBON	120K	1/8W	R070	1-246-769-00	CARBON	68		1/8W
R013	1-246-799-00	CARBON	22K	1/8W	R071	1-246-782-00	CARBON	820		1/8W
R014	1-246-803-00	CARBON	47K	1/8W	R072	1-246-796-00	CARBON	12K		1/8W
R015	1-246-795-00	CARBON	10K	1/8W	R073	1-246-843-00	CARBON	910		1/8W
R017	1-246-783-00	CARBON	1K	1/8W	R074	1-246-840-00	CARBON	510		1/8W
R018	1-246-792-00	CARBON	5.6K	1/8W	R075	1-246-844-00	CARBON	1.1K		1/8W
R019	1-246-803-00	CARBON	47K	1/8W	R076	1-246-835-00	CARBON	200		1/8W
R020	1-246-809-00	CARBON	150K	1/8W	R077	1-246-804-00	CARBON	56K		1/8W
R021	1-246-801-00	CARBON	33K	1/8W	R078	1-246-805-00	CARBON	68K		1/8W
R022	1-246-802-00	CARBON	39K	1/8W	R079	1-246-791-00	CARBON	4.7K		1/8W
R023	1-246-786-00	CARBON	1.8K	1/8W	R080	1-246-799-00	CARBON	22K		1/8W
R024	1-246-802-00	CARBON	39K	1/8W	R081	1-246-809-00	CARBON	150K		1/8W
R025	1-246-783-00	CARBON	1K	1/8W	R082	1-246-807-00	CARBON	100K		1/8W
R026	1-246-851-00	CARBON	4.3K	1/8W	R083	1-246-787-00	CARBON	2.2K		1/8W
R027	1-246-777-00	CARBON	330	1/8W	R084	1-246-783-00	CARBON	1K		1/8W
R028	1-246-834-00	CARBON	160	1/8W	R085	1-247-048-00	CARBON	390K		1/8W
R029	1-246-770-00	CARBON	82	1/8W	R086	1-247-049-00	CARBON	470K		1/8W
R030	1-246-770-00	CARBON	82	1/8W	R087	1-246-796-00	CARBON	12K		1/8W
R031	1-246-840-00	CARBON	510	1/8W	R088	1-246-847-00	CARBON	2K		1/8W
R032	1-246-791-00	CARBON	4.7K	1/8W	R089	1-246-798-00	CARBON	15K		1/8W
R033	1-246-834-00	CARBON	160	1/8W	R090	1-246-863-00	CARBON	43K		1/8W
R034	1-246-791-00	CARBON	4.7K	1/8W	R091	1-246-782-00	CARBON	820		1/8W
R035	1-246-778-00	CARBON	390	1/8W	R092	1-246-797-00	CARBON	15K		1/8W
R036	1-246-791-00	CARBON	4.7K	1/8W	R093	1-246-795-00	CARBON	10K		1/8W
R037	1-246-783-00	CARBON	1K	1/8W	R094	1-246-844-00	CARBON	1.1K		1/8W
R038	1-246-803-00	CARBON	47K	1/8W	R095	1-246-783-00	CARBON	1K		1/8W
R039	1-246-861-00	CARBON	30K	1/8W	R097	1-246-834-00	CARBON	160		1/8W
R040	1-246-783-00	CARBON	1K	1/8W	R099	1-246-771-00	CARBON	100		1/8W
R041	1-246-844-00	CARBON	1.1K	1/8W	R100	1-246-777-00	CARBON	330		1/8W
R042	1-246-844-00	CARBON	1.1K	1/8W	R103	1-246-789-00	CARBON	3.3K		1/8W
R043	1-246-792-00	CARBON	5.6K	1/8W	R104	1-246-791-00	CARBON	4.7K		1/8W
R044	1-246-783-00	CARBON	1K	1/8W	R105	1-246-799-00	CARBON	22K		1/8W
R045	1-246-801-00	CARBON	33K	1/8W	R106	1-246-791-00	CARBON	4.7K		1/8W
R046	1-246-787-00	CARBON	2.2K	1/8W	R107	1-246-795-00	CARBON	10K		1/8W
R047	1-246-802-00	CARBON	39K	1/8W	R108	1-246-794-00	CARBON	8.2K		1/8W
R048	1-246-799-00	CARBON	22K	1/8W	R109	1-246-799-00	CARBON	22K		1/8W
R049	1-246-796-00	CARBON	12K	1/8W	R110	1-246-799-00	CARBON	22K		1/8W
R050	1-246-791-00	CARBON	4.7K	1/8W	R111	1-246-783-00	CARBON	1K		1/8W
R051	1-246-779-00	CARBON	470	1/8W	R112	1-246-783-00	CARBON	1K		1/8W
R052	1-246-787-00	CARBON	2.2K	1/8W	R113	1-246-785-00	CARBON	1.5K		1/8W
R053	1-246-783-00	CARBON	1K	1/8W	R114	1-246-810-00	CARBON	180K		1/8W
R054	1-246-795-00	CARBON	10K	1/8W	R115	1-246-803-00	CARBON	47K		1/8W
R056	1-246-795-00	CARBON	10K	1/8W	R116	1-246-803-00	CARBON	47K		1/8W
R058	1-246-781-00	CARBON	680	1/8W	R117	1-246-863-00	CARBON	43K		1/8W
R059	1-246-791-00	CARBON	4.7K	1/8W	R118	1-246-863-00	CARBON	43K		1/8W
R060	1-246-852-00	CARBON	5.1K	1/8W	R119	1-246-795-00	CARBON	10K		1/8W
R061	1-246-794-00	CARBON	8.2K	1/8W	R120	1-246-792-00	CARBON	5.6K		1/8W
R062	1-246-808-00	CARBON	120K	1/8W	R121	1-246-864-00	CARBON	51K		1/8W

NOTE:

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.

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

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

• MF : μF , PF : $\mu\mu F$

RESISTORS

• All resistors are in ohms
• F : nonflammable

COILS

• MH : mH, μH : μH

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked " & " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

VA-3 BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark		
R122	1-246-801-00	CARBON	33K	1/8W	R234	1-246-803-00	CARBON	47K	1/8W
R123	1-246-804-00	CARBON	56K	1/8W	R235	1-246-803-00	CARBON	47K	1/8W
R124	1-246-801-00	CARBON	33K	1/8W	R236	1-246-803-00	CARBON	47K	1/8W
R125	1-246-801-00	CARBON	33K	1/8W	R237	1-246-801-00	CARBON	33K	1/8W
R126	1-246-857-00	CARBON	13K	1/8W	R238	1-246-801-00	CARBON	33K	1/8W
R127	1-246-802-00	CARBON	39K	1/8W	R239	1-246-785-00	CARBON	1.5K	1/8W
R128	1-246-807-00	CARBON	100K	1/8W	R240	1-246-771-00	CARBON	100	1/8W
R129	1-246-842-00	CARBON	750	1/8W	R241	1-246-789-00	CARBON	3.3K	1/8W
R130	1-246-789-00	CARBON	3.3K	1/8W	R242	1-246-856-00	CARBON	11K	1/8W
R131	1-246-855-00	CARBON	9.1K	1/8W	R243	1-246-802-00	CARBON	39K	1/8W
R132	1-246-785-00	CARBON	1.5K	1/8W	R244	1-246-783-00	CARBON	1K	1/8W
R133	1-246-854-00	CARBON	7.5K	1/8W	R245	1-246-791-00	CARBON	4.7K	1/8W
R134	1-246-847-00	CARBON	2K	1/8W	R246	1-246-791-00	CARBON	4.7K	1/8W
R135	1-246-830-00	CARBON	75	1/8W	R247	1-246-797-00	CARBON	15K	1/8W
R136	1-246-830-00	CARBON	75	1/8W	R248	1-246-858-00	CARBON	16K	1/8W
R137	1-246-860-00	CARBON	24K	1/8W	R249	1-246-805-00	CARBON	68K	1/8W
R138	1-246-841-00	CARBON	620	1/8W	R251	1-246-802-00	CARBON	39K	1/8W
R139	1-246-783-00	CARBON	1K	1/8W	R252	1-246-807-00	CARBON	100K	1/8W
R140	1-246-802-00	CARBON	39K	1/8W	R253	1-246-771-00	CARBON	100	1/8W
R141	1-246-794-00	CARBON	8.2K	1/8W	R254	1-246-837-00	CARBON	300	1/8W
R142	1-246-836-00	CARBON	240	1/8W	R255	1-246-837-00	CARBON	300	1/8W
R143	1-246-857-00	CARBON	13K	1/8W	R256	1-246-839-00	CARBON	430	1/8W
R144	1-246-865-00	CARBON	62K	1/8W	R257	1-246-803-00	CARBON	47K	1/8W
R145	1-246-802-00	CARBON	39K	1/8W	R258	1-246-799-00	CARBON	22K	1/8W
R146	1-246-803-00	CARBON	47K	1/8W	R259	1-246-799-00	CARBON	22K	1/8W
R148	1-246-850-00	CARBON	3.6K	1/8W	R260	1-247-048-00	CARBON	390K	1/8W
R149	1-246-850-00	CARBON	3.6K	1/8W	R261	1-246-787-00	CARBON	2.2K	1/8W
R206	1-246-775-00	CARBON	220	1/8W	R262	1-246-801-00	CARBON	33K	1/8W
R207	1-246-801-00	CARBON	33K	1/8W	R263	1-246-801-00	CARBON	33K	1/8W
R208	1-247-052-00	CARBON	820K	1/8W	R264	1-246-852-00	CARBON	5.1K	1/8W
R209	1-247-052-00	CARBON	820K	1/8W	R266	1-246-799-00	CARBON	22K	1/8W
R211	1-246-789-00	CARBON	3.3K	1/8W	R301	1-246-777-00	CARBON	330	1/8W
R212	1-246-787-00	CARBON	2.2K	1/8W	R302	1-246-791-00	CARBON	4.7K	1/8W
R213	1-246-783-00	CARBON	1K	1/8W	R303	1-246-791-00	CARBON	4.7K	1/8W
R214	1-246-793-00	CARBON	6.8K	1/8W	R304	1-246-805-00	CARBON	68K	1/8W
R215	1-246-785-00	CARBON	1.5K	1/8W	R305	1-246-794-00	CARBON	8.2K	1/8W
R216	1-246-791-00	CARBON	4.7K	1/8W	R306	1-246-799-00	CARBON	22K	1/8W
R217	1-246-783-00	CARBON	1K	1/8W	R307	1-246-859-00	CARBON	20K	1/8W
R218	1-246-784-00	CARBON	1.2K	1/8W	R308	1-246-857-00	CARBON	13K	1/8W
R219	1-246-780-00	CARBON	560	1/8W	R310	1-246-787-00	CARBON	2.2K	1/8W
R220	1-246-780-00	CARBON	560	1/8W	R311	1-246-844-00	CARBON	1.1K	1/8W
R221	1-246-840-00	CARBON	510	1/8W	R312	1-246-783-00	CARBON	1K	1/8W
R223	1-246-795-00	CARBON	10K	1/8W	R313	1-246-859-00	CARBON	20K	1/8W
R224	1-246-854-00	CARBON	7.5K	1/8W	R314	1-246-769-00	CARBON	68	1/8W
R225	1-246-851-00	CARBON	4.3K	1/8W	R315	1-246-848-00	CARBON	2.4K	1/8W
R226	1-246-871-00	CARBON	200K	1/8W	R317	1-246-847-00	CARBON	2K	1/8W
R227	1-246-869-00	CARBON	130K	1/8W	R318	1-246-771-00	CARBON	100	1/8W
R228	1-246-794-00	CARBON	8.2K	1/8W	R320	1-246-851-00	CARBON	4.3K	1/8W
R229	1-246-870-00	CARBON	160K	1/8W	R321	1-246-801-00	CARBON	33K	1/8W
R230	1-246-771-00	CARBON	100	1/8W	R322	1-246-801-00	CARBON	33K	1/8W
R231	1-246-779-00	CARBON	470	1/8W	R323	1-246-795-00	CARBON	10K	1/8W
R232	1-246-783-00	CARBON	1K	1/8W	R324	1-246-801-00	CARBON	33K	1/8W
R233	1-246-783-00	CARBON	1K	1/8W	R325	1-246-795-00	CARBON	10K	1/8W

NOTE:

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

Les composants identifiés par une trame et une marque **A** 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, interchangeable replacements may be substituted for parts specified in the diagrams.

* Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

* MF : μ F, PF : μ PF

RESISTORS

* All resistors are in ohms
* F : nonflammable

COILS

* MMH : mH, UH : μ H

VA-3 BOARD

Ref.No	Part No	Description		Remark	Ref.No	Part No	Description		Remark
R326	1-246-789-00	CARBON	3.3K	1/8W	R556	1-246-795-00	CARBON	10K	1/8W
R500	1-246-759-00	CARBON	10	1/8W	R557	1-246-783-00	CARBON	1K	1/8W
R501	1-246-803-00	CARBON	47K	1/8W	R558	1-246-803-00	CARBON	47K	1/8W
R502	1-246-801-00	CARBON	33K	1/8W	R559	1-246-801-00	CARBON	33K	1/8W
R503	1-246-803-00	CARBON	47K	1/8W	R560	1-246-801-00	CARBON	33K	1/8W
R504	1-246-801-00	CARBON	33K	1/8W	R561	1-246-791-00	CARBON	4.7K	1/8W
R506	1-246-543-00	CARBON	820K	5% 1/4W	R562	1-247-047-00	CARBON	330K	1/8W
R507	1-246-513-00	CARBON	47K	5% 1/4W	R563	1-246-799-00	CARBON	22K	1/8W
R508	1-246-800-00	CARBON	27K	1/8W	R564	1-246-792-00	CARBON	5.6K	1/8W
R509	1-246-791-00	CARBON	4.7K	1/8W	R565	1-202-469-00	COMPOSITION	3.9M 5%	1/4W
R510	1-246-869-00	CARBON	130K	1/8W	R566	1-246-795-00	CARBON	10K	1/8W
R511	1-246-521-00	CARBON	100K	5% 1/4W	R567	1-246-771-00	CARBON	100	1/8W
R512	1-246-768-00	CARBON	56	1/8W	R568	1-246-799-00	CARBON	22K	1/8W
R513	1-246-797-00	CARBON	15K	1/8W	R569	1-246-799-00	CARBON	22K	1/8W
R514	1-246-795-00	CARBON	10K	1/8W	R570	1-246-792-00	CARBON	5.6K	1/8W
R515	1-246-852-00	CARBON	5.1K	1/8W	R571	1-246-795-00	CARBON	10K	1/8W
R516	1-246-846-00	CARBON	1.6K	1/8W	R572	1-246-795-00	CARBON	10K	1/8W
R517	1-246-796-00	CARBON	12K	1/8W	R573	1-246-795-00	CARBON	10K	1/8W
R518	1-246-799-00	CARBON	22K	1/8W	R574	1-246-867-00	CARBON	91K	1/8W
R519	1-246-801-00	CARBON	33K	1/8W	R575	1-246-793-00	CARBON	6.8K	1/8W
R520	1-246-801-00	CARBON	33K	1/8W	R577	1-246-793-00	CARBON	6.8K	1/8W
R521	1-246-796-00	CARBON	12K	1/8W	R578	1-247-049-00	CARBON	470K	1/8W
R522	1-246-798-00	CARBON	18K	1/8W	R579	1-246-787-00	CARBON	2.2K	1/8W
R523	1-246-793-00	CARBON	6.8K	1/8W	R581	1-246-789-00	CARBON	3.3K	1/8W
R525	1-246-801-00	CARBON	33K	1/8W	R584	1-246-788-00	CARBON	2.7K	1/8W
R526	1-246-771-00	CARBON	100	1/8W	R585	1-246-852-00	CARBON	5.1K	1/8W
R527	1-246-795-00	CARBON	10K	1/8W	R586	1-246-843-00	CARBON	910	1/8W
R528	1-246-797-00	CARBON	15K	1/8W	R592	1-246-795-00	CARBON	10K	1/8W
R531	△ 1-246-980-00	CARBON	3.3	5% 1/8W F	R593	1-246-795-00	CARBON	10K	1/8W
R532	1-246-771-00	CARBON	100	1/8W	R594	1-246-796-00	CARBON	12K	1/8W
R533	1-246-795-00	CARBON	10K	1/8W	R595	1-246-793-00	CARBON	6.8K	1/8W
R534	1-246-797-00	CARBON	15K	1/8W	R596	1-246-805-00	CARBON	68K	1/8W
R535	1-246-804-00	CARBON	56K	1/8W	R597	1-246-797-00	CARBON	15K	1/8W
R536	1-246-804-00	CARBON	56K	1/8W	R598	1-246-796-00	CARBON	12K	1/8W
R537	1-246-795-00	CARBON	10K	1/8W	R599	1-246-861-00	CARBON	30K	1/8W
R538	1-246-807-00	CARBON	100K	1/8W	R600	1-246-860-00	CARBON	24K	1/8W
R539	1-246-866-00	CARBON	75K	1/8W	R601	1-246-792-00	CARBON	5.6K	1/8W
R540	1-246-866-00	CARBON	75K	1/8W	R602	1-246-791-00	CARBON	4.7K	1/8W
R541	1-246-807-00	CARBON	100K	1/8W	R603	1-246-780-00	CARBON	560	1/8W
R542	1-246-807-00	CARBON	100K	1/8W	R604	1-246-786-00	CARBON	1.8K	1/8W
R543	1-246-807-00	CARBON	100K	1/8W	R605	1-246-799-00	CARBON	22K	1/8W
R544	1-246-783-00	CARBON	1K	1/8W	R606	1-246-801-00	CARBON	33K	1/8W
R545	1-246-783-00	CARBON	1K	1/8W	R607	1-246-771-00	CARBON	100	1/8W
R546	1-246-803-00	CARBON	47K	1/8W	R608	1-246-783-00	CARBON	1K	1/8W
R547	1-246-803-00	CARBON	47K	1/8W	R610	1-246-793-00	CARBON	6.8K	1/8W
R548	1-246-799-00	CARBON	22K	1/8W	R611	1-247-047-00	CARBON	330K	1/8W
R549	1-246-804-00	CARBON	56K	1/8W	R612	1-246-795-00	CARBON	10K	1/8W
R550	1-246-795-00	CARBON	10K	1/8W	R613	1-246-791-00	CARBON	4.7K	1/8W
R551	1-246-811-00	CARBON	220K	1/8W	R614	1-246-801-00	CARBON	33K	1/8W
R552	1-246-807-00	CARBON	100K	1/8W	R615	1-246-793-00	CARBON	6.8K	1/8W
R553	1-246-834-00	CARBON	160	1/8W	R616	1-246-797-00	CARBON	15K	1/8W
R554	1-246-795-00	CARBON	10K	1/8W	R617	1-246-787-00	CARBON	2.2K	1/8W
R555	1-246-811-00	CARBON	220K	1/8W	R618	1-246-811-00	CARBON	220K	1/8W

NOTE:

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.

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

* =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

* Items marked " Δ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
* MF : μ F, PF : μ PF

RESISTORS
* All resistors are in ohms
* F : nonflammable

COILS
* MH : mH, UH : μ H

VA-3 BOARD

MI-2 BOARD

VL-3 BOARD

Ref.No	Part No	Description	Remark
R619	1-246-807-00	CARBON 100K	1/8W
R620	1-246-811-00	CARBON 220K	1/8W
R621	1-246-807-00	CARBON 100K	1/8W
R622	1-246-807-00	CARBON 100K	1/8W
R623	1-246-811-00	CARBON 220K	1/8W
R624	1-246-807-00	CARBON 100K	1/8W
R625	1-246-787-00	CARBON 2.2K	1/8W
R626	1-246-797-00	CARBON 15K	1/8W
R627	1-246-783-00	CARBON 1K	1/8W
R628	1-246-783-00	CARBON 1K	1/8W
R629	1-246-783-00	CARBON 1K	1/8W
R630	1-246-791-00	CARBON 4.7K	1/8W
R631	1-246-784-00	CARBON 1.2K	1/8W
R632	1-246-796-00	CARBON 12K	1/8W
R633	1-246-791-00	CARBON 4.7K	1/8W
R634	1-246-801-00	CARBON 33K	1/8W
R635	1-246-799-00	CARBON 22K	1/8W
R636	1-246-807-00	CARBON 100K	1/8W
R638	1-246-780-00	CARBON 560	1/8W
R639	1-246-829-00	CARBON 62	1/8W
R640	1-246-783-00	CARBON 1K	1/8W
R641	1-246-792-00	CARBON 5.6K	1/8W
R642	1-246-797-00	CARBON 15K	1/8W
R643	1-246-791-00	CARBON 4.7K	1/8W
R647	1-246-801-00	CARBON 33K	1/8W
R648	1-246-801-00	CARBON 33K	1/8W
R649	1-247-053-00	CARBON 1M	1/8W
R650	1-246-783-00	CARBON 1K	1/8W
R651	1-246-787-00	CARBON 2.2K	1/8W
R652	1-246-787-00	CARBON 2.2K	1/8W
R653	1-246-801-00	CARBON 33K	1/8W
R654	1-246-807-00	CARBON 100K	1/8W
R655	1-246-783-00	CARBON 1K	1/8W
<u>VARIABLE RESISTOR</u>			
RV001	1-224-249-XX	RES, ADJ, SOLID 1K	
RV003	1-224-250-XX	RES, ADJ, SOLID 2.2K	
RV004	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV005	1-224-250-XX	RES, ADJ, SOLID 2.2K	
RV006	1-224-249-XX	RES, ADJ, SOLID 1K	
RV007	1-224-249-XX	RES, ADJ, SOLID 1K	
RV008	1-224-250-XX	RES, ADJ, SOLID 2.2K	
RV009	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV010	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV011	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV012	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV013	1-224-252-XX	RES, ADJ, SOLID 10K	
RV014	1-224-252-XX	RES, ADJ, SOLID 10K	
RV015	1-224-250-XX	RES, ADJ, SOLID 2.2K	
RV016	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV017	1-224-248-XX	RES, ADJ, SOLID 470	
RV019	1-224-254-XX	RES, ADJ, SOLID 47K	
RV020	1-224-254-XX	RES, ADJ, SOLID 47K	

Ref.No	Part No	Description	Remark
RV021	1-224-250-XX	RES, ADJ, SOLID 2.2K	
RV022	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV025	1-224-252-XX	RES, ADJ, SOLID 10K	
RV026	1-224-254-XX	RES, ADJ, SOLID 47K	
RV027	1-224-248-XX	RES, ADJ, SOLID 470	
RV028	1-224-248-XX	RES, ADJ, SOLID 470	
RV029	1-224-250-XX	RES, ADJ, SOLID 2.2K	
RV030	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV500	1-224-254-XX	RES, ADJ, SOLID 47K	
RV501	1-224-255-XX	RES, ADJ, SOLID 100K	
RV502	1-224-251-XX	RES, ADJ, SOLID 4.7K	
<u>RELAY</u>			
RY501	1-515-418-00	RELAY	
RY502	1-515-416-00	RELAY	
<u>SWITCH</u>			
SW001	1-552-821-00	SWITCH, SLIDE	
<u>TRANSFORMER</u>			
T001	1-235-057-00	FILTER, BAND PASS	
T002	1-426-065-00	COIL, BPF-1	
T003	1-426-070-00	COIL (EQT)	
T004	1-409-352-00	COIL, TRAP	
T005	1-409-353-00	COIL, TRAP	
T006	1-231-412-00	FILTER BLOCK	
T007	1-426-089-00	COIL (EQT)	
T500	1-433-236-00	TRANSFORMER, OSCILLATOR	
<u>CONNECTOR</u>			
VCND13	1-507-742-00	JACK, PIN 2P	
<u>CRYSTAL</u>			
X001	1-527-396-00	CRYSTAL, OSC	

◆:1-60G-272-00 MI-2 BOARD *****			
<u>CONNECTOR</u>			
CN501	1-507-285-00	JACK	

◆:A-6711-323-A VL-3 BOARD, COMPLETE *****			
1-246-795-00	CARBON	10K	1/8W
1-246-795-00	CARBON	10K	1/8W
<u>CAPACITOR</u>			
CO01	1-123-306-00	ELECT	47MF 20% 10V

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

Les composants identifiés par une trame et une marque **A** 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, interchangeable replacements may be substituted for parts specified in the diagrams.
- * Items marked "◆" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- * All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- * CAPACITORS: MF : μF , PF : $\mu\mu F$
- * RESISTORS: All resistors are in ohms; F : nonflammable
- * COILS: MMH : mH, UH : μH

VL-3 BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	
C002	1-123-616-00	ELECT	4.7MF 20%	25V	CN003	1-560-470-00	PIN, CONNECTOR 8P	
C003	1-123-617-00	ELECT	10MF 20%	16V	CN004	1-560-466-00	PIN, CONNECTOR 3P	
C004	1-130-022-00	FILM	0.0022MF	5%	50V	<u>COMPOSITION CIRCUIT BLOCK</u>		
C005	1-161-013-00	CERAMIC	0.01MF	10%	25V	CP002	1-231-810-00	COMPOSITION CIRCUIT BLOCK
C006	1-123-617-00	ELECT	10MF	20%	16V	CP003	1-231-628-00	COMPOSITION CIRCUIT BLOCK
C007	1-130-532-51	MYLAR	0.22MF	10%	50V	CP004	1-231-628-00	COMPOSITION CIRCUIT BLOCK
C008	1-123-617-00	ELECT	10MF	20%	16V	CP005	1-231-796-21	COMPOSITION CIRCUIT BLOCK
C009	1-123-617-00	ELECT	10MF	20%	16V	CP006	1-231-628-00	COMPOSITION CIRCUIT BLOCK
C010	1-102-074-00	CERAMIC	0.001MF	10%	50V	CP007	1-231-628-00	COMPOSITION CIRCUIT BLOCK
C011	1-131-404-00	ELECT(SOLID)	0.22MF	10%	25V	CP008	1-232-131-00	COMPOSITION CIRCUIT BLOCK
C012	1-102-126-00	CERAMIC	0.0056MF	10%	50V	CP009	1-232-133-00	COMPOSITION CIRCUIT BLOCK
C013	1-123-616-00	ELECT	4.7MF	20%	25V	CP010	1-231-628-00	COMPOSITION CIRCUIT BLOCK
C014	1-161-013-00	CERAMIC	0.01MF	10%	25V	CP011	1-232-173-00	COMPOSITION CIRCUIT BLOCK
C015	1-123-306-00	ELECT	47MF	20%	10V	CP012	1-232-174-00	COMPOSITION CIRCUIT BLOCK
C016	1-123-645-00	ELECT	33MF	20%	10V	CP013	1-232-175-00	COMPOSITION CIRCUIT BLOCK
C017	1-123-617-00	ELECT	10MF	20%	16V	CP014	1-231-773-00	COMPOSITION CIRCUIT BLOCK
C018	1-123-617-00	ELECT	10MF	20%	16V	CP015	1-231-886-00	COMPOSITION CIRCUIT BLOCK
C019	1-123-617-00	ELECT	10MF	20%	16V	CP016	1-231-628-00	COMPOSITION CIRCUIT BLOCK
C020	1-123-617-00	ELECT	10MF	20%	16V	CP017	1-232-176-00	COMPOSITION CIRCUIT BLOCK
C021	1-102-118-00	CERAMIC	0.0012MF	10%	50V	CP018	1-232-177-00	COMPOSITION CIRCUIT BLOCK
C022	1-123-617-00	ELECT	10MF	20%	16V	CP019	1-232-178-00	COMPOSITION CIRCUIT BLOCK
C023	1-123-617-00	ELECT	10MF	20%	16V	CP020	1-232-175-00	COMPOSITION CIRCUIT BLOCK
C024	1-131-404-00	ELECT(SOLID)	0.22MF	10%	25V	<u>DIODE</u>		
C025	1-130-029-00	FILM	0.0082MF	5%	50V	D003	=>8-719-911-19	DIODE 1SS119
C026	1-130-025-00	FILM	0.0039MF	5%	50V	D004	=>8-719-911-19	DIODE 1SS119
C027	1-123-622-00	ELECT	22MF	20%	16V	D005	=>8-719-911-19	DIODE 1SS119
C028	1-123-306-00	ELECT	47MF	20%	10V	D006	=>8-719-911-19	DIODE 1SS119
C029	1-161-013-00	CERAMIC	0.01MF	10%	25V	D007	=>8-719-911-19	DIODE 1SS119
C030	1-131-342-00	ELECT(SOLID)	0.15MF	10%	25V	D009	=>8-719-911-19	DIODE 1SS119
C031	1-161-013-00	CERAMIC	0.01MF	10%	25V	D010	=>8-719-911-19	DIODE 1SS119
C032	1-123-307-00	ELECT	100MF	20%	10V	D013	=>8-719-911-19	DIODE 1SS119
C033	1-130-028-00	FILM	0.0068MF	5%	50V	D014	=>8-719-911-19	DIODE 1SS119
C034	1-130-025-00	FILM	0.0039MF	5%	50V	D015	=>8-719-911-19	DIODE 1SS119
C035	1-130-481-00	MYLAR	0.0068MF	5%	50V	<u>IC</u>		
C036	1-131-342-00	ELECT(SOLID)	0.15MF	10%	25V	IC001	8-759-132-40	IC UPC324C
C037	1-123-306-00	ELECT	47MF	20%	10V	IC002	8-759-132-40	IC UPC324C
C038	1-130-524-51	MYLAR	0.047MF	10%	50V	IC003	8-759-132-40	IC UPC324C
C040	1-123-306-00	ELECT	47MF	20%	10V	IC004	8-759-240-30	IC TC4030BP
C041	1-123-613-00	ELECT	3.3MF	20%	50V	IC005	8-741-104-10	IC 8X-1041
C042	1-161-034-00	CERAMIC	0.022MF	20%	25V	IC006	8-759-240-66	IC TC4066BP
C043	1-102-121-00	CERAMIC	0.0022MF	10%	50V	IC007	8-759-240-13	IC TC4013BP
C044	1-123-617-00	ELECT	10MF	20%	16V	IC008	8-759-240-81	IC TC4081BP
C045	1-131-345-00	ELECT(SOLID)	0.47MF	10%	25V	IC009	=>8-759-345-38	IC HD14538BP
C046	1-131-345-00	ELECT(SOLID)	0.47MF	10%	25V	IC010	8-759-240-11	IC TC4011BP
C047	1-123-617-00	ELECT	10MF	20%	16V	IC011	8-759-240-11	IC TC4011BP
C048	1-130-524-51	MYLAR	0.047MF	10%	50V	IC012	8-759-240-81	IC TC4081BP
C049	1-131-407-00	ELECT(SOLID)	0.68MF	10%	25V	IC013	8-759-240-11	IC TC4011BP
C050	1-102-074-00	CERAMIC	0.001MF	10%	50V	IC014	8-759-240-69	IC TC4069UBP
C051	1-123-617-00	ELECT	10MF	20%	16V			

CONNECTOR

CN001: 1-560-472-00 PIN, CONNECTOR 12P
 CN002: 1-560-472-00 PIN, CONNECTOR 12P

NOTE:

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

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

* =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

* Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

* MF : μ F, PF : μ PF

RESISTORS

* All resistors are in ohms
 * F : nonflammable

COILS

* MMH : mH, UH : μ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
<u>TRANSISTOR</u>							
Q001	8-729-993-72	TRANSISTOR 2SA937		R020	1-246-846-00	CARBON 1.6K	1/8W
Q002	8-729-178-54	TRANSISTOR 2SC2785		R021	1-246-851-00	CARBON 4.3K	1/8W
Q003	8-729-178-54	TRANSISTOR 2SC2785		R022	1-246-807-00	CARBON 100K	1/8W
Q004	8-729-178-54	TRANSISTOR 2SC2785		R023	1-246-864-00	CARBON 51K	1/8W
Q005	8-729-117-54	TRANSISTOR 2SA1175		R024	1-246-807-00	CARBON 100K	1/8W
Q006	8-729-178-54	TRANSISTOR 2SC2785		R025	1-246-807-00	CARBON 100K	1/8W
Q007	8-729-993-72	TRANSISTOR 2SA937		R026	1-246-795-00	CARBON 10K	1/4W
Q008	8-729-178-54	TRANSISTOR 2SC2785		R032	1-246-781-00	CARBON 680	1/8W
Q009	8-729-178-54	TRANSISTOR 2SC2785		R033	1-246-807-00	CARBON 100K	1/8W
Q010	8-729-117-54	TRANSISTOR 2SA1175		R037	1-246-807-00	CARBON 100K	1/8W
Q012	8-729-178-54	TRANSISTOR 2SC2785		R038	1-214-140-00	METAL 2.2K 1%	1/4W
Q013	8-729-178-54	TRANSISTOR 2SC2785		R039	1-214-156-00	METAL 10K 1%	1/4W
Q014	8-729-117-54	TRANSISTOR 2SA1175		R040	1-214-168-00	METAL 33K 1%	1/4W
Q015	8-729-117-54	TRANSISTOR 2SA1175		R041	1-246-803-00	CARBON 47K	1/8W
Q016	8-729-178-54	TRANSISTOR 2SC2785		R043	1-247-053-00	CARBON 1M	1/8W
Q017	8-729-178-54	TRANSISTOR 2SC2785		R044	1-247-053-00	CARBON 1M	1/8W
Q018	8-729-902-11	TRANSISTOR 2SC2021		R045	1-246-765-00	CARBON 33	1/8W
Q019	8-729-178-54	TRANSISTOR 2SC2785		R047	1-246-807-00	CARBON 100K	1/8W
Q020	8-729-178-54	TRANSISTOR 2SC2785		R048	1-246-844-00	CARBON 1.1K	1/8W
Q021	8-729-178-54	TRANSISTOR 2SC2785		R049	1-246-846-00	CARBON 1.6K	1/8W
Q022	8-729-117-54	TRANSISTOR 2SA1175		R050	1-246-846-00	CARBON 1.6K	1/8W
Q023	8-729-117-54	TRANSISTOR 2SA1175		R052	1-246-791-00	CARBON 4.7K	1/8W
Q024	8-729-178-54	TRANSISTOR 2SC2785		R053	1-246-801-00	CARBON 33K	1/8W
Q025	8-729-178-54	TRANSISTOR 2SC2785		R055	1-247-053-00	CARBON 1M	1/8W
Q026	8-729-117-54	TRANSISTOR 2SA1175		R058	1-246-792-00	CARBON 5.6K	1/8W
Q027	8-729-117-54	TRANSISTOR 2SA1175		R061	1-246-848-00	CARBON 2.4K	1/8W
Q028	8-729-117-54	TRANSISTOR 2SA1175		R062	1-246-803-00	CARBON 47K	1/8W
Q029	8-729-117-54	TRANSISTOR 2SA1175		R063	1-246-783-00	CARBON 1K	1/8W
Q030	=>8-729-902-11	TRANSISTOR 2SC2021		R064	1-246-783-00	CARBON 1K	1/8W
Q031	8-729-117-54	TRANSISTOR 2SA1175		R065	1-246-783-00	CARBON 1K	1/8W
Q032	8-729-902-11	TRANSISTOR 2SC2021		R066	1-246-804-00	CARBON 56K	1/8W
Q033	8-729-117-54	TRANSISTOR 2SA1175		R067	1-246-804-00	CARBON 56K	1/8W
Q034	8-729-117-54	TRANSISTOR 2SA1175		R068	1-246-807-00	CARBON 100K	1/8W
Q035	8-729-117-54	TRANSISTOR 2SA1175		R069	1-246-803-00	CARBON 47K	1/8W
Q036	8-729-117-54	TRANSISTOR 2SA1175		R070	1-246-850-00	CARBON 3.6K	1/8W
Q037	8-729-178-54	TRANSISTOR 2SC2785		R071	1-246-805-00	CARBON 68K	1/8W
<u>RESISTOR</u>							
R001	1-246-803-00	CARBON 47K	1/8W	R076	1-246-795-00	CARBON 10K	1/8W
R002	1-246-803-00	CARBON 47K	1/8W	R077	1-246-807-00	CARBON 100K	1/8W
R003	1-214-154-00	METAL 8.2K 1%	1/4W	R078	1-246-807-00	CARBON 100K	1/8W
R004	1-214-156-00	METAL 10K 1%	1/4W	R080	1-246-803-00	CARBON 47K	1/8W
R005	1-246-791-00	CARBON 4.7K	1/8W	R084	1-246-791-00	CARBON 4.7K	1/8W
R006	1-247-053-00	CARBON 1M	1/8W	R085	1-246-807-00	CARBON 100K	1/8W
R011	1-246-791-00	CARBON 4.7K	1/8W	R086	1-214-780-00	METAL 130K 1%	1/4W
R012	1-247-053-00	CARBON 1M	1/8W	R087	1-214-786-00	METAL 240K 1%	1/4W
R013	1-246-792-00	CARBON 5.6K	1/8W	R088	1-246-775-00	CARBON 220	1/8W
R014	1-246-799-00	CARBON 22K	1/8W	R089	1-246-805-00	CARBON 68K	1/8W
R015	1-246-803-00	CARBON 47K	1/8W	R090	1-246-803-00	CARBON 47K	1/8W
R016	1-246-807-00	CARBON 100K	1/8W	R091	1-246-803-00	CARBON 47K	1/8W
R017	1-246-852-00	CARBON 5.1K	1/8W	R092	1-247-053-00	CARBON 1M	1/8W

NOTE:

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

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

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked " & " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

VL-3 BOARD

SS-10A BOARD

Ref.No	Part No	Description	Value	Remark
R093	1-246-777-00	CARBON	330	1/8W
R094	1-246-803-00	CARBON	47K	1/8W
R095	1-246-803-00	CARBON	47K	1/8W
R096	1-246-807-00	CARBON	100K	1/8W
R097	1-246-807-00	CARBON	100K	1/8W
R100	1-246-771-00	CARBON	100	1/8W
R101	1-246-795-00	CARBON	10K	1/8W
R102	1-246-783-00	CARBON	1K	1/8W
R103	1-246-795-00	CARBON	10K	1/8W
R104	1-246-795-00	CARBON	10K	1/8W
R105	1-246-803-00	CARBON	47K	1/8W
R106	1-214-174-00	METAL	56K 1%	1/4W
R107	1-214-178-00	METAL	82K 1%	1/4W
R108	1-214-150-00	METAL	5.6K 1%	1/4W
R109	1-246-783-00	CARBON	1K	1/8W
R110	1-246-807-00	CARBON	100K	1/8W
R111	1-246-799-00	CARBON	22K	1/8W
R112	1-246-807-00	CARBON	100K	1/8W
R113	1-214-163-00	METAL	20K 1%	1/4W
R114	1-214-167-00	METAL	30K 1%	1/4W
R115	1-246-790-00	CARBON	3.9K	1/8W
R116	1-246-807-00	CARBON	100K	1/8W
R117	1-214-142-00	METAL	2.7K 1%	1/4W
R118	1-214-132-00	METAL	1K 1%	1/4W
R121	1-246-803-00	CARBON	47K	1/8W
R122	1-246-803-00	CARBON	47K	1/8W
R123	1-246-802-00	CARBON	39K	1/8W
R124	1-246-795-00	CARBON	10K	1/8W
R125	1-246-857-00	CARBON	13K	1/8W
R126	1-246-801-00	CARBON	33K	1/8W
R127	1-246-803-00	CARBON	47K	1/8W
R128	1-246-783-00	CARBON	1K	1/8W
R129	1-246-861-00	CARBON	30K	1/8W
R130	1-246-857-00	CARBON	13K	1/8W
R131	1-214-156-00	METAL	10K 1%	1/4W
R132	1-246-803-00	CARBON	47K	1/8W
R133	1-246-851-00	CARBON	4.3K	1/8W
R134	1-246-795-00	CARBON	10K	1/8W
R135	1-246-803-00	CARBON	47K	1/8W
R136	1-246-803-00	CARBON	47K	1/8W
R137	1-246-778-00	CARBON	390	1/8W
R138	1-246-807-00	CARBON	100K	1/8W
R139	1-214-145-00	METAL	3.6K 1%	1/4W
R140	1-246-807-00	CARBON	100K	1/8W
R141	1-246-807-00	CARBON	100K	1/8W
R142	1-214-134-00	METAL	1.2K 1%	1/4W
R146	1-246-807-00	CARBON	100K	1/8W
R147	1-246-807-00	CARBON	100K	1/8W
R148	1-214-158-00	METAL	12K 1%	1/4W
R149	1-214-153-00	METAL	7.5K 1%	1/4W
R154	1-246-783-00	CARBON	1K	1/8W
R156	1-246-869-00	CARBON	130K	1/8W
R157	1-246-807-00	CARBON	100K	1/8W

Ref.No	Part No	Description	Value	Remark
R158	1-246-783-00	CARBON	1K	1/8W
R159	1-246-807-00	CARBON	100K	1/8W
R160	1-246-807-00	CARBON	100K	1/8W
R161	1-246-850-00	CARBON	3.6K	1/8W
R162	1-214-152-00	METAL	6.0K 1%	1/4W
R164	1-246-791-00	CARBON	4.7K	1/8W
R171	1-246-807-00	CARBON	100K	1/8W

VARIABLE RESISTOR

RV001	1-224-252-XX	RES, ADJ, METAL GLAZE	10K
RV002	1-226-773-00	RES, ADJ, METAL GLAZE	22K
RV003	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K
RV004	1-224-253-XX	RES, ADJ, METAL GLAZE	22K
RV005	1-224-253-XX	RES, ADJ, METAL GLAZE	22K
RV006	1-224-256-XX	RES, ADJ, METAL GLAZE	220K
RV007	1-224-256-XX	RES, ADJ, METAL GLAZE	220K
RV008	1-224-256-XX	RES, ADJ, METAL GLAZE	220K
RV009	1-224-256-XX	RES, ADJ, METAL GLAZE	220K
RV010	1-226-703-00	RES, ADJ, METAL GLAZE	10K
RV011	1-226-775-00	RES, ADJ, METAL GLAZE	100K
RV012	1-224-256-XX	RES, ADJ, METAL GLAZE	220K
RV013	1-224-256-XX	RES, ADJ, METAL GLAZE	220K
RV014	1-228-270-00	RES, VAR, CARBON	10K
RV015	1-226-775-00	RES, ADJ, METAL GLAZE	100K
RV016	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K
RV017	1-224-255-XX	RES, ADJ, METAL GLAZE	100K
RV018	1-226-773-00	RES, ADJ, METAL GLAZE	22K

- A-6715-131-A SS-10A BOARD, COMPLETE

- 3-572-085-00 WASHER, FIBER
- 3-655-214-00 CLIP, CABLE
- 3-671-839-00 CASE (MAIN), SHIELD, SS-10
- 3-703-044-26 LABEL, CAUTION

CAPACITOR

C001	1-123-318-00	ELECT	33MF	20%	16V
C002	1-161-057-00	CERAMIC	0.033MF	10%	50V
C003	1-123-617-00	ELECT	10MF	20%	16V
C004	1-123-617-00	ELECT	10MF	20%	16V
C005	1-161-039-00	CERAMIC	0.001MF	10%	25V
C006	1-123-333-00	ELECT	100MF	20%	16V
C007	1-123-318-00	ELECT	33MF	20%	16V
C008	1-161-057-00	CERAMIC	0.033MF	10%	50V
C009	1-130-482-00	MYLAR	0.0082MF	5%	50V
C010	1-130-482-00	MYLAR	0.0082MF	5%	50V
C011	1-123-612-00	ELECT	2.2MF	20%	50V
C012	1-123-612-00	ELECT	2.2MF	20%	50V
C013	1-123-611-00	ELECT	1MF	20%	50V
C014	1-123-611-00	ELECT	1MF	20%	50V
C015	1-123-611-00	ELECT	1MF	20%	50V

NOTE:

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.

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

* =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

* Items marked "•" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

* MF : μ F, PF : μ PF

RESISTORS

* All resistors are in ohms
* F : nonflammable

COILS

* MMH : mH, UH : μ H

SS-10A BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C016	1-123-611-00	ELECT 1MF	20% 50V	C332	1-161-016-00	CERAMIC 0.018MF	10% 25V
C017	1-123-617-00	ELECT 10MF	20% 16V	C333	1-161-002-00	CERAMIC 0.0012MF	10% 25V
C018	1-123-318-00	ELECT 33MF	20% 16V	C334	1-161-013-00	CERAMIC 0.01MF	10% 25V
C019	1-161-057-00	CERAMIC 0.033MF	10% 50V	C335	1-130-493-51	MYLAR 0.068MF	5% 50V
C020	1-123-318-00	ELECT 33MF	20% 16V	C336	1-123-613-00	ELECT 3.3MF	20% 50V
C021	1-161-057-00	CERAMIC 0.033MF	10% 50V	C337	1-102-978-00	CERAMIC 220PF	5% 50V
C022	1-123-611-00	ELECT 1MF	20% 50V	C338	1-123-294-00	ELECT 47MF	20% 6.3V
C023	1-123-611-00	ELECT 1MF	20% 50V	C339	1-123-616-00	ELECT 4.7MF	20% 25V
C024	1-161-009-00	CERAMIC 0.0047MF	10% 25V	C340	1-123-616-00	ELECT 4.7MF	20% 25V
C026	1-161-039-00	CERAMIC 0.001MF	10% 25V	C341	1-130-488-00	MYLAR 0.027MF	5% 50V
C028	1-123-611-00	ELECT 1MF	20% 50V	C342	1-123-622-00	ELECT 22MF	20% 16V
C029	1-123-613-00	ELECT 3.3MF	20% 50V	C343	1-123-294-00	ELECT 47MF	20% 6.3V
C030	1-123-318-00	ELECT 33MF	20% 16V	C344	1-123-295-00	ELECT 100MF	20% 6.3V
C031	1-161-057-00	CERAMIC 0.033MF	10% 50V	C345	1-161-017-00	CERAMIC 0.022MF	10% 25V
C032	1-161-057-00	CERAMIC 0.033MF	10% 50V	C346	1-161-013-00	CERAMIC 0.01MF	10% 25V
C033	1-123-318-00	ELECT 33MF	20% 16V	C347	1-161-016-00	CERAMIC 0.018MF	10% 25V
C034	1-161-057-00	CERAMIC 0.033MF	10% 50V	C348	1-131-368-00	TANTALUM 3.3MF	20% 16V
C035	1-161-021-00	CERAMIC 0.047MF	10% 25V	C349	1-131-347-00	TANTALUM 1MF	20% 35V
C036	1-161-021-00	CERAMIC 0.047MF	10% 25V	C350	1-123-294-00	ELECT 47MF	20% 6.3V
C037	1-161-005-00	CERAMIC 0.0022MF	10% 25V	C351	1-123-612-00	ELECT 2.2MF	20% 50V
C038	1-123-616-00	ELECT 4.7MF	20% 25V	C353	1-161-013-00	CERAMIC 0.01MF	10% 25V
C039	1-161-057-00	CERAMIC 0.033MF	10% 50V	C354	1-102-824-00	CERAMIC 430PF	5% 50V
C040	1-161-057-00	CERAMIC 0.033MF	10% 50V	C355	1-161-013-00	CERAMIC 0.01MF	10% 25V
C041	1-123-611-00	ELECT 1MF	20% 50V	C356	1-123-611-00	ELECT 1MF	20% 50V
C042	1-161-772-11	CERAMIC 0.1MF	10% 25V	C361	1-123-616-00	ELECT 4.7MF	20% 25V
C043	1-161-025-00	CERAMIC 0.1MF	10% 25V	C362	1-123-616-00	ELECT 4.7MF	20% 25V
C044	1-161-005-00	CERAMIC 0.0022MF	10% 25V	C370	1-161-021-00	CERAMIC 0.047MF	10% 25V
C045	1-161-005-00	CERAMIC 0.0022MF	10% 25V	C371	1-161-021-00	CERAMIC 0.047MF	10% 25V
C301	1-161-021-00	CERAMIC 0.047MF	10% 25V	C372	1-130-486-51	MYLAR 0.018MF	5% 50V
C302	1-130-491-51	MYLAR 0.047MF	5% 50V	C373	1-123-616-00	ELECT 4.7MF	20% 25V
C303	1-130-491-51	MYLAR 0.047MF	5% 50V	C374	1-161-021-00	CERAMIC 0.047MF	10% 25V
C304	1-123-613-00	ELECT 3.3MF	20% 50V	C401	1-123-021-00	ELECT 0.47MF	30% 50V
C305	1-123-613-00	ELECT 3.3MF	20% 50V	C402	1-123-616-00	ELECT 4.7MF	20% 25V
C306	1-123-613-00	ELECT 3.3MF	20% 50V	C403	1-101-888-00	CERAMIC 68PF	5% 50V
C307	1-130-483-51	MYLAR 0.01MF	5% 50V	C601	1-123-612-00	ELECT 2.2MF	20% 50V
C308	1-161-013-00	CERAMIC 0.01MF	10% 25V	C603	1-101-880-00	CERAMIC 47PF	5% 50V
C309	1-130-483-51	MYLAR 0.01MF	5% 50V	C604	1-101-880-00	CERAMIC 47PF	5% 50V
C310	1-123-296-00	ELECT 220MF	20% 6.3V	C605	1-123-617-00	ELECT 10MF	20% 16V
C311	1-161-021-00	CERAMIC 0.047MF	10% 25V	C606	1-123-617-00	ELECT 10MF	20% 16V
C312	1-161-017-00	CERAMIC 0.022MF	10% 25V	C607	1-123-610-00	ELECT 0.47MF	20% 50V
C317	1-123-611-00	ELECT 1MF	20% 50V	C608	1-123-617-00	ELECT 10MF	20% 16V
C318	1-123-618-00	ELECT 22MF	20% 6.3V	C609	1-101-884-00	CERAMIC 56PF	5% 50V
C319	1-123-333-00	ELECT 100MF	20% 16V	C610	1-161-021-00	CERAMIC 0.047MF	10% 25V
C321	1-123-318-00	ELECT 33MF	20% 16V	C611	1-161-021-00	CERAMIC 0.047MF	10% 25V
C322	1-123-318-00	ELECT 33MF	20% 16V	C612	1-161-021-00	CERAMIC 0.047MF	10% 25V
C323	1-161-021-00	CERAMIC 0.047MF	10% 25V	C613	1-161-021-00	CERAMIC 0.047MF	10% 25V
C325	1-130-483-51	MYLAR 0.01MF	5% 50V	C614	1-161-021-00	CERAMIC 0.047MF	10% 25V
C326	1-123-306-00	ELECT 47MF	20% 10V	C615	1-161-021-00	CERAMIC 0.047MF	10% 25V
C327	1-123-612-00	ELECT 2.2MF	20% 50V	C616	1-161-021-00	CERAMIC 0.047MF	10% 25V
C328	1-131-404-00	ELECT (SOLID) 0.22MF	10% 25V	C617	1-161-021-00	CERAMIC 0.047MF	10% 25V
C330	1-123-617-00	ELECT 10MF	20% 16V	C618	1-161-021-00	CERAMIC 0.047MF	10% 25V
C331	1-161-017-00	CERAMIC 0.022MF	10% 25V	C619	1-123-306-00	ELECT 47MF	20% 10V
C332	1-161-016-00	CERAMIC 0.018MF	10% 25V	C620	1-123-318-00	ELECT 33MF	20% 16V

NOTE:

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

Les composants identifiés par une trame et une marque **A** 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.

- * All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- * MF : μ F, PF : μ PF
- * RESISTORS
- * All resistors are in ohms
- * F : nonflammable
- * COILS
- * MMH : mH, UH : μ H
- * =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- * Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SS-10A BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C621	1-123-318-00	ELECT 33MF	20% 16V	CP011	1-232-062-00	COMPOSITION CIRCUIT BLOCK	
C622	1-161-023-00	CERAMIC 0.068MF	10% 25V	CP012	1-232-069-00	COMPOSITION CIRCUIT BLOCK	
C630	1-161-021-00	CERAMIC 0.047MF	10% 25V	CP013	1-232-063-00	COMPOSITION CIRCUIT BLOCK	
C640	1-161-017-00	CERAMIC 0.022MF	10% 25V	CP014	1-232-059-00	COMPOSITION CIRCUIT BLOCK	
				CP015	1-232-064-00	COMPOSITION CIRCUIT BLOCK	
CONNECTOR				CP016	1-232-169-00	COMPOSITION CIRCUIT BLOCK	
CN001▲	1-560-466-00	PIN, CONNECTOR 3P		CP017	1-232-169-00	COMPOSITION CIRCUIT BLOCK	
CN002▲	1-560-466-00	PIN, CONNECTOR 3P		CP018	1-232-066-00	COMPOSITION CIRCUIT BLOCK	
CN003▲	1-560-469-00	PIN, CONNECTOR 6P		CP019	1-232-067-00	COMPOSITION CIRCUIT BLOCK	
CN301▲	1-560-467-00	PIN, CONNECTOR 4P		CP020	1-232-059-00	COMPOSITION CIRCUIT BLOCK	
CN302▲	1-560-466-00	PIN, CONNECTOR 3P		CP021	1-232-068-00	COMPOSITION CIRCUIT BLOCK	
CN303▲	1-560-467-00	PIN, CONNECTOR 4P		CP022	1-232-062-00	COMPOSITION CIRCUIT BLOCK	
CN304▲	1-560-456-00	PIN, CONNECTOR 2P		CP023	1-232-061-00	COMPOSITION CIRCUIT BLOCK	
CN305▲	1-560-467-00	PIN, CONNECTOR 4P		CP024	1-232-061-00	COMPOSITION CIRCUIT BLOCK	
CN306▲	1-560-466-00	PIN, CONNECTOR 3P		CP025	1-232-069-00	COMPOSITION CIRCUIT BLOCK	
CN307▲	1-560-467-00	PIN, CONNECTOR 4P		CP026	1-232-139-00	COMPOSITION CIRCUIT BLOCK	
CN308▲	1-560-472-00	PIN, CONNECTOR 12P		CP027	1-232-142-00	COMPOSITION CIRCUIT BLOCK	
CN309▲	1-560-456-00	PIN, CONNECTOR 2P		CP028	1-232-143-00	COMPOSITION CIRCUIT BLOCK	
CN310▲	1-560-460-00	PIN, CONNECTOR 4P		CP030	1-232-144-00	COMPOSITION CIRCUIT BLOCK	
CN601▲	1-560-468-00	PIN, CONNECTOR 5P		CP031	1-232-218-00	COMPOSITION CIRCUIT BLOCK	
CN602▲	1-560-470-00	PIN, CONNECTOR 8P		CP032	1-232-146-00	COMPOSITION CIRCUIT BLOCK	
CN603▲	1-560-470-00	PIN, CONNECTOR 8P		CP033	1-232-147-00	COMPOSITION CIRCUIT BLOCK	
CN604▲	1-560-470-00	PIN, CONNECTOR 8P		CP301	1-232-136-00	COMPOSITION CIRCUIT BLOCK	
CN608▲	1-560-467-00	PIN, CONNECTOR 4P		CP303	1-232-137-00	COMPOSITION CIRCUIT BLOCK	
CN609▲	1-560-468-00	PIN, CONNECTOR 5P		CP304	1-232-138-00	COMPOSITION CIRCUIT BLOCK	
CN610▲	1-560-469-00	PIN, CONNECTOR 6P		CP312	1-232-140-00	COMPOSITION CIRCUIT BLOCK	
CN611▲	1-560-470-00	PIN, CONNECTOR 8P		CP313	1-232-141-00	COMPOSITION CIRCUIT BLOCK	
CN612▲	1-560-467-00	PIN, CONNECTOR 4P		CP315	1-232-151-00	COMPOSITION CIRCUIT BLOCK	
CN613▲	1-560-470-00	PIN, CONNECTOR 8P		CP316	1-232-151-00	COMPOSITION CIRCUIT BLOCK	
CN614▲	1-560-471-00	PIN, CONNECTOR 10P		CP317	1-232-079-00	COMPOSITION CIRCUIT BLOCK	
CN615▲	1-560-467-00	PIN, CONNECTOR 4P		CP318	1-232-071-00	COMPOSITION CIRCUIT BLOCK	
CN616▲	1-560-467-00	PIN, CONNECTOR 4P		CP319	1-232-148-00	COMPOSITION CIRCUIT BLOCK	
CN617▲	1-560-467-00	PIN, CONNECTOR 4P		CP322	1-232-152-00	COMPOSITION CIRCUIT BLOCK	
CN618▲	1-560-467-00	PIN, CONNECTOR 4P		CP323	1-232-148-00	COMPOSITION CIRCUIT BLOCK	
CN619▲	1-560-467-00	PIN, CONNECTOR 4P		CP324	1-232-150-00	COMPOSITION CIRCUIT BLOCK	
CN620▲	1-560-468-00	PIN, CONNECTOR 5P		CP326	1-232-152-00	COMPOSITION CIRCUIT BLOCK	
CN621▲	1-560-471-00	PIN, CONNECTOR 10P		CP328	1-232-126-00	COMPOSITION CIRCUIT BLOCK	
CN622▲	1-560-471-00	PIN, CONNECTOR 10P		CP329	1-232-150-00	COMPOSITION CIRCUIT BLOCK	
CN623▲	1-560-469-00	PIN, CONNECTOR 6P		CP335	1-232-149-00	COMPOSITION CIRCUIT BLOCK	
CN624▲	1-560-470-00	PIN, CONNECTOR 8P		CP601	1-232-158-00	COMPOSITION CIRCUIT BLOCK	
CN625▲	1-560-472-00	PIN, CONNECTOR 12P		CP602	1-232-158-00	COMPOSITION CIRCUIT BLOCK	
CN626▲	1-560-471-00	PIN, CONNECTOR 10P		CP605	1-232-157-00	COMPOSITION CIRCUIT BLOCK	
CN627▲	1-560-470-00	PIN, CONNECTOR 8P		CP606	1-232-159-00	COMPOSITION CIRCUIT BLOCK	
COMPOSITION CIRCUIT BLOCK				CP607	1-232-159-00	COMPOSITION CIRCUIT BLOCK	
CP001	1-232-055-00	COMPOSITION CIRCUIT BLOCK		CP609	1-232-154-00	COMPOSITION CIRCUIT BLOCK	
CP004	1-232-057-00	COMPOSITION CIRCUIT BLOCK		CP610	1-232-155-00	COMPOSITION CIRCUIT BLOCK	
CP005	1-232-058-00	COMPOSITION CIRCUIT BLOCK		CP612	1-232-156-00	COMPOSITION CIRCUIT BLOCK	
CP006	1-232-059-00	COMPOSITION CIRCUIT BLOCK		CP613	1-232-163-00	COMPOSITION CIRCUIT BLOCK	
CP007	1-232-060-00	COMPOSITION CIRCUIT BLOCK		CP614	1-232-163-00	COMPOSITION CIRCUIT BLOCK	
CP008	1-232-060-00	COMPOSITION CIRCUIT BLOCK		CP615	1-232-163-00	COMPOSITION CIRCUIT BLOCK	
CP009	1-232-061-00	COMPOSITION CIRCUIT BLOCK		DIODE			
CP010	1-232-061-00	COMPOSITION CIRCUIT BLOCK		D001	8-719-911-06	DIODE 1SS106	

NOTE: 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.

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

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, μ H : μ H

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SS-10A BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
D002	8-719-911-06	DIODE 1SS106		IC309	8-741-103-90	IC BX-1039	
D003	8-719-911-19	DIODE 1SS119		IC310	8-743-981-00	IC BX-3981	
D008	8-719-911-19	DIODE 1SS119		IC311	8-741-103-80	IC BX-1038	
D009	8-719-982-04	DIODE ER881-004		IC312	8-759-250-26	IC TC50268P	
D010	8-719-911-19	DIODE 1SS119		IC313	8-759-240-51	IC TC40518P	
D012	8-719-911-19	DIODE 1SS119		IC314	8-741-013-10	IC BX-1013-1	
D013	8-719-982-04	DIODE ER881-004		IC601	8-759-985-27	IC MB8845-527	
D014	8-719-911-19	DIODE 1SS119		IC602	8-759-985-28	IC MB8845-528	
D015	8-719-911-19	DIODE 1SS119		IC603	8-759-900-45	IC MB8845-549	
D301	8-719-911-06	DIODE 1SS106		IC604	8-759-133-90	IC UPC339C	
D302	8-719-911-19	DIODE 1SS119		IC605	8-759-220-04	IC TC40H004P	
D303	8-719-982-04	DIODE ER881-004		IC606	8-759-240-69	IC TC4069UBP	
D304	8-719-113-07	DIODE RD13E-B		IC607=>	8-759-240-13	IC TC40138P	
D305	8-719-911-06	DIODE 1SS106		IC608	8-759-987-47	IC MB8747	
D306	8-719-911-19	DIODE 1SS119		IC609	8-759-987-47	IC MB8747	
D307	8-719-911-19	DIODE 1SS119		IC610	8-743-988-00	IC BX-3988	
D308	8-719-911-06	DIODE 1SS106		IC611	8-759-900-04	IC SN74LS04N	
D309	8-719-911-19	DIODE 1SS119		IC612	8-741-101-60	IC BX-1016	
D310	8-719-911-19	DIODE 1SS119					
D311	8-719-911-19	DIODE 1SS119					
D312	8-719-911-19	DIODE 1SS119					
D313	8-719-911-19	DIODE 1SS119					
D314	8-719-911-19	DIODE 1SS119					
D315	8-719-911-19	DIODE 1SS119					
D316	8-719-911-19	DIODE 1SS119					
D317	8-719-911-19	DIODE 1SS119					
D318	8-719-911-19	DIODE 1SS119					
D401	8-719-911-19	DIODE 1SS119					
D603 =>	8-719-901-33	DIODE 1SS133					
D604	8-719-911-06	DIODE 1SS106					
D612	8-719-911-06	DIODE 1SS106					
<u>FUSE</u>				<u>COIL</u>			
F601	1-532-625-00	FUSE, GLASS TUBE 1.25A 125V		L001	1-408-519-00	COIL, CHOKE 42UH	
F602	1-532-624-00	FUSE, GLASS TUBE 0.5A 125V		L002	1-408-519-00	COIL, CHOKE 42UH	
F603	1-532-595-00	FUSE, GLASS TUBE 3.15A 125V		L003	1-408-519-00	COIL, CHOKE 42UH	
F604	1-532-605-00	FUSE, ELECTRIC CURRENT		L301	1-408-518-00	COIL, CHOKE 1MMH	
				L302	1-459-232-00	COIL, CORE 90UH	
				L601	1-408-409-00	MICRO INDUCTOR 10UH	
				L602	1-408-409-00	MICRO INDUCTOR 10UH	
				<u>TRANSISTOR</u>			
				Q001	8-729-117-54	TRANSISTOR 2SA1175	
				Q002	8-729-178-54	TRANSISTOR 2SC2785	
				Q003	8-729-178-54	TRANSISTOR 2SC2785	
				Q004	8-729-178-54	TRANSISTOR 2SC2785	
				Q006	8-729-178-54	TRANSISTOR 2SC2785	
				Q007	8-729-178-54	TRANSISTOR 2SC2785	
				Q008	8-729-117-54	TRANSISTOR 2SA1175	
				Q009	8-729-178-54	TRANSISTOR 2SC2785	
				Q010	8-729-178-54	TRANSISTOR 2SC2785	
				Q011	8-729-178-54	TRANSISTOR 2SC2785	
				Q012	8-729-178-54	TRANSISTOR 2SC2785	
				Q013	8-729-178-54	TRANSISTOR 2SC2785	
				Q014	8-729-178-54	TRANSISTOR 2SC2785	
				Q015	8-729-178-54	TRANSISTOR 2SC2785	
				Q016	8-729-117-54	TRANSISTOR 2SA1175	
				Q017	8-729-113-33	TRANSISTOR 2SB733	
				Q018	8-729-113-33	TRANSISTOR 2SB733	
				Q019	8-729-178-54	TRANSISTOR 2SC2785	
				Q020	8-729-178-54	TRANSISTOR 2SC2785	
				Q021	8-729-178-54	TRANSISTOR 2SC2785	
				Q022	8-729-178-54	TRANSISTOR 2SC2785	
				Q023	8-729-178-54	TRANSISTOR 2SC2785	
				Q024	8-729-117-54	TRANSISTOR 2SA1175	
				Q025	8-729-113-33	TRANSISTOR 2SB733	

NOTE:

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

Les composants identifiés par une trame et une marque **A** 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, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " & " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
* MF : μ F, PF : μ PF

RESISTORS
* All resistors are in ohms
* F : nonflammable

COILS
* MMH : mH, UH : μ H

SS-10A BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
Q026	8-729-113-33	TRANSISTOR 2SB733		R020	1-246-799-00	CARBON 22K	1/8W
Q027	8-729-178-54	TRANSISTOR 2SC2785		R021	1-246-803-00	CARBON 47K	1/8W
Q028	8-729-178-54	TRANSISTOR 2SC2785		R022	1-246-794-00	CARBON 8.2K	1/8W
Q029	8-729-178-54	TRANSISTOR 2SC2785		R023	1-246-785-00	CARBON 1.5K	1/8W
Q030	8-729-117-54	TRANSISTOR 2SA1175		R030	1-246-803-00	CARBON 47K	1/8W
Q301	8-729-178-54	TRANSISTOR 2SC2785		R031	1-246-791-00	CARBON 4.7K	1/8W
Q302	8-729-177-32	TRANSISTOR 2S0773		R032	1-246-803-00	CARBON 47K	1/8W
Q303	8-729-117-54	TRANSISTOR 2SA1175		R035	1-246-803-00	CARBON 47K	1/8W
Q304	=>8-729-113-33	TRANSISTOR 2SB733-U2		R037	1-246-783-00	CARBON 1K	1/8W
Q305	8-729-178-54	TRANSISTOR 2SC2785		R038	1-246-799-00	CARBON 22K	1/8W
Q307	8-729-178-54	TRANSISTOR 2SC2785		R041	1-246-799-00	CARBON 22K	1/8W
Q308	8-729-178-54	TRANSISTOR 2SC2785		R042	1-246-799-00	CARBON 22K	1/8W
Q309	8-729-117-54	TRANSISTOR 2SA1175		R043	1-246-795-00	CARBON 10K	1/8W
Q310	8-729-178-54	TRANSISTOR 2SC2785		R044	1-246-803-00	CARBON 47K	1/8W
Q311	8-729-178-54	TRANSISTOR 2SC2785		R045	1-246-449-00	CARBON 100 5%	1/4W
Q314	8-729-178-54	TRANSISTOR 2SC2785		R046	1-246-457-00	CARBON 220 5%	1/4W
Q315	8-729-178-54	TRANSISTOR 2SC2785		R055	1-244-861-00	CARBON 330 5%	1/2W
Q317	8-729-178-54	TRANSISTOR 2SC2785		R056	1-246-783-00	CARBON 1K	1/8W
Q318	8-729-117-54	TRANSISTOR 2SA1175		R057	△ 1-217-612-00	WIREWOUND 0.1	2W F
Q320	8-729-178-54	TRANSISTOR 2SC2785		R058	1-246-801-00	CARBON 33K	1/8W
Q321	8-729-117-54	TRANSISTOR 2SA1175		R060	1-246-860-00	CARBON 24K	1/8W
Q322	8-729-117-54	TRANSISTOR 2SA1175		R064	1-247-049-00	CARBON 470K	1/8W
Q324	8-729-178-54	TRANSISTOR 2SC2785		R068	1-246-795-00	CARBON 10K	1/8W
Q325	8-729-178-54	TRANSISTOR 2SC2785		R071	1-247-057-00	CARBON 430K	1/8W
Q326	8-729-117-54	TRANSISTOR 2SA1175		R073	1-246-795-00	CARBON 10K	1/8W
Q327	8-729-178-54	TRANSISTOR 2SC2785		R080	1-246-783-00	CARBON 1K	1/8W
Q328	8-729-178-54	TRANSISTOR 2SC2785		R081	1-246-807-00	CARBON 100K	1/8W
Q401	8-729-178-54	TRANSISTOR 2SC2785		R082	1-247-049-00	CARBON 470K	1/8W
Q601	8-729-178-54	TRANSISTOR 2SC2785		R083	1-246-791-00	CARBON 4.7K	1/8W
Q602	8-729-178-54	TRANSISTOR 2SC2785		R084	1-246-791-00	CARBON 4.7K	1/8W
Q603	8-729-178-54	TRANSISTOR 2SC2785		R085	1-246-799-00	CARBON 22K	1/8W
Q604	8-729-113-33	TRANSISTOR 2SB733		R089	1-246-795-00	CARBON 10K	1/8W
Q605	8-729-178-54	TRANSISTOR 2SC2785		R090	1-247-049-00	CARBON 470K	1/8W
Q606	8-729-178-54	TRANSISTOR 2SC2785		R091	1-246-807-00	CARBON 100K	1/8W
Q607	8-729-178-54	TRANSISTOR 2SC2785		R093	1-246-803-00	CARBON 47K	1/8W
Q613	8-729-178-54	TRANSISTOR 2SC2785		R094	1-246-795-00	CARBON 10K	1/8W
Q614	8-729-178-54	TRANSISTOR 2SC2785		R095	1-246-449-00	CARBON 100 5%	1/4W
Q615	8-729-178-54	TRANSISTOR 2SC2785		R096	1-246-457-00	CARBON 220 5%	1/4W
Q616	8-729-178-54	TRANSISTOR 2SC2785		R103	1-244-861-00	CARBON 330 5%	1/2W
Q617	8-729-178-54	TRANSISTOR 2SC2785		R106	1-246-783-00	CARBON 1K	1/8W
Q618	8-729-178-54	TRANSISTOR 2SC2785		R108	1-246-803-00	CARBON 47K	1/8W
Q620	8-729-178-54	TRANSISTOR 2SC2785		R110	1-246-811-00	CARBON 220K	1/8W
Q621	8-729-178-54	TRANSISTOR 2SC2785		R111	1-246-803-00	CARBON 47K	1/8W
Q624	8-729-117-54	TRANSISTOR 2SA1175		R113	1-246-803-00	CARBON 47K	1/8W
Q625	8-729-117-54	TRANSISTOR 2SA1175		R114	1-246-803-00	CARBON 47K	1/8W
Q626	8-729-117-54	TRANSISTOR 2SA1175		R115	1-246-801-00	CARBON 33K	1/8W
Q640	8-729-178-54	TRANSISTOR 2SC2785		R116	1-246-847-00	CARBON 2K	1/8W
				R117	1-246-799-00	CARBON 22K	1/8W
				R118	1-246-799-00	CARBON 22K	1/8W
				R301	1-246-799-00	CARBON 22K	1/8W
				R302	1-246-793-00	CARBON 6.8K	1/8W
				R303	1-246-797-00	CARBON 15K	1/8W
				R304	1-246-795-00	CARBON 10K	1/8W

RESISTOR

R011	1-246-803-00	CARBON	47K	1/8W
R014	1-247-055-00	CARBON	300K	1/8W
R017	1-246-803-00	CARBON	47K	1/8W
R018	1-246-859-00	CARBON	20K	1/8W

NOTE:

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.

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

* =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

* Items marked "F" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

* MF : μF , PF : $\mu\mu\text{F}$

RESISTORS

* All resistors are in ohms
* F : nonflammable

COILS

* MMH : mH, UH : μH

Ref.No	Part No	Description		Remark	Ref.No	Part No	Description		Remark
R310	1-246-795-00	CARBON	10K	1/8W	R399	1-246-837-00	CARBON	300	1/8W
R311	1-246-795-00	CARBON	10K	1/8W	R400	1-246-798-00	CARBON	18K	1/8W
R315	1-246-791-00	CARBON	4.7K	1/8W	R401	1-246-779-00	CARBON	470	1/8W
R316	1-246-805-00	CARBON	68K	1/8W	R404	1-246-801-00	CARBON	33K	1/8W
R317	1-246-803-00	CARBON	47K	1/8W	R407	1-246-803-00	CARBON	47K	1/8W
R318	1-246-852-00	CARBON	5.1K	1/8W	R411	1-246-803-00	CARBON	47K	1/8W
R321	1-246-783-00	CARBON	1K	1/8W	R412	1-246-795-00	CARBON	10K	1/8W
R322	1-212-356-00	METAL	0.47	5% F	R414	1-246-783-00	CARBON	1K	1/8W
R323	1-246-799-00	CARBON	22K	1/8W	R415	1-246-803-00	CARBON	47K	1/8W
R327	1-246-797-00	CARBON	15K	1/8W	R415	1-246-799-00	CARBON	22K	1/8W
R330	1-246-788-00	CARBON	2.7K	1/8W	R451	1-247-047-00	CARBON	330K	1/8W
R331	1-246-809-00	CARBON	150K	1/8W	R452	1-246-797-00	CARBON	15K	1/8W
R334	1-246-801-00	CARBON	33K	1/8W	R453	1-247-054-00	CARBON	240K	1/8W
R337	1-246-801-00	CARBON	33K	1/8W	R460	1-246-795-00	CARBON	10K	1/8W
R338	1-246-809-00	CARBON	150K	1/8W	R468	1-246-791-00	CARBON	4.7K	1/8W
R339	1-246-810-00	CARBON	180K	1/8W	R473	1-246-803-00	CARBON	47K	1/8W
R340	1-246-788-00	CARBON	2.7K	1/8W	R474	1-246-787-00	CARBON	2.2K	1/8W
R342	1-246-801-00	CARBON	33K	1/8W	R479	1-246-807-00	CARBON	100K	1/8W
R344	1-246-801-00	CARBON	33K	1/8W	R480	1-246-805-00	CARBON	68K	1/8W
R345	1-246-801-00	CARBON	33K	1/8W	R481	1-246-805-00	CARBON	68K	1/8W
R346	1-246-807-00	CARBON	100K	1/8W	R482	1-246-805-00	CARBON	68K	1/8W
R347	1-246-806-00	CARBON	82K	1/8W	R483	1-246-801-00	CARBON	33K	1/8W
R348	1-246-801-00	CARBON	33K	1/8W	R484	1-246-791-00	CARBON	4.7K	1/8W
R353	1-246-769-00	CARBON	68	1/8W	R487	1-246-795-00	CARBON	10K	1/8W
R354	1-246-795-00	CARBON	10K	1/8W	R488	1-246-800-00	CARBON	27K	1/8W
R355	1-246-795-00	CARBON	10K	1/8W	R489	1-246-845-00	CARBON	1.3K	1/8W
R358	1-246-795-00	CARBON	10K	1/8W	R490	1-246-845-00	CARBON	1.3K	1/8W
R363	1-246-809-00	CARBON	150K	1/8W	R491	1-246-845-00	CARBON	1.3K	1/8W
R364	1-246-801-00	CARBON	33K	1/8W	R492	1-246-797-00	CARBON	15K	1/8W
R365	1-246-866-00	CARBON	75K	1/8W	R495	1-246-444-00	CARBON	62	5%
R366	1-246-859-00	CARBON	20K	1/8W	R496	1-246-779-00	CARBON	470	1/8W
R367	1-246-799-00	CARBON	22K	1/8W	R498	1-246-803-00	CARBON	47K	1/8W
R368	1-246-804-00	CARBON	56K	1/8W	R499	1-246-791-00	CARBON	4.7K	1/8W
R369	1-246-800-00	CARBON	27K	1/8W	R501	1-246-850-00	CARBON	3.6K	1/8W
R370	1-246-802-00	CARBON	39K	1/8W	R502	1-246-852-00	CARBON	5.1K	1/8W
R371	1-246-795-00	CARBON	10K	1/8W	R503	1-246-759-00	CARBON	10	1/8W
R373	1-246-783-00	CARBON	1K	1/8W	R601	1-246-799-00	CARBON	22K	1/8W
R374	1-246-804-00	CARBON	56K	1/8W	R602	1-246-807-00	CARBON	100K	1/8W
R375	1-246-795-00	CARBON	10K	1/8W	R603	1-246-799-00	CARBON	22K	1/8W
R376	1-246-795-00	CARBON	10K	1/8W	R605	1-246-807-00	CARBON	100K	1/8W
R377	1-246-795-00	CARBON	10K	1/8W	R606	1-246-803-00	CARBON	47K	1/8W
R378	1-246-799-00	CARBON	22K	1/8W	R607	1-246-791-00	CARBON	4.7K	1/8W
R381	1-246-783-00	CARBON	1K	1/8W	R608	1-246-807-00	CARBON	100K	1/8W
R382	1-246-795-00	CARBON	10K	1/8W	R609	1-246-469-00	CARBON	680	5%
R383	1-246-803-00	CARBON	47K	1/8W	R610	1-246-803-00	CARBON	47K	1/8W
R387	1-246-795-00	CARBON	10K	1/8W	R511	1-246-807-00	CARBON	100K	1/8W
R390	1-246-851-00	CARBON	4.3K	1/8W	R612	1-246-807-00	CARBON	100K	1/8W
R391	1-246-803-00	CARBON	47K	1/8W	R613	1-246-803-00	CARBON	47K	1/8W
R392	1-246-799-00	CARBON	22K	1/8W	R615	1-246-783-00	CARBON	1K	1/8W
R393	1-246-799-00	CARBON	22K	1/8W	R616	1-246-859-00	CARBON	20K	1/8W
R394	1-246-795-00	CARBON	10K	1/8W	R617	1-246-795-00	CARBON	10K	1/8W
R396	1-246-810-00	CARBON	180K	1/8W	R618	1-246-791-00	CARBON	4.7K	1/8W
R397	1-246-801-00	CARBON	33K	1/8W	R627	1-246-791-00	CARBON	4.7K	1/8W

NOTE:

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.

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

* ->: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

* Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
* MF : μ F, PF : $\mu\mu$ F

RESISTORS
* All resistors are in ohms
* F : nonflammable

COILS
* MMH : mH, UH : μ H

SS-10A BOARD

FU-3 BOARD

Ref.No	Part No	Description	Remark
R628	1-246-791-00	CARBON 4.7K	1/8W
R629	1-246-791-00	CARBON 4.7K	1/8W
R630	1-246-791-00	CARBON 4.7K	1/8W
R631	1-246-791-00	CARBON 4.7K	1/8W
R632	1-246-791-00	CARBON 4.7K	1/8W
R633	1-246-801-00	CARBON 33K	1/8W
R633	1-246-803-00	CARBON 47K	1/8W
R634	1-246-803-00	CARBON 47K	1/8W
R635	1-246-803-00	CARBON 47K	1/8W
R640	1-247-049-00	CARBON 470K	1/8W
R645	1-246-795-00	CARBON 10K	1/8W
R648	1-246-791-00	CARBON 4.7K	1/8W
R649	1-246-791-00	CARBON 4.7K	1/8W
R650	1-246-791-00	CARBON 4.7K	1/8W
R660	1-246-803-00	CARBON 47K	1/8W
R690	1-246-783-00	CARBON 1K	1/8W
R691	1-246-803-00	CARBON 47K	1/8W
R693	1-246-783-00	CARBON 1K	1/8W
R694	1-246-795-00	CARBON 10K	1/8W
R695	1-246-795-00	CARBON 10K	1/8W
R699	1-246-807-00	CARBON 100K	1/8W
R703	1-246-751-00	CARBON 2.2	1/8W

VARIABLE RESISTOR

RV001	1-226-774-00	RES, ADJ, METAL GLAZE 47K
RV002	1-226-773-00	RES, ADJ, METAL GLAZE 22K
RV301	1-226-753-00	RES, ADJ, SOLID 47K
RV302	1-224-254-XX	RES, ADJ, METAL GLAZE 47K
RV303	1-226-771-00	RES, ADJ, METAL GLAZE 1K
RV304	1-226-753-00	RES, ADJ, SOLID 47K
RV305	1-226-753-00	RES, ADJ, SOLID 47K
RV306	1-226-774-00	RES, ADJ, METAL GLAZE 47K
RV307	1-226-703-00	RES, ADJ, METAL GLAZE 10K
RV308	1-226-703-00	RES, ADJ, METAL GLAZE 10K
RV309	1-226-703-00	RES, ADJ, METAL GLAZE 10K
RV310	1-226-703-00	RES, ADJ, METAL GLAZE 10K
RV314	1-226-753-00	RES, ADJ, SOLID 47K
RV315	1-226-701-00	RES, ADJ, METAL GLAZE 220
RV316	1-226-701-00	RES, ADJ, METAL GLAZE 220
RV317	1-226-753-00	RES, ADJ, SOLID 47K

THERMISTOR

TH001	1-800-200-00	THERMISTOR S-3K
TH301	1-800-200-00	THERMISTOR S-3K

CRYSTAL

X601	1-527-726-00	VIBRATOR, CRYSTAL
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Ref.No	Part No	Description	Remark
◆:A-6717-225-A	FU-3 BOARD, COMPLETE	*****	
◆:3-670-094-02	HOLDER, LED, 6 GANG		
◆:3-670-095-00	HOLDER, LED		
◆:3-674-312-00	COVER, 3 GANG LED		
◆:3-674-313-00	COVER, LED		
◆:3-674-314-00	PROTECTOR (A)		
◆:3-674-315-00	PROTECTOR (B)		
◆:3-674-316-00	RETAINER, HARNESS		

CAPACITOR

C001	1-161-013-00	CERAMIC 0.01MF	10% 25V
C002	1-123-617-00	ELECT 10MF	20% 16V
C003	1-161-321-00	CERAMIC 680PF	10% 50V

DIODE

0001	8-719-812-30	DIODE TL0123
0002	8-719-914-02	DIODE BR3402S
0003	8-719-914-33	DIODE PG3432SY
0004	8-719-812-32	DIODE TLY123
0005	8-719-812-32	DIODE TLY123
0006	8-719-812-32	DIODE TLY123
0008	8-719-914-02	DIODE BR3402S
0009	8-719-932-22	DIODE GL-9NG922B
0010	8-719-932-22	DIODE GL-9NG922B
0011	8-719-932-22	DIODE GL-9NG922B
0012	8-719-932-22	DIODE GL-9NG922B
0013	8-719-932-22	DIODE GL-9NG922B
0014	8-719-932-22	DIODE GL-9NG922B
0015	8-719-914-33	DIODE PG3432SY
0016	8-719-914-33	DIODE PG3432SY
0017	8-719-914-33	DIODE PG3432SY
0018	8-719-914-33	DIODE PG3432SY
0019	8-719-914-33	DIODE PG3432SY
0020	8-719-914-33	DIODE PG3432SY
0021	8-719-914-33	DIODE PG3432SY
0022	8-719-914-33	DIODE PG3432SY
0023	8-719-914-33	DIODE PG3432SY
0024	8-719-812-32	DIODE TLY123
0026	8-719-812-32	DIODE TLY123
0027	8-719-812-32	DIODE TLY123
0028	8-719-812-32	DIODE TLY123
0029	8-719-911-06	DIODE 1SS106
0030	8-719-911-06	DIODE 1SS106
0031	8-719-911-06	DIODE 1SS106

IC

IC001	8-759-987-58	IC MB8758
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TRANSISTOR

Q001	8-729-178-54	TRANSISTOR 2SC2785
Q002	8-729-178-54	TRANSISTOR 2SC2785

NOTE:

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.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

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

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- Items marked "◆" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS

- MF : μ F, PF : μ μ F

RESISTORS

- All resistors are in ohms
- F : nonflammable

COILS

- MMH : mH, μ H : μ H

FU-3 BOARD

MB-3 BOARD

RR-1A BOARD

Ref.No	Part No	Description	Remark
Q003	8-729-178-54	TRANSISTOR 2SC2785	
Q004	8-729-178-54	TRANSISTOR 2SC2785	
Q005	8-729-178-54	TRANSISTOR 2SC2785	
Q006	8-729-178-54	TRANSISTOR 2SC2785	
Q007	8-729-178-54	TRANSISTOR 2SC2785	
Q008	8-729-178-54	TRANSISTOR 2SC2785	
<u>RESISTOR</u>			
R001	1-246-776-00	CARBON 270	1/8W
R002	1-246-776-00	CARBON 270	1/8W
R003	1-246-773-00	CARBON 150	1/8W
R005	1-246-776-00	CARBON 270	1/8W
R006	1-246-795-00	CARBON 10K	1/8W
R007	1-246-795-00	CARBON 10K	1/8W
R008	1-246-795-00	CARBON 10K	1/8W
R015	1-246-773-00	CARBON 150	1/8W
R016	1-246-773-00	CARBON 150	1/8W
R018	1-246-776-00	CARBON 270	1/8W
R019	1-246-773-00	CARBON 150	1/8W
R020	1-246-773-00	CARBON 150	1/8W
<u>SWITCH</u>			
S001	1-553-766-00	SWITCH, KEY BOARD	
S002	1-553-766-00	SWITCH, KEY BOARD	
S003	1-553-766-00	SWITCH, KEY BOARD	
S004	1-553-766-00	SWITCH, KEY BOARD	
S005	1-553-766-00	SWITCH, KEY BOARD	
S006	1-553-766-00	SWITCH, KEY BOARD	
S007	1-553-766-00	SWITCH, KEY BOARD	
S008	1-553-766-00	SWITCH, KEY BOARD	
S009	1-553-766-00	SWITCH, KEY BOARD	
S010	1-553-766-00	SWITCH, KEY BOARD	
S011	1-553-766-00	SWITCH, KEY BOARD	
S012	1-553-766-00	SWITCH, KEY BOARD	
S013	1-553-766-00	SWITCH, KEY BOARD	
S014	1-553-766-00	SWITCH, KEY BOARD	
S016	1-553-766-00	SWITCH, KEY BOARD	
S017	1-553-766-00	SWITCH, KEY BOARD	
S018	1-553-766-00	SWITCH, KEY BOARD	
S019	1-553-766-00	SWITCH, KEY BOARD	
S020	1-553-766-00	SWITCH, KEY BOARD	
S021	1-553-766-00	SWITCH, KEY BOARD	
S022	1-553-766-00	SWITCH, KEY BOARD	
S023	1-553-766-00	SWITCH, KEY BOARD	

♦:1-606-231-00 MB-3 BOARD

CAPACITOR

C329	1-161-057-00	CERAMIC	0.033MF	10%	50V
C802	1-123-611-00	ELECT	1MF	20%	50V

NOTE:

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

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

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Ref.No	Part No	Description	Remark
<u>DIODE</u>			
D319	8-719-911-19	DIODE 1SS119	
<u>TRANSISTOR</u>			
Q803	8-729-117-54	TRANSISTOR 2SA1175	
<u>RESISTOR</u>			
R395	1-246-804-00	CARBON 56K	1/8W
R805	1-246-807-00	CARBON 100K	1/8W

♦:A-6717-236-A RR-1A BOARD, COMPLETE *****			
3-572-085-00 WASHER, FIBER			
♦:3-670-059-00 BRACKET (RIGHT), RR			
♦:3-670-060-00 BRACKET (LEFT), RR			
♦:3-671-850-00 CASE, SHIELD, RR-1			
3-701-822-00 HOLDER, WIRE			
<u>CAPACITOR</u>			
C001	1-123-613-00	ELECT	3.3MF 20% 50V
C002	1-161-021-00	CERAMIC	0.047MF 10% 25V
C003	1-102-973-00	CERAMIC	100PF 5% 50V
C101	1-161-021-00	CERAMIC	0.047MF 10% 25V
C103	1-102-111-00	CERAMIC	270PF 10% 50V
C104	1-102-824-00	CERAMIC	470PF 5% 50V
C201	1-161-021-00	CERAMIC	0.047MF 10% 25V
C202	1-102-824-00	CERAMIC	470PF 5% 50V
C203	1-102-111-00	CERAMIC	270PF 10% 50V
C205	1-123-617-00	ELECT	10MF 20% 16V
C206	1-123-821-00	ELECT	47MF 20% 16V
C207	1-161-039-00	CERAMIC	0.001MF 10% 25V
C208	1-161-039-00	CERAMIC	0.001MF 10% 25V
C209	1-102-112-00	CERAMIC	330PF 10% 50V
C301	1-123-839-00	ELECT	1000MF 20% 16V
C302	1-123-820-00	ELECT	33MF 20% 16V
C303	1-123-611-00	ELECT	1MF 20% 50V
<u>CONNECTOR</u>			
CN101♦:1-560-463-00 PIN, CONNECTOR 8P			
CN102♦:1-560-469-00 PIN, CONNECTOR 6P			
CN103♦:1-560-464-00 PIN, CONNECTOR 10P			
CN201♦:1-560-466-00 PIN, CONNECTOR 3P			
CN202♦:1-560-467-00 PIN, CONNECTOR 4P			
CN203♦:1-560-470-00 PIN, CONNECTOR 8P			
CN301♦:1-560-471-00 PIN, CONNECTOR 10P			
CN302♦:1-560-456-00 PIN, CONNECTOR 2P			
CN303♦:1-560-470-00 PIN, CONNECTOR 8P			
<u>DIODE</u>			
D001	8-719-911-19	DIODE 1SS119	

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

• => Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS
• MF : μ F, PF : μ pF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

RR-1A BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
D102	8-719-911-19	DIODE 1SS119				<u>RESISTOR</u>	
D201	8-719-100-30	DIODE RD5.1E-B2		R001	1-246-799-00	CARBON 22K	1/8W
D301	8-719-911-19	DIODE 1SS119		R002	1-246-807-00	CARBON 100K	1/8W
D302	8-719-911-19	DIODE 1SS119		R003	1-246-795-00	CARBON 10K	1/8W
D305	8-719-200-02	DIODE 10E-2		R004	1-246-788-00	CARBON 2.7K	1/8W
D306	8-719-200-02	DIODE 10E-2		R005	1-246-795-00	CARBON 10K	1/8W
D307	8-719-200-02	DIODE 10E-2		R006	1-246-805-00	CARBON 68K	1/8W
D308	8-719-200-02	DIODE 10E-2		R101	1-246-854-00	CARBON 7.5K	1/8W
D309	8-719-200-02	DIODE 10E-2		R102	1-246-854-00	CARBON 7.5K	1/8W
D310	8-719-200-02	DIODE 10E-2		R103	1-246-854-00	CARBON 7.5K	1/8W
D311	8-719-200-02	DIODE 10E-2		R104	1-246-854-00	CARBON 7.5K	1/8W
D312	8-719-200-02	DIODE 10E-2		R105	1-246-854-00	CARBON 7.5K	1/8W
D313	8-719-200-02	DIODE 10E-2		R106	1-246-854-00	CARBON 7.5K	1/8W
D314	8-719-200-02	DIODE 10E-2		R114	1-247-049-00	CARBON 470K	1/8W
D315	8-719-200-02	DIODE 10E-2		R115	1-246-795-00	CARBON 10K	1/8W
D316	8-719-200-02	DIODE 10E-2		R118	1-246-795-00	CARBON 10K	1/8W
D317	8-719-911-19	DIODE 1SS119		R119	1-246-807-00	CARBON 100K	1/8W
D318	8-719-911-19	DIODE 1SS119		R120	1-246-807-00	CARBON 100K	1/8W
D319	8-719-200-02	DIODE 10E-2		R130	1-246-773-00	CARBON 150	1/8W
		<u>IC</u>		R131	1-246-773-00	CARBON 150	1/8W
IC001	8-759-103-93	IC UPC393C		R132	1-246-773-00	CARBON 150	1/8W
IC101	8-759-115-18	IC UPD651G-518		R133	1-246-773-00	CARBON 150	1/8W
IC201	8-759-115-17	IC UPD651G-517		R134	1-246-773-00	CARBON 150	1/8W
		<u>TRANSISTOR</u>		R135	1-246-773-00	CARBON 150	1/8W
Q101	8-729-178-54	TRANSISTOR 2SC2785		R201	1-246-781-00	CARBON 680	1/8W
Q102	8-729-178-54	TRANSISTOR 2SC2785		R203	1-246-805-00	CARBON 68K	1/8W
Q103	8-729-178-54	TRANSISTOR 2SC2785		R204	1-246-795-00	CARBON 10K	1/8W
Q104	8-729-178-54	TRANSISTOR 2SC2785		R205	1-247-049-00	CARBON 470K	1/8W
Q105	8-729-178-54	TRANSISTOR 2SC2785		R208	1-246-799-00	CARBON 22K	1/8W
Q106	8-729-178-54	TRANSISTOR 2SC2785		R209	1-246-795-00	CARBON 10K	1/8W
Q108	8-729-178-54	TRANSISTOR 2SC2785		R211	1-246-795-00	CARBON 10K	1/8W
Q203	8-729-178-54	TRANSISTOR 2SC2785		R212	1-246-795-00	CARBON 10K	1/8W
Q204	8-729-178-54	TRANSISTOR 2SC2785		R213	1-246-795-00	CARBON 10K	1/8W
Q301	8-729-177-32	TRANSISTOR 2SD773		R214	1-246-795-00	CARBON 10K	1/8W
Q302	8-729-177-32	TRANSISTOR 2SD773		R215	1-246-795-00	CARBON 10K	1/8W
Q303	8-729-113-32	TRANSISTOR 2SB733		R216	1-246-795-00	CARBON 10K	1/8W
Q304	8-729-113-32	TRANSISTOR 2SB733		R217	1-246-795-00	CARBON 10K	1/8W
Q305	8-729-177-32	TRANSISTOR 2SD773		R218	1-246-807-00	CARBON 100K	1/8W
Q306	8-729-177-32	TRANSISTOR 2SD773		R219	1-246-795-00	CARBON 10K	1/8W
Q307	8-729-113-32	TRANSISTOR 2SB733		R220	1-246-795-00	CARBON 10K	1/8W
Q308	8-729-113-32	TRANSISTOR 2SB733		R223	1-246-795-00	CARBON 10K	1/8W
Q309	8-729-116-42	TRANSISTOR 2SD1164		R224	1-246-795-00	CARBON 10K	1/8W
Q310	8-729-116-42	TRANSISTOR 2SD1164		R225	1-246-807-00	CARBON 100K	1/8W
Q311	8-729-116-42	TRANSISTOR 2SD1164		R226	1-246-795-00	CARBON 10K	1/8W
Q312	8-729-116-42	TRANSISTOR 2SD1164		R227	1-246-789-00	CARBON 3.3K	1/8W
Q313	8-729-178-54	TRANSISTOR 2SC2785		R228	1-246-780-00	CARBON 560	1/8W
Q314	8-729-178-54	TRANSISTOR 2SC2785		R229	1-246-795-00	CARBON 10K	1/8W
Q315	8-729-178-54	TRANSISTOR 2SC2785		R230	1-246-783-00	CARBON 1K	1/8W
Q316	8-729-178-54	TRANSISTOR 2SC2785		R231	1-246-783-00	CARBON 1K	1/8W
Q332	8-729-117-54	TRANSISTOR 2SA1175		R232	1-246-807-00	CARBON 100K	1/8W
				R234	1-246-795-00	CARBON 10K	1/8W
				R235	1-246-776-00	CARBON 270	1/8W

NOTE:

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.

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

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
MF : μ F, PF : μ PF

RESISTORS
All resistors are in ohms
F : nonflammable

COILS
MH : mH, UH : μ H

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked " & " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

RR-1A BOARD

TU-22 BOARD

TU-21 BOARD

Ref.No	Part No	Description	Remark
R236	1-246-803-00	CARBON 47K	1/8W
R240	1-246-787-00	CARBON 2.2K	1/8W
R301	1-246-783-00	CARBON 1K	1/8W
R302	1-246-783-00	CARBON 1K	1/8W
R303	1-246-789-00	CARBON 3.3K	1/8W
R304	1-246-789-00	CARBON 3.3K	1/8W
R305	1-246-843-00	CARBON 910	1/8W
R306	1-246-843-00	CARBON 910	1/8W
R307	1-246-783-00	CARBON 1K	1/8W
R308	1-246-783-00	CARBON 1K	1/8W
R309	1-246-789-00	CARBON 3.3K	1/8W
R310	1-246-789-00	CARBON 3.3K	1/8W
R311	1-246-843-00	CARBON 910	1/8W
R312	1-246-843-00	CARBON 910	1/8W
R313	1-246-783-00	CARBON 1K	1/8W
R314	1-246-783-00	CARBON 1K	1/8W
R315	1-246-783-00	CARBON 1K	1/8W
R316	1-246-783-00	CARBON 1K	1/8W
R317	1-246-789-00	CARBON 3.3K	1/8W
R320	1-246-787-00	CARBON 2.2K	1/8W
R321	1-246-807-00	CARBON 100K	1/8W
R322	1-246-807-00	CARBON 100K	1/8W
R323	1-246-787-00	CARBON 2.2K	1/8W
R324	1-246-787-00	CARBON 2.2K	1/8W
R325	1-246-807-00	CARBON 100K	1/8W
R326	1-246-807-00	CARBON 100K	1/8W
R327	1-246-787-00	CARBON 2.2K	1/8W
R328	1-246-793-00	CARBON 6.8K	1/8W
R329	1-246-791-00	CARBON 4.7K	1/8W
R330	1-246-791-00	CARBON 4.7K	1/8W
R331	1-246-791-00	CARBON 4.7K	1/8W
R332	1-246-797-00	CARBON 15K	1/8W
R333	1-247-587-00	CARBON 0.47 5%	1/4W
R334	1-246-795-00	CARBON 10K	1/8W
R335	1-206-640-00	METAL 100 5%	2W F
R336	1-206-640-00	METAL 100 5%	2W F
R337	1-246-794-00	CARBON 8.2K	1/8W

CRYSTAL

X101	1-527-532-31	OSCILLATOR, CERAMIC
X201	1-527-532-31	OSCILLATOR, CERAMIC

◆:1-605-575-00 TU-22 BOARD

◆:A-6721-086-A TU-21 BOARD, COMPLETE

◆:1-555-716-00 CABLE, PIN
 1-555-798-00 CORD (WITH DC PLUG)
 ◆:3-671-841-00 CASE (1) (MAIN), SHIELD, TU

NOTE:

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.

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

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "◆" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
 • MF : μ F, PF : μ μ F

RESISTORS
 • All resistors are in ohms
 • F : nonflammable

COILS
 • MMH : mH, UH : μ H

Ref.No	Part No	Description	Remark
◆:3-671-842-00	LID, CASE (1), SHIELD, TU		
◆:3-671-843-00	LID, REAR, CASE (1), SHIELD, TU		
◆:3-671-844-00	CASE (2) (MAIN), SHIELD, TU		
◆:3-671-845-00	LID, CASE (2), SHIELD, TU		
◆:3-671-846-00	LID, REAR, CASE (2), SHIELD, TU		
◆:3-671-847-00	CASE (3) (MAIN), SHIELD, TU		
◆:3-671-848-00	LID, CASE (3), SHIELD, TU		
◆:3-671-849-00	LID, REAR, CASE (3), SHIELD, TU		
BATTERY			
BT491	1-528-074-00	BATTERY, NICKEL CADMIUM	
CAPACITOR			
C064	1-123-330-00	ELECT 22MF	20% 16V
C101	1-102-074-00	CERAMIC 0.001MF	10% 50V
C102	1-123-380-00	ELECT 1MF	20% 50V
C103	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C104	1-102-074-00	CERAMIC 0.001MF	10% 50V
C105	1-102-513-00	CERAMIC 18PF	5% 50V
C106	1-102-074-00	CERAMIC 0.001MF	10% 50V
C107	1-123-330-00	ELECT 22MF	20% 16V
C108	1-123-333-00	ELECT 100MF	20% 16V
C109	1-108-242-00	MYLAR 0.022MF	10% 50V
C110	1-131-404-00	ELECT(SOLID) 0.22MF	10% 25V
C111	1-131-404-00	ELECT(SOLID) 0.22MF	10% 25V
C112	1-102-526-00	CERAMIC 75PF	5% 50V
C113	1-101-004-00	CERAMIC 0.01MF	50V
C114	1-101-884-00	CERAMIC 56PF	5% 50V
C115	1-101-884-00	CERAMIC 56PF	5% 50V
C116	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C117	1-102-953-00	CERAMIC 18PF	5% 50V
C119	1-123-333-00	ELECT 100MF	20% 16V
C120	1-123-330-00	ELECT 22MF	20% 16V
C121	1-108-567-00	MYLAR 0.0033MF	5% 50V
C122	1-123-328-00	ELECT 4.7MF	20% 25V
C123	1-123-330-00	ELECT 22MF	20% 16V
C124	1-102-960-00	CERAMIC 24PF	5% 50V
C125	1-102-971-00	CERAMIC 82PF	5% 50V
C126	1-161-059-00	CERAMIC 0.047MF	10% 50V
C127	1-102-526-00	CERAMIC 75PF	5% 50V
C128	1-123-330-00	ELECT 22MF	20% 16V
C129	1-123-380-00	ELECT 1MF	20% 50V
C130	1-108-583-00	MYLAR 0.015MF	5% 50V
C131	1-123-379-00	ELECT 0.47MF	20% 50V
C132	1-102-074-00	CERAMIC 0.001MF	10% 50V
C151	1-123-839-00	ELECT 1000MF	20% 16V
C152	1-123-330-00	ELECT 22MF	20% 16V
C153	1-123-330-00	ELECT 22MF	20% 16V
C155	1-130-495-00	MYLAR 0.1MF	5% 50V
C156	1-123-330-00	ELECT 22MF	20% 16V
C157	1-123-330-00	ELECT 22MF	20% 16V
C201	1-101-004-00	CERAMIC 0.01MF	50V
C202	1-123-330-00	ELECT 22MF	20% 16V

TU-21 BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C203	1-161-059-00	CERAMIC	0.047MF 10%	50V	D202	8-719-911-19	DIODE 1SS119
C204	1-123-379-00	ELECT	0.47MF 20%	50V	D203	8-719-911-19	DIODE 1SS119
C205	1-102-973-00	CERAMIC	100PF 5%	50V	D204	8-719-911-19	DIODE 1SS119
C206	1-108-555-00	MYLAR	0.001MF 5%	50V	D205	8-719-911-19	DIODE 1SS119
C207	1-108-555-00	MYLAR	0.001MF 5%	50V	D206	8-719-911-19	DIODE 1SS119
C208	1-108-559-00	MYLAR	0.0015MF 5%	50V	D207	8-719-911-19	DIODE 1SS119
C209	1-123-381-00	ELECT	2.2MF 20%	50V	D210	8-719-911-19	DIODE 1SS119
C210	1-102-973-00	CERAMIC	100PF 5%	50V	D211	8-719-911-19	DIODE 1SS119
C211	1-102-959-00	CERAMIC	22PF 5%	50V	D212	8-719-911-19	DIODE 1SS119
C212	1-130-499-51	MYLAR	0.22MF 5%	50V	D213	8-719-911-19	DIODE 1SS119
C214	1-130-489-51	MYLAR	0.033MF 5%	50V	D214	8-719-911-19	DIODE 1SS119
C217	1-130-483-51	MYLAR	0.01MF 5%	50V	D215	8-719-911-19	DIODE 1SS119
C219	1-123-321-00	ELECT	220MF 20%	16V	D421	8-719-305-15	DIODE GH-3F
C221	1-102-973-00	CERAMIC	100PF 5%	50V	D422	8-719-305-15	DIODE GH-3F
C421	1-101-004-00	CERAMIC	0.01MF 50V		D423	8-719-305-15	DIODE GH-3F
C422	1-123-252-00	ELECT	1MF 160V		D424	8-719-124-07	DIODE RD24E-B
C423	1-123-383-00	ELECT	4.7MF 20%	100V	D425	8-719-911-19	DIODE 1SS119
C424	1-123-369-00	ELECT	4.7MF 20%	50V	D426	8-719-911-19	DIODE 1SS119
C425	1-106-367-00	MYLAR	0.01MF 5%	200V	D501	8-719-911-19	DIODE 1SS119
C426	1-123-622-00	ELECT	22MF 20%	16V	D502	8-719-911-19	DIODE 1SS119
C427	1-161-059-00	CERAMIC	0.047MF 10%	50V	D503	8-719-911-19	DIODE 1SS119
C428	1-161-059-00	CERAMIC	0.047MF 10%	50V	D504	8-719-911-19	DIODE 1SS119
C429	1-123-622-00	ELECT	22MF 20%	16V	D505	8-719-911-19	DIODE 1SS119
<u>FILTER</u>					D506	8-719-911-19	DIODE 1SS119
CF101	1-409-332-00	CERAMIC TRAP (4.5MHZ)			D507	8-719-911-19	DIODE 1SS119
CF102	1-527-260-00	FILTER, CERAMIC (4.5MHZ)			D508	8-719-911-19	DIODE 1SS119
CF103	1-409-332-00	CERAMIC TRAP (4.5MHZ)			D509	8-719-911-19	DIODE 1SS119
<u>CONNECTOR</u>					D510	8-719-911-19	DIODE 1SS119
CN001	1-560-469-00	PIN, CONNECTOR 6P			D511	8-719-911-19	DIODE 1SS119
CN002	1-560-468-00	PIN, CONNECTOR 5P			D512	8-719-911-19	DIODE 1SS119
CN004	1-560-467-00	PIN, CONNECTOR 4P			D513	8-719-911-19	DIODE 1SS119
CN005	1-560-470-00	PIN, CONNECTOR 8P			D514	8-719-911-19	DIODE 1SS119
CN006	1-560-467-00	PIN, CONNECTOR 4P			<u>IC</u>		
CN007	1-560-467-00	PIN, CONNECTOR 4P			IC101	8-758-851-00	IC CX-885A
CN008	1-560-467-00	PIN, CONNECTOR 4P			IC201	8-757-605-00	IC CX-760E
CN009	1-560-472-00	PIN, CONNECTOR 12P			IC202	8-757-611-00	IC CX-761A
CN010	1-560-468-00	PIN, CONNECTOR 5P			IC203	8-758-040-00	IC CX-804
CN012	1-560-470-00	PIN, CONNECTOR 8P			IC204	8-759-157-40	IC UPC574J
CN013	1-560-468-00	PIN, CONNECTOR 5P			IC501	8-759-240-71	IC TC4071BP
<u>COMPOSITION CIRCUIT BLOCK</u>					IC502	8-759-240-71	IC TC4071BP
CP201	1-232-154-00	COMPOSITION CIRCUIT BLOCK			<u>COIL</u>		
CP501	1-232-160-00	COMPOSITION CIRCUIT BLOCK			L101	1-408-408-00	MICRO INDUCTOR 8.2UH
CP502	1-232-160-00	COMPOSITION CIRCUIT BLOCK			L102	1-408-411-00	MICRO INDUCTOR 15UH
CP503	1-232-161-00	COMPOSITION CIRCUIT BLOCK			L103	1-408-399-00	MICRO INDUCTOR 1.5UH
<u>DIODE</u>					L104	1-408-403-00	MICRO INDUCTOR 3.3UH
D101	8-719-911-19	DIODE 1SS119			L105	1-408-414-00	MICRO INDUCTOR 27UH
D102	8-719-911-19	DIODE 1SS119			L106	1-408-420-00	MICRO INDUCTOR 82UH
D103	8-719-911-19	DIODE 1SS119			L108	1-408-410-00	MICRO INDUCTOR 12UH
D201	8-719-911-19	DIODE 1SS119			L109	1-407-510-00	MICRO INDUCTOR 33MMH
					L110	1-408-421-00	MICRO INDUCTOR 100UH
					L201	1-408-421-00	MICRO INDUCTOR 100UH

NOTE:

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

Les composants identifiés par une trame et une marque **A** 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, interchangeable replacements may be substituted for parts specified in the diagrams.

* Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

* MF : μ F, PF : μ MF

RESISTORS

* All resistors are in ohms
* F : nonflammable

COILS

* MMH : mH, UH : μ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
L421	1-408-421-00	MICRO INDUCTOR 100UH		R112	1-246-782-00	CARBON 820	1/8W
	<u>CONNECTOR</u>			R113	1-247-047-00	CARBON 330K	1/8W
PJ101▲	1-526-575-00	SOCKET, PLUG		R114	1-246-777-00	CARBON 330	1/8W
PJ102▲	1-526-575-00	SOCKET, PLUG		R115	1-246-850-00	CARBON 3.6K	1/8W
	<u>TRANSISTOR</u>			R116	1-246-850-00	CARBON 3.6K	1/8W
Q053	8-729-178-54	TRANSISTOR 2SC2785		R119	1-246-778-00	CARBON 390	1/8W
Q101	8-729-178-54	TRANSISTOR 2SC2785		R121	1-246-776-00	CARBON 270	1/8W
Q103	8-729-178-54	TRANSISTOR 2SC2785		R122	1-246-807-00	CARBON 100K	1/8W
Q104	8-729-178-54	TRANSISTOR 2SC2785		R123	1-246-786-00	CARBON 1.8K	1/8W
Q105	8-729-117-54	TRANSISTOR 2SA1175		R124	1-246-776-00	CARBON 270	1/8W
Q106	8-729-117-54	TRANSISTOR 2SA1175		R125	1-246-852-00	CARBON 5.1K	1/8W
Q151	8-729-178-54	TRANSISTOR 2SC2785		R126	1-246-795-00	CARBON 10K	1/8W
Q201	8-729-178-54	TRANSISTOR 2SC2785		R127	1-246-787-00	CARBON 2.2K	1/8W
Q202	8-729-178-54	TRANSISTOR 2SC2785		R128	1-246-789-00	CARBON 3.3K	1/8W
Q203	8-729-178-54	TRANSISTOR 2SC2785		R129▲	1-247-107-00	CARBON 100	5% 1/4W F
Q204	8-729-178-54	TRANSISTOR 2SC2785		R130	1-246-783-00	CARBON 1K	1/8W
Q205	8-729-178-54	TRANSISTOR 2SC2785		R131	1-246-786-00	CARBON 1.8K	1/8W
Q206	8-729-178-54	TRANSISTOR 2SC2785		R132	1-246-791-00	CARBON 4.7K	1/8W
Q207	8-729-178-54	TRANSISTOR 2SC2785		R133	1-246-779-00	CARBON 470	1/8W
Q208	8-729-139-04	TRANSISTOR 2H3904		R134	1-246-807-00	CARBON 100K	1/8W
Q209	8-724-375-01	TRANSISTOR 2SC403C		R135	1-246-777-00	CARBON 330	1/8W
Q213	8-729-117-54	TRANSISTOR 2SA1175		R151	1-246-807-00	CARBON 100K	1/8W
Q214	8-729-117-54	TRANSISTOR 2SA1175		R153	1-246-799-00	CARBON 22K	1/8W
Q215	8-729-117-54	TRANSISTOR 2SA1175		R154▲	1-247-082-00	CARBON 8.2	5% 1/4W F
Q216	8-729-178-54	TRANSISTOR 2SC2785		R201	1-246-783-00	CARBON 1K	1/8W
Q401	8-729-178-54	TRANSISTOR 2SC2785		R203	1-246-803-00	CARBON 47K	1/8W
Q402	8-729-117-54	TRANSISTOR 2SA1175		R204	1-246-796-00	CARBON 12K	1/8W
Q403	8-729-178-54	TRANSISTOR 2SC2785		R205	1-246-801-00	CARBON 33K	1/8W
Q405	8-729-178-54	TRANSISTOR 2SC2785		R206	1-246-803-00	CARBON 47K	1/8W
Q406	8-729-117-54	TRANSISTOR 2SA1175		R207	1-246-806-00	CARBON 82K	1/8W
Q421	8-729-177-43	TRANSISTOR 2SD774		R208	1-246-795-00	CARBON 10K	1/8W
Q422	8-729-194-12	TRANSISTOR 2SC1941		R209	1-246-799-00	CARBON 22K	1/8W
Q501	8-729-178-54	TRANSISTOR 2SC2785		R210	1-246-795-00	CARBON 10K	1/8W
Q502	8-729-117-54	TRANSISTOR 2SA1175		R211	1-246-795-00	CARBON 10K	1/8W
	<u>RESISTOR</u>			R212	1-246-859-00	CARBON 20K	1/8W
R060	1-246-789-00	CARBON 3.3K	1/8W	R213	1-246-795-00	CARBON 10K	1/8W
R061	1-246-783-00	CARBON 1K	1/8W	R214	1-246-795-00	CARBON 10K	1/8W
R062	1-246-848-00	CARBON 2.4K	1/8W	R215	1-246-859-00	CARBON 20K	1/8W
R063	1-246-791-00	CARBON 4.7K	1/8W	R216	1-246-795-00	CARBON 10K	1/8W
R101	1-246-787-00	CARBON 2.2K	1/8W	R217	1-246-795-00	CARBON 10K	1/8W
R102	1-246-790-00	CARBON 3.9K	1/8W	R218	1-246-811-00	CARBON 220K	1/8W
R103	1-246-787-00	CARBON 2.2K	1/8W	R219	1-246-795-00	CARBON 10K	1/8W
R104	1-246-800-00	CARBON 27K	1/8W	R220	1-246-795-00	CARBON 10K	1/8W
R105	1-246-785-00	CARBON 1.5K	1/8W	R221	1-244-885-00	CARBON 3.3K	5% 1/2W
R106	1-246-790-00	CARBON 3.9K	1/8W	R222	1-246-795-00	CARBON 10K	1/8W
R107	1-246-789-00	CARBON 3.3K	1/8W	R223	1-246-801-00	CARBON 33K	1/8W
R108	1-246-783-00	CARBON 1K	1/8W	R224	1-246-806-00	CARBON 82K	1/8W
R109	1-246-804-00	CARBON 56K	1/8W	R225	1-246-783-00	CARBON 1K	1/8W
R110	1-246-807-00	CARBON 100K	1/8W	R226	1-246-807-00	CARBON 100K	1/8W
R111	1-246-802-00	CARBON 39K	1/8W	R227	1-246-811-00	CARBON 220K	1/8W
				R228	1-244-873-00	CARBON 1K	5% 1/2W
				R229	1-246-795-00	CARBON 10K	1/8W
				R230	1-247-047-00	CARBON 330K	1/8W

NOTE:

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

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ MF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

TU-21 BOARD

SW-12 BOARD

Ref.No	Part No	Description	Remark
R231	1-246-801-00	CARBON 33K	1/8W
R232	1-246-777-00	CARBON 330	1/8W
R233	1-246-783-00	CARBON 1K	1/8W
R234	1-246-799-00	CARBON 22K	1/8W
R235	1-246-795-00	CARBON 10K	1/8W
R236	1-246-795-00	CARBON 10K	1/8W
R237	1-246-807-00	CARBON 100K	1/8W
R238	1-246-795-00	CARBON 10K	1/8W
R239	1-246-795-00	CARBON 10K	1/8W
R241	1-246-798-00	CARBON 18K	1/8W
R242	1-246-788-00	CARBON 2.7K	1/8W
R243	1-246-475-00	CARBON 1.2K 5%	1/4W
R244	1-246-801-00	CARBON 33K	1/8W
R245	1-202-667-00	COMPOSITION 8.2M 5%	1/2W
R247	1-246-805-00	CARBON 68K	1/8W
R249	1-246-521-00	CARBON 100K 5%	1/4W
R259	1-246-807-00	CARBON 100K	1/8W
R260	1-246-807-00	CARBON 100K	1/8W
R261	1-246-799-00	CARBON 22K	1/8W
R262	1-246-787-00	CARBON 2.2K	1/8W
R263	1-246-799-00	CARBON 22K	1/8W
R264	1-246-787-00	CARBON 2.2K	1/8W
R265	1-246-799-00	CARBON 22K	1/8W
R267	1-246-807-00	CARBON 100K	1/8W
R269	1-246-787-00	CARBON 2.2K	1/8W
R275	1-246-795-00	CARBON 10K	1/8W
R276	1-246-789-00	CARBON 3.3K	1/8W
R277	1-246-794-00	CARBON 8.2K 5%	1/8W
R277	1-247-053-00	CARBON 1M	1/8W
R278	1-246-805-00	CARBON 68K	1/8W
R401	1-246-852-00	CARBON 5.1K	1/8W
R402	1-246-795-00	CARBON 10K	1/8W
R407	1-246-795-00	CARBON 10K	1/8W
R408	1-246-795-00	CARBON 10K	1/8W
R421	1-246-783-00	CARBON 1K	1/8W
R422	1-246-775-00	CARBON 220	1/8W
R423	1-244-909-00	CARBON 33K 5%	1/2W
R424	1-244-905-00	CARBON 22K 5%	1/2W
R425	1-246-795-00	CARBON 10K	1/8W
R426	1-246-795-00	CARBON 10K	1/8W
R427	1-246-787-00	CARBON 2.2K	1/8W
R428	1-246-801-00	CARBON 33K	1/8W
R429	1-247-047-00	CARBON 330K 5%	1/8W
R491	1-212-850-00	FUSIBLE 5.1 5%	1/4W F.
R501	1-246-803-00	CARBON 47K	1/8W
R502	1-246-803-00	CARBON 47K	1/8W
R503	1-246-795-00	CARBON 10K	1/8W
R504	1-246-801-00	CARBON 33K	1/8W
R505	1-246-803-00	CARBON 47K	1/8W
R506	1-246-803-00	CARBON 47K	1/8W
R507	1-246-788-00	CARBON 2.7K	1/8W

NOTE:

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All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

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

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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CAPACITORS

MF : μ F, PF : μ μ F

RESISTORS

All resistors are in ohms
F : nonflammable

COILS

MMH : mH, UH : μ H

Ref.No	Part No	Description	Remark
RF UNIT			
RF101	1-464-151-00	UNIT, COLOR RF (RF-7W(M))	
VARIABLE RESISTOR			
RV101	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K	
RV102	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K	
FILTER			
SF101	1-404-227-41	SAWF	
TRANSFORMER			
T101	1-404-153-00	VIFT	
T102	1-404-321-00	VIFT	
T103	1-404-352-00	COIL, VIF	
T104	1-404-318-00	SIFT	
T105	1-404-352-00	COIL, VIF	
T201	1-409-193-00	COIL 3.58MHZ TRAP	
T421	1-421-436-00	TRANSFORMER, FERRITE	
THERMISTOR			
TH101	1-800-626-00	THERMISTOR	
TUNER			
TU101	1-463-377-00	TUNER (BT-864)	

▲:1-605-410-00		SW-12 BOARD	*****
3-701-822-00		HOLDER, WIRE	
DIODE			
D501	8-719-911-06	DIODE 1SS106	
D502	8-719-911-06	DIODE 1SS106	
D503	8-719-911-06	DIODE 1SS106	
D504	8-719-168-07	DIODE RD6.8E-B	
D505	8-719-168-07	DIODE RD6.8E-B	
VARIABLE RESISTOR			
RV501	1-228-244-00	RES, VAR, SOLID 100K	
RV502	1-228-359-00	RES, VAR, SOLID 5K	
SWITCH			
S501	1-553-766-00	SWITCH, KEY BOARD	
S502	1-553-766-00	SWITCH, KEY BOARD	
S503	1-553-716-00	SWITCH, SLIDE	
S504	1-553-754-00	SWITCH, SLIDE	

CH-22 BOARD

CH-21 BOARD

CI-3 BOARD

CI-2 BOARD

RL-4 BOARD

LM-9 BOARD

LM-8 BOARD

Ref.No	Part No	Description	Remark
	A-6728-243-A	LM-8 BOARD, COMPLETE *****	
<u>CAPACITOR</u>			
C101	1-161-057-00	CERAMIC 0.033MF 10% 50V	
C102	1-161-057-00	CERAMIC 0.033MF 10% 50V	
<u>COIL</u>			
L101	1-408-120-00	MICRO INDUCTOR 18UH	
L102	1-408-120-00	MICRO INDUCTOR 18UH	

	1-605-109-00	LM-9 BOARD *****	
<u>CAPACITOR</u>			
C001	1-161-057-00	CERAMIC 0.033MF 10% 50V	
C002	1-161-057-00	CERAMIC 0.033MF 10% 50V	
<u>DIODE</u>			
D001	8-719-911-06	DIODE 1SS106	
D002	8-719-911-06	DIODE 1SS106	
D003	8-719-911-06	DIODE 1SS106	
<u>COIL</u>			
L001	1-407-696-00	MICRO INDUCTOR 18UH	
L002	1-407-696-00	MICRO INDUCTOR 18UH	
<u>SWITCH</u>			
S001	1-552-664-00	SWITCH, MICRO	

	♣:1-605-110-00	RL-4 BOARD *****	

	A-6728-248-A	CI-2 BOARD, COMPLETE *****	
	1-553-719-00	SWITCH, MICRO	
	♣:3-670-039-00	HOLDER (R), CSW	

	A-6728-249-A	CI-3 BOARD, COMPLETE *****	
	1-553-719-00	SWITCH, MICRO	
	♣:3-670-038-00	HOLDER (L), CSW	

Ref.No	Part No	Description	Remark
	1-605-581-00	CH-21 BOARD *****	
	♣:3-662-227-00	HOLDER (R-3), LED	
<u>CAPACITOR</u>			
C701	1-161-021-00	CERAMIC 0.047MF 10% 25V	
<u>DIODE</u>			
D751	8-719-812-31	DIODE TLR123	
D752	8-719-812-32	DIODE TLY123	
D753	8-719-812-33	DIODE TLG123	
D754	8-719-911-19	DIODE 1SS119	
D755	8-719-812-31	DIODE TLR123	
D756	8-719-812-31	DIODE TLR123	
D757	8-719-812-31	DIODE TLR123	
D758	8-719-812-31	DIODE TLR123	
D759	8-719-812-31	DIODE TLR123	
<u>IC</u>			
IC701	8-759-619-03	IC M51903L	
<u>RESISTOR</u>			
R752	1-246-782-00	CARBON 820 1/8W	
R753	1-246-783-00	CARBON 1K 1/8W	
R754	1-246-795-00	CARBON 10K 1/8W	
R755	1-246-787-00	CARBON 2.2K 1/8W	
R756	1-246-787-00	CARBON 2.2K 1/8W	
R757	1-246-787-00	CARBON 2.2K 1/8W	
R758	1-246-787-00	CARBON 2.2K 1/8W	
R759	1-246-787-00	CARBON 2.2K 1/8W	
<u>SWITCH</u>			
S751	1-553-766-00	SWITCH, KEY BOARD	
S752	1-553-766-00	SWITCH, KEY BOARD	
S753	1-553-766-00	SWITCH, KEY BOARD	
S754	1-553-716-00	SWITCH, SLIDE	
S755	1-553-716-00	SWITCH, SLIDE	

	1-605-895-00	CH-22 BOARD *****	
<u>NEON LAMP</u>			
NL701	1-519-204-00	LAMP, NEON	
NL702	1-519-204-00	LAMP, NEON	
NL703	1-519-204-00	LAMP, NEON	
NL704	1-519-204-00	LAMP, NEON	
NL705	1-519-204-00	LAMP, NEON	
NL706	1-519-204-00	LAMP, NEON	
NL707	1-519-204-00	LAMP, NEON	
NL708	1-519-204-00	LAMP, NEON	
NL709	1-519-204-00	LAMP, NEON	

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CAPACITORS
• MF : μ F, PF : μ μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

CH-22 BOARD

RL-7 BOARD

N BOARD

TIMER BLOCK

Ref.No	Part No	Description	Remark
NL710	1-519-204-00	LAMP, NEON	
NL711	1-519-204-00	LAMP, NEON	
NL712	1-519-204-00	LAMP, NEON	
NL713	1-519-204-00	LAMP, NEON	
NL714	1-519-204-00	LAMP, NEON	
SWITCH			
S701	1-553-766-00	SWITCH, KEY BOARD	
S702	1-553-766-00	SWITCH, KEY BOARD	
S703	1-553-766-00	SWITCH, KEY BOARD	
S704	1-553-766-00	SWITCH, KEY BOARD	
S705	1-553-766-00	SWITCH, KEY BOARD	
S706	1-553-766-00	SWITCH, KEY BOARD	
S707	1-553-766-00	SWITCH, KEY BOARD	
S708	1-553-766-00	SWITCH, KEY BOARD	
S709	1-553-766-00	SWITCH, KEY BOARD	
S710	1-553-766-00	SWITCH, KEY BOARD	
S711	1-553-766-00	SWITCH, KEY BOARD	
S712	1-553-766-00	SWITCH, KEY BOARD	
S713	1-553-766-00	SWITCH, KEY BOARD	
S714	1-553-766-00	SWITCH, KEY BOARD	

♣:1-606-001-00	RL-7 BOARD	*****
♣:3-670-167-00	INSULATOR	
CONNECTOR		
CN001♣:1-560-472-00	PIN, CONNECTOR 12P	
CN002♣:1-560-470-00	PIN, CONNECTOR 8P	
DIODE		
D201	8-719-911-06	DIODE 1SS106
D202	8-719-911-06	DIODE 1SS106
D203	8-719-911-06	DIODE 1SS106

1-603-976-00	N BOARD	*****
1-232-004-00	COMPOSITION CIRCUIT BLOCK	
♣:4-348-551-00	PLATE, SHIELD	
CAPACITOR		
C001	1-123-617-00	ELECT 10MF 20% 16V
C002	1-123-617-00	ELECT 10MF 20% 16V
C003	1-123-617-00	ELECT 10MF 20% 16V
C004	1-161-019-00	CERAMIC 0.033MF 10% 25V
C005	1-108-567-00	MYLAR 0.0033MF 5% 50V
DIODE		
D001 =>	8-719-110-32	DIODE PH302B

Ref.No	Part No	Description	Remark
IC			
IC001	8-759-113-73	IC UPC1373H	
COIL			
L001	1-404-310-00	COIL	

	1-548-552-00	TIMER BLOCK	*****
	9-982-255-00	FLOURECENT DISPLAY	
CAPACITOR			
C1	1-123-333-00	ELECT 100MF 20% 25V	
C2	1-101-006-00	CERAMIC 0.047MF 2% 50V	
C3	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C4	1-123-359-00	ELECT 47MF 20% 50V	
C5	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C6	1-123-306-00	ELECT 47MF 20% 10V	
C7	1-123-381-00	ELECT 2.2MF 20% 100V	
C8	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
C9	1-123-306-00	ELECT 47MF 20% 10V	
C10	1-123-382-00	ELECT 3.3MF 20% 100V	
C11	1-102-508-00	CERAMIC 10PF 5% 50V	
C12	9-982-056-00	TRIMMER 4PF TO 28PF	
C13	1-123-382-00	ELECT 3.3MF 20% 50V	
C15	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C16	1-102-038-00	CERAMIC 0.001MF 500V	
C17	1-101-006-00	CERAMIC 0.047MF 2% 50V	
C18	1-102-038-00	CERAMIC 0.001MF 500V	
COMPOSITION CIRCUIT BLOCK			
CPI	9-982-069-00	COMPOSITION CIRCUIT BLOCK 220Kx4	
DIODE			
D1	8-719-911-19	DIODE 1SS119	
D2	8-719-100-29	DIODE RD5.1EB1	
D3	8-719-106-07	DIODE RD36E-B	
D4	8-719-911-19	DIODE 1SS119	
D5	8-719-100-29	DIODE RD5.1EB1	
D6	8-719-911-19	DIODE 1SS119	
D7	8-719-911-19	DIODE 1SS119	
D8	8-719-100-31	DIODE RD5.1EB3	
D9	8-719-911-19	DIODE 1SS119	
D10	8-719-100-22	DIODE RD4.3EB1	
D11	9-982-258-00	DIODE TLS-123	
D12	8-719-911-19	DIODE 1SS119	
D13	8-719-911-19	DIODE 1SS119	
D15	8-719-911-19	DIODE 1SS119	
D16	8-719-911-19	DIODE 1SS119	
D17	8-719-911-19	DIODE 1SS119	

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- RESISTORS: All resistors are in ohms
- COILS: MH : mH, UH : μ H
- F : nonflammable

POWER BLOCK

TIMER BLOCK

Ref.No	Part No	Description	Remark
D18	8-719-911-19	DIODE 1SS119	
D19	8-719-911-19	DIODE 1SS119	
D20	8-719-911-19	DIODE 1SS119	
D21	8-719-911-19	DIODE 1SS119	
D22	8-719-911-19	DIODE 1SS119	
D23	8-719-911-19	DIODE 1SS119	
<u>IC</u>			
IC1	9-982-051-00	IC MSL915RS	
IC2	9-982-051-00	IC MSL915RS	
IC3	9-982-051-00	IC MSL915RS	
IC4	9-982-071-00	IC MB8845-495M	
<u>COIL</u>			
L1	9-982-059-00	MICRO INDUCTOR 100UH	
<u>TRANSISTOR</u>			
Q1	8-764-803-00	TRANSISTOR 2SC1816-3	
Q2	8-763-314-00	TRANSISTOR 2SC1760-14	
Q3	8-763-314-00	TRANSISTOR 2SC1760-14	
Q4	8-729-853-63	TRANSISTOR 2SC5365P	
Q5	8-729-853-63	TRANSISTOR 2SC5365P	
Q6	8-729-853-63	TRANSISTOR 2SC5365P	
Q7	8-729-853-63	TRANSISTOR 2SC5365P	
Q8	8-729-853-63	TRANSISTOR 2SC5365P	
Q9	8-729-853-63	TRANSISTOR 2SC5365P	
<u>RESISTOR</u>			
R1	1-246-485-00	CARBON 3.3K 5%	1/4W
R2	1-246-449-00	CARBON 100 5%	1/4W
R3	1-246-489-00	CARBON 4.7K 5%	1/4W
R4	1-246-469-00	CARBON 680 5%	1/4W
R5	1-246-473-00	CARBON 1K 5%	1/4W
R6	1-246-453-00	CARBON 150 5%	1/4W
R7	1-246-433-00	CARBON 22 5%	1/4W
R8	1-246-473-00	CARBON 1K 5%	1/4W
R9	1-246-513-00	CARBON 47K 5%	1/4W
R10	1-246-513-00	CARBON 47K 5%	1/4W
R11	1-246-459-00	CARBON 270 5%	1/4W
R12	1-246-465-00	CARBON 470 5%	1/4W
R13	1-246-521-00	CARBON 100K 5%	1/4W
R14	1-246-521-00	CARBON 100K 5%	1/4W
R15	1-246-482-00	CARBON 2.4K 5%	1/4W
R16	9-982-057-00	SOLID 10M 5%	1/4W
R17	1-246-513-00	CARBON 47K 5%	1/4W
R18	1-246-481-00	CARBON 2.2K 5%	1/4W
R19	1-246-451-00	CARBON 120 5%	1/4W
R20	1-246-513-00	CARBON 47K 5%	1/4W
R21	1-246-513-00	CARBON 47K 5%	1/4W
R22	1-246-485-00	CARBON 3.3K 5%	1/4W
R23	1-246-485-00	CARBON 3.3K 5%	1/4W
R24	1-212-849-00	FUSIBLE 4.7 5%	1/4W F

Ref.No	Part No	Description	Remark
<u>SWITCH</u>			
S1	1-553-766-00	SWITCH, KEY BOARD	
S2	1-553-766-00	SWITCH, KEY BOARD	
S3	1-553-766-00	SWITCH, KEY BOARD	
S4	1-553-766-00	SWITCH, KEY BOARD	
S5	1-553-766-00	SWITCH, KEY BOARD	
S6	1-553-766-00	SWITCH, KEY BOARD	
S7	1-553-716-00	SWITCH, SLIDE	
S8	1-553-716-00	SWITCH, SLIDE	
<u>TRANSFORMER</u>			
T1	9-982-073-00	TRANSFORMER, CONVERTER	
T2	9-982-074-00	TRANSFORMER, CONVERTER	

▲	.1-413-081-11	POWER BLOCK (SR-11A)	*****
▲	.1-551-964-00	CORD, POWER	
▲	.1-561-347-00	SOCKET, AC	
<u>CAPACITOR</u>			
C1	▲ .1-130-680-00	POLYPRO 0.1MF	20% 125V
C2	▲ .1-130-680-00	POLYPRO 0.1MF	20% 125V
C3	▲ .1-161-747-00	CERAMIC 0.0022MF	20% 125V
C4	▲ .1-161-747-00	CERAMIC 0.0022MF	20% 125V
C5	▲ .1-161-747-00	CERAMIC 0.0022MF	20% 125V
C6	▲ .1-123-665-00	ELECT 330MF	20% 200V
C7	▲ .1-123-580-00	ELECT 4.7MF	20% 350V
C8	▲ .1-123-580-00	ELECT 4.7MF	20% 350V
C9	▲ .1-123-336-00	ELECT 470MF	20% 25V
C10	▲ .1-106-188-00	MYLAR 0.0047MF	5% 100V
C11	▲ .1-106-180-00	MYLAR 0.0022MF	5% 100V
C12	▲ .1-106-180-00	MYLAR 0.0022MF	5% 100V
C13	▲ .9-982-264-00	POLYPRO 0.0047MF	5% 100V
C14	▲ .1-106-188-00	MYLAR 0.0047MF	5% 100V
C15	▲ .1-106-188-00	MYLAR 0.0047MF	5% 100V
C16	▲ .1-108-595-00	MYLAR 0.047MF	5% 50V
C17	▲ .9-982-187-00	ELECT 2200MF	20% 16V
C18	▲ .1-123-335-00	ELECT 330MF	20% 25V
C20	▲ .1-123-323-00	ELECT 470MF	20% 16V
C21	▲ .1-108-595-00	MYLAR 0.047MF	5% 50V
C22	▲ .9-982-188-00	ELECT 100MF	20% 16V
C23	▲ .1-108-587-00	MYLAR 0.022MF	5% 50V
C24	▲ .1-123-323-00	ELECT 470MF	20% 16V
C25	▲ .1-123-333-00	ELECT 100MF	20% 25V
C26	▲ .1-123-356-00	ELECT 10MF	20% 50V
C27	▲ .1-123-332-00	ELECT 47MF	20% 25V
C28	▲ .1-123-318-00	ELECT 33MF	20% 16V
C29	▲ .1-161-747-00	CERAMIC 0.0022MF	20% 125V
C30	▲ .1-108-579-00	MYLAR 0.01MF	5% 50V
C31	▲ .1-123-380-00	ELECT 1MF	20% 100V

NOTE:

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.

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

•>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ PF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

POWER BLOCK

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C32	▲.9-982-191-00	ELECT 22MF	20% 50V	R12	▲.1-246-535-00	CARBON 390K	5% 1/4W
C33	▲.1-123-380-00	ELECT 1MF	20% 100V	R13	▲.1-246-491-00	CARBON 5.6K	5% 1/4W
C34	▲.1-102-114-00	CERAMIC 470PF	10% 50V	R14	▲.1-246-511-00	CARBON 39K	5% 1/4W
C35	▲.1-106-180-00	MYLAR 0.0022MF	5% 100V	R15	▲.1-246-493-00	CARBON 6.8K	5% 1/4W
C36	▲.1-106-180-00	MYLAR 0.0022MF	5% 100V	R16	▲.1-246-483-00	CARBON 2.7K	5% 1/4W
C37	▲.1-161-747-00	CERAMIC 0.0022MF	20% 125V	R17	▲.1-246-489-00	CARBON 4.7K	5% 1/4W
<u>CONNECTER</u>				R18	▲.1-246-487-00	CARBON 3.9K	5% 1/4W
CN1	1-560-676-00	PIN, CONNECTOR 3P		R19	▲.1-246-481-00	CARBON 2.2K	5% 1/4W
<u>DIODE</u>				R20	▲.1-246-491-00	CARBON 5.6K	5% 1/4W
D1	▲.8-719-503-40	DIODE S3V40		R21	▲.1-246-521-00	CARBON 100K	5% 1/4W
D2	▲.8-719-503-40	DIODE S3V40		R22	▲.1-246-497-00	CARBON 10K	5% 1/4W
D3	▲.8-719-503-40	DIODE S3V40		R24	▲.1-246-473-00	CARBON 1K	5% 1/4W
D4	▲.8-719-503-40	DIODE S3V40		R25	▲.1-246-489-00	CARBON 4.7K	5% 1/4W
D5	▲.8-719-500-01	DIODE S1WB10		R26	▲.1-246-491-00	CARBON 5.6K	5% 1/4W
D6	▲.8-719-550-02	DIODE S5KC20		R27	▲.1-244-853-00	CARBON 150	5% 1/2W
D7	▲.8-719-923-48	DIODE 1S2348H		R28	▲.1-246-501-00	CARBON 15K	5% 1/4W
D8	▲.8-719-981-01	DIODE ERA81-004		R29	▲.1-246-497-00	CARBON 10K	5% 1/4W
D9	▲.8-719-100-72	DIODE RD15EB3		R30	▲.1-246-469-00	CARBON 680	5% 1/4W
D10	▲.8-719-815-85	DIODE 1S1585		R31	▲.1-246-481-00	CARBON 2.2K	5% 1/4W
D11	▲.8-719-981-01	DIODE ERA81-004		R32	▲.1-246-477-00	CARBON 1.5K	5% 1/4W
D12	▲.8-719-815-85	DIODE 1S1585		R33	▲.1-246-401-00	CARBON 1	5% 1/4W
D13	▲.8-719-815-85	DIODE 1S1585		R34	▲.1-246-401-00	CARBON 1	5% 1/4W
<u>FUSE</u>				R35	▲.1-246-497-00	CARBON 10K	5% 1/4W
F1	▲.1-532-403-XX	FUSE, 3.15A 125V		R36	▲.1-246-497-00	CARBON 10K	5% 1/4W
<u>IC</u>				R37	▲.1-246-481-00	CARBON 2.2K	5% 1/4W
IC1	▲.8-759-937-59	IC MB3759		R38	▲.1-246-473-00	CARBON 1K	5% 1/4W
IC2	▲.8-759-133-90	IC UPC339C		R39	▲.1-246-497-00	CARBON 10K	5% 1/4W
IC3	▲.8-759-170-08	IC UPC78N08H		R40	▲.9-982-262-00	FUSIBLE 3.3	5% 1/2W F
<u>TRANSISTOR</u>				R41	▲.9-982-185-00	METAL PLATE 1	10% 2W
Q1	▲.8-729-925-02	TRANSISTOR 2SC2502		R42	▲.9-982-263-00	FUSIBLE 2.2	5% 1/4W F
Q2	▲.8-729-925-02	TRANSISTOR 2SC2502		R43	▲.1-246-497-00	CARBON 10K	5% 1/4W
Q3	▲.8-729-663-47	TRANSISTOR 2SC1364-7		R44	▲.1-244-835-00	CARBON 27	5% 1/2W
Q4	▲.8-729-177-23	TRANSISTOR 2S8772-P		R45	▲.1-244-849-00	CARBON 100	5% 1/2W
Q5	▲.8-729-177-23	TRANSISTOR 2S8772-P		<u>VARIABLE RESISTOR</u>			
<u>RESISTOR</u>				RV1	▲.1-226-707-00	SOLID 1K	
R1	▲.9-982-261-00	WIREWOUND 1	10% 5W F	RV2	▲.1-226-707-00	SOLID 1K	
R2	▲.1-244-929-00	CARBON 220K	5% 1/2W	RV3	▲.1-226-770-00	METAL GLAZE 470	
R3	▲.1-202-727-00	SOLID 4.7M	10% 1/2W	<u>RELAY</u>			
R4	▲.1-246-441-00	CARBON 47	5% 1/4W	RL1	▲.9-982-184-00	RELAY MR31-12U	
R5	▲.1-246-441-00	CARBON 47	5% 1/4W	<u>TRANSFORMER</u>			
R6	▲.1-246-483-00	CARBON 2.7K	5% 1/4W	T1	▲.1-421-439-00	CHOKE COIL, NORMAL	
R7	▲.1-244-841-00	CARBON 47	5% 1/2W	T2	▲.1-421-439-00	CHOKE COIL, NORMAL	
R8	▲.1-244-835-00	CARBON 27	5% 1/2W	T3	▲.1-421-438-00	CHOKE COIL, COMMON	
R9	▲.1-217-596-00	METAL PLATE 0.05	10% 2W	T4	▲.1-413-073-00	TRANSFORMER, SWITCHING	
R10	▲.1-246-491-00	CARBON 5.6K	5% 1/4W	T5	▲.1-437-097-00	TRANSFORMER, DRIVE	
R11	▲.1-246-529-00	CARBON 220K	5% 1/4W	T6	▲.1-447-197-00	TRANSFORMER, AC	
				T7	▲.9-982-193-00	CHOKE COIL (C)	
				T8	▲.9-982-194-00	CHOKE COIL, POWER	
				T9	▲.9-982-195-00	CHOKE COIL (A)	
				T10	▲.9-982-196-00	CHOKE COIL (B)	

NOTE:

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.

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

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

Ref.No	Part No	Description	Remark
T11	▲.9-982-196-00	CHOKE COIL (B)	
T12	▲.9-982-194-00	CHOKE COIL, POWER	

MISCELLANEOUS

A-6761-043-A ACE ASSY (M-2)

ACCESSORIES AND PACKING MATERIALS

Part.No	Description	Remark
A-6701-177-A	COMMANDER ASSY	
1-417-063-00	TRANSFORMER, ANTENNA (EAC-24)	
1-513-379-00	CONVERTER (EAC-25)	
1-551-139-00	CORD, CONNECTION	
1-551-644-41	CORD, CONNECTION	
3-660-986-00	SHEET, PROTECTION	
3-671-402-00	INDICATOR, ACCESSORY	
3-671-832-00	BAG, PROTECTION	
3-671-873-00	CASE, ACCESSORY	
3-674-305-00	CUSHION (LOWER FRONT)	
3-674-306-00	CUSHION (LOWER REAR)	
3-674-307-00	CUSHION (UPPER FRONT)	
3-674-308-00	CUSHION (UPPER REAR)	
3-674-309-00	INDIVIDUAL CARTON	
3-674-317-00	LID, ACCESSORY CASE	
3-703-338-01	LABEL, UL (570F)	
3-783-869-21	MANUAL, INSTRUCTION (US/CANADIAN MODEL)	
3-783-869-31	MANUAL, INSTRUCTION (CANADIAN MODEL)	
3-795-338-21	MANUAL, INSTRUCTION (US/CANADIAN MODEL)	
3-795-338-31	MANUAL, INSTRUCTION (CANADIAN MODEL)	
3-783-869-51	MANUAL, INSTRUCTION (E MODEL)	
3-795-338-51	MANUAL, INSTRUCTION (E MODEL)	
4-491-302-31	CARD, WARRANTY (CANADIAN MODEL)	
4-491-336-21	CARD, WARRANTY (US, E MODEL)	
4-491-336-21	REGISTRATION (US, E MODEL)	

NOTE:

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.

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

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

• MF : μ F, PF : $\mu\mu$ F

RESISTORS

• All resistors are in ohms
• F : nonflammable

COILS

• MMH : mH, UH : μ H

MEMO

A series of horizontal dotted lines for writing.

RMT-312



REMOTE CONTROL UNIT

SPECIFICATIONS

Remote control unit	
Remote control system	Infrared control
Power requirements	3V dc, 2 size AA batteries (IEC designation R6)
Dimensions	Approx. 65 × 150 × 16 mm (w/h/d) (2 ⁵ / ₈ × 6 × 3/4 inches) incl. projecting parts and controls
Weight	Approx. 140 g (5 oz) incl. batteries

Recording

Remote function indicator
Lights up when any of the buttons on the remote control unit are pressed.

POWER switch
Press to turn the power on. (To turn it off, press again.)

VTR button
Functions in the same way as the PROGRAM SELECT button on the recorder.
The ON-VTR lamp will indicate the selected mode.

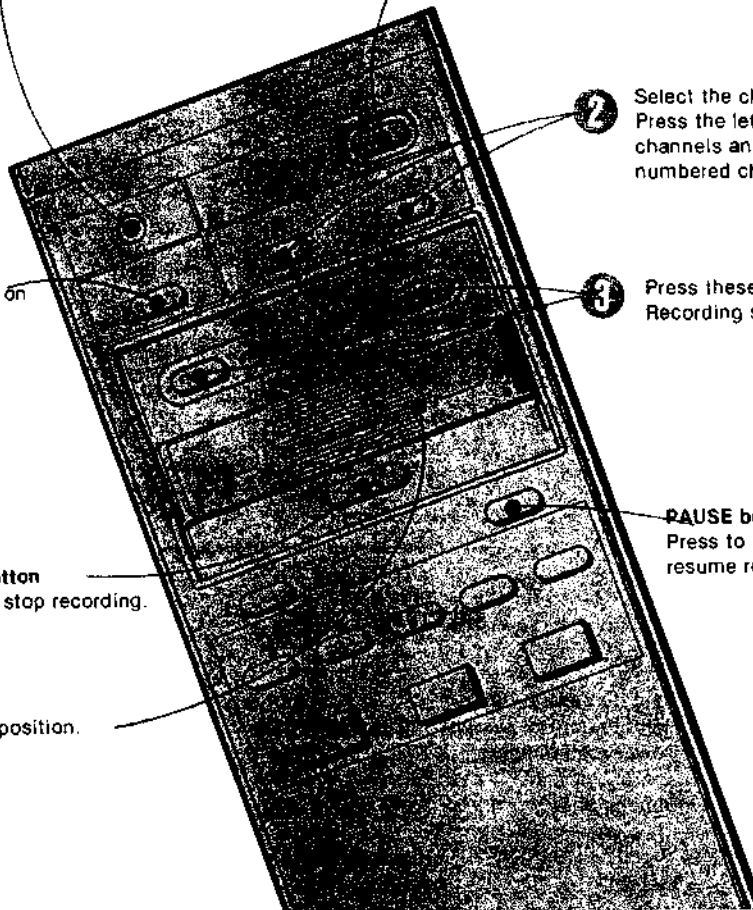
2 Select the channel
Press the left button for lower-numbered channels and the right button for higher-numbered channels.

3 Press these two buttons simultaneously.
Recording starts.

PAUSE button
Press to stop the tape momentarily. To resume recording, press again.

STOP button
Press to stop recording.

1 Slide the cover to this position.

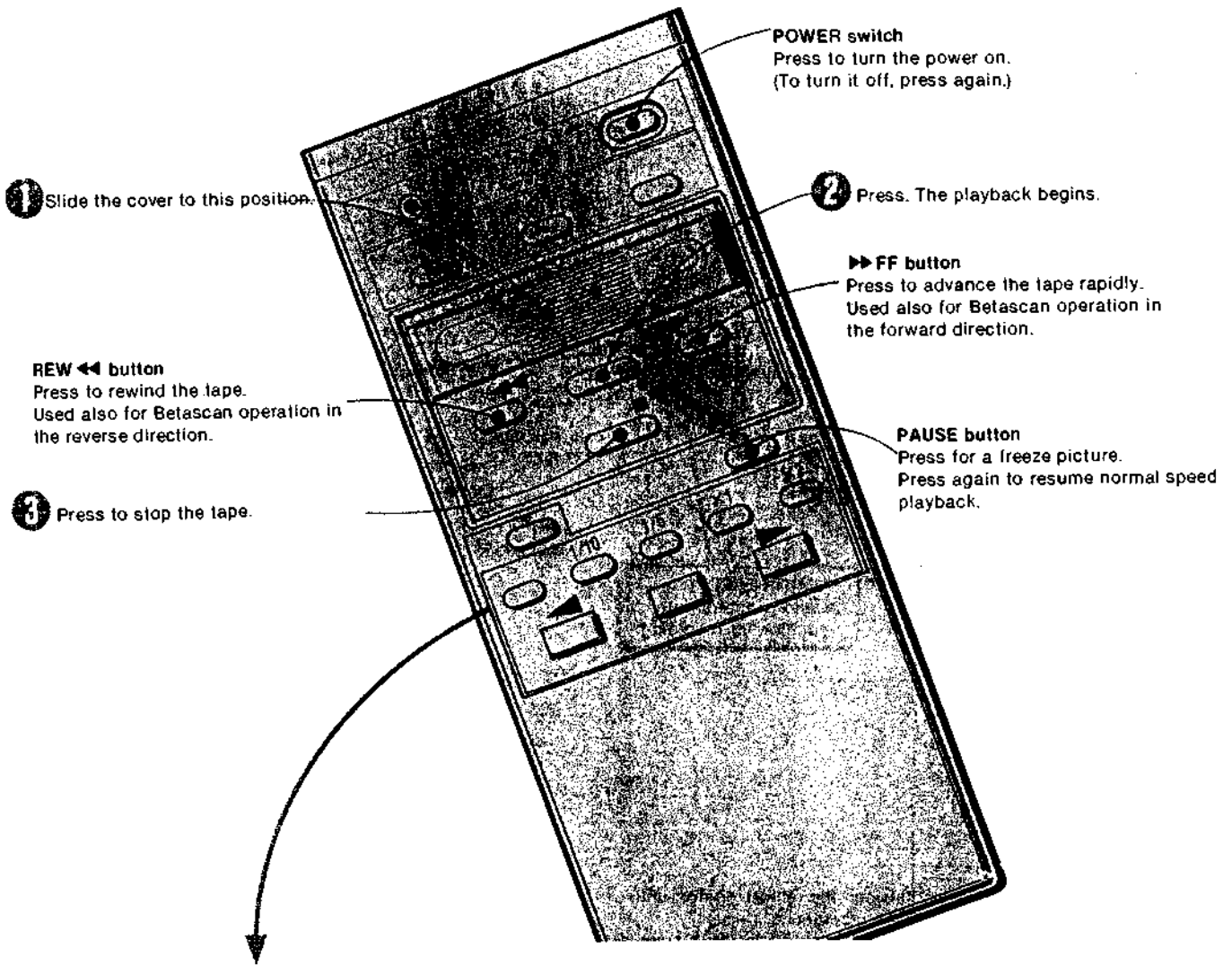


● The unused channels can be skipped during channel selection with the remote control unit if you have cleared the memory of these channels as described in "Clearing unused channels" on page 9 of the accompanying "SET-UP GUIDE".

● Recording will start immediately when the RECORD buttons on the remote control unit are pressed, even if a camera is connected to the recorder.

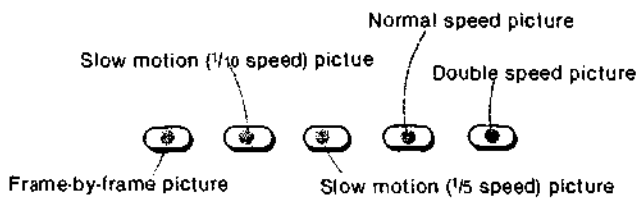
Playback

The buttons on the remote control unit perform the same function as the corresponding buttons on the video recorder.

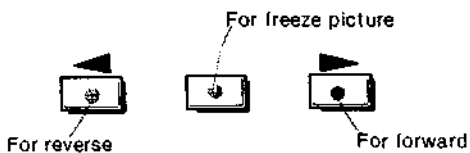


To see the playback picture at various speeds

- 1 Press the SWING SEARCH button during playback.
- 2 Select the playback speed.



- 1 Select the playback direction.

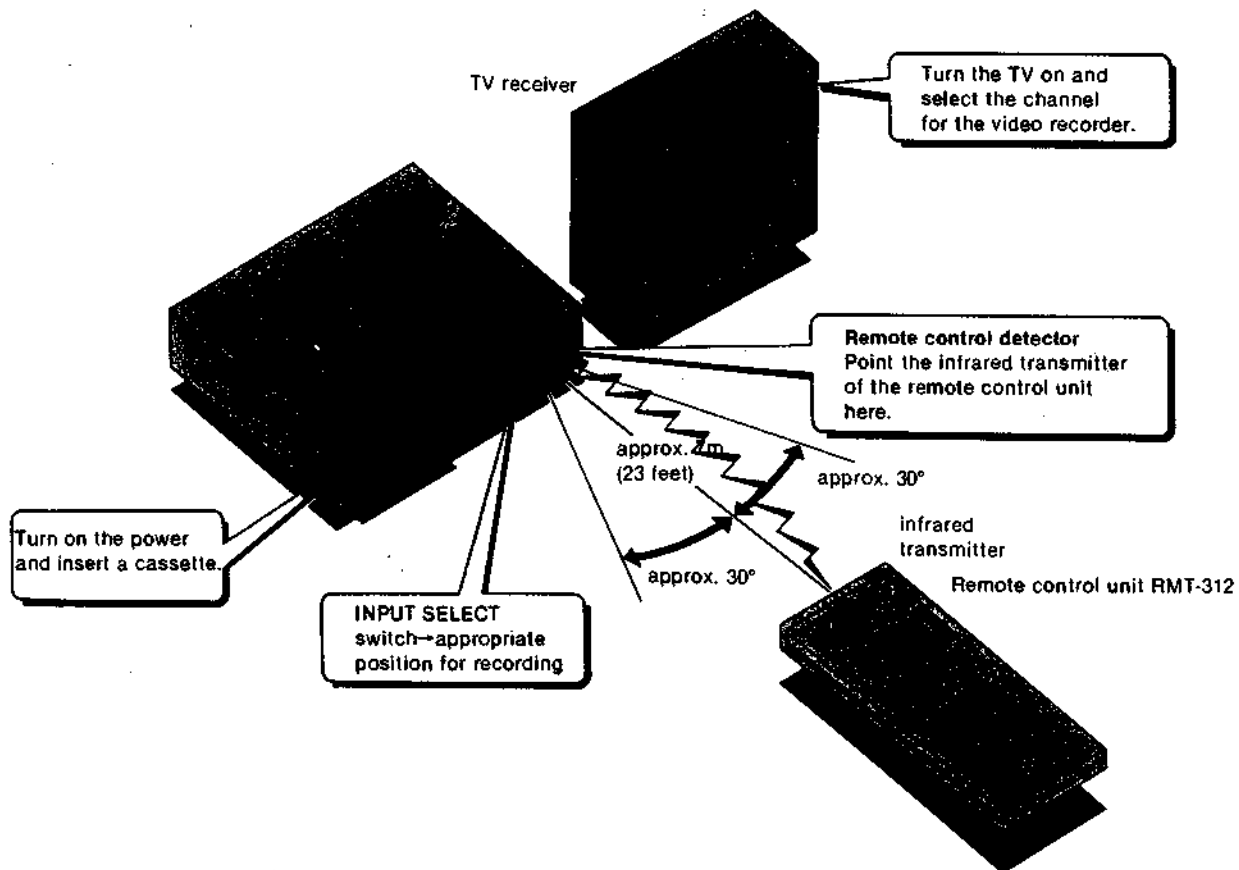


- For frame-by-frame playback, press and release the ◀ or ▶ button repeatedly. Keep the button depressed for continuous frame-by-frame playback.
- Back and forth playback is also possible in the same way as with the buttons on the recorder.

To resume normal playback, press the PLAY ▶ button.

HOW TO USE THE REMOTE CONTROL UNIT

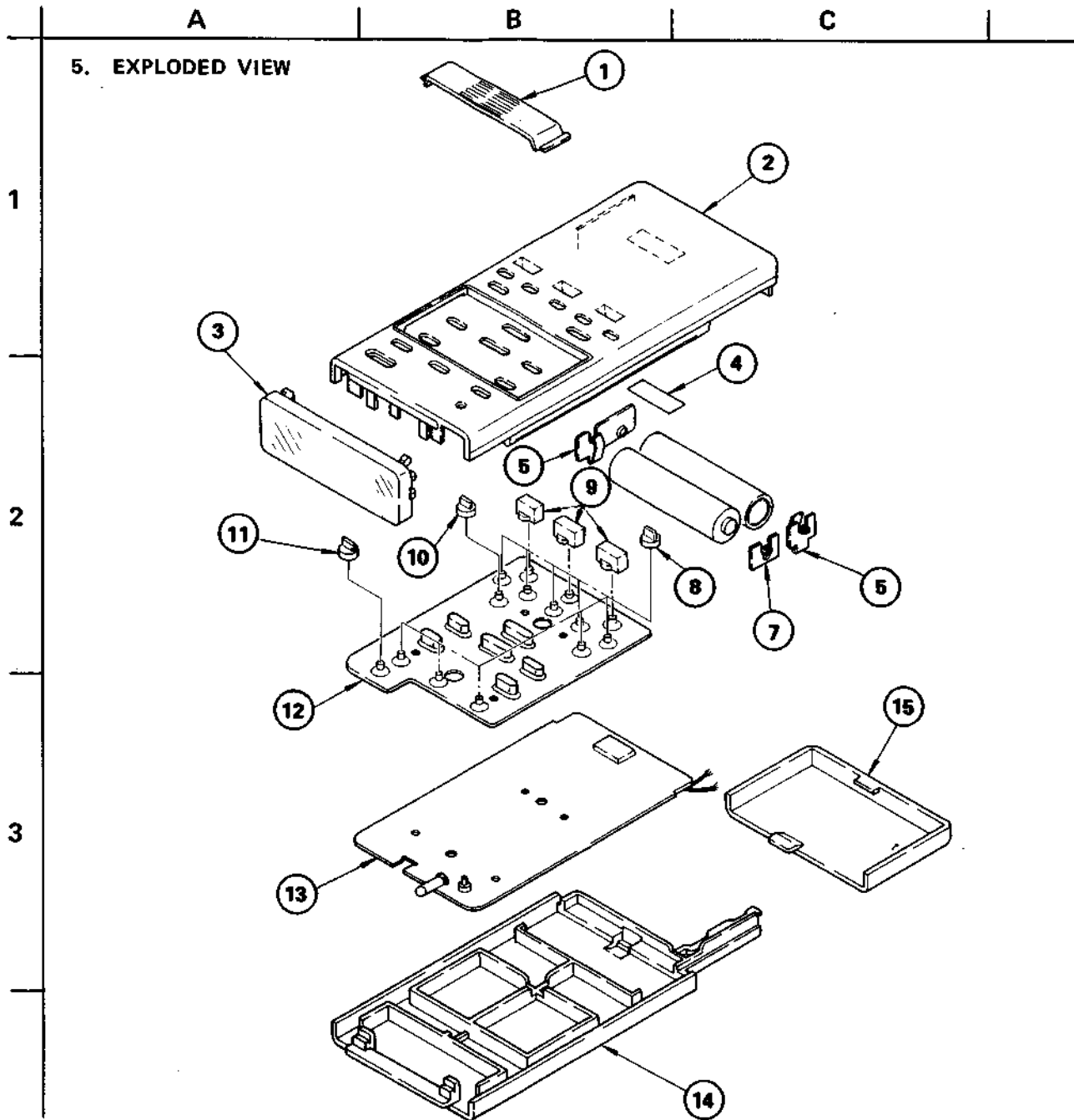
Preparation



Notes

- There should be no obstacles between the remote control unit and the remote control detector of the recorder.
- The shorter the distance between the remote control unit and the recorder, the wider the angle within which the recorder can be controlled.

5. EXPLODED VIEW



No.	Part No	Description	Remark	No.	Part No	Description	Remark
1	2-290-603-00	CURSOR		9	2-290-604-11	PUSH BUTTON	
2	X-3670-033-2	CASE (D) ASSY, UPPER		10	2-294-403-11	PUSH BUTTON (S)	
3	2-290-608-00	PLATE, FROSTED		11	2-294-401-00	BUTTON (S), POWER	
4	*3-703-159-00	LABEL, DESTINATION		12	3-671-B06-00	SHEET (O), RUBBER	
5	4-350-925-00	TERMINAL (C), BATTERY		13	*1-6D5-972-12	IR-6 BOARD	
6	2-290-601-00	TERMINAL (A), BATTERY		14	2-290-611-00	CASE, LOWER	
7	2-290-602-00	TERMINAL (B), BATTERY		15	2-290-606-00	COVER, BATTERY	
8	2-294-403-00	PUSH BUTTON (S)					

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

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

STANDARD PARTS LIST

ELECTROLYTIC CAPACITORS

CAP. (μF)	RATING → : Use the high voltage rated one.						
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.	63 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47						→	→
1.0						→	→
2.2						→	→
3.3						→	→
4.7				→	→	→	→
10			→	→	→	1-123-356-00	1-123-370-00
22			→	→	→	1-123-357-00	1-123-371-00
33	→		1-123-318-00	→	1-123-343-00	→	1-123-372-00
47	→	1-123-306-00	→	1-123-332-00	→	1-123-359-00	1-123-373-00
100	→	1-123-307-00	→	1-123-333-00	1-123-345-00	1-123-360-00	1-123-374-00
220	→	1-123-308-00	1-123-321-00	1-123-334-00	1-123-346-00	1-123-361-00	1-123-375-00
330	→	1-123-309-00	1-123-322-00	1-123-335-00	1-123-347-00	1-123-362-00	1-123-376-00
470	1-123-298-00	1-123-310-00	1-123-323-00	1-123-336-00	1-123-348-00	1-123-363-00	1-123-377-00
1000	1-123-299-00	1-123-311-00	1-123-324-00	1-123-337-00	1-123-349-00	1-123-364-00	1-123-378-00
2200	1-123-300-00	→	1-123-325-00	1-123-338-00	1-123-350-00		
3300	1-123-301-00	1-123-313-00	1-123-326-00	1-123-339-00			
4700	1-123-302-00	1-123-314-00	1-123-327-00				
6800	1-123-303-00	1-123-315-00					
10000	1-123-304-00						

CAP. (μF)	100 VOLT.	166 VOLT.	250 VOLT.	250 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	1-123-379-00			
1.0	1-123-380-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-381-00	1-123-026-00	1-123-027-00	1-123-028-00
3.3	1-123-382-00	1-121-707-00	1-123-004-00	1-123-006-00
4.7	1-123-383-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-123-384-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-123-385-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-123-386-00	1-121-757-00		
47	1-123-387-00	1-121-919-00		
100	1-123-388-00			
220	1-123-389-00			
330	1-123-390-00			
470	1-123-391-00			

CERAMIC CAPACITORS

RATING							
CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (μF)	50 VOLT.
	PART No.		PART No.		PART No.		PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-886-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

MYLAR CAPACITORS

0.001μF = 1,000pF

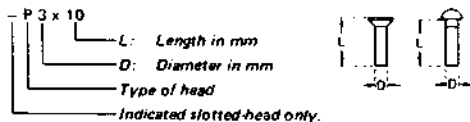
RATING											
CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	150 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.
	PART No.	PART No.	PART No.		PART No.	PART No.	PART No.		PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00		
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00		
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00		
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00		
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				

1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

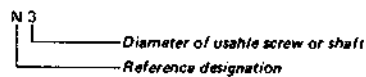
HARDWARE NOMENCLATURE

Screw:



Unless otherwise indicated, it means cross-recessed head (Phillips type).

Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazier-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

9-972-144-02
03

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SECTION 5 EXPLODED VIEWS

NOTE:

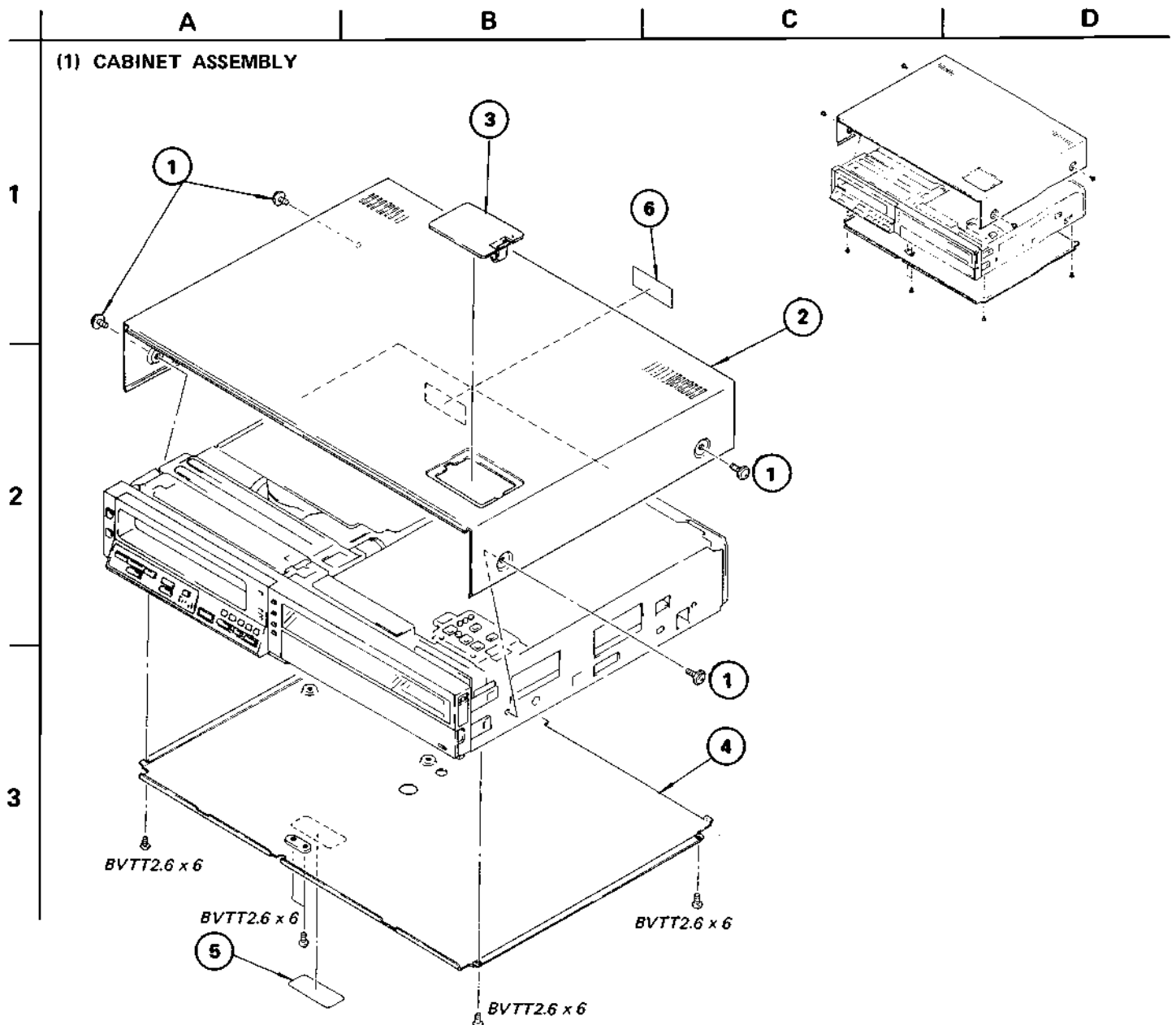
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

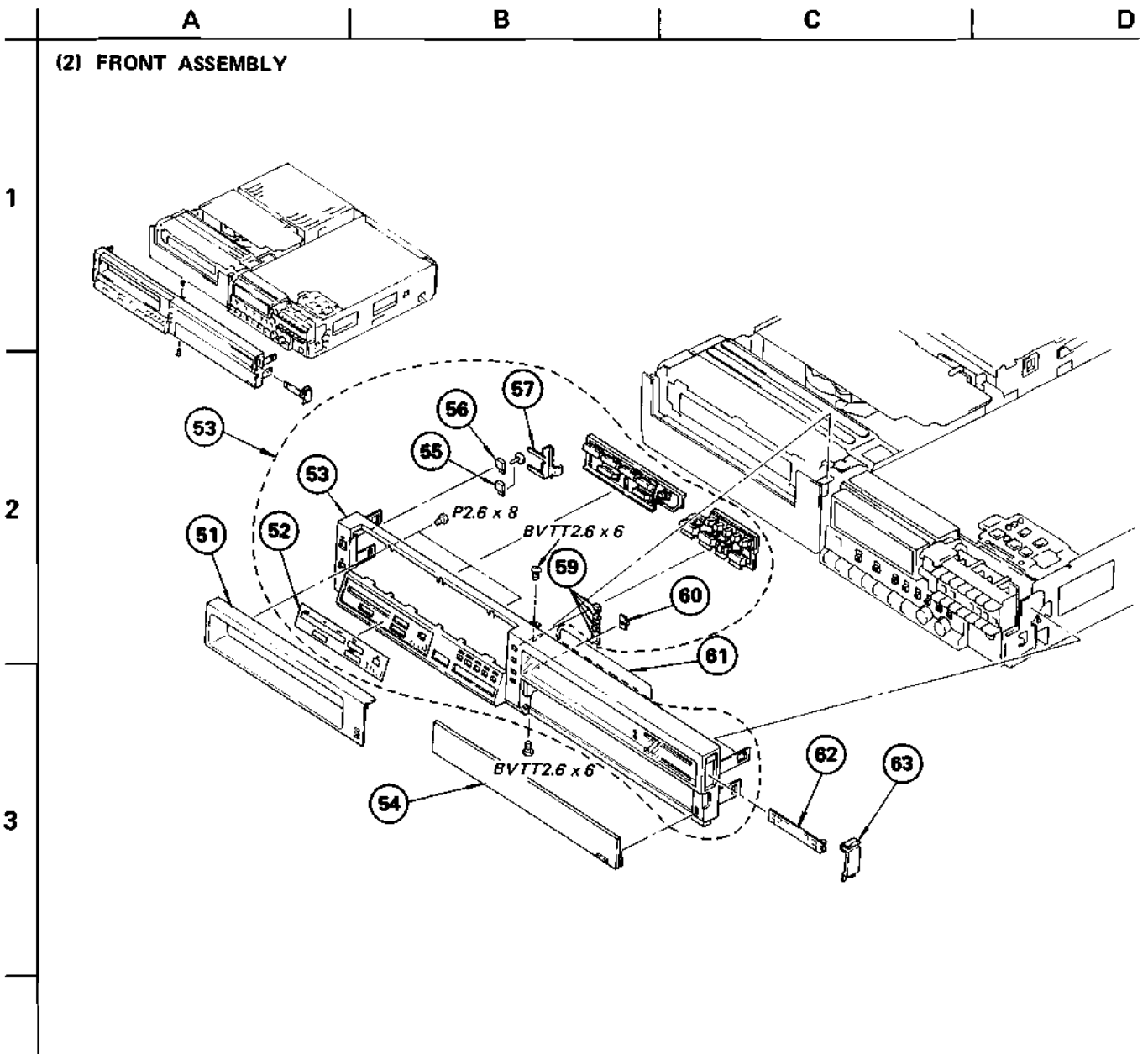
The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

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.

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

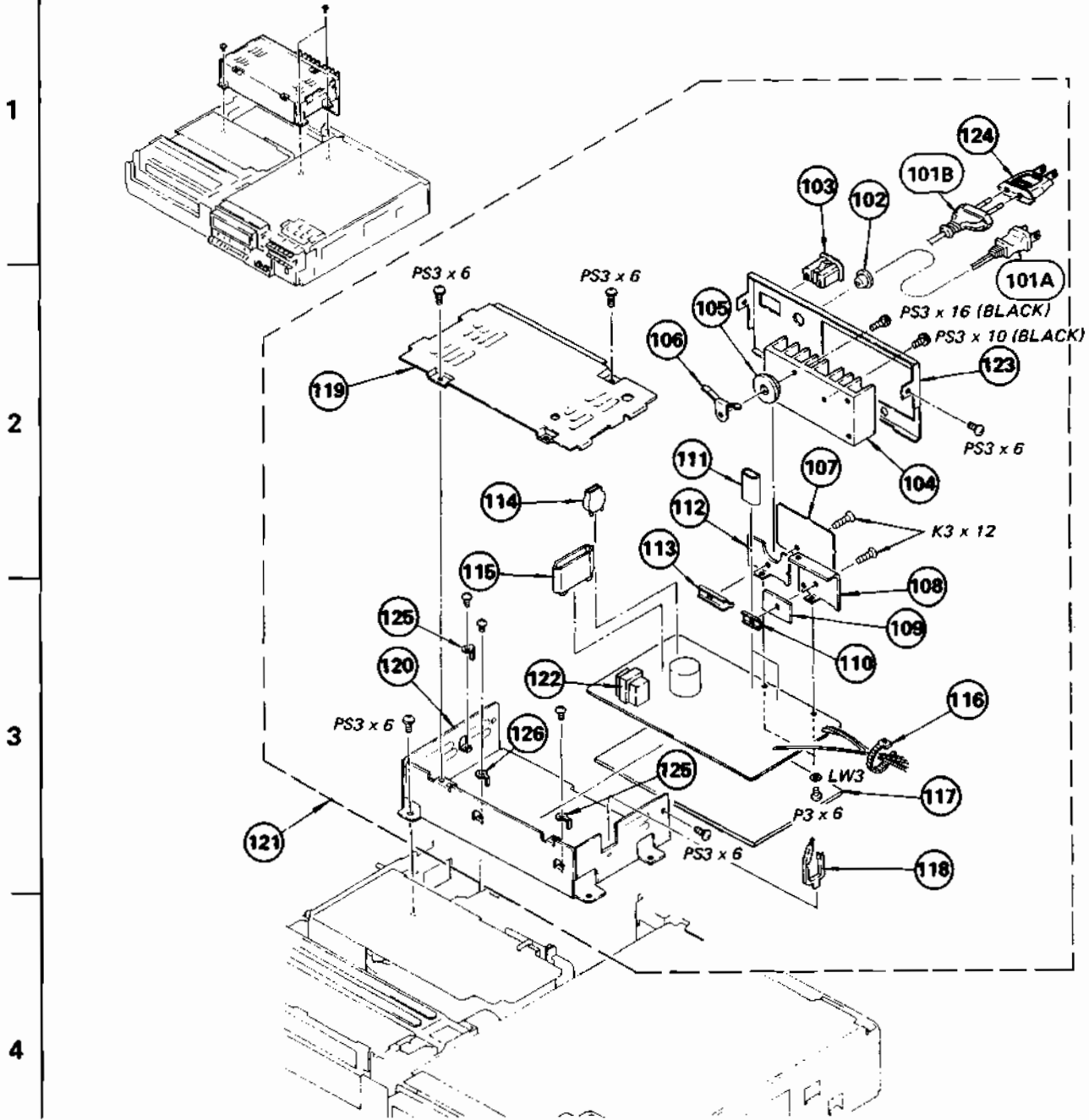


No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	3-703-354-11	SCREW (OS), CASE, CLAW		4	X-3670-039-0	PLATE ASSY, BOTTOM	5
2	X-3670-047-0	CASE ASSY (TYPE 1)		5	3-703-043-21	LABEL, MAIN CAUTION	
2	X-3670-023-1	CASE ASSY (TYPE 2)		6	▲3-671-881-00	LABEL, MODEL NUMBER (TYPE 1)	
3	4-342-123-00	DOOR, PRESET		6	▲3-675-562-01	LABEL, MODEL NUMBER (TYPE 2)	

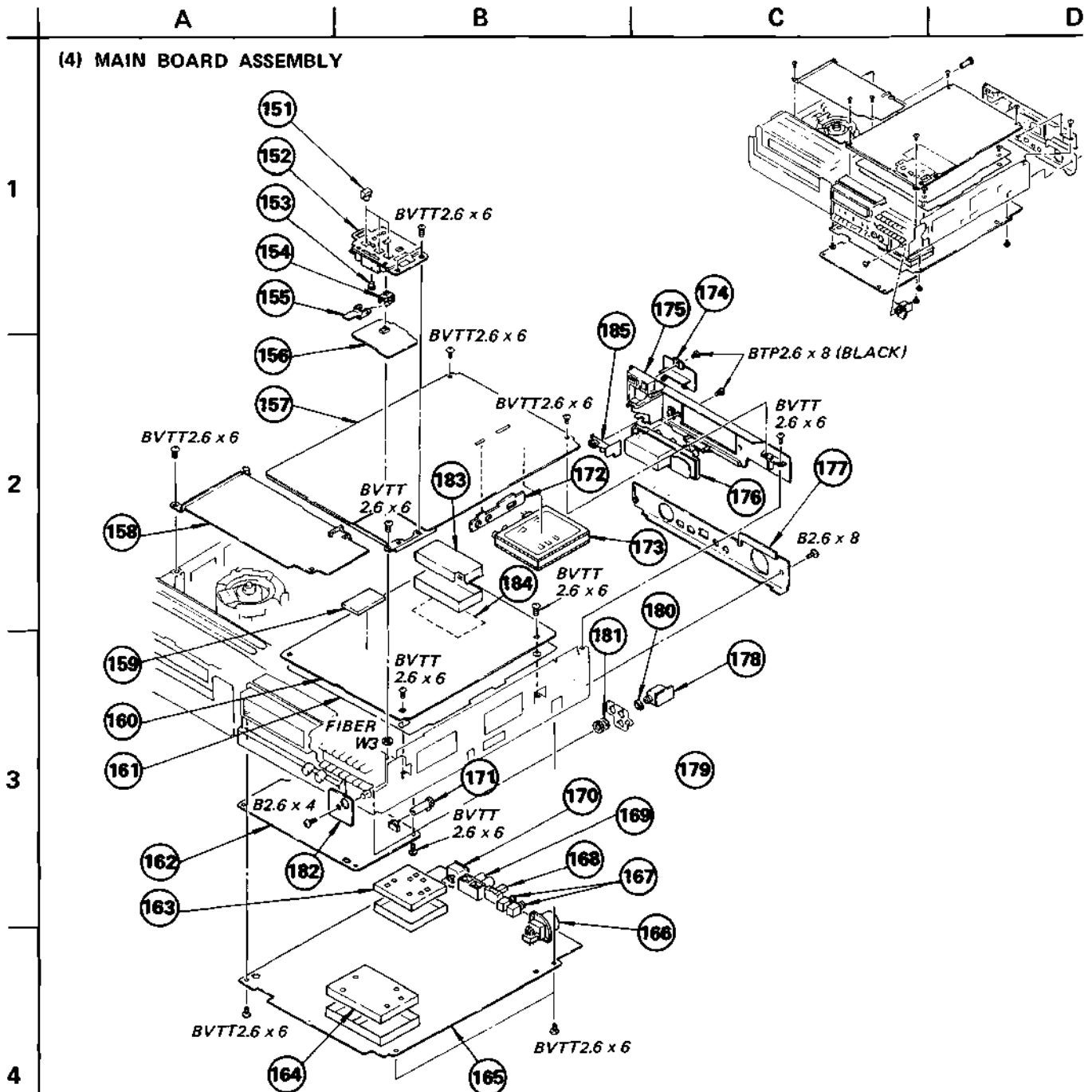


No.	Part No	Description	Remark	No.	Part No	Description	Remark
51	X-3670-038-0	GUIDE ASSY, ENTRANCE, CASSETTE		59	3-670-074-00	BUTTON, COUNTER	
52	3-670-176-00	PLATE, ORNAMENTAL, BUTTON, FU		60	3-670-075-00	LED COVER, TIMER RECORD	
53	X-3670-054-0	PANEL ASSY, FRONT	52, 55-57, 59, 60	61	3-671-861-00	COVER, TIMER	
54	X-3670-050-0	DOOR ASSY, FRONT		62	3-670-122-00	HOLDER, INDICATOR	
55	3-670-082-11	BUTTON, PE		63	3-670-087-00	FRONT (RIGHT)	
56	3-670-082-00	BUTTON, PE					
57	3-670-080-00	SPRING, LEAF (PE)					

(3) POWER ASSEMBLY



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
101A	▲1-551-964-00	CORD, POWER (TYPE 1)		120	▲9-982-198-00	CASE, LOWER (TYPE 1)	
101B	▲1-555-312-21	CORD, POWER (TYPE 2)		120	▲3-677-522-01	CASE, LOWER (TYPE 2)	
102	▲2-231-019-00	GROMMET, STRAIN RELIEF (TYPE 1)		121	▲1-413-081-11	POWER BLOCK (SR-11A)	
102	▲3-663-213-01	RETAINER, CORD (TYPE 2)				101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 122, 123	(TYPE 1)
▲103	▲1-561-347-00	SOCKET, AC (TYPE 1)		121	▲1-413-116-11	POWER BLOCK (SR-11PH)	
104	▲9-982-200-00	HEAT SINK, FIN				101, 102, 104, 105, 106, 108, 110, 111, 112, 113, 114, 116, 117, 118, 119, 120, 122, 123	(TYPE 2)
105	▲2-291-522-00	WASHER INSULATING		122	▲1-447-197-00	TRANSFORMER, POWER (TYPE 1)	
106	▲9-982-213-00	BRACKET, UP		122	▲1-446-932-00	TRANSFORMER, POWER (TYPE 2)	
107	▲9-982-204-00	SHEET, INSULATING (TYPE 1)		123	▲9-982-265-00	PANEL, CASE (TYPE 1)	
108	▲9-982-202-00	HEAT SINK, SP		123	▲3-677-520-01	PANEL (TYPE 2)	
109	▲9-982-203-00	SHEET, INSULATING (TYPE 1)		124	▲1-506-409-00	ADAPTOR, CONVERSION (TYPE 2)	
110	▲9-982-021-00	RETAINER, SP		125	▲9-982-214-01	LUG (A) (TYPE 2)	
111	▲2-291-517-00	SHEET INSULATING, UP TO, 3		126	▲9-982-215-01	LUG (B) (TYPE 2)	
112	▲2-291-515-00	HEAT SINK, UP					
113	▲2-291-519-00	RETAINER, UP					
114	▲2-291-547-00	COVER, CAPACITOR					
115	▲4-316-137-00	COVER, CAPACITOR (TYPE 1)					
116	▲3-701-748-00	CLAMP, HARNESS					
117	▲9-982-208-00	PLATE, INSULATING (TYPE 1)					
118	▲4-316-015-00	CLAMP, HARNESS					
119	▲9-982-197-00	CASE, UPPER					



No.	Part No	Description	Remark	No.	Part No	Description	Remark
151	2-291-041-00	BUTTON (A), PRESET		169	1-507-742-00	JACK, PIN 2P	
152	X-3670-025-0	PRESET ASSY	151,153	170	1-561-703-00	CONNECTOR, DIN 8P	
153	3-669-528-00	CAP, BUTTON		171	3-670-149-00	KNOB, V SYNCHRONOUS	
154	3-670-148-00	KEY (P), SLIDE		172	▲:1-605-575-00	TU-22 BOARD	
155	3-670-138-00	LEVER, RELEASE		173	1-463-377-00	TUNER (BT-864)	
156	▲:1-605-581-00	CH-21 BOARD		174	2-291-019-00	LID, BOOSTER	
157	▲:A-6721-086-A	TU-21 BOARD, COMPLETE		175	3-670-160-11	PANEL (UPPER), REAR	
158	▲:A-6717-236-A	RR-1A BOARD, COMPLETE		176	1-536-672-41	TERMINAL BOARD (WITH ANT SW)	
159	▲:1-606-231-00	MB-3 BOARD		177	3-671-808-03	PANEL (LOWER), REAR	
160	▲:A-6715-131-A	SS-10A BOARD, COMPLETE		178	▲:1-606-272-00	MI-2 BOARD	
161	▲:3-670-123-00	INNER, INSULATOR		179	1-507-285-00	JACK	
162	▲:A-6711-323-A	VL-3 BOARD, COMPLETE		180	3-670-164-00	SPACER, JACK	
163	▲:3-671-855-00	LID, CASE, SHIELD, VA-A		181	3-701-444-11	WASHER, 6	
164	▲:3-671-852-00	LID, CASE, SHIELD, VA-V		182	▲:3-670-171-00	PLATE (SMALL), ORNAMENTAL	
165	▲:A-6711-314-A	VA-3Z BOARD, COMPLETE		183	▲:X-3670-043-0	LID ASSY, SS-10 SHIELD CASE	
166	1-561-690-00	CONNECTOR, CAMERA 14P		184	▲:X-3670-042-0	LID ASSY, REAR, SHIELD CASE	
167	1-507-251-XX	JACK		185	▲:3-671-857-00	PLATE, GROUND	
168	1-552-821-00	SWITCH, SLIDE					

A

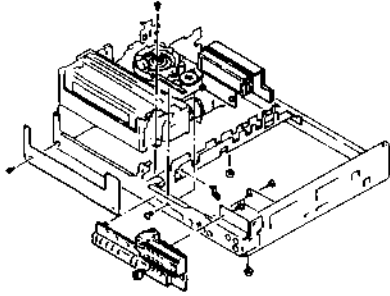
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C

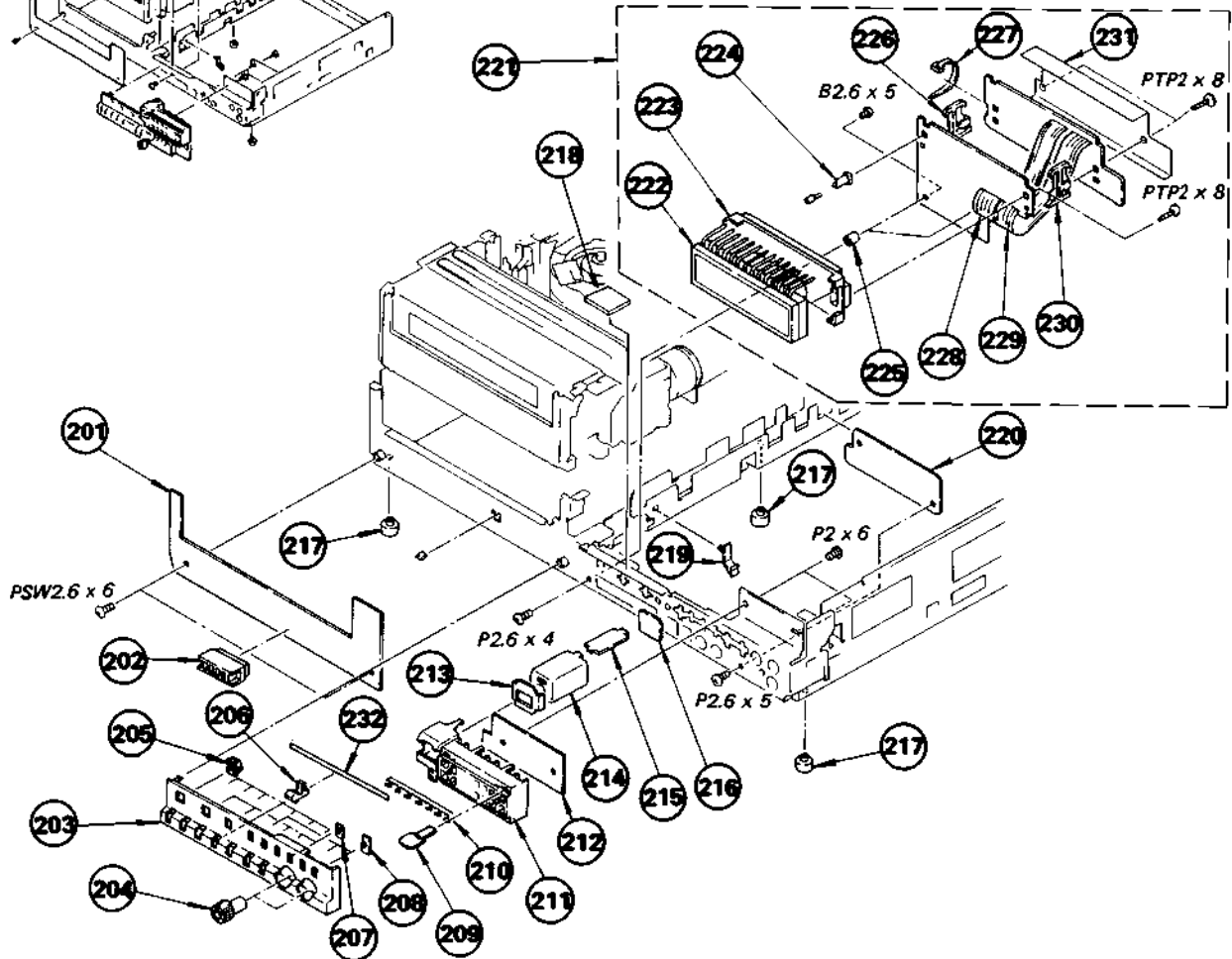
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(5) FRONT BOARD ASSEMBLY

1



2



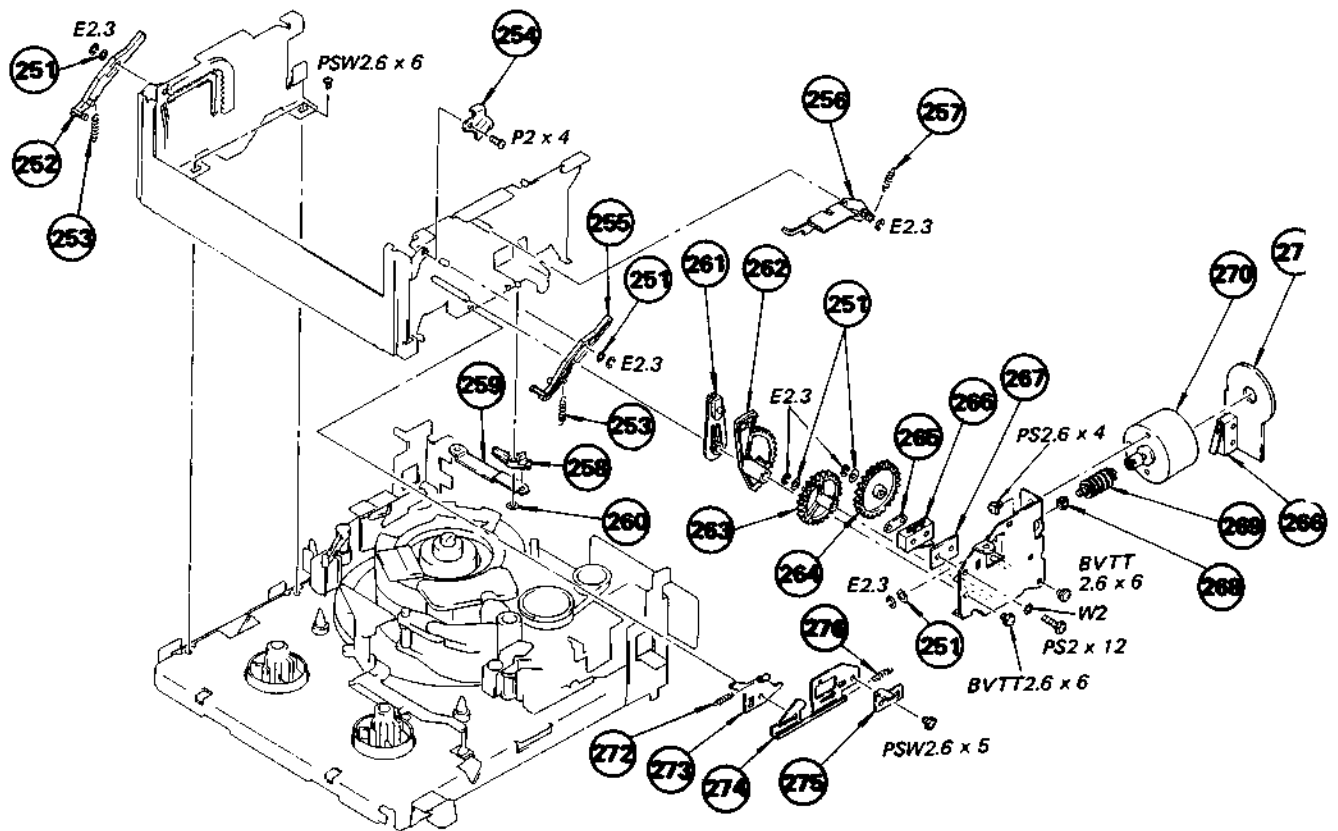
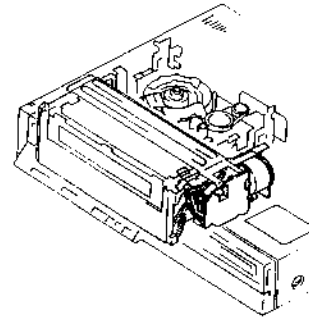
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4

No.	Part No	Description	Remark	No.	Part No.	Description	Remark
201	▲:A-6717-225-A	FU-3 BOARD, COMPLETE		218	▲:3-675-599-01	SPACER, TIMER	
202	▲:3-670-094-00	HOLDER, LED, 6 GANG		219	▲:3-701-832-00	HINGE, CIRCUIT BOARD	
203	X-3670-051-0	PANEL ASSY, SUB, FRONT		220	▲:1-605-410-00	SW-12 BOARD	
204	3-670-093-00	KNOB, TRACK CONTROL		221	1-548-552-12	TIMER BLOCK (TYPE 1)	222, 223, 224, 225, 226, 227, 228, 229, 230, 231
205	3-670-091-00	KEY (B), TACT		221	1-548-552-21	TIMER BLOCK (TYPE 2)	
206	3-670-090-00	KEY (A), TACT		222	▲:9-982-255-00	FLUORESCENT DISPLAY	
207	3-670-089-00	KEY (B), SLIDE		223	▲:9-982-256-00	HOLDER, INDICATION TUBE	
208	3-670-088-00	KEY (A), SLIDE		224	▲:9-982-259-00	HOLDER, LED	
209	2-291-024-00	BUTTON, TUNER		225	▲:9-982-257-00	SPACER, PC BOARD	
210	▲:2-291-025-00	SPRING, LEAF		226	▲:9-982-245-00	HOLDER, PC BOARD	
211	3-670-159-00	FRAME, TUNER		227	3-701-748-00	CLAMP, HARNESS	
212	▲:1-605-895-00	CH-22 BOARD		228	▲:9-982-061-00	CABLE, RIBBON 9P	
213	▲:3-671-831-00	COVER, RAY CATCHER BLOCK		229	▲:9-982-260-00	CABLE, RIBBON 10P	
214	▲:4-342-117-00	CASE, SHIELD (MAIN), R		230	▲:9-982-254-00	HOLDER, PC BOARD	
215	▲:1-603-976-00	N BOARD		231	▲:9-982-253-00	CASE ASS'Y SHIELD	
216	▲:4-342-118-00	LID, SHIELD CASE, R		232	▲:3-671-865-00	CUSHION, BUTTON	
217	3-670-155-00	LEG					

(6) CASSETTE LOADING ASSEMBLY 1

1
2
3
4



No.	Part No	Description	Remark	No.	Part No	Description	Remark
251	3-701-439-21	WASHER		264	3-670-015-00	WHEEL, WORM	
252	3-670-056-00	ARM (L), DOOR		265	3-646-476-00	NUT, PLATE	
253	3-500-130-00	SPRING, TENSION		266	1-552-664-00	SWITCH, MICRO	
254	3-671-819-00	COVER, SECTOR GEAR		267	3-534-263-00	INSULATOR	
255	3-670-057-00	ARM (R), DOOR		268	3-670-168-00	BEARING, WORM	
256	3-670-152-00	ARM, LOCK, UP		269	X-3670-001-0	WORM ASSY	
257	3-536-767-XX	SPRING, TENSION		270	X-3670-002-0	MOTOR ASSY, FL	
258	3-670-001-00	LEVER, UNLOCK		271	A-672B-246-A	LM-9 BOARD, COMPLETE	
259	3-670-034-00	JOINT, UNLOCK		272	3-530-248-XX	SPRING, TENSION	
260	3-669-465-00	WASHER (1.5), STOPPER		273	3-670-010-00	STOPPER, LOCK	
261	3-670-136-00	ARM, HOLDER DRIVING		274	3-670-009-00	PLATE, LOCK	
262	3-670-151-00	GEAR, SECTOR		275	3-670-011-00	PLATE, ADJUSTMENT, CD	
263	3-670-016-00	GEAR (A)		276	3-630-615-XX	SPRING, TENSION	

S. M. H. Co.

SECTION 5 EXPLODED VIEWS

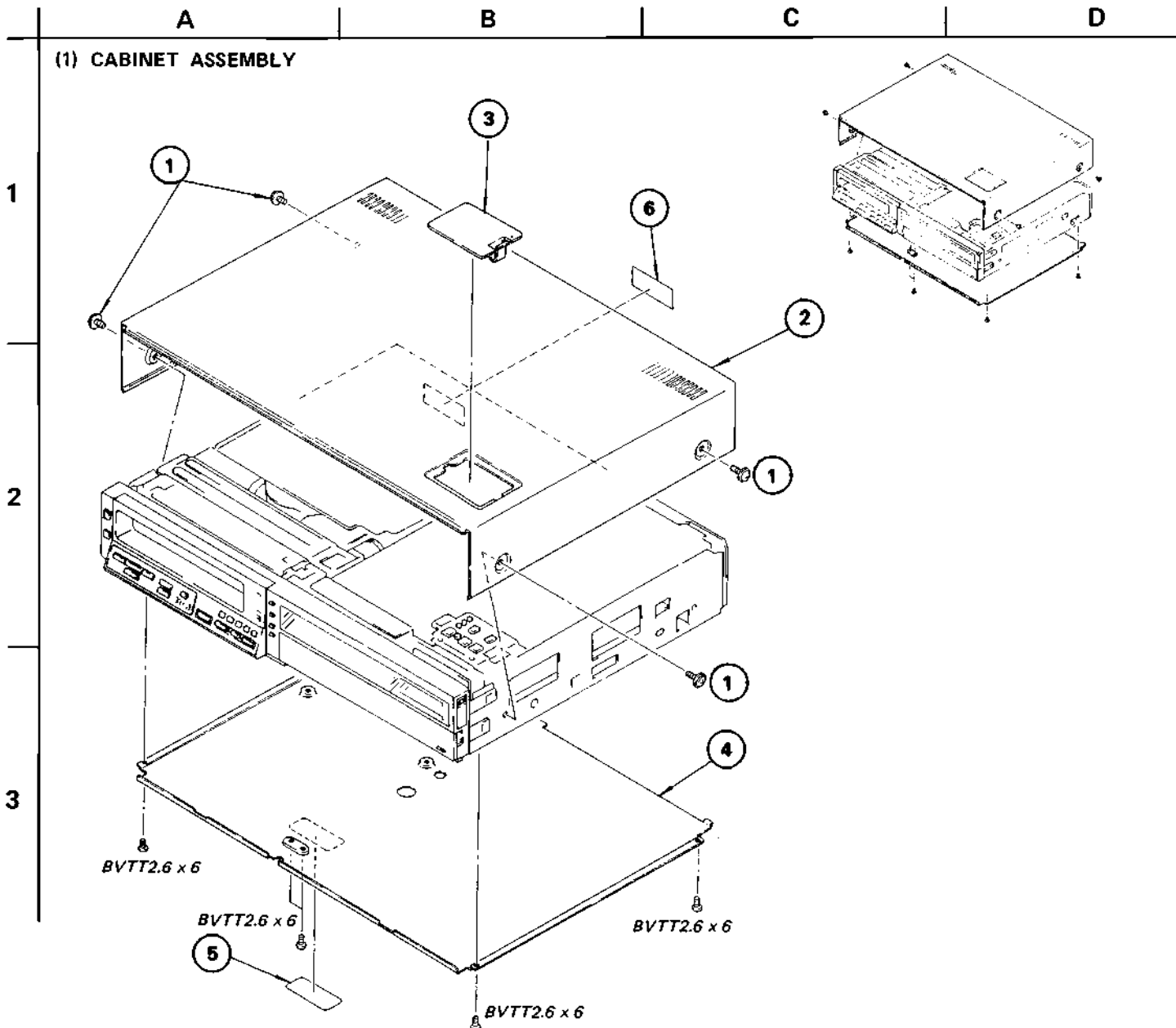
NOTE:

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- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

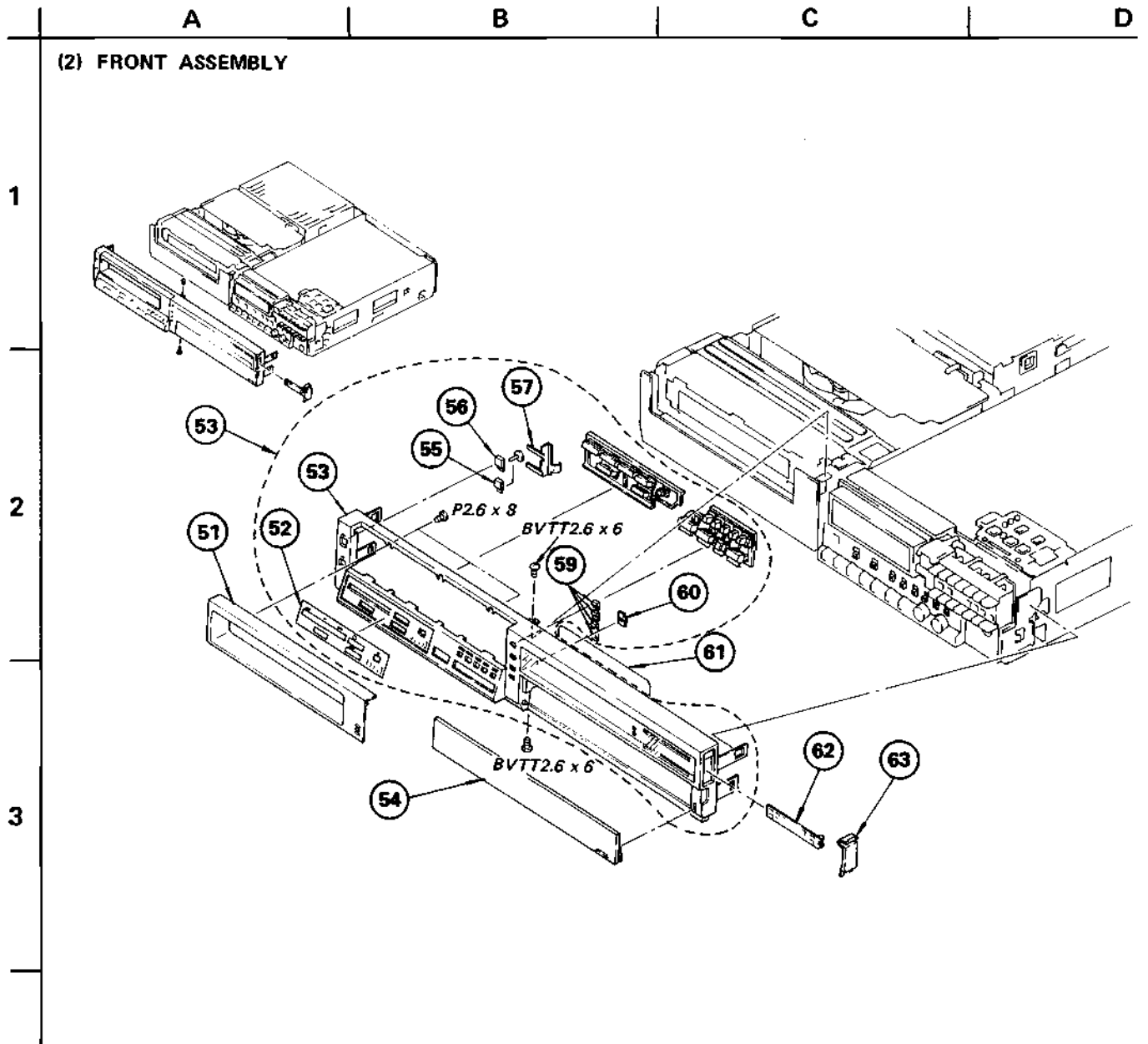
The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

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

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.

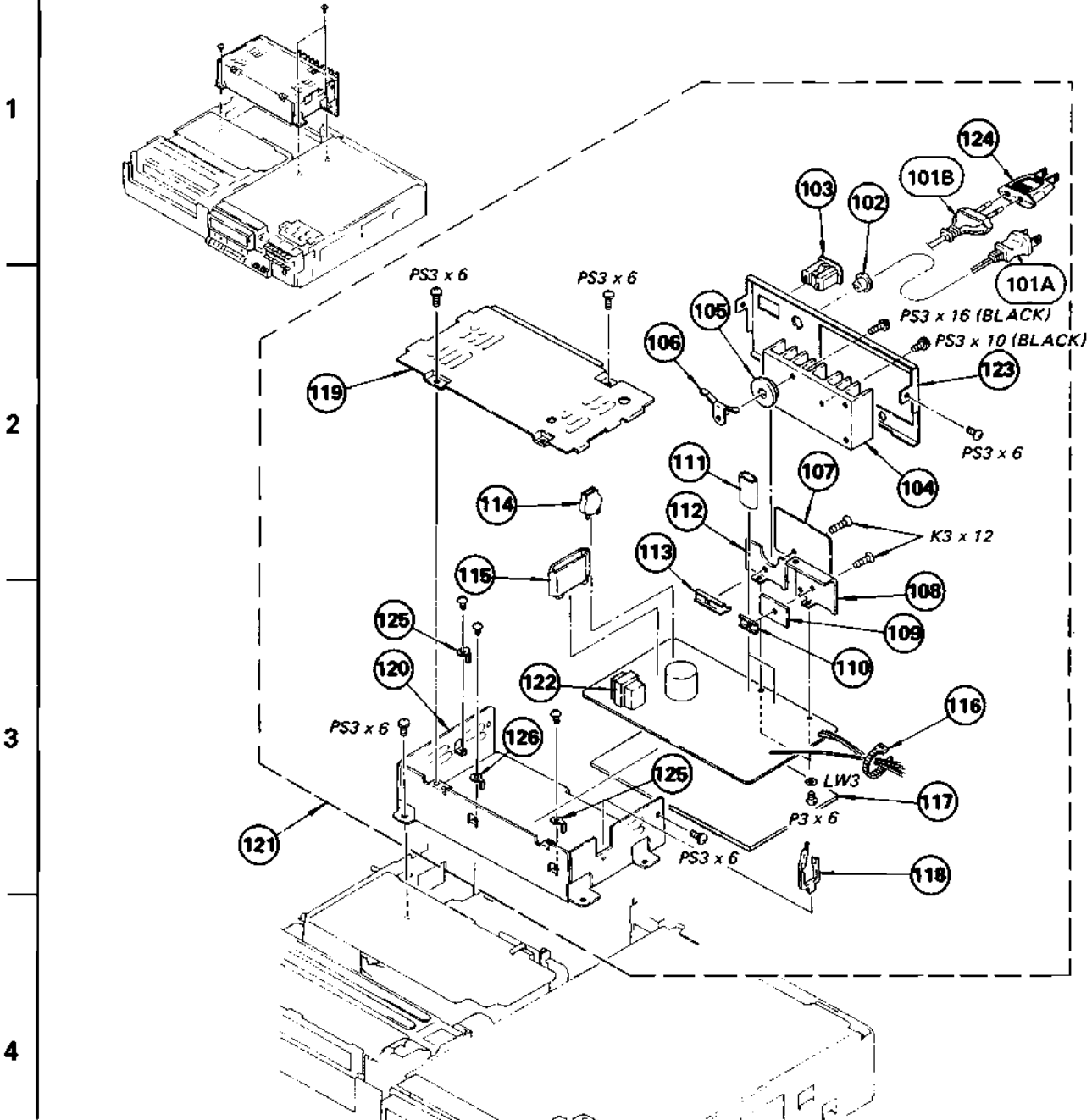


No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	3-703-354-11	SCREW (OS), CASE, CLAW		4	X-3670-039-0	PLATE ASSY, BOTTOM	5
2	X-3670-047-0	CASE ASSY (TYPE 1)		5	3-703-043-21	LABEL, MAIN CAUTION	
2	X-3670-023-1	CASE ASSY (TYPE 2)		6	▲:3-671-881-00	LABEL, MODEL NUMBER (TYPE 1)	
3	4-342-123-00	DOOR, PRESET		6	▲:3-675-562-01	LABEL, MODEL NUMBER (TYPE 2)	

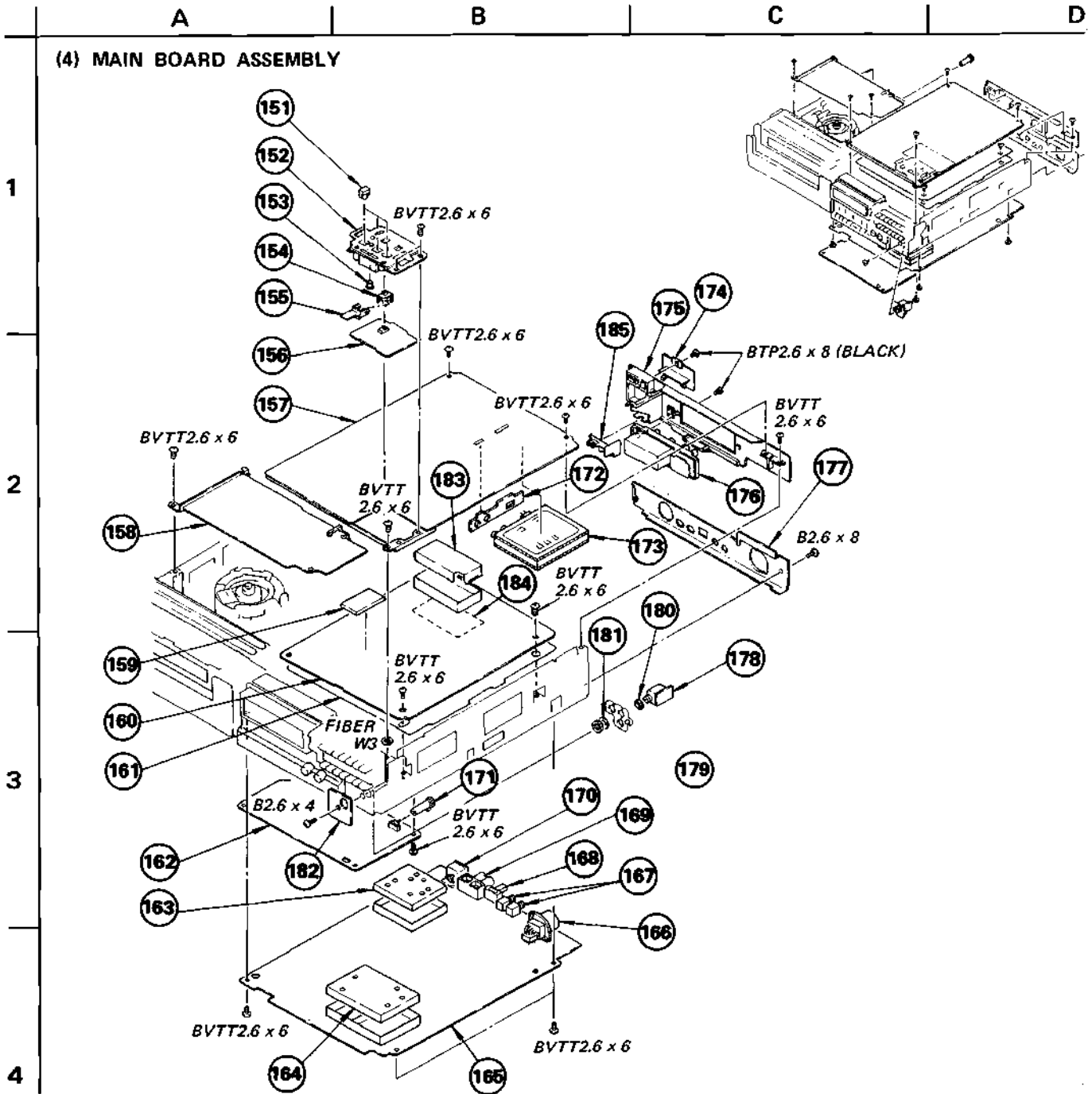


No.	Part No	Description	Remark	No.	Part No	Description	Remark
51	X-3670-038-0	GUIDE ASSY, ENTRANCE, CASSETTE		59	3-670-074-00	BUTTON, COUNTER	
52	3-670-176-00	PLATE, ORNAMENTAL, BUTTON, FU		60	3-670-075-00	LED COVER, TIMER RECORD	
53	X-3670-054-0	PANEL ASSY, FRONT	52, 55-57, 59, 60	61	3-671-861-00	COVER, TIMER	
54	X-3670-050-0	DOOR ASSY, FRONT		62	3-670-122-00	HOLDER, INDICATOR	
55	3-670-082-11	BUTTON, PE		63	3-670-087-00	FRONT (RIGHT)	
56	3-670-082-00	BUTTON, PE					
57	3-670-080-00	SPRING, LEAF (PE)					

(3) POWER ASSEMBLY

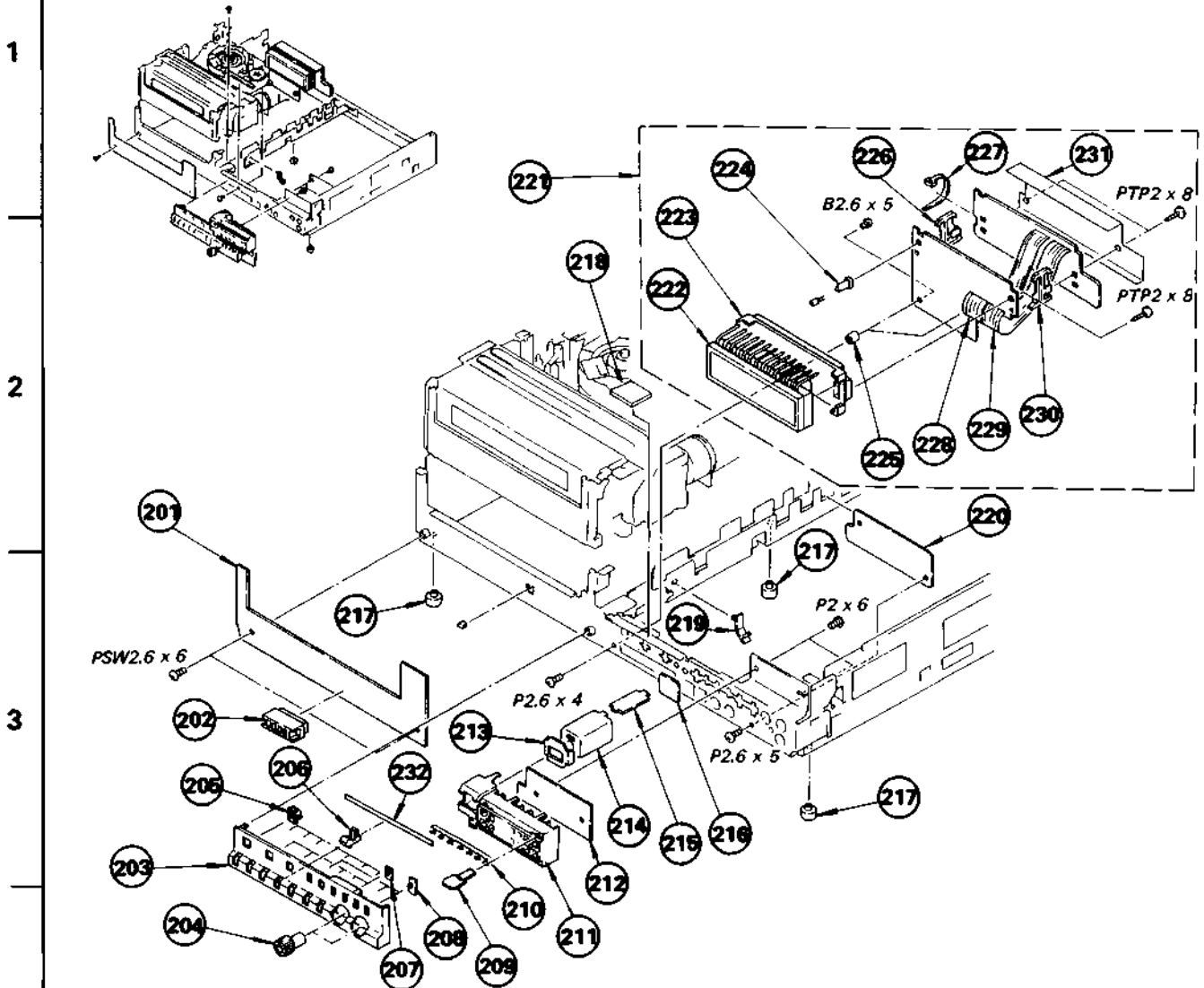


No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
101A	▲.1-551-964-00	CORD, POWER (TYPE 1)		120	▲.9-982-198-00	CASE, LOWER (TYPE 1)	
101B	▲.1-555-312-21	CORD, POWER (TYPE 2)		120	▲.3-677-522-01	CASE, LOWER (TYPE 2)	
102	▲.2-231-019-00	GROMMET, STRAIN RELIEF (TYPE 1)		121	▲.1-413-081-11	POWER BLOCK (SR-11A)	
102	▲.3-663-213-01	RETAINER, CORD (TYPE 2)				101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 122, 123	(TYPE 1)
▲103	▲.1-561-347-00	SOCKET, AC (TYPE 1)		121	▲.1-413-116-11	POWER BLOCK (SR-11PH)	
104	▲.9-982-200-00	HEAT SINK, FIN				101, 102, 104, 105, 106, 108, 110, 111, 112, 113, 114, 116, 118, 119, 120, 122, 123, 124, 125, 126	(TYPE 2)
105	▲.2-291-522-00	WASHER INSULATING		122	▲.1-447-197-00	TRANSFORMER, POWER (TYPE 1)	
106	▲.9-982-213-00	BRACKET, UP		122	▲.1-446-932-00	TRANSFORMER, POWER (TYPE 2)	
107	9-982-204-00	SHEET, INSULATING (TYPE 1)		123	▲.9-982-265-00	PANEL, CASE (TYPE 1)	
108	▲.9-982-202-00	HEAT SINK, SP		123	▲.3-677-520-01	PANEL (TYPE 2)	
109	9-982-203-00	SHEET, INSULATING (TYPE 1)		124	▲.1-506-409-00	ADAPTOR, CONVERSION (TYPE 2)	
110	▲.9-982-021-00	RETAINER, SP		125	▲.9-982-214-01	LUG (A) (TYPE 2)	
111	▲.2-291-517-00	SHEET INSULATING, UP TO, 3		126	▲.9-982-215-01	LUG (B) (TYPE 2)	
112	▲.2-291-515-00	HEAT SINK, UP					
113	▲.2-291-519-00	RETAINER, UP					
114	▲.2-291-547-00	COVER, CAPACITOR					
115	▲.4-316-137-00	COVER, CAPACITOR (TYPE 1)					
116	▲.3-701-748-00	CLAMP, HARNESS					
117	▲.9-982-208-00	PLATE, INSULATING (TYPE 1)					
118	▲.4-316-015-00	CLAMP, HARNESS					
119	▲.9-982-197-00	CASE, UPPER					

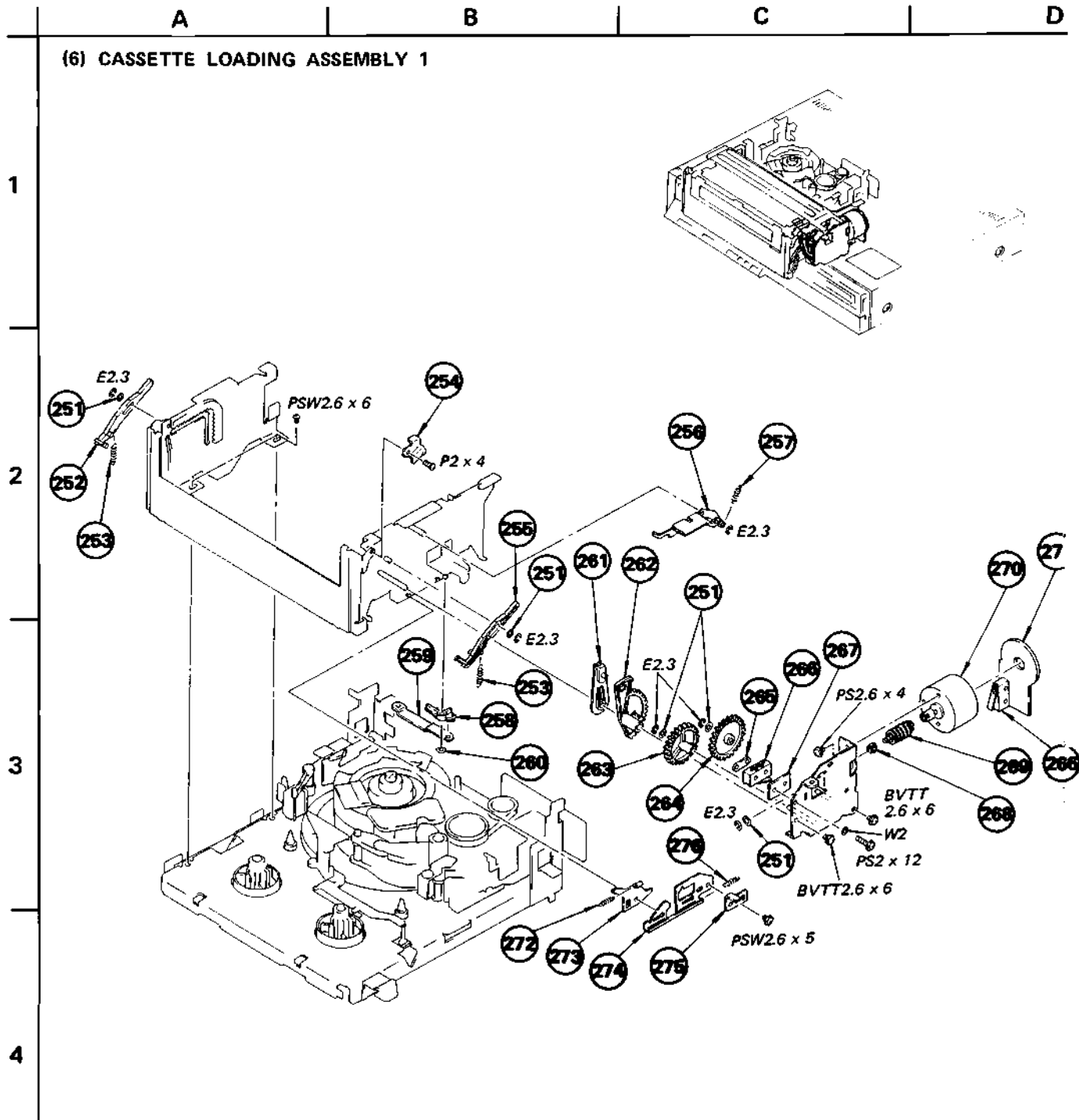


No.	Part No	Description	Remark	No.	Part No	Description	Remark
151	2-291-041-00	BUTTON (A), PRESET		169	1-507-742-00	JACK, PIN 2P	
152	X-3670-025-0	PRESET ASSY	151,153	170	1-561-703-00	CONNECTOR, DIN 8P	
153	3-669-528-00	CAP, BUTON		171	3-670-149-00	KNOB, V SYNCHRONOUS	
154	3-670-148-00	KEY (P), SLIDE		172	▲:1-605-575-00	TU-22 BOARD	
155	3-670-138-00	LEVER, RELEASE		173	1-463-377-00	TUNER (BT-864)	
156	▲:1-605-581-00	CH-21 BOARD		174	2-291-019-00	LID, BOOSTER	
157	▲:A-6721-086-A	TU-21 BOARD, COMPLETE		175	3-670-160-11	PANEL (UPPER), REAR	
158	▲:A-6717-236-A	RR-1A BOARD, COMPLETE		176	1-536-672-41	TERMINAL BOARD (WITH ANT SW)	
159	▲:1-606-231-00	MB-3 BOARD		177	3-671-808-03	PANEL (LOWER), REAR	
160	▲:A-6715-131-A	SS-10A BOARD, COMPLETE		178	▲:1-606-272-00	MI-2 BOARD	
161	▲:3-670-123-00	INNER, INSULATOR		179	1-507-285-00	JACK	
162	▲:A-6711-323-A	VL-3 BOARD, COMPLETE		180	3-670-164-00	SPACER, JACK	
163	▲:3-671-855-00	LID, CASE, SHIELD, VA-A		181	3-701-444-11	WASHER, 6	
164	▲:3-671-852-00	LID, CASE, SHIELD, VA-V		182	▲:3-670-171-00	PLATE (SMALL), ORNAMENTAL	
165	▲:A-6711-314-A	VA-3Z BOARD, COMPLETE		183	▲:X-3670-043-0	LTD ASSY, SS-10 SHIELD CASE	
166	1-561-690-00	CONNECTOR, CAMERA 14P		184	▲:X-3670-042-0	LTD ASSY, REAR, SHIELD CASE	
167	1-507-251-XX	JACK		185	▲:3-671-857-00	PLATE, GROUND	
168	1-552-821-00	SWITCH, SLIDE					

(5) FRONT BOARD ASSEMBLY



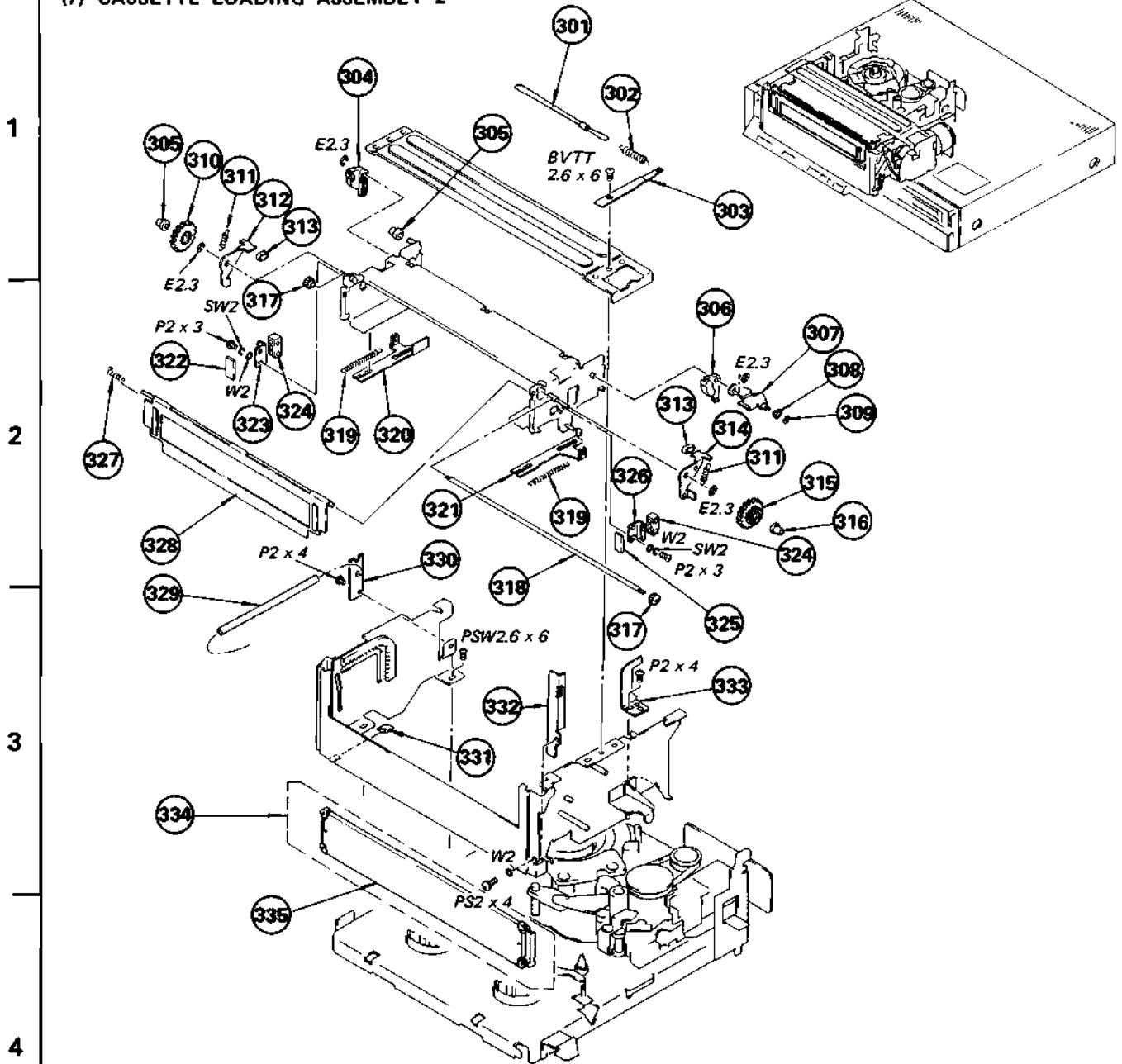
No.	Part No	Description	Remark	No.	Part No.	Description	Remark
201	▲:A-6717-225-A	FU-3 BOARD, COMPLETE		218	▲:3-675-599-01	SPACER, TIMER	
202	▲:3-670-094-00	HOLDER, LED, 6 GANG		219	▲:3-701-832-00	HINGE, CIRCUIT BOARD	
203	X-3670-051-0	PANEL ASSY, SUB, FRONT		220	▲:1-605-410-00	SW-12 BOARD	
204	3-670-093-00	KNOB, TRACK CONTROL		221	1-548-552-12	TIMER BLOCK (TYPE 1)	222, 223, 224, 225, 226,
205	3-670-091-00	KEY (B), TACT		221	1-548-552-21	TIMER BLOCK (TYPE 2)	227, 228, 229, 230, 231
206	3-670-090-00	KEY (A), TACT		222	▲:9-982-255-00	FLUORESCENT DISPLAY	
207	3-670-089-00	KEY (B), SLIDE		223	▲:9-982-256-00	HOLDER, INDICATION TUBE	
208	3-670-088-00	KEY (A), SLIDE		224	▲:9-982-259-00	HOLDER, LED	
209	2-291-024-00	BUTTON, TUNER		225	▲:9-982-257-00	SPACER, PC BOARD	
210	▲:2-291-025-00	SPRING, LEAF		226	▲:9-982-245-00	HOLDER, PC BOARD	
211	3-670-159-00	FRAME, TUNER		227	3-701-748-00	CLAMP, HARNESS	
212	▲:1-605-895-00	CH-22 BOARD		228	▲:9-982-061-00	CABLE, RIBBON 9P	
213	▲:3-671-831-00	COVER, RAY CATCHER BLOCK		229	▲:9-982-260-00	CABLE, RIBBON 10P	
214	▲:4-342-117-00	CASE, SHIELD (MAIN), R		230	▲:9-982-254-00	HOLDER, PC BOARD	
215	▲:1-603-976-00	N BOARD		231	▲:9-982-253-00	CASE ASS'Y SHIELD	
216	▲:4-342-118-00	LID, SHIELD CASE, R		232	▲:3-671-865-00	CUSHION, BUTTON	
217	3-670-155-00	LEG					



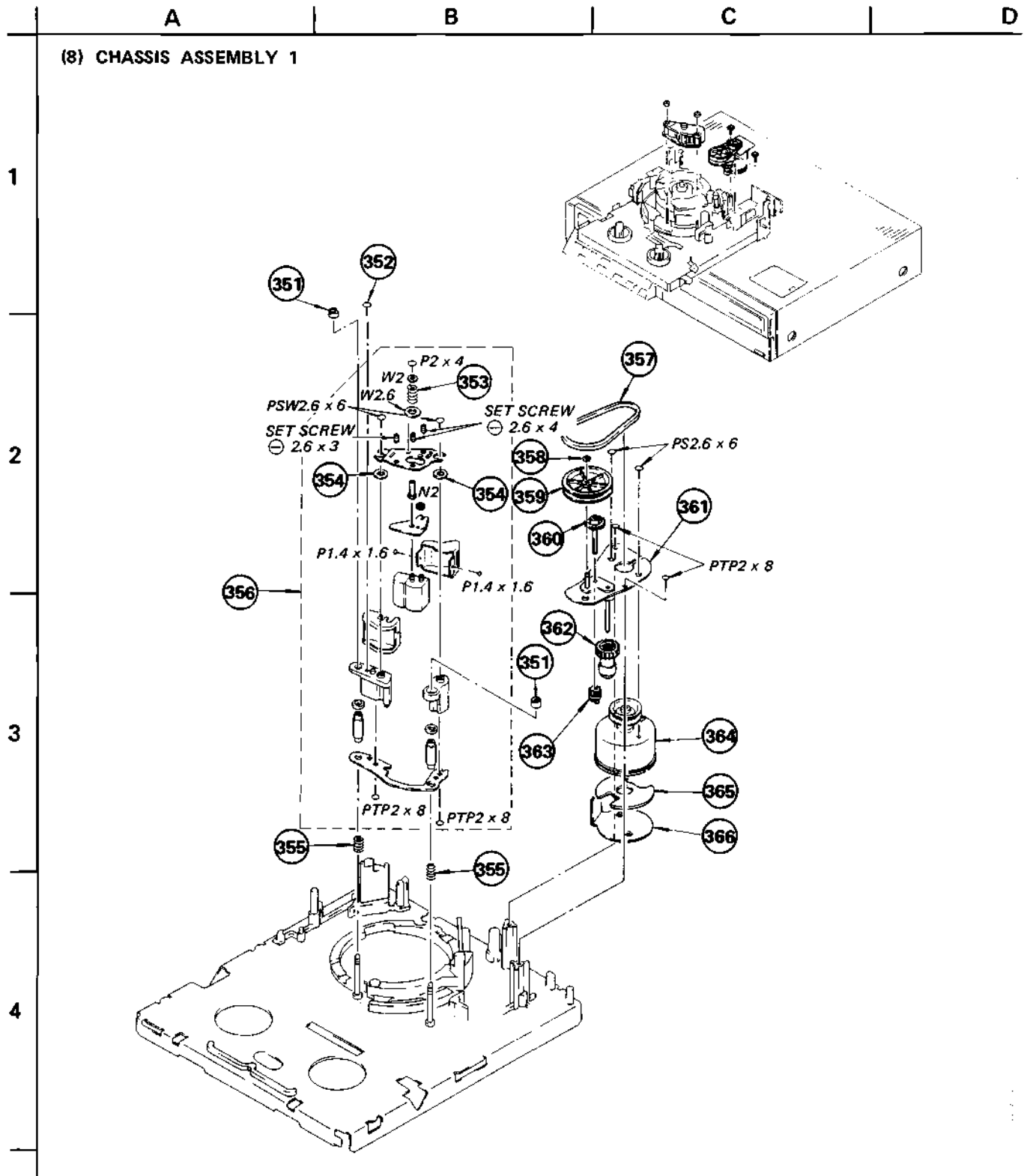
No.	Part No	Description
251	3-701-439-21	WASHER
252	3-670-056-00	ARM (L), DOOR
253	3-500-130-00	SPRING, TENSION
254	▲:3-671-819-00	COVER, SECTOR GEAR
255	3-670-057-00	ARM (R), DOOR
256	▲:3-670-152-00	ARM, LOCK, UP
257	3-536-767-XX	SPRING, TENSION
258	3-670-001-00	LEVER, UNLOCK
259	3-670-034-00	JOINT, UNLOCK
260	3-669-465-00	WASHER (1.5), STOPPER
261	3-670-136-00	ARM, HOLDER DRIVING
262	3-670-151-00	GEAR, SECTOR
263	3-670-016-00	GEAR (A)

Remark	No.	Part No	Description	Remark
	264	▲:3-670-015-00	WHEEL, WORM	
	265	▲:3-646-476-00	NUT, PLATE	
	266	1-552-664-00	SWITCH, MICRO	
	267	3-534-263-00	INSULATOR	
	268	▲:3-670-168-00	BEARING, WORM	
	269	X-3670-001-0	WORM ASSY	
	270	X-3670-002-0	MOTOR ASSY, FL	
	271	▲:A-6728-246-A	LM-9 BOARD, COMPLETE	
	272	3-530-248-XX	SPRING, TENSION	
	273	▲:3-670-010-00	STOPPER, LOCK	
	274	▲:3-670-009-00	PLATE, LOCK	
	275	▲:3-670-011-00	PLATE, ADJUSTMENT, CD	
	276	3-630-615-XX	SPRING, TENSION	

(7) CASSETTE LOADING ASSEMBLY 2



No.	Part No	Description	Remark	No.	Part No	Description	Remark
301	3-671-863-00	STRING, PULL, WIRE		318	▲:3-670-053-00	SHAFT, JOINT	
302	3-535-021-00	SPRING, TENSION		319	3-489-310-XX	SPRING, TENSION	
303	3-671-864-00	PLATE, SPRING HOOK		320	▲:3-670-036-00	PLATE (L), SLIDE, C	
304	3-670-003-00	CAM (L), C-IN		321	▲:3-670-037-00	PLATE (R), SLIDE, C	
305	3-670-018-00	ROLLER, GUIDE		322	▲:1-605-111-00	CI-2 BOARD	
306	3-670-004-00	CAM (R), C-IN		323	▲:3-670-039-00	HOLDER (R), CSW	
307	▲:X-3670-005-0	ARM ASSY, OPEN LID		324	1-553-719-00	SWITCH, MICRO	
308	3-670-054-00	ROLLER, OPEN LID		325	▲:1-605-112-00	CI-3 BOARD	
309	3-669-465-00	WASHER (1.5), STOPPER		326	▲:3-670-038-00	HOLDER (L), CSW	
310	3-670-006-00	GEAR (E)		327	3-670-058-00	SPRING, LEAF	
311	3-670-169-00	SPRING, TENSION		328	3-670-150-21	PLATE, BLIND	
312	▲:3-670-031-00	RETAINER (L), CASSETTE		329	▲:3-670-170-00	TUBE, RUBBER	
313	▲:3-646-334-00	CUSHION		330	▲:A-6728-247-A	RL-4 BOARD, COMPLETE	
314	▲:3-670-041-00	RETAINER (R), CASSETTE		331	3-573-469-00	RETAINER, LEAD, SD	
315	3-670-005-00	GEAR (B)		332	▲:3-670-032-00	RAIL (R)	
316	3-671-878-00	ROLLER (B), GUIDE		333	▲:3-670-012-00	OPEN LID	
	3-671-892-00	ROLLER (M), GUIDE		334	X-3670-044-0	DOOR ASSY, CASSETTE	335
317	3-670-007-00	GEAR (C)		335	3-670-110-11	PLATE, ORNAMENTAL, CASSETTE DOOR	



No.	Part No	Description	Remark	No.	Part No	Description	Remark
351	3-669-318-00	NUT, ADJUSTMENT, GUIDE		359	3-669-328-00	PULLEY, GEAR	
352	3-669-480-11	+ PTPWH 2		360	3-669-332-00	GEAR (BA)	
353	3-669-316-00	SPRING, COMPRESSION		361	X-3669-324-0	CHASSIS ASSY, MOTOR, L	
354	3-669-598-00	WASHER, CTL		362	X-3669-321-0	GEAR (C) ASSY	
355	3-669-317-00	SPRING, COMPRESSION		363	3-669-333-00	GEAR (BC)	
356	A-6761-043-A	ACE ASSY (M-2)		364	A-6737-090-A	ASSY, L MOTOR	
357	3-669-327-00	BELT, RUBBER		365	A-6728-243-A	LM-8 BOARD, COMPLETE	
358	3-669-465-00	WASHER (1.5), STOPPER		366	3-669-613-00	INSULATOR, L MOTOR	

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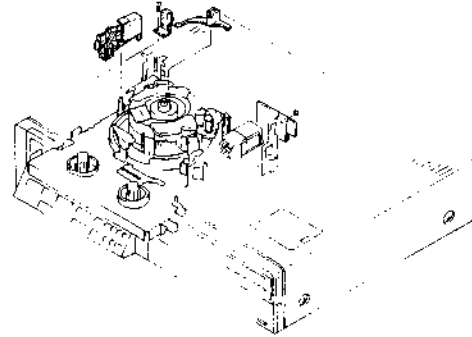
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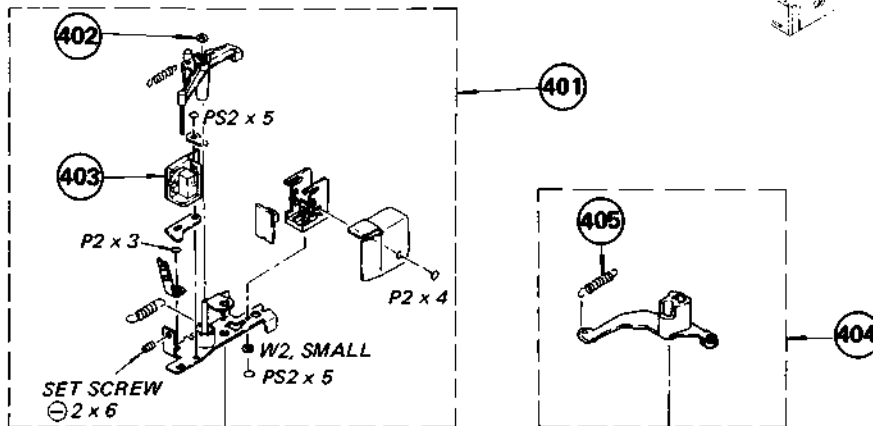
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(9) CHASSIS ASSEMBLY 2

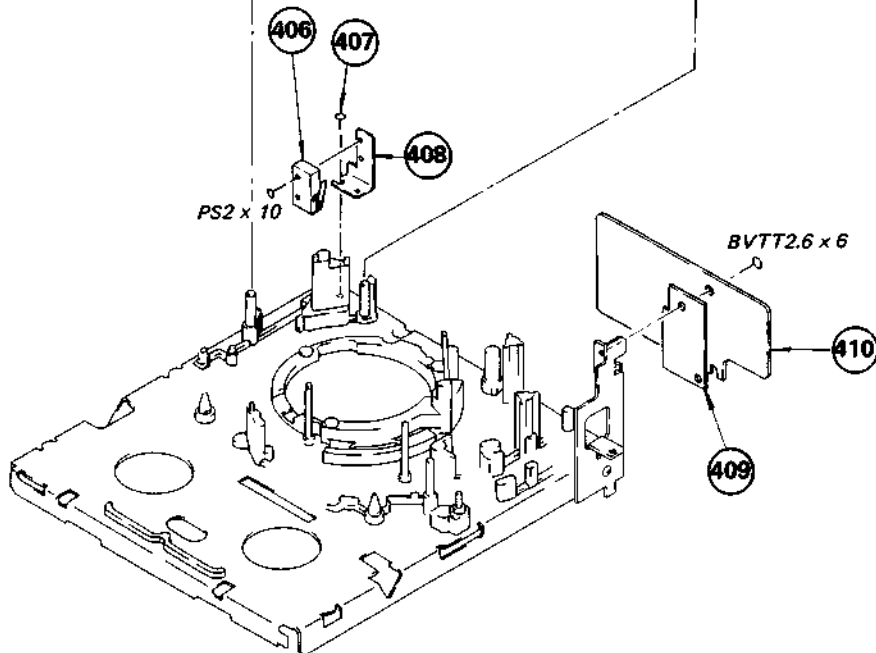
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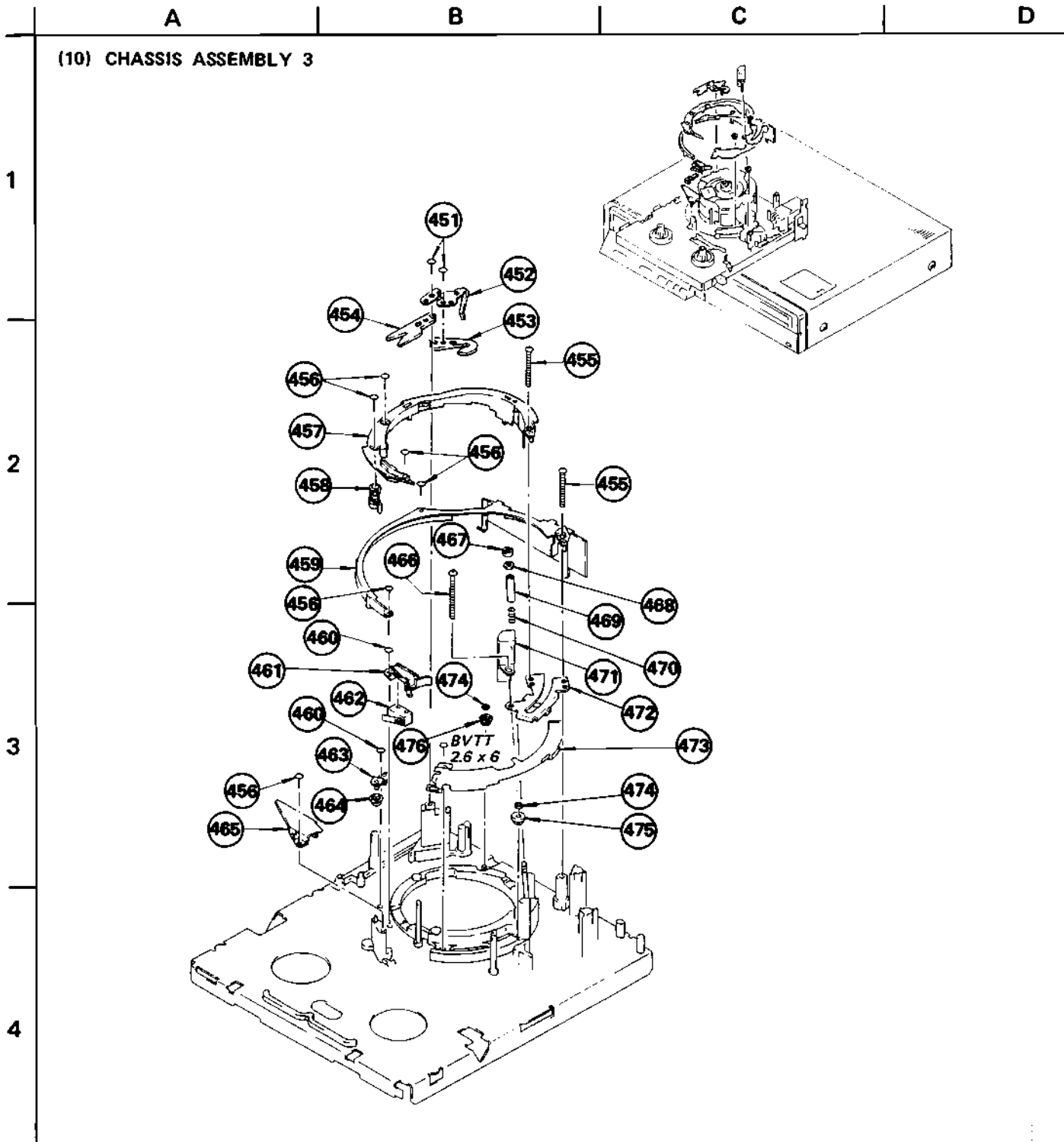


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No.	Part No	Description	Remark	No.	Part No	Description	Remark
401	A-6742-037-A	TP ASSY		406	1-552-664-00	SWITCH, MICRO	
402	3-669-465-00	WASHER (1.5), STOPPER		407	3-669-607-00	+PSM (SMALL ROUND) 2.6	
403	1-235-054-21	COIL, SENSOR, S		408	3-669-354-00	BRACKET, SWITCH, LE	
404	X-3669-351-0	ARM ASSY, LOCK	405	409	3-670-167-00	INSULATOR	
405	3-140-194-XX	SPRING, TENSION		410	1-606-001-00	RL-7 BOARD	



No.	Part No	Description	Remark	No.	Part No	Description	Remark
451	3-669-480-00	+ PTPWH 2		464	3-669-360-00	ROLLER, RING	
452	▲:3-669-621-00	PLATE, GROUND, TAPE GUIDE		465	▲:3-669-476-04	PLATE, GUIDE	
453	▲:3-672-507-00	PLATE (3-1), ADJUSTMENT		466	3-669-606-00	SCREW (2.6)	
454	▲:3-669-618-00	PLATE (2), ADJUST		467	3-669-446-00	NUT, GUIDE, NO. 6	
455	3-669-466-00	SCREW (M 2.6)		468	3-669-447-00	FLANGE, GUIDE, NO. 6	
456	3-669-480-11	+ PTPWH 2		469	3-669-445-00	SPACER, GUIDE, NO. 6	
457	▲:3-669-584-00	GUIDE (1), SHUTTLE		470	3-669-615-00	SPRING, COMPRESSION	
458	X-3669-327-0	ARM ASSY, SWITCH, ULE		471	8-825-508-10	HEAD, FE	
459	▲:3-669-585-00	GUIDE (2), SHUTTLE		472	▲:X-3669-313-0	BASE ASSY, SLANT	
460	3-669-607-11	+PSW (SMALL ROUND) (2.6)		473	▲:3-669-477-00	LINER, LINK, PIN	
461	▲:3-669-355-00	HOLDER, SWITCH, ULE		474	3-669-465-00	WASHER (1.5), STOPPER	
462	1-553-718-00	SWITCH, MICRO		475	3-669-597-00	ROLLER (B), RING	
463	▲:X-3669-329-0	PLATE ASSY, ADJUSTMENT		476	3-669-630-00	ROLLER (C), RING	

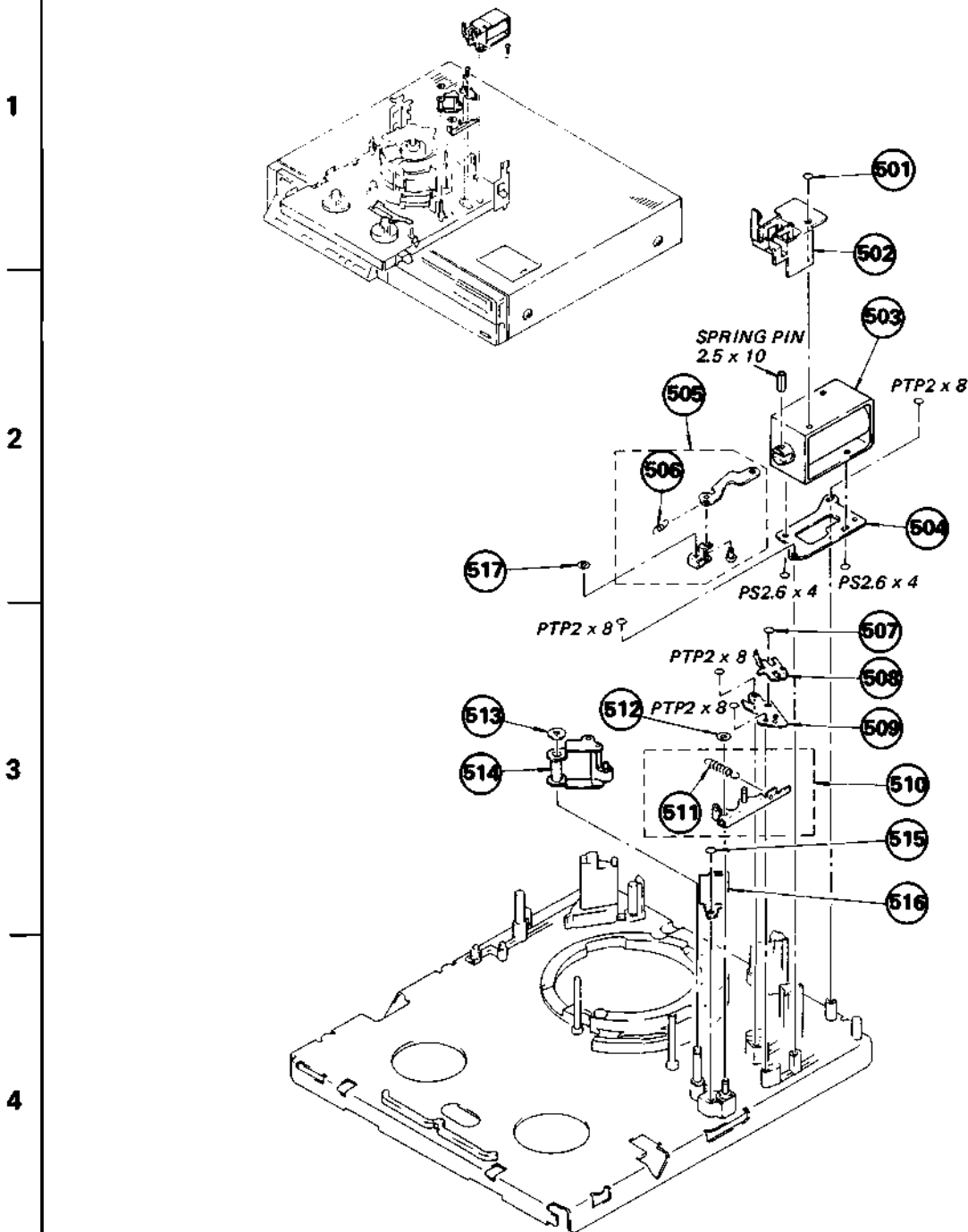
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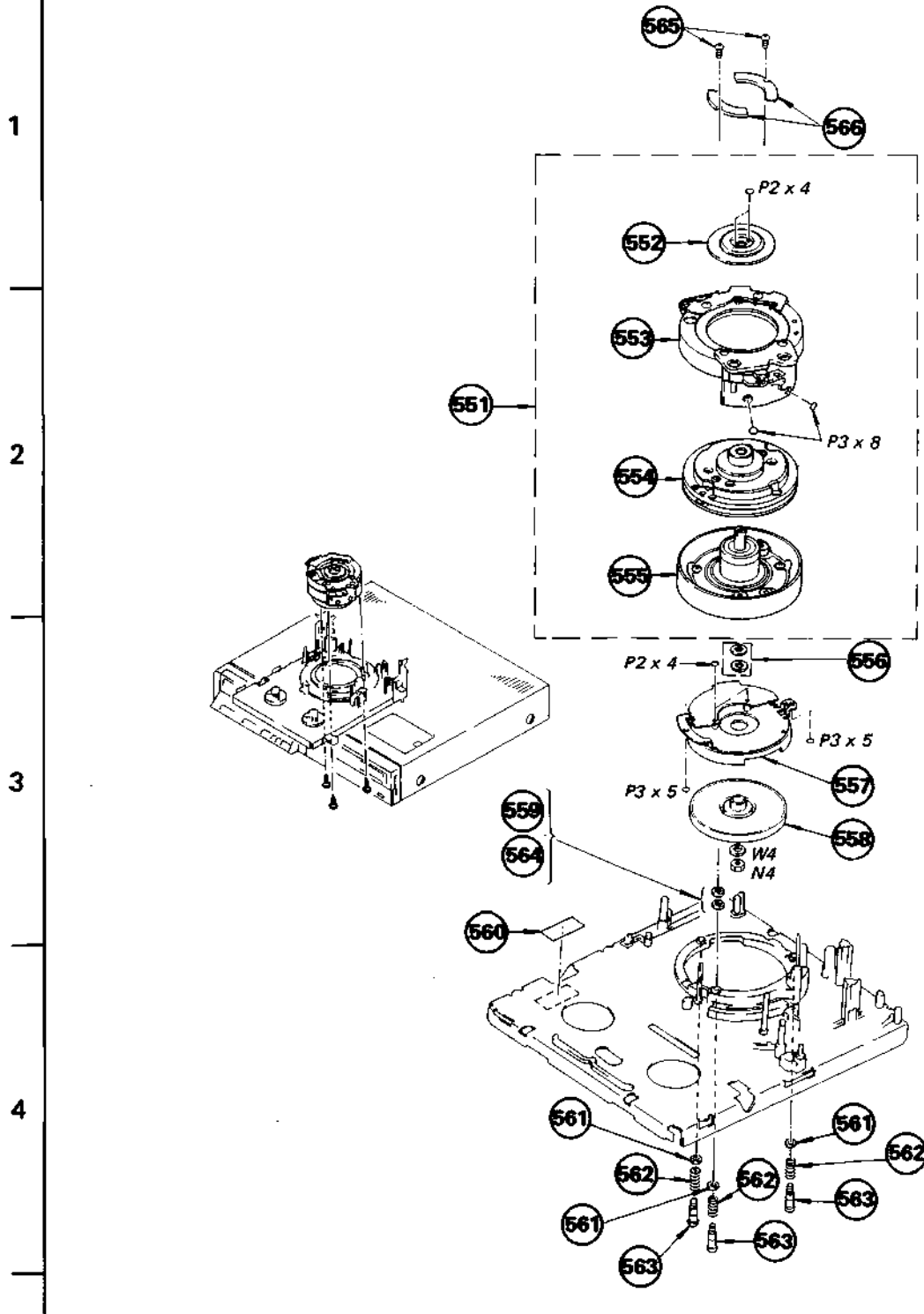
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(11) CHASSIS ASSEMBLY 4



No.	Part No	Description	Remark	No.	Part No	Description	Remark
501	3-669-607-11	+PSW (SMALL ROUND) (2.6)		510	▲:X-3669-379-0	ARM (P) ASSY, PINCH LIMITER	511
502	▲:3-671-827-00	CLAMP (D), HARNESS		511	3-465-159-XX	SPRING, TENSION	
503	1-454-282-00	SOLENOID, PLUNGER		512	3-669-595-00	WASHER (2), STOPPER	
504	▲:3-669-459-00	BRACKET, SOLENOID		513	3-669-596-00	WASHER (2.3), STOPPER	
505	X-3669-365-0	ARM ASSY, PINCH SOLENOID	506	514	▲:X-3669-309-0	ARM ASSY, PRESS, PINCH	
506	3-669-440-00	SPRING, TENSION		515	3-669-480-11	+ PTPWH 2	
507	3-669-607-31	+PSW (SMALL ROUND) (2.6)		516	1-235-055-21	COIL SENSOR, T	
508	▲:3-669-462-00	PLATE, ADJUSTMENT, LIMITER, PINCH		517	3-669-465-00	WASHER (1.5), STOPPER	
509	▲:3-669-349-00	PLATE, LOCK, T					

(12) DRUM ASSEMBLY



No.	Part No	Description
551	A-6050-116-A	DRUM ASS'Y DSH-16A-R
552	X-3669-106-0	DAMPER ASS'Y
553	A-6760-064-A	DRUM ASS'Y, UPPER
554	A-6762-063-A	DISK ASS'Y
555	A-6762-060-B	FLANGE ASS'Y LOWER DRUM
556	X-3669-105-0	SPACER BLOCK ASS'Y
557	X-2621-204-2	STATOR ASS'Y, DRUM
558	X-2621-202-0	ROTAR ASS'Y, DRUM

Remark	No.	Part No	Description	Remark
	559	3-669-646-00	SPACER, DRUM	
	560	3-701-703-00	KODA ID MARK	
	561	3-669-600-11	WASHER, FLAT (3.5)	
	562	3-429-123-00	SPRING	
	563	3-669-302-00	SCREW, FITTING	
	564	3-669-646-11	SPACER, DRUM	
	565	3-669-696-00	SCREW, WEIGHT (M2.6X6)	
	566	3-669-684-00	WEIGHT	

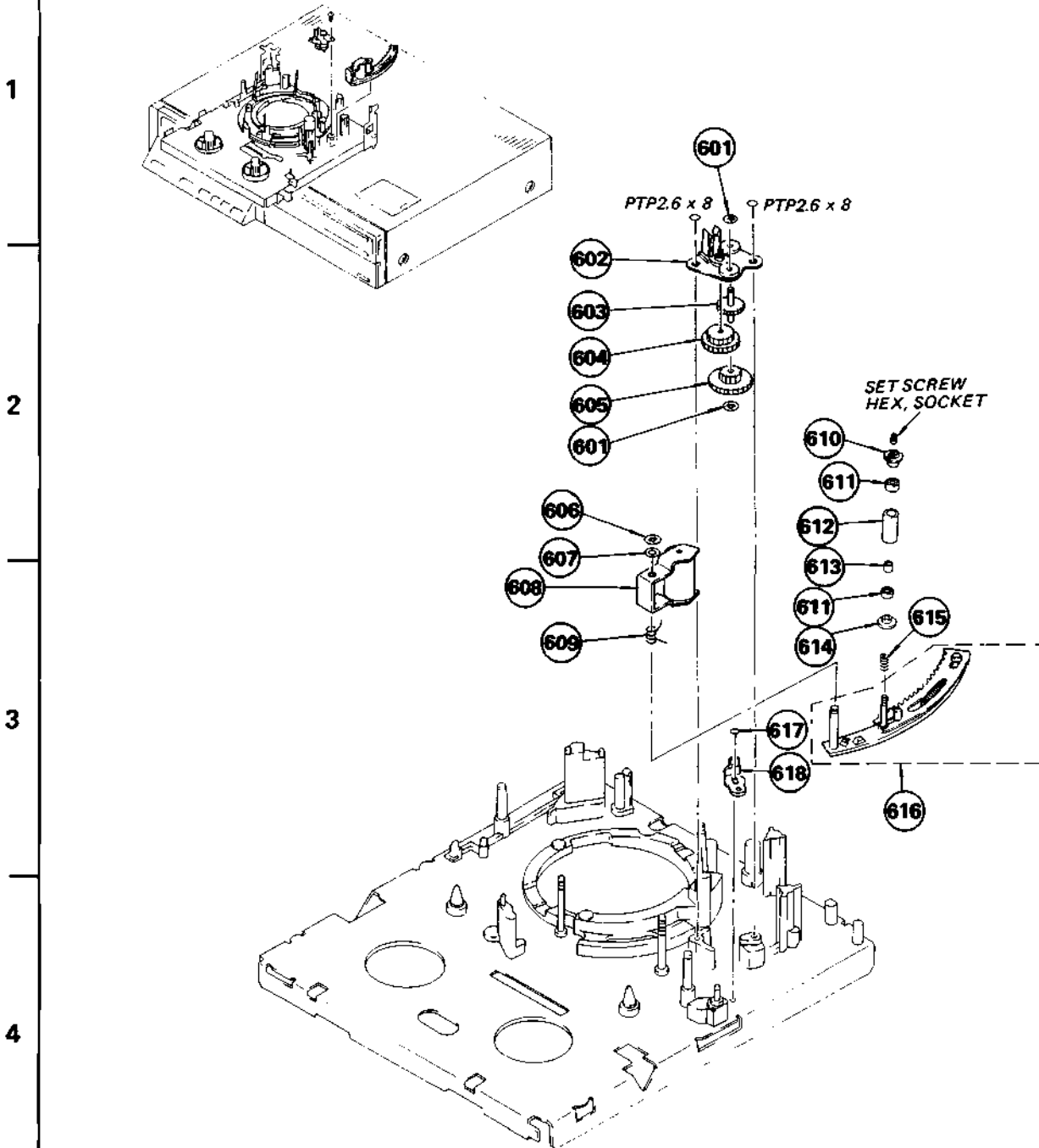
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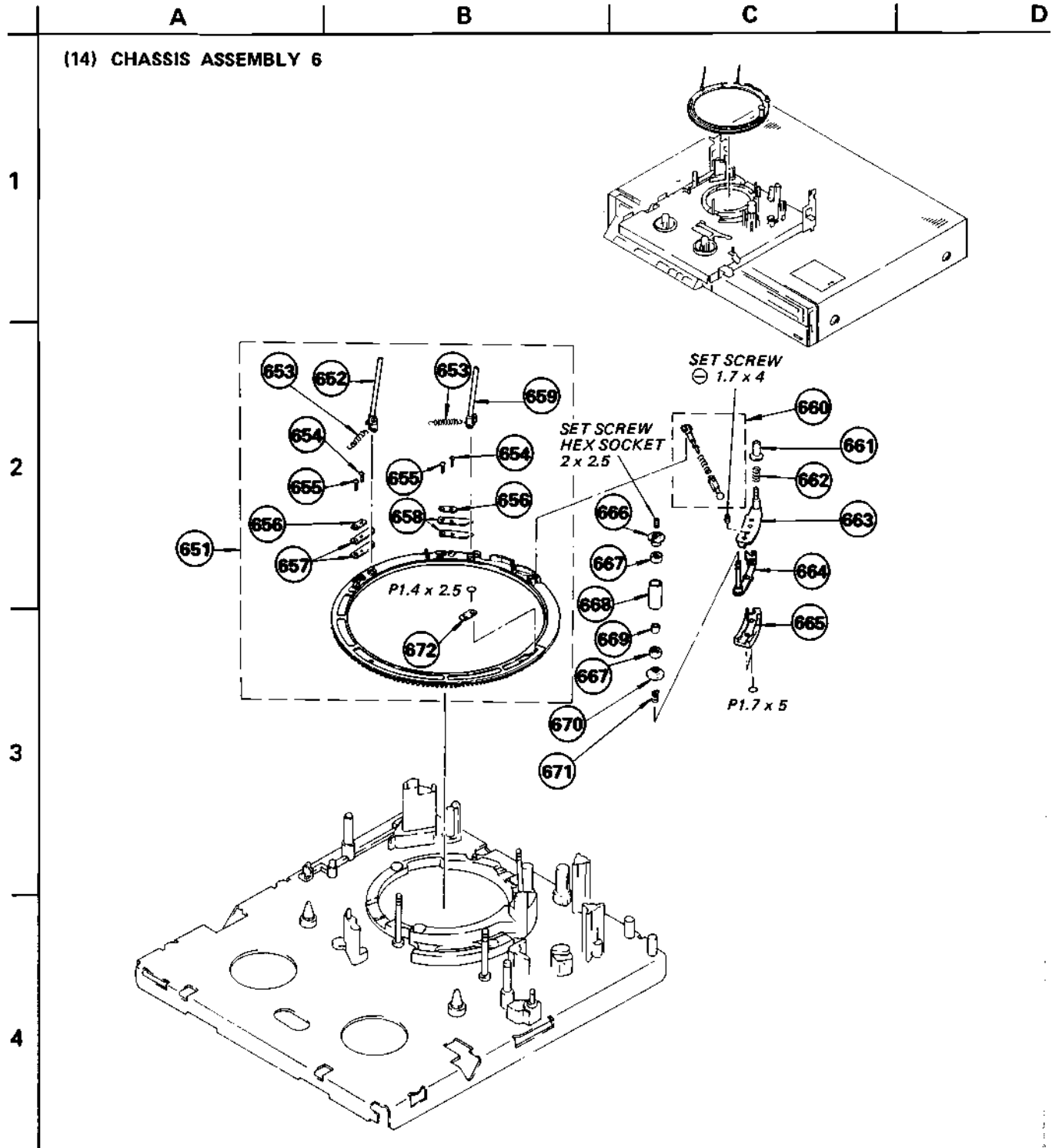
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(13) CHASSIS ASSEMBLY 5



No.	Part No	Description	Remark	No.	Part No	Description	Remark
601	3-669-465-00	WASHER (1.5), STOPPER		610	3-669-431-00	FLANGE (UPPER), GUIDE	
602	X-3669-326-0	CHASSIS ASSY, GEAR, DRIVE		611	3-669-443-00	BEARING, BALL (NO FLANGE)	
603	X-3669-305-0	GEAR (F) ASSY		612	3-669-438-00	ROLLER, GUIDE	
604	3-669-338-00	GEAR (E)		613	3-657-841-31	SPACER (DIA. 2)	
605	3-669-337-00	GEAR (D)		614	3-669-432-00	FLANGE (LOWER), GUIDE	
606	3-669-596-00	WASHER (2.3), STOPPER		615	3-669-452-00	SPRING, COMPRESSION	
607	3-701-439-01	WASHER		616	• X-3669-350-0	GEAR ASSY, SLIDER	
608	X-3669-307-0	ARM ASSY, PINCH ROLLER		617	3-669-607-11	+PSW (SMALL ROUND) (2.6)	
609	3-669-444-00	SPRING, TORSTON		618	• 3-669-350-00	STOPPER, SLIDER	



No.	Part No	Description	Remark	No.	Part No	Description	Remark
651	X-3669-353-0	RING ASSY, THREADING, S	652,653,654,655 656,657,658,659 672	661	▲:3-669-643-00	SLEEVE, GUIDE, NO. 4	
652	▲:X-3669-303-0	GUIDE ASSY, NO. 2		662	3-669-666-00	SPRING, COMPRESSION	
653	3-669-473-00	SPRING, TENSION		663	▲:X-3669-314-0	PLATE ASSY, SHUTTLE	
654	3-669-478-00	SCREW (1X3), TAPPING		664	▲:X-3669-315-0	HEAD ASSY, TILT	
655	3-669-479-11	SCREW (1.4X3.5), TAPPING		665	▲:3-669-540-00	BLOCK, SHUTTLE	
656	▲:3-669-472-00	RETAINER, SPRING, LEAF		666	3-669-431-00	FLANGE (UPPER), GUIDE	
657	3-669-470-00	SPRING (2), LEAF		667	3-669-443-00	BEARING, BALL (NO FLANGE)	
658	3-669-471-00	SPRING (3), LEAF, LIMITER		668	3-669-668-00	ROLLER, GUIDE	
659	▲:X-3669-304-0	GUIDE ASSY, NO. 3		669	3-657-841-31	SPACER (DIA. 2)	
660	X-3669-316-0	ROD ASSY, PUSH		670	3-669-667-00	FLANGE (LOWER), GUIDE	
				671	3-669-666-00	SPRING, COMPRESSION	
				672	▲:3-669-616-00	RETAINER	

A

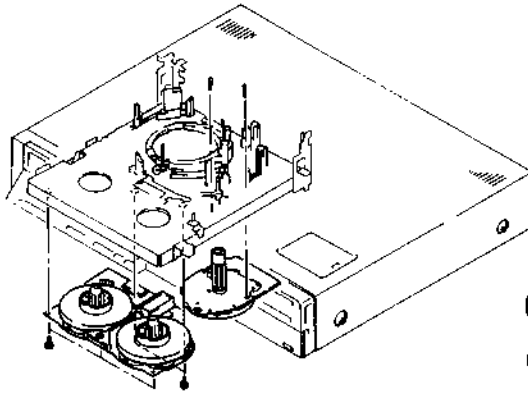
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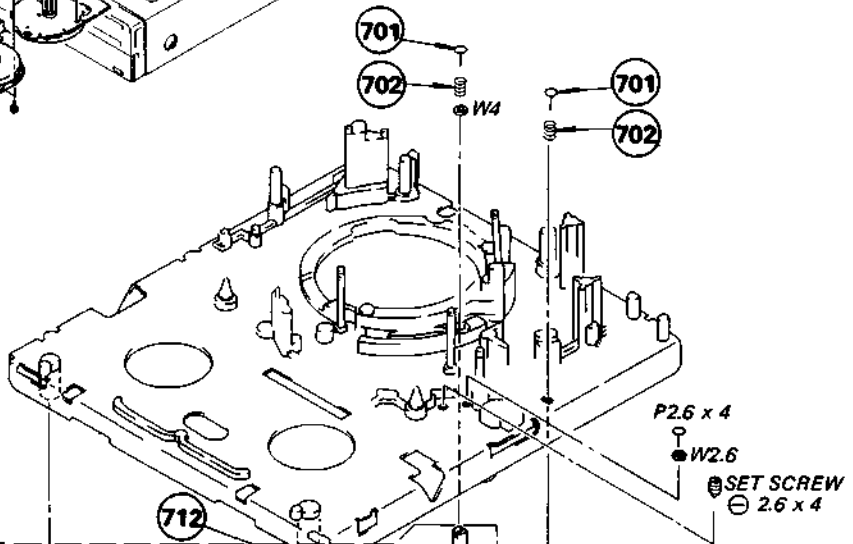
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(15) CHASSIS ASSEMBLY 7

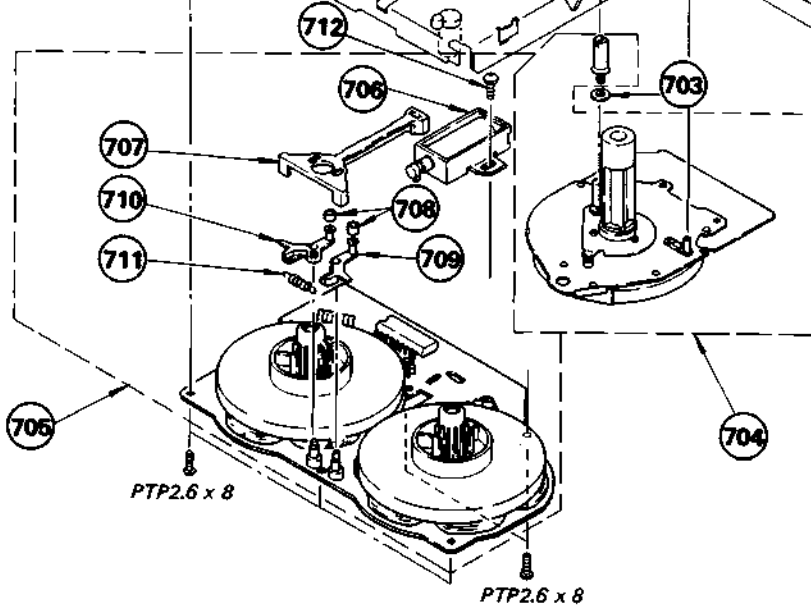
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2

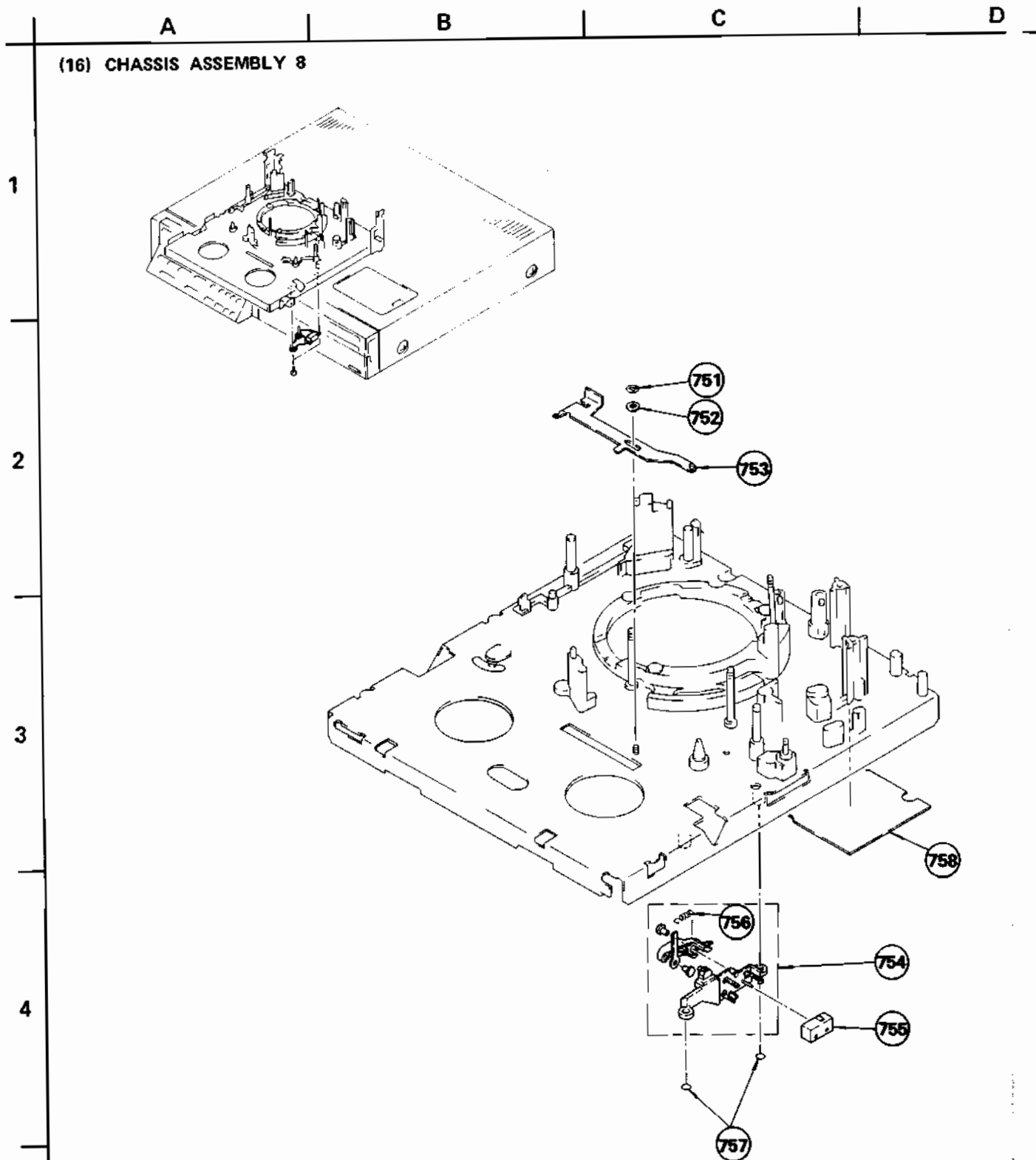


3



4

No.	Part No	Description	Remark	No.	Part No	Description	Remark
701	3-669-633-00	SCREW, + PW2		707	3-669-530-00	ARM, BRAKE	
702	3-669-602-00	SPRING, COMPRESSION		708	3-669-305-00	BUSHING	
703	3-669-697-00	SPACER, CAPSTAN		709	3-669-303-00	BRAKE, T	
704	8-838-022-11	MOTOR, DC (BHF-1900B)		710	3-669-304-00	BRAKE, S	
705	A-6737-093-A	BLOCK ASSY, L MOTOR		711	3-491-360-00	SPRING, TENSION	
706	1-454-281-00	SOLENOID, PLUNGER		712	3-669-663-00	+PSW 2.6	



(16) CHASSIS ASSEMBLY 8

No.	Part No.	Description
751	3-669-595-00	WASHER (2), STOPPER
752	3-701-438-21	WASHER
753	▲:X-3670-021-0	PLATE ASSY, UNLOCK
754	▲:X-3669-323-0	MR ASSY

Remark	No.	Part No	Description	Remark
	755	1-553-717-00	SWITCH, MICRO	
	756	▲:3-669-411-00	SPRING, TENSION	
	757	3-669-480-11	+ PTPWH 2	
	758	▲:3-669-599-00	INSULATOR	

SECTION 6 ELECTRICAL PARTS LIST

VA-3 BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
▲	A-6711-293-A	VA-3 BOARD, COMPLETE *****		C045	1-102-074-00	CERAMIC 0.001MF	10% 50V
▲	3-670-153-00	HOLDER, PCB		C046	1-102-947-00	CERAMIC 10PF	5% 50V
	3-670-164-00	SPACER, JACK		C047	1-123-330-00	ELECT 22MF	20% 16V
▲	3-671-851-00	CASE (MAIN), SHIELD, VA-V		C048	1-102-947-00	CERAMIC 10PF	5% 50V
▲	3-671-853-00	LID, REAR, CASE, SHIELD, VA-V		C049	1-102-947-00	CERAMIC 10PF	5% 50V
▲	3-671-854-00	CASE (MAIN), SHIELD, VA-A		C050	1-123-330-00	ELECT 22MF	20% 16V
▲	3-671-856-00	LID, REAR, CASE, SHIELD, VA-A		C051	1-123-340-00	ELECT 4.7MF	20% 35V
	3-671-893-00	CLAMP (LOW TYPE)		C052	1-123-330-00	ELECT 22MF	20% 16V
	3-701-444-11	WASHER, 6		C053	1-123-330-00	ELECT 22MF	20% 16V
		<u>CAPACITOR</u>		C054	1-123-330-00	ELECT 22MF	20% 16V
C001	1-123-838-00	ELECT 1000MF	20% 6.3V	C055	1-102-962-00	CERAMIC 30PF	5% 50V
C002	1-123-838-00	ELECT 1000MF	20% 6.3V	C056	1-101-888-00	CERAMIC 68PF	5% 50V
C003	1-161-013-00	CERAMIC 0.01MF	10% 25V	C057	1-102-936-00	CERAMIC 3PF	0.25PF 50V
C004	1-102-950-00	CERAMIC 13PF	5% 50V	C058	1-161-013-00	CERAMIC 0.01MF	10% 25V
C008	1-102-971-00	CERAMIC 82PF	5% 50V	C059	1-123-381-00	ELECT 2.2MF	20% 50V
C009	1-123-381-00	ELECT 2.2MF	20% 50V	C060	1-123-356-00	ELECT 10MF	20% 16V
C010	1-102-972-00	CERAMIC 91PF	5% 50V	C061	1-123-305-00	ELECT 33MF	20% 10V
C011	1-123-381-00	ELECT 2.2MF	20% 50V	C062	1-123-356-00	ELECT 10MF	20% 16V
C012	1-101-884-00	CERAMIC 56PF	5% 50V	C063	1-123-305-00	ELECT 33MF	20% 10V
C013	1-123-381-00	ELECT 2.2MF	20% 50V	C064	1-123-356-00	ELECT 10MF	20% 16V
C014	1-161-013-00	CERAMIC 0.01MF	10% 25V	C065	1-123-305-00	ELECT 33MF	20% 10V
C015	1-161-013-00	CERAMIC 0.01MF	10% 25V	C066	1-101-888-00	CERAMIC 68PF	5% 50V
C016	1-161-013-00	CERAMIC 0.01MF	10% 25V	C067	1-102-964-00	CERAMIC 36PF	5% 50V
C017	1-123-381-00	ELECT 2.2MF	20% 50V	C068	1-102-953-00	CERAMIC 18PF	5% 50V
C018	1-123-356-00	ELECT 10MF	20% 16V	C069	1-161-013-00	CERAMIC 0.01MF	10% 25V
C019	1-161-013-00	CERAMIC 0.01MF	10% 25V	C070	1-102-963-00	CERAMIC 33PF	5% 50V
C020	1-161-021-00	CERAMIC 0.047MF	10% 25V	C071	1-102-816-00	CERAMIC 120PF	5% 50V
C021	1-123-318-00	ELECT 33MF	20% 16V	C072	1-101-884-00	CERAMIC 56PF	5% 50V
C022	1-102-963-00	CERAMIC 33PF	5% 50V	C073	1-102-973-00	CERAMIC 100PF	5% 50V
C023	1-101-880-00	CERAMIC 47PF	5% 50V	C074	1-123-356-00	ELECT 10MF	20% 16V
C025	1-101-361-00	CERAMIC 150PF	5% 50V	C075	1-123-356-00	ELECT 10MF	20% 16V
C026	1-123-356-00	ELECT 10MF	20% 16V	C076	1-101-888-00	CERAMIC 68PF	5% 50V
C027	1-101-884-00	CERAMIC 56PF	5% 50V	C077	1-161-013-00	CERAMIC 0.01MF	10% 25V
C028	1-102-971-00	CERAMIC 82PF	5% 50V	C079	1-161-013-00	CERAMIC 0.01MF	10% 25V
C029	1-102-966-00	CERAMIC 43PF	5% 50V	C080	1-161-013-00	CERAMIC 0.01MF	10% 25V
C030	1-102-947-00	CERAMIC 10PF	5% 50V	C081	1-123-330-00	ELECT 22MF	20% 16V
C031	1-161-021-00	CERAMIC 0.047MF	10% 25V	C082	1-101-059-00	CERAMIC 510PF	5% 50V
C032	1-102-820-00	CERAMIC 330PF	5% 50V	C083	1-123-356-00	ELECT 10MF	20% 16V
C033	1-102-118-00	CERAMIC 0.0012MF	10% 50V	C084	1-123-356-00	ELECT 10MF	20% 16V
C034	1-161-021-00	CERAMIC 0.047MF	10% 25V	C086	1-102-074-00	CERAMIC 0.001MF	10% 50V
C035	1-102-947-00	CERAMIC 10PF	5% 50V	C089	1-123-333-00	ELECT 100MF	20% 16V
C036	1-123-330-00	ELECT 22MF	20% 16V	C090	1-123-356-00	ELECT 10MF	20% 16V
C037	1-123-356-00	ELECT 10MF	20% 16V	C091	1-123-307-00	ELECT 100MF	20% 10V
C038	1-161-013-00	CERAMIC 0.01MF	10% 25V	C092	1-123-330-00	ELECT 22MF	20% 16V
C039	1-123-380-00	ELECT 1MF	20% 50V	C093	1-123-607-00	ELECT 0.1MF	20% 50V
C040	1-123-380-00	ELECT 1MF	20% 50V	C094	1-123-332-00	ELECT 47MF	20% 16V
C041	1-102-965-00	CERAMIC 39PF	5% 50V	C095	1-123-610-00	ELECT 0.47MF	20% 50V
C042	1-123-340-00	ELECT 4.7MF	20% 35V	C096	1-161-021-00	CERAMIC 0.047MF	10% 25V
C043	1-102-074-00	CERAMIC 0.001MF	10% 50V	C097	1-123-318-00	ELECT 33MF	20% 16V
C044	1-123-305-00	ELECT 33MF	20% 10V	C098	1-130-495-00	MYLAR 0.1MF	5% 50V
				C099	1-123-356-00	ELECT 10MF	20% 16V
				C100	1-123-380-00	ELECT 1MF	20% 50V
				C101	1-102-977-00	CERAMIC 200PF	5% 50V

NOTE:

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.

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

• => Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ PF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

VA-3 BOARD

Ref.No	Part No	Description	Value	Tol	Remark	Ref.No	Part No	Description	Value	Tol	Remark
C102	1-102-820-00	CERAMIC	330PF	5%	50V	C161	1-123-356-00	ELECT	10MF	20%	16V
C103	1-123-356-00	ELECT	10MF	20%	16V	C162	1-123-356-00	ELECT	10MF	20%	16V
C104	1-108-591-00	MYLAR	0.033MF	5%	50V	C163	1-161-013-00	CERAMIC	0.01MF	10%	25V
C105	1-101-059-00	CERAMIC	510PF	5%	50V	C164	1-123-356-00	ELECT	10MF	20%	16V
C106	1-161-021-00	CERAMIC	0.047MF	10%	25V	C165	1-123-305-00	ELECT	33MF	20%	10V
C107	1-108-556-00	MYLAR	0.001MF	5%	50V	C166	1-130-495-00	MYLAR	0.1MF	5%	50V
C108	1-102-820-00	CERAMIC	330PF	5%	50V	C167	1-123-381-00	ELECT	2.2MF	20%	50V
C109	1-108-555-00	MYLAR	0.001MF	5%	50V	C168	1-123-382-00	ELECT	3.3MF	20%	50V
C110	1-123-356-00	ELECT	10MF	20%	16V	C169	1-123-382-00	ELECT	3.3MF	20%	50V
C111	1-161-021-00	CERAMIC	0.047MF	10%	25V	C170	1-123-330-00	ELECT	22MF	20%	16V
C112	1-123-306-00	ELECT	47MF	20%	10V	C171	1-102-948-00	CERAMIC	11PF	5%	50V
C113	1-123-305-00	ELECT	33MF	20%	10V	C172	1-123-356-00	ELECT	10MF	20%	16V
C114	1-101-888-00	CERAMIC	68PF	5%	50V	C174	1-102-074-00	CERAMIC	0.001MF	10%	50V
C115	1-102-963-00	CERAMIC	33PF	5%	50V	C176	1-102-947-00	CERAMIC	10PF	5%	50V
C116	1-101-059-00	CERAMIC	510PF	5%	50V	C178	1-108-583-00	MYLAR	0.015MF	5%	50V
C120	1-102-116-00	CERAMIC	680PF	10%	50V	C179	1-102-074-00	CERAMIC	0.001MF	10%	50V
C121	1-102-116-00	CERAMIC	680PF	10%	50V	C180	1-102-074-00	CERAMIC	0.001MF	10%	50V
C122	1-123-380-00	ELECT	1MF	20%	50V	C181	1-102-074-00	CERAMIC	0.001MF	10%	50V
C123	1-123-379-00	ELECT	0.47MF	20%	50V	C182	1-102-074-00	CERAMIC	0.001MF	10%	50V
C124	1-123-380-00	ELECT	1MF	20%	50V	C183	1-161-021-00	CERAMIC	0.047MF	10%	25V
C125	1-123-356-00	ELECT	10MF	20%	16V	C184	1-161-013-00	CERAMIC	0.01MF	10%	25V
C126	1-123-356-00	ELECT	10MF	20%	16V	C185	1-161-013-00	CERAMIC	0.01MF	10%	25V
C127	1-102-951-00	CERAMIC	15PF	5%	50V	C186	1-102-951-00	CERAMIC	15PF	5%	50V
C128	1-161-013-00	CERAMIC	0.01MF	10%	25V	C187	1-102-959-00	CERAMIC	22PF	5%	50V
C129	1-101-888-00	CERAMIC	68PF	5%	50V	C188	1-123-382-00	ELECT	3.3MF	20%	50V
C130	1-101-888-00	CERAMIC	68PF	5%	50V	C189	1-123-039-00	ELECT	22MF	20%	16V
C131	1-161-013-00	CERAMIC	0.01MF	10%	25V	C190	1-161-013-00	CERAMIC	0.01MF	10%	25V
C132	1-102-978-00	CERAMIC	220PF	5%	50V	C191	1-161-039-00	CERAMIC	0.001MF	10%	25V
C133	1-123-379-00	ELECT	0.47MF	20%	50V	C192	1-161-013-00	CERAMIC	0.01MF	10%	25V
C134	1-161-013-00	CERAMIC	0.01MF	10%	25V	C193	1-161-013-00	CERAMIC	0.01MF	10%	25V
C135	1-123-356-00	ELECT	10MF	20%	16V	C194	1-161-021-00	CERAMIC	0.047MF	10%	25V
C136	1-123-382-00	ELECT	3.3MF	20%	50V	C195	1-123-380-00	ELECT	1MF	20%	50V
C137	1-102-074-00	CERAMIC	0.001MF	10%	50V	C196	1-102-962-00	CERAMIC	30PF	5%	50V
C138	1-161-013-00	CERAMIC	0.01MF	10%	25V	C197	1-161-013-00	CERAMIC	0.01MF	10%	25V
C139	1-161-013-00	CERAMIC	0.01MF	10%	25V	C198	1-123-380-00	ELECT	1MF	20%	50V
C140	1-161-013-00	CERAMIC	0.01MF	10%	25V	C199	1-102-973-00	CERAMIC	100PF	5%	50V
C141	1-102-074-00	CERAMIC	0.001MF	10%	50V	C200	1-161-021-00	CERAMIC	0.047MF	10%	25V
C142	1-161-013-00	CERAMIC	0.01MF	10%	25V	C201	1-102-973-00	CERAMIC	100PF	5%	50V
C143	1-123-356-00	ELECT	10MF	20%	16V	C203	1-101-361-00	CERAMIC	150PF	5%	50V
C144	1-102-816-00	CERAMIC	120PF	5%	50V	C204	1-161-013-00	CERAMIC	0.01MF	10%	25V
C145	1-161-013-00	CERAMIC	0.01MF	10%	25V	C206	1-123-380-00	ELECT	1MF	20%	50V
C146	1-123-380-00	ELECT	1MF	20%	50V	C207	1-123-380-00	ELECT	1MF	20%	50V
C149	1-161-013-00	CERAMIC	0.01MF	10%	25V	C208	1-161-021-00	CERAMIC	0.047MF	10%	25V
C150	1-123-340-00	ELECT	4.7MF	20%	35V	C209	1-161-021-00	CERAMIC	0.047MF	10%	25V
C151	1-131-345-00	ELECT(SOLID)	0.47MF	10%	25V	C210	1-102-958-00	CERAMIC	20PF	5%	50V
C152	1-161-013-00	CERAMIC	0.01MF	10%	25V	C211	1-161-013-00	CERAMIC	0.01MF	10%	25V
C153	1-161-013-00	CERAMIC	0.01MF	10%	25V	C212	1-161-013-00	CERAMIC	0.01MF	10%	25V
C155	1-161-013-00	CERAMIC	0.01MF	10%	25V	C215	1-161-013-00	CERAMIC	0.01MF	10%	25V
C156	1-161-013-00	CERAMIC	0.01MF	10%	25V	C216	1-102-973-00	CERAMIC	100PF	5%	50V
C157	1-123-039-00	ELECT	22MF	20%	16V	C217	1-161-021-00	CERAMIC	0.047MF	10%	25V
C158	1-131-347-00	ELECT(SOLID)	1MF	20%	16V	C218	1-123-381-00	ELECT	2.2MF	20%	50V
C159	1-123-356-00	ELECT	10MF	20%	16V	C220	1-101-888-00	CERAMIC	68PF	5%	50V
C160	1-123-356-00	ELECT	10MF	20%	16V	C222	1-161-021-00	CERAMIC	0.047MF	10%	25V

NOTE:

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

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

* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

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

* =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

* Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS

* MF : μ F, PF : μ μ F

RESISTORS

* All resistors are in ohms
* F : nonflammable

COILS

* MH : mH, UH : μ H

VA-3 BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	
C223	1-161-063-00	CERAMIC	0.1MF 20%	25V	C522	1-123-381-00	ELECT 2.2MF 20%	50V
C224	1-102-958-00	CERAMIC	20PF 5%	50V	C523	1-123-381-00	ELECT 2.2MF 20%	50V
C226	1-161-021-00	CERAMIC	0.047MF 10%	25V	C524	1-123-306-00	ELECT 47MF 20%	10V
C228	1-161-021-00	CERAMIC	0.047MF 10%	25V	C525	1-123-356-00	ELECT 10MF 20%	16V
C230	1-123-330-00	ELECT	22MF 20%	16V	C526	1-108-555-00	MYLAR 0.001MF 5%	50V
C232	1-161-013-00	CERAMIC	0.01MF 10%	25V	C527	1-102-824-00	CERAMIC 430PF 5%	50V
C301	1-102-516-00	CERAMIC	27PF 5%	50V	C528	1-123-356-00	ELECT 10MF 20%	16V
C302	1-161-021-00	CERAMIC	0.047MF 10%	25V	C529	1-123-356-00	ELECT 10MF 20%	16V
C303	1-161-021-00	CERAMIC	0.047MF 10%	25V	C530	1-123-307-00	ELECT 100MF 20%	10V
C304	1-102-074-00	CERAMIC	0.001MF 10%	50V	C531	1-123-328-00	ELECT 4.7MF 20%	25V
C305	1-102-074-00	CERAMIC	0.001MF 10%	50V	C532	1-123-328-00	ELECT 4.7MF 20%	25V
C306	1-161-005-00	CERAMIC	0.0022MF 10%	25V	C534	1-123-380-00	ELECT 1MF 20%	50V
C307	1-161-021-00	CERAMIC	0.047MF 10%	25V	C537	1-123-356-00	ELECT 10MF 20%	16V
C308	1-161-013-00	CERAMIC	0.01MF 10%	25V	C541	1-108-583-00	MYLAR 0.015MF 5%	50V
C310	1-102-959-00	CERAMIC	22PF 5%	50V	C542	1-108-579-00	MYLAR 0.01MF 5%	50V
C311	1-161-013-00	CERAMIC	0.01MF 10%	25V	C543	1-108-599-00	MYLAR 0.068MF 5%	50V
C312	1-161-013-00	CERAMIC	0.01MF 10%	25V	C544	1-102-961-00	CERAMIC 27PF 5%	50V
C313	1-161-013-00	CERAMIC	0.01MF 10%	25V	C545	1-108-555-00	MYLAR 0.001MF 5%	50V
C314	1-102-963-00	CERAMIC	33PF 5%	50V	C546	1-123-356-00	ELECT 10MF 20%	16V
C315	1-161-021-00	CERAMIC	0.047MF 10%	25V	C547	1-123-332-00	ELECT 47MF 20%	16V
C317	1-102-125-00	CERAMIC	0.0047MF 10%	50V	C549	1-123-356-00	ELECT 10MF 20%	16V
C318	1-123-340-00	ELECT	4.7MF 20%	35V	C550	1-123-356-00	ELECT 10MF 20%	16V
C319	1-161-013-00	CERAMIC	0.01MF 10%	25V	C551	1-102-973-00	CERAMIC 100PF 5%	50V
C320	1-102-958-00	CERAMIC	20PF 5%	50V	C552	1-123-380-00	ELECT 1MF 20%	50V
C321	1-161-021-00	CERAMIC	0.047MF 10%	25V	C553	1-102-973-00	CERAMIC 100PF 5%	50V
C323	1-108-573-00	MYLAR	0.0056MF 5%	50V	C553	1-108-571-00	MYLAR 0.0047MF 5%	50V
C325	1-123-332-00	ELECT	47MF 20%	16V	C554	1-102-118-00	CERAMIC 0.0012MF 10%	50V
C328	1-161-021-00	CERAMIC	0.047MF 10%	25V	C555	1-123-356-00	ELECT 10MF 20%	16V
C329	1-161-021-00	CERAMIC	0.047MF 10%	25V	C556	1-123-356-00	ELECT 10MF 20%	16V
C332	1-102-953-00	CERAMIC	18PF 5%	50V	C557	1-123-356-00	ELECT 10MF 20%	16V
C333	1-102-961-00	CERAMIC	27PF 5%	50V	C558	1-123-356-00	ELECT 10MF 20%	16V
C500	1-108-555-00	MYLAR	0.001MF 5%	50V	C559	1-123-380-00	ELECT 1MF 20%	50V
C501	1-108-561-00	MYLAR	0.0018MF 5%	50V	C560	1-102-961-00	CERAMIC 27PF 5%	50V
C502	1-102-116-00	CERAMIC	680PF 10%	50V	C561	1-123-356-00	ELECT 10MF 20%	16V
C503	1-123-294-00	ELECT	47MF 20%	6.3V	C562	1-123-332-00	ELECT 47MF 20%	16V
C504	1-123-306-00	ELECT	47MF 20%	10V	C563	1-161-021-00	CERAMIC 0.047MF 10%	25V
C505	1-123-356-00	ELECT	10MF 20%	16V	C564	1-161-021-00	CERAMIC 0.047MF 10%	25V
C506	1-108-587-00	MYLAR	0.022MF 5%	50V	C565	1-161-021-00	CERAMIC 0.047MF 10%	25V
C507	1-102-963-00	CERAMIC	33PF 5%	50V	C566	1-161-021-00	CERAMIC 0.047MF 10%	25V
C508	1-123-356-00	ELECT	10MF 20%	16V	C567	1-123-356-00	ELECT 10MF 20%	16V
C509	1-108-593-00	MYLAR	0.039MF 5%	50V	C568	1-161-021-00	CERAMIC 0.047MF 10%	25V
C510	1-108-583-00	MYLAR	0.015MF 5%	50V	C570	1-123-356-00	ELECT 10MF 20%	16V
C511	1-108-591-00	MYLAR	0.033MF 5%	50V	C571	1-123-356-00	ELECT 10MF 20%	16V
C512	1-123-330-00	ELECT	22MF 20%	16V	C583	1-161-021-00	CERAMIC 0.047MF 10%	25V
C513	1-102-980-00	CERAMIC	270PF 5%	50V	C591	1-123-294-00	ELECT 47MF 20%	6.3V
C514	1-123-356-00	ELECT	10MF 20%	16V	C592	1-123-318-00	ELECT 33MF 20%	16V
C515	1-123-379-00	ELECT	0.47MF 20%	50V				
C516	1-129-710-00	FILM	0.0047MF 10%	630V				
C517	1-108-571-00	MYLAR	0.0047MF 5%	50V				
C518	1-108-567-00	MYLAR	0.0033MF 5%	50V				
C519	1-123-306-00	ELECT	47MF 20%	10V				
C520	1-123-356-00	ELECT	10MF 20%	16V				
C521	1-123-381-00	ELECT	2.2MF 20%	50V				

FILTER

CF001	1-527-831-00	FILTER, CERAMIC
CF002	1-527-823-00	FILTER, CERAMIC
CF003	1-527-823-00	FILTER, CERAMIC
CF004	1-231-302-00	CERAMIC FILTER (4.27MHZ)

NOTE:

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• MF : μ F, PF : μ μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

VA-3 BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
CONNECTOR							
CN001*	1-560-471-00	PIN, CONNECTOR 10P		D504	8-719-911-19	DIODE 1SS119	
CN002*	1-560-461-00	PIN, CONNECTOR 5P		D505	8-719-911-19	DIODE 1SS119	
CN003*	1-560-470-00	PIN, CONNECTOR 8P		D506	8-719-911-19	DIODE 1SS119	
CN004*	1-560-471-00	PIN, CONNECTOR 10P		D507	8-719-911-19	DIODE 1SS119	
CN005*	1-560-469-00	PIN, CONNECTOR 6P		D508	8-719-911-19	DIODE 1SS119	
CN006*	1-560-467-00	PIN, CONNECTOR 4P		D510	8-719-911-19	DIODE 1SS119	
CN007	1-561-690-00	CONNECTOR, CAMERA 14P		D513	8-719-911-19	DIODE 1SS119	
CN009*	1-560-468-00	PIN, CONNECTOR 5P		D514	8-719-911-19	DIODE 1SS119	
CN011*	1-560-470-00	PIN, CONNECTOR 8P		D515 =>	8-719-911-19	DIODE 1SS119	
CN012	1-561-703-00	CONNECTOR, DIN 8P		D516 =>	8-719-911-19	DIODE 1SS119	
CN500*	1-560-469-00	PIN, CONNECTOR 6P		D517 =>	8-719-911-19	DIODE 1SS119	
CN505*	1-560-466-00	PIN, CONNECTOR 3P		D518	8-719-911-19	DIODE 1SS119	
CN506*	1-560-469-00	PIN, CONNECTOR 6P		D519	8-719-911-19	DIODE 1SS119	
CN507*	1-560-468-00	PIN, CONNECTOR 5P		D540	8-719-911-19	DIODE 1SS119	
CN509*	1-560-469-00	PIN, CONNECTOR 6P		DELAY LINE			
CN510	1-507-251-XX	JACK		DL001	1-415-243-00	DELAY LINE (1H)	
CN511	1-507-251-XX	JACK		DL002	1-415-065-00	DELAY LINE (1H)	
TRIMER							
CT500	1-141-215-00	CAP, TRIMER 100PF		DL003	1-415-244-21	DELAY LINE (1/2H)	
DIODE							
D001	8-719-911-19	DIODE 1SS119		DL004	1-415-245-00	DELAY LINE (1/4H)	
D002	8-719-911-19	DIODE 1SS119		IC			
D003	8-719-911-19	DIODE 1SS119		IC001	8-743-945-10	IC BX-3945-1	
D004	8-719-911-19	DIODE 1SS119		IC002	8-743-946-10	IC BX-3946-1	
D005	8-719-911-19	DIODE 1SS119		IC003	8-759-608-64	IC CX-864	
D006	8-719-911-19	DIODE 1SS119		IC004	8-759-608-65	IC CX-865	
D007	8-719-911-19	DIODE 1SS119		IC005	8-758-660-00	IC CX-866	
D008	8-719-113-07	DIODE RD13E-B		IC006	8-759-208-67	IC CX-867	
D009	8-719-113-07	DIODE RD13E-B		IC007	8-759-908-68	IC CX-868	
D010	8-719-113-07	DIODE RD13E-B		IC008	8-758-690-00	IC CX-869	
D011	8-719-118-07	DIODE RD18E-B		IC010	8-759-919-05	IC CX-7905A	
D012	8-719-118-07	DIODE RD18E-B		IC011	8-743-956-00	IC BX-3955	
D013	8-719-113-07	DIODE RD13E-B		IC012	8-743-956-10	IC BX-3956-1	
D014	8-719-113-07	DIODE RD13E-B		IC014	8-743-958-10	IC BX-3958-1	
D015	8-719-113-07	DIODE RD13E-B		IC015	8-743-959-10	IC BX-3959-1	
D016	8-719-113-07	DIODE RD13E-B		IC016	8-759-208-92	IC CX-892	
D017	8-719-113-07	DIODE RD13E-B		IC017	8-759-208-94	IC CX-894	
D018	8-719-911-19	DIODE 1SS119		IC018	8-752-000-80	IC CX20008	
D019	8-719-191-07	DIODE RD9.1E-B		IC091=>	8-759-600-08	IC CX-870A	
D020	8-719-191-07	DIODE RD9.1E-B		IC092	8-759-608-82	IC CX-882	
D021	8-719-911-19	DIODE 1SS119		IC500	8-759-240-66	IC TC4066BP	
D022	8-719-911-19	DIODE 1SS119		COIL			
D023	8-719-113-07	DIODE RD13E-B		L001	1-408-620-11	MICRO INDUCTOR 270UH	
D024	8-719-911-19	DIODE 1SS119		L002	1-408-620-11	MICRO INDUCTOR 270UH	
D025	8-719-911-19	DIODE 1SS119		L003	1-408-408-00	MICRO INDUCTOR 8.2UH	
D500	8-719-911-19	DIODE 1SS119		L004	1-408-408-00	MICRO INDUCTOR 8.2UH	
D501	8-719-911-19	DIODE 1SS119		L005	1-408-409-00	MICRO INDUCTOR 10UH	
D502	8-719-911-19	DIODE 1SS119		L006	1-408-427-00	MICRO INDUCTOR 330UH	
D503	8-719-911-19	DIODE 1SS119		L007	1-408-418-00	MICRO INDUCTOR 56UH	
				L008	1-408-417-00	MICRO INDUCTOR 47UH	
				L009	1-408-414-00	MICRO INDUCTOR 27UH	
				L010	1-408-397-00	MICRO INDUCTOR 1UH	

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CAPACITORS
 MF : μF , PF : $\mu\mu F$

RESISTORS
 All resistors are in ohms
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VA-3 BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	
L011	1-408-397-00	MICRO INDUCTOR 1UH		Q022	8-729-178-54	TRANSISTOR 2SC2785		
L012	1-408-423-00	MICRO INDUCTOR 150UH		Q023	8-729-178-54	TRANSISTOR 2SC2785		
L013	1-408-419-00	MICRO INDUCTOR 68UH		Q024	8-729-178-54	TRANSISTOR 2SC2785		
L014	1-408-418-00	MICRO INDUCTOR 56UH		Q025	8-729-178-54	TRANSISTOR 2SC2785		
L015	1-408-414-00	MICRO INDUCTOR 27UH		Q026	8-729-178-54	TRANSISTOR 2SC2785		
L016	1-408-414-00	MICRO INDUCTOR 27UH		Q027	8-729-117-54	TRANSISTOR 2SA1175		
L017	1-408-402-00	MICRO INDUCTOR 2.7UH		Q500	8-729-178-54	TRANSISTOR 2SC2785		
L019	1-408-401-00	MICRO INDUCTOR 2.2UH		Q501	8-729-178-54	TRANSISTOR 2SC2785		
L021	1-408-422-00	MICRO INDUCTOR 120UH		Q502	8-729-908-62	TRANSISTOR 2SD786		
L022	1-408-427-00	MICRO INDUCTOR 330UH		Q503	=>8-729-612-77	TRANSISTOR 2SA1027R		
L023	1-408-423-00	MICRO INDUCTOR 150UH		Q504	8-729-178-54	TRANSISTOR 2SC2785		
L024	1-407-502-31	MICRO INDUCTOR 6.8MMH		Q505	8-729-178-54	TRANSISTOR 2SC2785		
L026	1-408-425-00	MICRO INDUCTOR 220UH		Q506	8-729-178-54	TRANSISTOR 2SC2785		
L027	1-408-417-00	MICRO INDUCTOR 47UH		Q507	8-729-178-54	TRANSISTOR 2SC2785		
L029	1-408-421-00	MICRO INDUCTOR 100UH		Q509	8-729-178-54	TRANSISTOR 2SC2785		
L030	1-408-425-00	MICRO INDUCTOR 220UH		Q510	8-729-967-32	TRANSISTOR 2SC2673		
L031	1-408-409-00	MICRO INDUCTOR 10UH		Q512	8-729-178-54	TRANSISTOR 2SC2785		
L033	1-421-381-00	COIL, FERRITE CHOKE		Q513	8-729-178-54	TRANSISTOR 2SC2785		
L034	1-408-414-00	MICRO INDUCTOR 27UH		Q514	=>8-769-200-30	TRANSISTOR 2SK107-3		
L036	1-408-401-00	MICRO INDUCTOR 2.2UH		Q515	8-729-334-58	TRANSISTOR 2SC1345		
L037	1-408-402-00	MICRO INDUCTOR 2.7UH		Q516	8-729-178-54	TRANSISTOR 2SC2785		
L038	1-407-188-XX	MICRO INDUCTOR 6.8UH		Q517	8-729-178-54	TRANSISTOR 2SC2785		
L301	1-408-411-00	MICRO INDUCTOR 15UH		Q518	8-729-178-54	TRANSISTOR 2SC2785		
L500	1-408-429-00	MICRO INDUCTOR 470UH		Q519	8-729-178-54	TRANSISTOR 2SC2785		
L502	1-459-351-00	COIL (WITH CORE)		Q520	8-729-178-54	TRANSISTOR 2SC2785		
<u>VARIABLE COIL</u>				Q521	=>8-769-200-30	TRANSISTOR 2SK107-3		
LV001	1-408-512-00	COIL (VARIABLE)		Q522	8-729-178-54	TRANSISTOR 2SC2785		
LV500	1-408-524-00	INDUCTOR, ADJ 1.34MMH		Q523	8-729-178-54	TRANSISTOR 2SC2785		
LV501	1-408-523-00	COIL, VARIABLE 22UH		Q524	8-729-178-54	TRANSISTOR 2SC2785		
<u>TRANSISTOR</u>				Q525	8-729-178-54	TRANSISTOR 2SC2785		
Q001	8-729-178-54	TRANSISTOR 2SC2785		Q526	8-729-178-54	TRANSISTOR 2SC2785		
Q002	8-729-178-54	TRANSISTOR 2SC2785		Q529	8-729-178-54	TRANSISTOR 2SC2785		
Q003	8-729-178-54	TRANSISTOR 2SC2785		Q530	8-729-178-54	TRANSISTOR 2SC2785		
Q004	8-729-178-54	TRANSISTOR 2SC2785		Q531	8-729-178-54	TRANSISTOR 2SC2785		
Q005	8-729-178-54	TRANSISTOR 2SC2785		Q532	8-729-178-54	TRANSISTOR 2SC2785		
Q006	8-729-178-54	TRANSISTOR 2SC2785		Q533	8-729-178-54	TRANSISTOR 2SC2785		
Q007	8-729-178-54	TRANSISTOR 2SC2785		Q538	8-729-178-54	TRANSISTOR 2SC2785		
Q008	8-729-178-54	TRANSISTOR 2SC2785		Q539	8-729-178-54	TRANSISTOR 2SC2785		
Q009	8-729-178-54	TRANSISTOR 2SC2785		Q540	8-729-178-54	TRANSISTOR 2SC2785		
Q010	8-729-178-54	TRANSISTOR 2SC2785		Q541	8-729-178-54	TRANSISTOR 2SC2785		
Q011	8-729-113-32	TRANSISTOR 2SB733		Q542	8-729-988-12	TRANSISTOR 2SA881		
Q012	8-729-178-54	TRANSISTOR 2SC2785		Q543	8-729-178-54	TRANSISTOR 2SC2785		
Q013	8-729-117-54	TRANSISTOR 2SA1175		Q544	8-729-967-32	TRANSISTOR 2SC2673		
Q014	8-729-117-54	TRANSISTOR 2SA1175		Q545	8-729-178-54	TRANSISTOR 2SC2785		
Q015	8-729-178-54	TRANSISTOR 2SC2785		Q546	8-729-178-54	TRANSISTOR 2SC2785		
Q016	8-729-178-54	TRANSISTOR 2SC2785		Q547	8-729-178-54	TRANSISTOR 2SC2785		
Q017	8-729-178-54	TRANSISTOR 2SC2785		<u>RESISTOR</u>				
Q018	8-729-178-54	TRANSISTOR 2SC2785		R001	1-246-843-00	CARBON	910	1/8W
Q019	8-729-178-54	TRANSISTOR 2SC2785		R002	1-246-848-00	CARBON	2.4K	1/8W
Q020	8-729-178-54	TRANSISTOR 2SC2785		R003	1-246-787-00	CARBON	2.2K	1/8W
Q021	8-729-178-54	TRANSISTOR 2SC2785		R004	1-246-843-00	CARBON	910	1/8W
				R006	1-246-780-00	CARBON	560	1/8W

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VA-3 BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R007	1-246-807-00	CARBON 100K	1/8W	R065	1-246-459-00	CARBON 270 5%	1/4W
R008	1-246-801-00	CARBON 33K	1/8W	R066	1-246-785-00	CARBON 1.5K	1/8W
R009	1-246-843-00	CARBON 910	1/8W	R067	1-246-787-00	CARBON 2.2K	1/8W
R010	1-246-851-00	CARBON 4.3K	1/8W	R068	1-246-769-00	CARBON 68	1/8W
R011	1-246-857-00	CARBON 13K	1/8W	R069	1-246-461-00	CARBON 330 5%	1/4W
R012	1-246-808-00	CARBON 120K	1/8W	R070	1-246-769-00	CARBON 68	1/8W
R013	1-246-799-00	CARBON 22K	1/8W	R071	1-246-782-00	CARBON 820	1/8W
R014	1-246-803-00	CARBON 47K	1/8W	R072	1-246-796-00	CARBON 12K	1/8W
R015	1-246-795-00	CARBON 10K	1/8W	R073	1-246-843-00	CARBON 910	1/8W
R017	1-246-783-00	CARBON 1K	1/8W	R074	1-246-840-00	CARBON 510	1/8W
R018	1-246-792-00	CARBON 5.6K	1/8W	R075	1-246-844-00	CARBON 1.1K	1/8W
R019	1-246-803-00	CARBON 47K	1/8W	R076	1-246-835-00	CARBON 200	1/8W
R020	1-246-809-00	CARBON 150K	1/8W	R077	1-246-804-00	CARBON 56K	1/8W
R021	1-246-801-00	CARBON 33K	1/8W	R078	1-246-805-00	CARBON 68K	1/8W
R022	1-246-802-00	CARBON 39K	1/8W	R079	1-246-791-00	CARBON 4.7K	1/8W
R023	1-246-786-00	CARBON 1.8K	1/8W	R080	1-246-799-00	CARBON 22K	1/8W
R024	1-246-802-00	CARBON 39K	1/8W	R081	1-246-809-00	CARBON 150K	1/8W
R025	1-246-783-00	CARBON 1K	1/8W	R082	1-246-807-00	CARBON 100K	1/8W
R026	1-246-851-00	CARBON 4.3K	1/8W	R083	1-246-787-00	CARBON 2.2K	1/8W
R027	1-246-777-00	CARBON 330	1/8W	R084	1-246-783-00	CARBON 1K	1/8W
R028	1-246-834-00	CARBON 160	1/8W	R085	1-247-048-00	CARBON 390K	1/8W
R029	1-246-770-00	CARBON 82	1/8W	R086	1-247-049-00	CARBON 470K	1/8W
R030	1-246-770-00	CARBON 82	1/8W	R087	1-246-796-00	CARBON 12K	1/8W
R031	1-246-840-00	CARBON 510	1/8W	R088	1-246-847-00	CARBON 2K	1/8W
R032	1-246-791-00	CARBON 4.7K	1/8W	R089	1-246-798-00	CARBON 18K	1/8W
R033	1-246-834-00	CARBON 160	1/8W	R090	1-246-863-00	CARBON 43K	1/8W
R034	1-246-791-00	CARBON 4.7K	1/8W	R091	1-246-782-00	CARBON 820	1/8W
R035	1-246-778-00	CARBON 390	1/8W	R092	1-246-797-00	CARBON 15K	1/8W
R036	1-246-791-00	CARBON 4.7K	1/8W	R093	1-246-795-00	CARBON 10K	1/8W
R037	1-246-783-00	CARBON 1K	1/8W	R094	1-246-844-00	CARBON 1.1K	1/8W
R038	1-246-803-00	CARBON 47K	1/8W	R095	1-246-783-00	CARBON 1K	1/8W
R039	1-246-861-00	CARBON 30K	1/8W	R097	1-246-834-00	CARBON 160	1/8W
R040	1-246-783-00	CARBON 1K	1/8W	R099	1-246-771-00	CARBON 100	1/8W
R041	1-246-844-00	CARBON 1.1K	1/8W	R100	1-246-777-00	CARBON 330	1/8W
R042	1-246-844-00	CARBON 1.1K	1/8W	R103	1-246-789-00	CARBON 3.3K	1/8W
R043	1-246-792-00	CARBON 5.6K	1/8W	R104	1-246-791-00	CARBON 4.7K	1/8W
R044	1-246-783-00	CARBON 1K	1/8W	R105	1-246-799-00	CARBON 22K	1/8W
R045	1-246-801-00	CARBON 33K	1/8W	R106	1-246-791-00	CARBON 4.7K	1/8W
R046	1-246-787-00	CARBON 2.2K	1/8W	R107	1-246-795-00	CARBON 10K	1/8W
R047	1-246-802-00	CARBON 39K	1/8W	R108	1-246-794-00	CARBON 8.2K	1/8W
R048	1-246-799-00	CARBON 22K	1/8W	R109	1-246-799-00	CARBON 22K	1/8W
R049	1-246-796-00	CARBON 12K	1/8W	R110	1-246-799-00	CARBON 22K	1/8W
R050	1-246-791-00	CARBON 4.7K	1/8W	R111	1-246-783-00	CARBON 1K	1/8W
R051	1-246-779-00	CARBON 470	1/8W	R112	1-246-783-00	CARBON 1K	1/8W
R052	1-246-787-00	CARBON 2.2K	1/8W	R113	1-246-785-00	CARBON 1.5K	1/8W
R053	1-246-783-00	CARBON 1K	1/8W	R114	1-246-810-00	CARBON 180K	1/8W
R054	1-246-795-00	CARBON 10K	1/8W	R115	1-246-803-00	CARBON 47K	1/8W
R056	1-246-795-00	CARBON 10K	1/8W	R116	1-246-803-00	CARBON 47K	1/8W
R058	1-246-781-00	CARBON 680	1/8W	R117	1-246-863-00	CARBON 43K	1/8W
R059	1-246-791-00	CARBON 4.7K	1/8W	R118	1-246-863-00	CARBON 43K	1/8W
R060	1-246-852-00	CARBON 5.1K	1/8W	R119	1-246-795-00	CARBON 10K	1/8W
R061	1-246-794-00	CARBON 8.2K	1/8W	R120	1-246-792-00	CARBON 5.6K	1/8W
R062	1-246-808-00	CARBON 120K	1/8W	R121	1-246-864-00	CARBON 51K	1/8W

NOTE:

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

* =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

* Items marked " & " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

* MF : μ F, PF : μ μ F

RESISTORS

* All resistors are in ohms
* F : nonflammable

COILS

* MH : mH, UH : μ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R122	1-246-801-00	CARBON	33K 1/8W	R234	1-246-803-00	CARBON	47K 1/8W
R123	1-246-804-00	CARBON	56K 1/8W	R235	1-246-803-00	CARBON	47K 1/8W
R124	1-246-801-00	CARBON	33K 1/8W	R236	1-246-803-00	CARBON	47K 1/8W
R125	1-246-801-00	CARBON	33K 1/8W	R237	1-246-801-00	CARBON	33K 1/8W
R126	1-246-857-00	CARBON	13K 1/8W	R238	1-246-801-00	CARBON	33K 1/8W
R127	1-246-802-00	CARBON	39K 1/8W	R239	1-246-785-00	CARBON	1.5K 1/8W
R128	1-246-807-00	CARBON	100K 1/8W	R240	1-246-771-00	CARBON	100 1/8W
R129	1-246-842-00	CARBON	750 1/8W	R241	1-246-789-00	CARBON	3.3K 1/8W
R130	1-246-789-00	CARBON	3.3K 1/8W	R242	1-246-856-00	CARBON	11K 1/8W
R131	1-246-855-00	CARBON	9.1K 1/8W	R243	1-246-802-00	CARBON	39K 1/8W
R132	1-246-785-00	CARBON	1.5K 1/8W	R244	1-246-783-00	CARBON	1K 1/8W
R133	1-246-854-00	CARBON	7.5K 1/8W	R245	1-246-791-00	CARBON	4.7K 1/8W
R134	1-246-847-00	CARBON	2K 1/8W	R246	1-246-791-00	CARBON	4.7K 1/8W
R135	1-246-830-00	CARBON	75 1/8W	R247	1-246-797-00	CARBON	15K 1/8W
R136	1-246-830-00	CARBON	75 1/8W	R248	1-246-858-00	CARBON	16K 1/8W
R137	1-246-860-00	CARBON	24K 1/8W	R249	1-246-805-00	CARBON	68K 1/8W
R138	1-246-841-00	CARBON	620 1/8W	R251	1-246-802-00	CARBON	39K 1/8W
R139	1-246-783-00	CARBON	1K 1/8W	R252	1-246-807-00	CARBON	100K 1/8W
R140	1-246-802-00	CARBON	39K 1/8W	R253	1-246-771-00	CARBON	100 1/8W
R141	1-246-794-00	CARBON	8.2K 1/8W	R254	1-246-837-00	CARBON	300 1/8W
R142	1-246-836-00	CARBON	240 1/8W	R255	1-246-837-00	CARBON	300 1/8W
R143	1-246-857-00	CARBON	13K 1/8W	R256	1-246-839-00	CARBON	430 1/8W
R144	1-246-865-00	CARBON	62K 1/8W	R257	1-246-803-00	CARBON	47K 1/8W
R145	1-246-802-00	CARBON	39K 1/8W	R258	1-246-799-00	CARBON	22K 1/8W
R146	1-246-803-00	CARBON	47K 1/8W	R259	1-246-799-00	CARBON	22K 1/8W
R148	1-246-850-00	CARBON	3.6K 1/8W	R260	1-247-048-00	CARBON	390K 1/8W
R149	1-246-850-00	CARBON	3.6K 1/8W	R261	1-246-787-00	CARBON	2.2K 1/8W
R206	1-246-775-00	CARBON	220 1/8W	R262	1-246-801-00	CARBON	33K 1/8W
R207	1-246-801-00	CARBON	33K 1/8W	R263	1-246-801-00	CARBON	33K 1/8W
R208	1-247-052-00	CARBON	820K 1/8W	R264	1-246-852-00	CARBON	5.1K 1/8W
R209	1-247-052-00	CARBON	820K 1/8W	R266	1-246-799-00	CARBON	22K 1/8W
R211	1-246-789-00	CARBON	3.3K 1/8W	R301	1-246-777-00	CARBON	330 1/8W
R212	1-246-787-00	CARBON	2.2K 1/8W	R302	1-246-791-00	CARBON	4.7K 1/8W
R213	1-246-783-00	CARBON	1K 1/8W	R303	1-246-791-00	CARBON	4.7K 1/8W
R214	1-246-793-00	CARBON	6.8K 1/8W	R304	1-246-805-00	CARBON	68K 1/8W
R215	1-246-785-00	CARBON	1.5K 1/8W	R305	1-246-794-00	CARBON	8.2K 1/8W
R216	1-246-791-00	CARBON	4.7K 1/8W	R306	1-246-799-00	CARBON	22K 1/8W
R217	1-246-783-00	CARBON	1K 1/8W	R307	1-246-859-00	CARBON	20K 1/8W
R218	1-246-784-00	CARBON	1.2K 1/8W	R308	1-246-857-00	CARBON	13K 1/8W
R219	1-246-780-00	CARBON	560 1/8W	R310	1-246-787-00	CARBON	2.2K 1/8W
R220	1-246-780-00	CARBON	560 1/8W	R311	1-246-844-00	CARBON	1.1K 1/8W
R221	1-246-840-00	CARBON	510 1/8W	R312	1-246-783-00	CARBON	1K 1/8W
R223	1-246-795-00	CARBON	10K 1/8W	R313	1-246-859-00	CARBON	20K 1/8W
R224	1-246-854-00	CARBON	7.5K 1/8W	R314	1-246-769-00	CARBON	68 1/8W
R225	1-246-851-00	CARBON	4.3K 1/8W	R315	1-246-848-00	CARBON	2.4K 1/8W
R226	1-246-871-00	CARBON	200K 1/8W	R317	1-246-847-00	CARBON	2K 1/8W
R227	1-246-869-00	CARBON	130K 1/8W	R318	1-246-771-00	CARBON	100 1/8W
R228	1-246-794-00	CARBON	8.2K 1/8W	R320	1-246-851-00	CARBON	4.3K 1/8W
R229	1-246-870-00	CARBON	160K 1/8W	R321	1-246-801-00	CARBON	33K 1/8W
R230	1-246-771-00	CARBON	100 1/8W	R322	1-246-801-00	CARBON	33K 1/8W
R231	1-246-779-00	CARBON	470 1/8W	R323	1-246-795-00	CARBON	10K 1/8W
R232	1-246-783-00	CARBON	1K 1/8W	R324	1-246-801-00	CARBON	33K 1/8W
R233	1-246-783-00	CARBON	1K 1/8W	R325	1-246-795-00	CARBON	10K 1/8W

NOTE:

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CAPACITORS

* MF : μ F, PF : μ μ F

RESISTORS

* All resistors are in ohms
* F : nonflammable

COILS

* MMH : mH, μ H : μ H

VA-3 BOARD

Ref.No	Part No	Description		Remark	Ref.No	Part No	Description		Remark
R326	1-246-789-00	CARBON	3.3K	1/8W	R556	1-246-795-00	CARBON	10K	1/8W
R500	1-246-759-00	CARBON	10	1/8W	R557	1-246-783-00	CARBON	1K	1/8W
R501	1-246-803-00	CARBON	47K	1/8W	R558	1-246-803-00	CARBON	47K	1/8W
R502	1-246-801-00	CARBON	33K	1/8W	R559	1-246-801-00	CARBON	33K	1/8W
R503	1-246-803-00	CARBON	47K	1/8W	R560	1-246-801-00	CARBON	33K	1/8W
R504	1-246-801-00	CARBON	33K	1/8W	R561	1-246-791-00	CARBON	4.7K	1/8W
R506	1-246-543-00	CARBON	820K	5% 1/4W	R562	1-247-047-00	CARBON	330K	1/8W
R507	1-246-513-00	CARBON	47K	5% 1/4W	R563	1-246-799-00	CARBON	22K	1/8W
R508	1-246-800-00	CARBON	27K	1/8W	R564	1-246-792-00	CARBON	5.6K	1/8W
R509	1-246-791-00	CARBON	4.7K	1/8W	R565	1-202-469-00	COMPOSITION	3.9M 5%	1/4W
R510	1-246-869-00	CARBON	130K	1/8W	R566	1-246-795-00	CARBON	10K	1/8W
R511	1-246-521-00	CARBON	100K	5% 1/4W	R567	1-246-771-00	CARBON	100	1/8W
R512	1-246-768-00	CARBON	56	1/8W	R568	1-246-799-00	CARBON	22K	1/8W
R513	1-246-797-00	CARBON	15K	1/8W	R569	1-246-799-00	CARBON	22K	1/8W
R514	1-246-795-00	CARBON	10K	1/8W	R570	1-246-792-00	CARBON	5.6K	1/8W
R515	1-246-852-00	CARBON	5.1K	1/8W	R571	1-246-795-00	CARBON	10K	1/8W
R516	1-246-846-00	CARBON	1.6K	1/8W	R572	1-246-795-00	CARBON	10K	1/8W
R517	1-246-796-00	CARBON	12K	1/8W	R573	1-246-795-00	CARBON	10K	1/8W
R518	1-246-799-00	CARBON	22K	1/8W	R574	1-246-867-00	CARBON	91K	1/8W
R519	1-246-801-00	CARBON	33K	1/8W	R575	1-246-793-00	CARBON	6.8K	1/8W
R520	1-246-801-00	CARBON	33K	1/8W	R577	1-246-793-00	CARBON	6.8K	1/8W
R521	1-246-796-00	CARBON	12K	1/8W	R578	1-247-049-00	CARBON	470K	1/8W
R522	1-246-798-00	CARBON	18K	1/8W	R579	1-246-787-00	CARBON	2.2K	1/8W
R523	1-246-793-00	CARBON	6.8K	1/8W	R581	1-246-789-00	CARBON	3.3K	1/8W
R525	1-246-801-00	CARBON	33K	1/8W	R584	1-246-788-00	CARBON	2.7K	1/8W
R526	1-246-771-00	CARBON	100	1/8W	R585	1-246-852-00	CARBON	5.1K	1/8W
R527	1-246-795-00	CARBON	10K	1/8W	R586	1-246-843-00	CARBON	910	1/8W
R528	1-246-797-00	CARBON	15K	1/8W	R592	1-246-795-00	CARBON	10K	1/8W
R531	1-246-980-00	CARBON	3.3	5% 1/8W F	R593	1-246-795-00	CARBON	10K	1/8W
R532	1-246-771-00	CARBON	100	1/8W	R594	1-246-796-00	CARBON	12K	1/8W
R533	1-246-795-00	CARBON	10K	1/8W	R595	1-246-793-00	CARBON	6.8K	1/8W
R534	1-246-797-00	CARBON	15K	1/8W	R596	1-246-805-00	CARBON	68K	1/8W
R535	1-246-804-00	CARBON	56K	1/8W	R597	1-246-797-00	CARBON	15K	1/8W
R536	1-246-804-00	CARBON	56K	1/8W	R598	1-246-796-00	CARBON	12K	1/8W
R537	1-246-795-00	CARBON	10K	1/8W	R599	1-246-861-00	CARBON	30K	1/8W
R538	1-246-807-00	CARBON	100K	1/8W	R600	1-246-860-00	CARBON	24K	1/8W
R539	1-246-866-00	CARBON	75K	1/8W	R601	1-246-792-00	CARBON	5.6K	1/8W
R540	1-246-866-00	CARBON	75K	1/8W	R602	1-246-791-00	CARBON	4.7K	1/8W
R541	1-246-807-00	CARBON	100K	1/8W	R603	1-246-780-00	CARBON	560	1/8W
R542	1-246-807-00	CARBON	100K	1/8W	R604	1-246-786-00	CARBON	1.8K	1/8W
R543	1-246-807-00	CARBON	100K	1/8W	R605	1-246-799-00	CARBON	22K	1/8W
R544	1-246-783-00	CARBON	1K	1/8W	R606	1-246-801-00	CARBON	33K	1/8W
R545	1-246-783-00	CARBON	1K	1/8W	R607	1-246-771-00	CARBON	100	1/8W
R546	1-246-803-00	CARBON	47K	1/8W	R608	1-246-783-00	CARBON	1K	1/8W
R547	1-246-803-00	CARBON	47K	1/8W	R610	1-246-793-00	CARBON	6.8K	1/8W
R548	1-246-799-00	CARBON	22K	1/8W	R611	1-247-047-00	CARBON	330K	1/8W
R549	1-246-804-00	CARBON	56K	1/8W	R612	1-246-795-00	CARBON	10K	1/8W
R550	1-246-795-00	CARBON	10K	1/8W	R613	1-246-791-00	CARBON	4.7K	1/8W
R551	1-246-811-00	CARBON	220K	1/8W	R614	1-246-801-00	CARBON	33K	1/8W
R552	1-246-807-00	CARBON	100K	1/8W	R615	1-246-793-00	CARBON	6.8K	1/8W
R553	1-246-834-00	CARBON	160	1/8W	R616	1-246-797-00	CARBON	15K	1/8W
R554	1-246-795-00	CARBON	10K	1/8W	R617	1-246-787-00	CARBON	2.2K	1/8W
R555	1-246-811-00	CARBON	220K	1/8W	R618	1-246-811-00	CARBON	220K	1/8W

NOTE:

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CAPACITORS
* MF : μ F, PF : μ μ F

RESISTORS
* All resistors are in ohms
* F : nonflammable

COILS
* MH : mH, μ H : μ H

VA-3 BOARD

MI-2 BOARD

VL-3 BOARD

Ref.No	Part No	Description	Remark
R619	1-246-807-00	CARBON 100K	1/8W
R620	1-246-811-00	CARBON 220K	1/8W
R621	1-246-807-00	CARBON 100K	1/8W
R622	1-246-807-00	CARBON 100K	1/8W
R623	1-246-811-00	CARBON 220K	1/8W
R624	1-246-807-00	CARBON 100K	1/8W
R625	1-246-787-00	CARBON 2.2K	1/8W
R626	1-246-797-00	CARBON 15K	1/8W
R627	1-246-783-00	CARBON 1K	1/8W
R628	1-246-783-00	CARBON 1K	1/8W
R629	1-246-783-00	CARBON 1K	1/8W
R630	1-246-791-00	CARBON 4.7K	1/8W
R631	1-246-784-00	CARBON 1.2K	1/8W
R632	1-246-796-00	CARBON 12K	1/8W
R633	1-246-791-00	CARBON 4.7K	1/8W
R634	1-246-801-00	CARBON 33K	1/8W
R635	1-246-799-00	CARBON 22K	1/8W
R636	1-246-807-00	CARBON 100K	1/8W
R638	1-246-780-00	CARBON 560	1/8W
R639	1-246-829-00	CARBON 62	1/8W
R640	1-246-783-00	CARBON 1K	1/8W
R641	1-246-792-00	CARBON 5.6K	1/8W
R642	1-246-797-00	CARBON 15K	1/8W
R643	1-246-791-00	CARBON 4.7K	1/8W
R647	1-246-801-00	CARBON 33K	1/8W
R648	1-246-801-00	CARBON 33K	1/8W
R649	1-247-053-00	CARBON 1M	1/8W
R650	1-246-783-00	CARBON 1K	1/8W
R651	1-246-787-00	CARBON 2.2K	1/8W
R652	1-246-787-00	CARBON 2.2K	1/8W
R653	1-246-801-00	CARBON 33K	1/8W
R654	1-246-807-00	CARBON 100K	1/8W
R655	1-246-783-00	CARBON 1K	1/8W
VARIABLE RESISTOR			
RV001	1-224-249-XX	RES, ADJ, SOLID 1K	
RV003	1-224-250-XX	RES, ADJ, SOLID 2.2K	
RV004	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV005	1-224-250-XX	RES, ADJ, SOLID 2.2K	
RV006	1-224-249-XX	RES, ADJ, SOLID 1K	
RV007	1-224-249-XX	RES, ADJ, SOLID 1K	
RV008	1-224-250-XX	RES, ADJ, SOLID 2.2K	
RV009	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV010	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV011	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV012	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV013	1-224-252-XX	RES, ADJ, SOLID 10K	
RV014	1-224-252-XX	RES, ADJ, SOLID 10K	
RV015	1-224-250-XX	RES, ADJ, SOLID 2.2K	
RV016	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV017	1-224-248-XX	RES, ADJ, SOLID 470	
RV019	1-224-254-XX	RES, ADJ, SOLID 47K	
RV020	1-224-254-XX	RES, ADJ, SOLID 47K	

Ref.No	Part No	Description	Remark
RV021	1-224-250-XX	RES, ADJ, SOLID 2.2K	
RV022	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV025	1-224-252-XX	RES, ADJ, SOLID 10K	
RV026	1-224-254-XX	RES, ADJ, SOLID 47K	
RV027	1-224-248-XX	RES, ADJ, SOLID 470	
RV028	1-224-248-XX	RES, ADJ, SOLID 470	
RV029	1-224-250-XX	RES, ADJ, SOLID 2.2K	
RV030	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV500	1-224-254-XX	RES, ADJ, SOLID 47K	
RV501	1-224-255-XX	RES, ADJ, SOLID 100K	
RV502	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RELAY			
RY501	1-515-418-00	RELAY	
RY502	1-515-416-00	RELAY	
SWITCH			
SW001	1-552-821-00	SWITCH, SLIDE	
TRANSFORMER			
T001	1-235-057-00	FILTER, BAND PASS	
T002	1-426-065-00	COIL, BPF-1	
T003	1-426-070-00	COIL (EQT)	
T004	1-409-352-00	COIL, TRAP	
T005	1-409-353-00	COIL, TRAP	
T006	1-231-412-00	FILTER BLOCK	
T007	1-426-089-00	COIL (EQT)	
T500	1-433-236-00	TRANSFORMER, OSCILLATOR	
CONNECTOR			
VCN013	1-507-742-00	JACK, PIN 2P	
CRYSTAL			
X001	1-527-396-00	CRYSTAL, OSC	

♣:1-606-272-00 MI-2 BOARD *****			
CONNECTOR			
CN501	1-507-285-00	JACK	

♣:A-6711-323-A VL-3 BOARD, COMPLETE *****			
	1-246-795-00	CARBON 10K	1/8W
	1-246-795-00	CARBON 10K	1/8W
CAPACITOR			
CO01	1-123-306-00	ELECT 47MF	20% 10V

NOTE:

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.

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

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ PF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, μ H : μ H

VL-3 BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C002	1-123-616-00	ELECT 4.7MF	20% 25V	CN003	1-560-470-00	PIN, CONNECTOR 8P	
C003	1-123-617-00	ELECT 10MF	20% 16V	CN004	1-560-466-00	PIN, CONNECTOR 3P	
C004	1-130-022-00	FILM 0.0022MF	5% 50V	<u>COMPOSITION CIRCUIT BLOCK</u>			
C005	1-161-013-00	CERAMIC 0.01MF	10% 25V	CP002	1-231-810-00	COMPOSITION CIRCUIT BLOCK	
C006	1-123-617-00	ELECT 10MF	20% 16V	CP003	1-231-628-00	COMPOSITION CIRCUIT BLOCK	
C007	1-130-532-51	MYLAR 0.22MF	10% 50V	CP004	1-231-628-00	COMPOSITION CIRCUIT BLOCK	
C008	1-123-617-00	ELECT 10MF	20% 16V	CP005	1-231-796-21	COMPOSITION CIRCUIT BLOCK	
C009	1-123-617-00	ELECT 10MF	20% 16V	CP006	1-231-628-00	COMPOSITION CIRCUIT BLOCK	
C010	1-102-074-00	CERAMIC 0.001MF	10% 50V	CP007	1-231-628-00	COMPOSITION CIRCUIT BLOCK	
C011	1-131-404-00	ELECT(SOLID) 0.22MF	10% 25V	CP008	1-232-131-00	COMPOSITION CIRCUIT BLOCK	
C012	1-102-126-00	CERAMIC 0.0056MF	10% 50V	CP009	1-232-133-00	COMPOSITION CIRCUIT BLOCK	
C013	1-123-616-00	ELECT 4.7MF	20% 25V	CP010	1-231-628-00	COMPOSITION CIRCUIT BLOCK	
C014	1-161-013-00	CERAMIC 0.01MF	10% 25V	CP011	1-232-173-00	COMPOSITION CIRCUIT BLOCK	
C015	1-123-306-00	ELECT 47MF	20% 10V	CP012	1-232-174-00	COMPOSITION CIRCUIT BLOCK	
C016	1-123-645-00	ELECT 33MF	20% 10V	CP013	1-232-175-00	COMPOSITION CIRCUIT BLOCK	
C017	1-123-617-00	ELECT 10MF	20% 16V	CP014	1-231-773-00	COMPOSITION CIRCUIT BLOCK	
C018	1-123-617-00	ELECT 10MF	20% 16V	CP015	1-231-886-00	COMPOSITION CIRCUIT BLOCK	
C019	1-123-617-00	ELECT 10MF	20% 16V	CP016	1-231-628-00	COMPOSITION CIRCUIT BLOCK	
C020	1-123-617-00	ELECT 10MF	20% 16V	CP017	1-232-176-00	COMPOSITION CIRCUIT BLOCK	
C021	1-102-118-00	CERAMIC 0.0012MF	10% 50V	CP018	1-232-177-00	COMPOSITION CIRCUIT BLOCK	
C022	1-123-617-00	ELECT 10MF	20% 16V	CP019	1-232-178-00	COMPOSITION CIRCUIT BLOCK	
C023	1-123-617-00	ELECT 10MF	20% 16V	CP020	1-232-175-00	COMPOSITION CIRCUIT BLOCK	
C024	1-131-404-00	ELECT(SOLID) 0.22MF	10% 25V	<u>DIODE</u>			
C025	1-130-029-00	FILM 0.0082MF	5% 50V	D003	=>8-719-911-19	DIODE 1SS119	
C026	1-130-025-00	FILM 0.0039MF	5% 50V	D004	=>8-719-911-19	DIODE 1SS119	
C027	1-123-622-00	ELECT 22MF	20% 16V	D005	=>8-719-911-19	DIODE 1SS119	
C028	1-123-306-00	ELECT 47MF	20% 10V	D006	=>8-719-911-19	DIODE 1SS119	
C029	1-161-013-00	CERAMIC 0.01MF	10% 25V	D007	=>8-719-911-19	DIODE 1SS119	
C030	1-131-342-00	ELECT(SOLID) 0.15MF	10% 25V	D009	=>8-719-911-19	DIODE 1SS119	
C031	1-161-013-00	CERAMIC 0.01MF	10% 25V	D010	=>8-719-911-19	DIODE 1SS119	
C032	1-123-307-00	ELECT 100MF	20% 10V	D013	=>8-719-911-19	DIODE 1SS119	
C033	1-130-028-00	FILM 0.0068MF	5% 50V	D014	=>8-719-911-19	DIODE 1SS119	
C034	1-130-025-00	FILM 0.0039MF	5% 50V	D015	=>8-719-911-19	DIODE 1SS119	
C035	1-130-481-00	MYLAR 0.0068MF	5% 50V	<u>IC</u>			
C036	1-131-342-00	ELECT(SOLID) 0.15MF	10% 25V	IC001	8-759-132-40	IC UPC324C	
C037	1-123-306-00	ELECT 47MF	20% 10V	IC002	8-759-132-40	IC UPC324C	
C038	1-130-524-51	MYLAR 0.047MF	10% 50V	IC003	8-759-132-40	IC UPC324C	
C040	1-123-306-00	ELECT 47MF	20% 10V	IC004	8-759-240-30	IC TC4030BP	
C041	1-123-613-00	ELECT 3.3MF	20% 50V	IC005	8-741-104-10	IC BX-1041	
C042	1-161-034-00	CERAMIC 0.022MF	20% 25V	IC006	8-759-240-66	IC TC4066BP	
C043	1-102-121-00	CERAMIC 0.0022MF	10% 50V	IC007	8-759-240-13	IC TC4013BP	
C044	1-123-617-00	ELECT 10MF	20% 16V	IC008	8-759-240-81	IC TC4081BP	
C045	1-131-345-00	ELECT(SOLID) 0.47MF	10% 25V	IC009	=>8-759-345-38	IC HD14538BP	
C046	1-131-345-00	ELECT(SOLID) 0.47MF	10% 25V	IC010	8-759-240-11	IC TC4011BP	
C047	1-123-617-00	ELECT 10MF	20% 16V	IC011	8-759-240-11	IC TC4011BP	
C048	1-130-524-51	MYLAR 0.047MF	10% 50V	IC012	8-759-240-81	IC TC4081BP	
C049	1-131-407-00	ELECT(SOLID) 0.68MF	10% 25V	IC013	8-759-240-11	IC TC4011BP	
C050	1-102-074-00	CERAMIC 0.001MF	10% 50V	IC014	8-759-240-69	IC TC4069UBP	
C051	1-123-617-00	ELECT 10MF	20% 16V				

CONNECTOR

CN001: 1-560-472-00 PIN, CONNECTOR 12P
 CN002: 1-560-472-00 PIN, CONNECTOR 12P

NOTE:

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

Les composants identifiés par une trame et une marque **A** 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, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
 • MF : μ F, PF : μ μ F

RESISTORS
 • All resistors are in ohms
 • F : nonflammable

COILS
 • MMH : mH, UH : μ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
TRANSISTOR							
Q001	8-729-993-72	TRANSISTOR 2SA937		R020	1-246-846-00	CARBON 1.6K	1/8W
Q002	8-729-178-54	TRANSISTOR 2SC2785		R021	1-246-851-00	CARBON 4.3K	1/8W
Q003	8-729-178-54	TRANSISTOR 2SC2785		R022	1-246-807-00	CARBON 100K	1/8W
Q004	8-729-178-54	TRANSISTOR 2SC2785		R023	1-246-864-00	CARBON 51K	1/8W
Q005	8-729-117-54	TRANSISTOR 2SA1175		R024	1-246-807-00	CARBON 100K	1/8W
Q006	8-729-178-54	TRANSISTOR 2SC2785		R025	1-246-807-00	CARBON 100K	1/8W
Q007	8-729-993-72	TRANSISTOR 2SA937		R026	1-246-795-00	CARBON 10K	1/4W
Q008	8-729-178-54	TRANSISTOR 2SC2785		R032	1-246-781-00	CARBON 680	1/8W
Q009	8-729-178-54	TRANSISTOR 2SC2785		R033	1-246-807-00	CARBON 100K	1/8W
Q010	8-729-117-54	TRANSISTOR 2SA1175		R037	1-246-807-00	CARBON 100K	1/8W
Q012	8-729-178-54	TRANSISTOR 2SC2785		R038	1-214-140-00	METAL 2.2K 1%	1/4W
Q013	8-729-178-54	TRANSISTOR 2SC2785		R039	1-214-156-00	METAL 10K 1%	1/4W
Q014	8-729-117-54	TRANSISTOR 2SA1175		R040	1-214-168-00	METAL 33K 1%	1/4W
Q015	8-729-117-54	TRANSISTOR 2SA1175		R041	1-246-803-00	CARBON 47K	1/8W
Q016	8-729-178-54	TRANSISTOR 2SC2785		R043	1-247-053-00	CARBON 1M	1/8W
Q017	8-729-178-54	TRANSISTOR 2SC2785		R044	1-247-053-00	CARBON 1M	1/8W
Q018	8-729-902-11	TRANSISTOR 2SC2021		R045	1-246-765-00	CARBON 33	1/8W
Q019	8-729-178-54	TRANSISTOR 2SC2785		R047	1-246-807-00	CARBON 100K	1/8W
Q020	8-729-178-54	TRANSISTOR 2SC2785		R048	1-246-844-00	CARBON 1.1K	1/8W
Q021	8-729-178-54	TRANSISTOR 2SC2785		R049	1-246-846-00	CARBON 1.6K	1/8W
Q022	8-729-117-54	TRANSISTOR 2SA1175		R050	1-246-846-00	CARBON 1.6K	1/8W
Q023	8-729-117-54	TRANSISTOR 2SA1175		R052	1-246-791-00	CARBON 4.7K	1/8W
Q024	8-729-178-54	TRANSISTOR 2SC2785		R053	1-246-801-00	CARBON 33K	1/8W
Q025	8-729-178-54	TRANSISTOR 2SC2785		R055	1-247-053-00	CARBON 1M	1/8W
Q026	8-729-117-54	TRANSISTOR 2SA1175		R058	1-246-792-00	CARBON 5.6K	1/8W
Q027	8-729-117-54	TRANSISTOR 2SA1175		R061	1-246-848-00	CARBON 2.4K	1/8W
Q028	8-729-117-54	TRANSISTOR 2SA1175		R062	1-246-803-00	CARBON 47K	1/8W
Q029	8-729-117-54	TRANSISTOR 2SA1175		R063	1-246-783-00	CARBON 1K	1/8W
Q030	8-729-902-11	TRANSISTOR 2SC2021		R064	1-246-783-00	CARBON 1K	1/8W
Q031	8-729-117-54	TRANSISTOR 2SA1175		R065	1-246-783-00	CARBON 1K	1/8W
Q032	8-729-902-11	TRANSISTOR 2SC2021		R066	1-246-804-00	CARBON 56K	1/8W
Q033	8-729-117-54	TRANSISTOR 2SA1175		R067	1-246-804-00	CARBON 56K	1/8W
Q034	8-729-117-54	TRANSISTOR 2SA1175		R068	1-246-807-00	CARBON 100K	1/8W
Q035	8-729-117-54	TRANSISTOR 2SA1175		R069	1-246-803-00	CARBON 47K	1/8W
Q036	8-729-117-54	TRANSISTOR 2SA1175		R070	1-246-850-00	CARBON 3.6K	1/8W
Q037	8-729-178-54	TRANSISTOR 2SC2785		R071	1-246-805-00	CARBON 68K	1/8W
RESISTOR							
R001	1-246-803-00	CARBON 47K	1/8W	R076	1-246-795-00	CARBON 10K	1/8W
R002	1-246-803-00	CARBON 47K	1/8W	R077	1-246-807-00	CARBON 100K	1/8W
R003	1-214-154-00	METAL 8.2K 1%	1/4W	R078	1-246-807-00	CARBON 100K	1/8W
R004	1-214-156-00	METAL 10K 1%	1/4W	R080	1-246-803-00	CARBON 47K	1/8W
R005	1-246-791-00	CARBON 4.7K	1/8W	R084	1-246-791-00	CARBON 4.7K	1/8W
R006	1-247-053-00	CARBON 1M	1/8W	R085	1-246-807-00	CARBON 100K	1/8W
R011	1-246-791-00	CARBON 4.7K	1/8W	R086	1-214-780-00	METAL 130K 1%	1/4W
R012	1-247-053-00	CARBON 1M	1/8W	R087	1-214-786-00	METAL 240K 1%	1/4W
R013	1-246-792-00	CARBON 5.6K	1/8W	R088	1-246-775-00	CARBON 220	1/8W
R014	1-246-799-00	CARBON 22K	1/8W	R089	1-246-805-00	CARBON 68K	1/8W
R015	1-246-803-00	CARBON 47K	1/8W	R090	1-246-803-00	CARBON 47K	1/8W
R016	1-246-807-00	CARBON 100K	1/8W	R091	1-246-803-00	CARBON 47K	1/8W
R017	1-246-852-00	CARBON 5.1K	1/8W	R092	1-247-053-00	CARBON 1M	1/8W

NOTE:

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.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

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

->: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS

* MF : μ F, PF : μ μ F

RESISTORS

All resistors are in ohms
* F : nonflammable

COILS

* MMH : mH, UH : μ H

VL-3 BOARD

SS-10A BOARD

Ref.No	Part No	Description		Remark
R093	1-246-777-00	CARBON	330	1/8W
R094	1-246-803-00	CARBON	47K	1/8W
R095	1-246-803-00	CARBON	47K	1/8W
R096	1-246-807-00	CARBON	100K	1/8W
R097	1-246-807-00	CARBON	100K	1/8W
R100	1-246-771-00	CARBON	100	1/8W
R101	1-246-795-00	CARBON	10K	1/8W
R102	1-246-783-00	CARBON	1K	1/8W
R103	1-246-795-00	CARBON	10K	1/8W
R104	1-246-795-00	CARBON	10K	1/8W
R105	1-246-803-00	CARBON	47K	1/8W
R106	1-214-174-00	METAL	56K 1%	1/4W
R107	1-214-178-00	METAL	82K 1%	1/4W
R108	1-214-150-00	METAL	5.6K 1%	1/4W
R109	1-246-783-00	CARBON	1K	1/8W
R110	1-246-807-00	CARBON	100K	1/8W
R111	1-246-799-00	CARBON	22K	1/8W
R112	1-246-807-00	CARBON	100K	1/8W
R113	1-214-163-00	METAL	20K 1%	1/4W
R114	1-214-167-00	METAL	30K 1%	1/4W
R115	1-246-790-00	CARBON	3.9K	1/8W
R116	1-246-807-00	CARBON	100K	1/8W
R117	1-214-142-00	METAL	2.7K 1%	1/4W
R118	1-214-132-00	METAL	1K 1%	1/4W
R121	1-246-803-00	CARBON	47K	1/8W
R122	1-246-803-00	CARBON	47K	1/8W
R123	1-246-802-00	CARBON	39K	1/8W
R124	1-246-795-00	CARBON	10K	1/8W
R125	1-246-857-00	CARBON	13K	1/8W
R126	1-246-801-00	CARBON	33K	1/8W
R127	1-246-803-00	CARBON	47K	1/8W
R128	1-246-783-00	CARBON	1K	1/8W
R129	1-246-861-00	CARBON	30K	1/8W
R130	1-246-857-00	CARBON	13K	1/8W
R131	1-214-156-00	METAL	10K 1%	1/4W
R132	1-246-803-00	CARBON	47K	1/8W
R133	1-246-851-00	CARBON	4.3K	1/8W
R134	1-246-795-00	CARBON	10K	1/8W
R135	1-246-803-00	CARBON	47K	1/8W
R136	1-246-803-00	CARBON	47K	1/8W
R137	1-246-778-00	CARBON	390	1/8W
R138	1-246-807-00	CARBON	100K	1/8W
R139	1-214-145-00	METAL	3.6K 1%	1/4W
R140	1-246-807-00	CARBON	100K	1/8W
R141	1-246-807-00	CARBON	100K	1/8W
R142	1-214-134-00	METAL	1.2K 1%	1/4W
R146	1-246-807-00	CARBON	100K	1/8W
R147	1-246-807-00	CARBON	100K	1/8W
R148	1-214-158-00	METAL	12K 1%	1/4W
R149	1-214-153-00	METAL	7.5K 1%	1/4W
R154	1-246-783-00	CARBON	1K	1/8W
R156	1-246-869-00	CARBON	130K	1/8W
R157	1-246-807-00	CARBON	100K	1/8W

Ref.No	Part No	Description		Remark
R158	1-246-783-00	CARBON	1K	1/8W
R159	1-246-807-00	CARBON	100K	1/8W
R160	1-246-807-00	CARBON	100K	1/8W
R161	1-246-850-00	CARBON	3.6K	1/8W
R162	1-214-152-00	METAL	6.8K 1%	1/4W
R164	1-246-791-00	CARBON	4.7K	1/8W
R171	1-246-807-00	CARBON	100K	1/8W

VARIABLE RESISTOR

RV001	1-224-252-XX	RES, ADJ, METAL GLAZE	10K	
RV002	1-226-773-00	RES, ADJ, METAL GLAZE	22K	
RV003	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K	
RV004	1-224-253-XX	RES, ADJ, METAL GLAZE	22K	
RV005	1-224-253-XX	RES, ADJ, METAL GLAZE	22K	
RV006	1-224-256-XX	RES, ADJ, METAL GLAZE	220K	
RV007	1-224-256-XX	RES, ADJ, METAL GLAZE	220K	
RV008	1-224-256-XX	RES, ADJ, METAL GLAZE	220K	
RV009	1-224-256-XX	RES, ADJ, METAL GLAZE	220K	
RV010	1-226-703-00	RES, ADJ, METAL GLAZE	10K	
RV011	1-226-775-00	RES, ADJ, METAL GLAZE	100K	
RV012	1-224-256-XX	RES, ADJ, METAL GLAZE	220K	
RV013	1-224-256-XX	RES, ADJ, METAL GLAZE	220K	
RV014	1-228-270-00	RES, VAR, CARBON	10K	
RV015	1-226-775-00	RES, ADJ, METAL GLAZE	100K	
RV016	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K	
RV017	1-224-255-XX	RES, ADJ, METAL GLAZE	100K	
RV018	1-226-773-00	RES, ADJ, METAL GLAZE	22K	

 ▲:A-6715-131-A SS-10A BOARD, COMPLETE

3-572-085-00 WASHER, FIBER
 ▲:3-655-214-00 CLIP, CABLE
 ▲:3-671-839-00 CASE (MAIN), SHIELD, SS-10
 3-703-044-26 LABEL, CAUTION

CAPACITOR

C001	1-123-318-00	ELECT	33MF	20%	16V
C002	1-161-057-00	CERAMIC	0.033MF	10%	50V
C003	1-123-617-00	ELECT	10MF	20%	16V
C004	1-123-617-00	ELECT	10MF	20%	16V
C005	1-161-039-00	CERAMIC	0.001MF	10%	25V
C006	1-123-333-00	ELECT	100MF	20%	16V
C007	1-123-318-00	ELECT	33MF	20%	16V
C008	1-161-057-00	CERAMIC	0.033MF	10%	50V
C009	1-130-482-00	MYLAR	0.0082MF	5%	50V
C010	1-130-482-00	MYLAR	0.0082MF	5%	50V
C011	1-123-612-00	ELECT	2.2MF	20%	50V
C012	1-123-612-00	ELECT	2.2MF	20%	50V
C013	1-123-611-00	ELECT	1MF	20%	50V
C014	1-123-611-00	ELECT	1MF	20%	50V
C015	1-123-611-00	ELECT	1MF	20%	50V

NOTE:

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.

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

* =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

* Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

* MF : μF , PF : $\mu\mu F$

RESISTORS

* All resistors are in ohms
 * F : nonflammable

COILS

* MMH : mH, μH : μH

SS-10A BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark				
C016	1-123-611-00	ELECT	1MF	20%	50V	C332	1-161-016-00	CERAMIC	0.018MF	10%	25V
C017	1-123-617-00	ELECT	10MF	20%	16V	C333	1-161-002-00	CERAMIC	0.0012MF	10%	25V
C018	1-123-318-00	ELECT	33MF	20%	16V	C334	1-161-013-00	CERAMIC	0.01MF	10%	25V
C019	1-161-057-00	CERAMIC	0.033MF	10%	50V	C335	1-130-493-51	MYLAR	0.068MF	5%	50V
C020	1-123-318-00	ELECT	33MF	20%	16V	C336	1-123-613-00	ELECT	3.3MF	20%	50V
C021	1-161-057-00	CERAMIC	0.033MF	10%	50V	C337	1-102-978-00	CERAMIC	220PF	5%	50V
C022	1-123-611-00	ELECT	1MF	20%	50V	C338	1-123-294-00	ELECT	47MF	20%	6.3V
C023	1-123-611-00	ELECT	1MF	20%	50V	C339	1-123-616-00	ELECT	4.7MF	20%	25V
C024	1-161-009-00	CERAMIC	0.0047MF	10%	25V	C340	1-123-616-00	ELECT	4.7MF	20%	25V
C026	1-161-039-00	CERAMIC	0.001MF	10%	25V	C341	1-130-488-00	MYLAR	0.027MF	5%	50V
C028	1-123-611-00	ELECT	1MF	20%	50V	C342	1-123-622-00	ELECT	22MF	20%	16V
C029	1-123-613-00	ELECT	3.3MF	20%	50V	C343	1-123-294-00	ELECT	47MF	20%	6.3V
C030	1-123-318-00	ELECT	33MF	20%	16V	C344	1-123-295-00	ELECT	100MF	20%	6.3V
C031	1-161-057-00	CERAMIC	0.033MF	10%	50V	C345	1-161-017-00	CERAMIC	0.022MF	10%	25V
C032	1-161-057-00	CERAMIC	0.033MF	10%	50V	C346	1-161-013-00	CERAMIC	0.01MF	10%	25V
C033	1-123-318-00	ELECT	33MF	20%	16V	C347	1-161-016-00	CERAMIC	0.018MF	10%	25V
C034	1-161-057-00	CERAMIC	0.033MF	10%	50V	C348	1-131-368-00	TANTALUM	3.3MF	20%	16V
C035	1-161-021-00	CERAMIC	0.047MF	10%	25V	C349	1-131-347-00	TANTALUM	1MF	20%	35V
C036	1-161-021-00	CERAMIC	0.047MF	10%	25V	C350	1-123-294-00	ELECT	47MF	20%	6.3V
C037	1-161-005-00	CERAMIC	0.0022MF	10%	25V	C351	1-123-612-00	ELECT	2.2MF	20%	50V
C038	1-123-616-00	ELECT	4.7MF	20%	25V	C353	1-161-013-00	CERAMIC	0.01MF	10%	25V
C039	1-161-057-00	CERAMIC	0.033MF	10%	50V	C354	1-102-824-00	CERAMIC	430PF	5%	50V
C040	1-161-057-00	CERAMIC	0.033MF	10%	50V	C355	1-161-013-00	CERAMIC	0.01MF	10%	25V
C041	1-123-611-00	ELECT	1MF	20%	50V	C356	1-123-611-00	ELECT	1MF	20%	50V
C042	1-161-772-11	CERAMIC	0.1MF	10%	25V	C361	1-123-616-00	ELECT	4.7MF	20%	25V
C043	1-161-025-00	CERAMIC	0.1MF	10%	25V	C362	1-123-616-00	ELECT	4.7MF	20%	25V
C044	1-161-005-00	CERAMIC	0.0022MF	10%	25V	C370	1-161-021-00	CERAMIC	0.047MF	10%	25V
C045	1-161-005-00	CERAMIC	0.0022MF	10%	25V	C371	1-161-021-00	CERAMIC	0.047MF	10%	25V
C301	1-161-021-00	CERAMIC	0.047MF	10%	25V	C372	1-130-486-51	MYLAR	0.018MF	5%	50V
C302	1-130-491-51	MYLAR	0.047MF	5%	50V	C373	1-123-616-00	ELECT	4.7MF	20%	25V
C303	1-130-491-51	MYLAR	0.047MF	5%	50V	C374	1-161-021-00	CERAMIC	0.047MF	10%	25V
C304	1-123-613-00	ELECT	3.3MF	20%	50V	C401	1-123-021-00	ELECT	0.47MF	30%	50V
C305	1-123-613-00	ELECT	3.3MF	20%	50V	C402	1-123-616-00	ELECT	4.7MF	20%	25V
C306	1-123-613-00	ELECT	3.3MF	20%	50V	C403	1-101-888-00	CERAMIC	68PF	5%	50V
C307	1-130-483-51	MYLAR	0.01MF	5%	50V	C601	1-123-612-00	ELECT	2.2MF	20%	50V
C308	1-161-013-00	CERAMIC	0.01MF	10%	25V	C603	1-101-880-00	CERAMIC	47PF	5%	50V
C309	1-130-483-51	MYLAR	0.01MF	5%	50V	C604	1-101-880-00	CERAMIC	47PF	5%	50V
C310	1-123-296-00	ELECT	220MF	20%	6.3V	C605	1-123-617-00	ELECT	10MF	20%	16V
C311	1-161-021-00	CERAMIC	0.047MF	10%	25V	C606	1-123-617-00	ELECT	10MF	20%	16V
C312	1-161-017-00	CERAMIC	0.022MF	10%	25V	C607	1-123-610-00	ELECT	0.47MF	20%	50V
C317	1-123-611-00	ELECT	1MF	20%	50V	C608	1-123-617-00	ELECT	10MF	20%	16V
C318	1-123-618-00	ELECT	22MF	20%	6.3V	C609	1-101-884-00	CERAMIC	56PF	5%	50V
C319	1-123-333-00	ELECT	100MF	20%	16V	C610	1-161-021-00	CERAMIC	0.047MF	10%	25V
C321	1-123-318-00	ELECT	33MF	20%	16V	C611	1-161-021-00	CERAMIC	0.047MF	10%	25V
C322	1-123-318-00	ELECT	33MF	20%	16V	C612	1-161-021-00	CERAMIC	0.047MF	10%	25V
C323	1-161-021-00	CERAMIC	0.047MF	10%	25V	C613	1-161-021-00	CERAMIC	0.047MF	10%	25V
C325	1-130-483-51	MYLAR	0.01MF	5%	50V	C614	1-161-021-00	CERAMIC	0.047MF	10%	25V
C326	1-123-306-00	ELECT	47MF	20%	10V	C615	1-161-021-00	CERAMIC	0.047MF	10%	25V
C327	1-123-612-00	ELECT	2.2MF	20%	50V	C616	1-161-021-00	CERAMIC	0.047MF	10%	25V
C328	1-131-404-00	ELECT(SOLID)	0.22MF	10%	25V	C617	1-161-021-00	CERAMIC	0.047MF	10%	25V
C330	1-123-617-00	ELECT	10MF	20%	16V	C618	1-161-021-00	CERAMIC	0.047MF	10%	25V
C331	1-161-017-00	CERAMIC	0.022MF	10%	25V	C619	1-123-306-00	ELECT	47MF	20%	10V
C332	1-161-016-00	CERAMIC	0.018MF	10%	25V	C620	1-123-318-00	ELECT	33MF	20%	16V

NOTE:

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

Les composants identifiés par une trame et une marque **A** 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, interchangeable replacements may be substituted for parts specified in the diagrams.

* Items marked " & " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

* MF : μ F, PF : μ MF

RESISTORS

* All resistors are in ohms
* F : nonflammable

COILS

* MMH : mH, UH : μ H

SS-10A BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C621	1-123-318-00	ELECT 33MF	20% 16V	CP011	1-232-062-00	COMPOSITION CIRCUIT BLOCK	
C622	1-161-023-00	CERAMIC 0.068MF	10% 25V	CP012	1-232-069-00	COMPOSITION CIRCUIT BLOCK	
C630	1-161-021-00	CERAMIC 0.047MF	10% 25V	CP013	1-232-063-00	COMPOSITION CIRCUIT BLOCK	
C640	1-161-017-00	CERAMIC 0.022MF	10% 25V	CP014	1-232-059-00	COMPOSITION CIRCUIT BLOCK	
<u>CONNECTOR</u>				CP015	1-232-064-00	COMPOSITION CIRCUIT BLOCK	
CN001	1-560-466-00	PIN, CONNECTOR 3P		CP016	1-232-169-00	COMPOSITION CIRCUIT BLOCK	
CN002	1-560-466-00	PIN, CONNECTOR 3P		CP017	1-232-169-00	COMPOSITION CIRCUIT BLOCK	
CN003	1-560-469-00	PIN, CONNECTOR 6P		CP018	1-232-066-00	COMPOSITION CIRCUIT BLOCK	
CN301	1-560-467-00	PIN, CONNECTOR 4P		CP019	1-232-067-00	COMPOSITION CIRCUIT BLOCK	
CN302	1-560-466-00	PIN, CONNECTOR 3P		CP020	1-232-059-00	COMPOSITION CIRCUIT BLOCK	
CN303	1-560-467-00	PIN, CONNECTOR 4P		CP021	1-232-068-00	COMPOSITION CIRCUIT BLOCK	
CN304	1-560-456-00	PIN, CONNECTOR 2P		CP022	1-232-062-00	COMPOSITION CIRCUIT BLOCK	
CN305	1-560-467-00	PIN, CONNECTOR 4P		CP023	1-232-061-00	COMPOSITION CIRCUIT BLOCK	
CN306	1-560-466-00	PIN, CONNECTOR 3P		CP024	1-232-061-00	COMPOSITION CIRCUIT BLOCK	
CN307	1-560-467-00	PIN, CONNECTOR 4P		CP025	1-232-069-00	COMPOSITION CIRCUIT BLOCK	
CN308	1-560-472-00	PIN, CONNECTOR 12P		CP026	1-232-139-00	COMPOSITION CIRCUIT BLOCK	
CN309	1-560-456-00	PIN, CONNECTOR 2P		CP027	1-232-142-00	COMPOSITION CIRCUIT BLOCK	
CN310	1-560-460-00	PIN, CONNECTOR 4P		CP028	1-232-143-00	COMPOSITION CIRCUIT BLOCK	
CN601	1-560-468-00	PIN, CONNECTOR 5P		CP030	1-232-144-00	COMPOSITION CIRCUIT BLOCK	
CN602	1-560-470-00	PIN, CONNECTOR 8P		CP031	1-232-218-00	COMPOSITION CIRCUIT BLOCK	
CN603	1-560-470-00	PIN, CONNECTOR 8P		CP032	1-232-146-00	COMPOSITION CIRCUIT BLOCK	
CN604	1-560-470-00	PIN, CONNECTOR 8P		CP033	1-232-147-00	COMPOSITION CIRCUIT BLOCK	
CN608	1-560-467-00	PIN, CONNECTOR 4P		CP301	1-232-136-00	COMPOSITION CIRCUIT BLOCK	
CN609	1-560-468-00	PIN, CONNECTOR 5P		CP303	1-232-137-00	COMPOSITION CIRCUIT BLOCK	
CN610	1-560-469-00	PIN, CONNECTOR 6P		CP304	1-232-138-00	COMPOSITION CIRCUIT BLOCK	
CN611	1-560-470-00	PIN, CONNECTOR 8P		CP312	1-232-140-00	COMPOSITION CIRCUIT BLOCK	
CN612	1-560-467-00	PIN, CONNECTOR 4P		CP313	1-232-141-00	COMPOSITION CIRCUIT BLOCK	
CN613	1-560-470-00	PIN, CONNECTOR 8P		CP315	1-232-151-00	COMPOSITION CIRCUIT BLOCK	
CN614	1-560-471-00	PIN, CONNECTOR 10P		CP316	1-232-151-00	COMPOSITION CIRCUIT BLOCK	
CN615	1-560-467-00	PIN, CONNECTOR 4P		CP317	1-232-079-00	COMPOSITION CIRCUIT BLOCK	
CN616	1-560-467-00	PIN, CONNECTOR 4P		CP318	1-232-071-00	COMPOSITION CIRCUIT BLOCK	
CN617	1-560-467-00	PIN, CONNECTOR 4P		CP319	1-232-148-00	COMPOSITION CIRCUIT BLOCK	
CN618	1-560-467-00	PIN, CONNECTOR 4P		CP322	1-232-152-00	COMPOSITION CIRCUIT BLOCK	
CN619	1-560-467-00	PIN, CONNECTOR 4P		CP323	1-232-148-00	COMPOSITION CIRCUIT BLOCK	
CN620	1-560-468-00	PIN, CONNECTOR 5P		CP324	1-232-150-00	COMPOSITION CIRCUIT BLOCK	
CN621	1-560-471-00	PIN, CONNECTOR 10P		CP326	1-232-152-00	COMPOSITION CIRCUIT BLOCK	
CN622	1-560-471-00	PIN, CONNECTOR 10P		CP328	1-232-126-00	COMPOSITION CIRCUIT BLOCK	
CN623	1-560-469-00	PIN, CONNECTOR 6P		CP329	1-232-150-00	COMPOSITION CIRCUIT BLOCK	
CN624	1-560-470-00	PIN, CONNECTOR 8P		CP335	1-232-149-00	COMPOSITION CIRCUIT BLOCK	
CN625	1-560-472-00	PIN, CONNECTOR 12P		CP601	1-232-158-00	COMPOSITION CIRCUIT BLOCK	
CN626	1-560-471-00	PIN, CONNECTOR 10P		CP602	1-232-158-00	COMPOSITION CIRCUIT BLOCK	
CN627	1-560-470-00	PIN, CONNECTOR 8P		CP605	1-232-157-00	COMPOSITION CIRCUIT BLOCK	
<u>COMPOSITION CIRCUIT BLOCK</u>				CP606	1-232-159-00	COMPOSITION CIRCUIT BLOCK	
CP001	1-232-055-00	COMPOSITION CIRCUIT BLOCK		CP607	1-232-159-00	COMPOSITION CIRCUIT BLOCK	
CP004	1-232-057-00	COMPOSITION CIRCUIT BLOCK		CP609	1-232-154-00	COMPOSITION CIRCUIT BLOCK	
CP005	1-232-058-00	COMPOSITION CIRCUIT BLOCK		CP610	1-232-155-00	COMPOSITION CIRCUIT BLOCK	
CP006	1-232-059-00	COMPOSITION CIRCUIT BLOCK		CP612	1-232-156-00	COMPOSITION CIRCUIT BLOCK	
CP007	1-232-060-00	COMPOSITION CIRCUIT BLOCK		CP613	1-232-163-00	COMPOSITION CIRCUIT BLOCK	
CP008	1-232-060-00	COMPOSITION CIRCUIT BLOCK		CP614	1-232-163-00	COMPOSITION CIRCUIT BLOCK	
CP009	1-232-061-00	COMPOSITION CIRCUIT BLOCK		CP615	1-232-153-00	COMPOSITION CIRCUIT BLOCK	
CP010	1-232-061-00	COMPOSITION CIRCUIT BLOCK		<u>DIODE</u>			
				D001	8-719-911-06	DIODE 1S5106	

NOTE:

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

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

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

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

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS

• MF : μ F, PF : μ PF

RESISTORS

• All resistors are in ohms
• F : nonflammable

COILS

• MMH : mH, UH : μ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
D002	8-719-911-06	DIODE 1SS106		IC309	8-741-103-90	IC BX-1039	
D003	8-719-911-19	DIODE 1SS119		IC310	8-743-981-00	IC BX-3981	
D008	8-719-911-19	DIODE 1SS119		IC311	8-741-103-80	IC BX-1038	
D009	8-719-982-04	DIODE ERB81-004		IC312	8-759-250-26	IC TC5026BP	
D010	8-719-911-19	DIODE 1SS119		IC313	8-759-240-51	IC TC4051BP	
D012	8-719-911-19	DIODE 1SS119		IC314	8-741-013-10	IC BX-1013-1	
D013	8-719-982-04	DIODE ERB81-004		IC601	8-759-985-27	IC MB8845-527	
D014	8-719-911-19	DIODE 1SS119		IC602	8-759-985-28	IC MB8845-528	
D015	8-719-911-19	DIODE 1SS119		IC603	8-759-900-45	IC MB8845-549	
D301	8-719-911-06	DIODE 1SS106		IC604	8-759-133-90	IC UPC339C	
D302	8-719-911-19	DIODE 1SS119		IC605	8-759-220-04	IC TC40H004P	
D303	8-719-982-04	DIODE ERB81-004		IC606	8-759-240-69	IC TC4069UBP	
D304	8-719-113-07	DIODE RD13E-B		IC607	8-759-240-13	IC TC4013BP	
D305	8-719-911-06	DIODE 1SS106		IC608	8-759-987-47	IC MB8747	
D306	8-719-911-19	DIODE 1SS119		IC609	8-759-987-47	IC MB8747	
D307	8-719-911-19	DIODE 1SS119		IC610	8-743-988-00	IC BX-3988	
D308	8-719-911-06	DIODE 1SS106		IC611	8-759-900-04	IC SN74LS04M	
D309	8-719-911-19	DIODE 1SS119		IC612	8-741-101-60	IC BX-1016	
D310	8-719-911-19	DIODE 1SS119					
D311	8-719-911-19	DIODE 1SS119					
D312	8-719-911-19	DIODE 1SS119					
D313	8-719-911-19	DIODE 1SS119					
D314	8-719-911-19	DIODE 1SS119					
D315	8-719-911-19	DIODE 1SS119					
D316	8-719-911-19	DIODE 1SS119					
D317	8-719-911-19	DIODE 1SS119					
D318	8-719-911-19	DIODE 1SS119					
D401	8-719-911-19	DIODE 1SS119					
D603	8-719-901-33	DIODE 1SS133					
D604	8-719-911-06	DIODE 1SS106					
D612	8-719-911-06	DIODE 1SS106					
<u>FUSE</u>				<u>COIL</u>			
F601	1-532-625-00	FUSE, GLASS TUBE 1.25A 125V		L001	1-408-519-00	COIL, CHOKE 42UH	
F602	1-532-624-00	FUSE, GLASS TUBE 0.5A 125V		L002	1-408-519-00	COIL, CHOKE 42UH	
F603	1-532-595-00	FUSE, GLASS TUBE 3.15A 125V		L003	1-408-519-00	COIL, CHOKE 42UH	
F604	1-532-605-00	FUSE, ELECTRIC CURRENT		L301	1-408-518-00	COIL, CHOKE 1MMH	
				L302	1-459-232-00	COIL, CORE 90UH	
				L601	1-408-409-00	MICRO INDUCTOR 10UH	
				L602	1-408-409-00	MICRO INDUCTOR 10UH	
				<u>TRANSISTOR</u>			
				Q001	8-729-117-54	TRANSISTOR 2SA1175	
				Q002	8-729-178-54	TRANSISTOR 2SC2785	
				Q003	8-729-178-54	TRANSISTOR 2SC2785	
				Q004	8-729-178-54	TRANSISTOR 2SC2785	
				Q006	8-729-178-54	TRANSISTOR 2SC2785	
				Q007	8-729-178-54	TRANSISTOR 2SC2785	
				Q008	8-729-117-54	TRANSISTOR 2SA1175	
				Q009	8-729-178-54	TRANSISTOR 2SC2785	
				Q010	8-729-178-54	TRANSISTOR 2SC2785	
				Q011	8-729-178-54	TRANSISTOR 2SC2785	
				Q012	8-729-178-54	TRANSISTOR 2SC2785	
				Q013	8-729-178-54	TRANSISTOR 2SC2785	
				Q014	8-729-178-54	TRANSISTOR 2SC2785	
				Q015	8-729-178-54	TRANSISTOR 2SC2785	
				Q016	8-729-117-54	TRANSISTOR 2SA1175	
				Q017	8-729-113-33	TRANSISTOR 2SB733	
				Q018	8-729-113-33	TRANSISTOR 2SB733	
				Q019	8-729-178-54	TRANSISTOR 2SC2785	
				Q020	8-729-178-54	TRANSISTOR 2SC2785	
				Q021	8-729-178-54	TRANSISTOR 2SC2785	
				Q022	8-729-178-54	TRANSISTOR 2SC2785	
				Q023	8-729-178-54	TRANSISTOR 2SC2785	
				Q024	8-729-117-54	TRANSISTOR 2SA1175	
				Q025	8-729-113-33	TRANSISTOR 2SB733	

NOTE:

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.

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

* =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

* Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
* NF : μ F, PF : μ μ F

RESISTORS
* All resistors are in ohms
* F : nonflammable

COILS
* MMH : mH, UH : μ H

SS-10A BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
Q026	8-729-113-33	TRANSISTOR 2SB733		R020	1-246-799-00	CARBON 22K	1/8W
Q027	8-729-178-54	TRANSISTOR 2SC2785		R021	1-246-803-00	CARBON 47K	1/8W
Q028	8-729-178-54	TRANSISTOR 2SC2785		R022	1-246-794-00	CARBON 8.2K	1/8W
Q029	8-729-178-54	TRANSISTOR 2SC2785		R023	1-246-785-00	CARBON 1.5K	1/8W
Q030	8-729-117-54	TRANSISTOR 2SA1175		R030	1-246-803-00	CARBON 47K	1/8W
Q301	8-729-178-54	TRANSISTOR 2SC2785		R031	1-246-791-00	CARBON 4.7K	1/8W
Q302	8-729-177-32	TRANSISTOR 2SD773		R032	1-246-803-00	CARBON 47K	1/8W
Q303	8-729-117-54	TRANSISTOR 2SA1175		R035	1-246-803-00	CARBON 47K	1/8W
Q304	8-729-113-33	TRANSISTOR 2SB733-U2		R037	1-246-783-00	CARBON 1K	1/8W
Q305	8-729-178-54	TRANSISTOR 2SC2785		R038	1-246-799-00	CARBON 22K	1/8W
Q307	8-729-178-54	TRANSISTOR 2SC2785		R041	1-246-799-00	CARBON 22K	1/8W
Q308	8-729-178-54	TRANSISTOR 2SC2785		R042	1-246-799-00	CARBON 22K	1/8W
Q309	8-729-117-54	TRANSISTOR 2SA1175		R043	1-246-795-00	CARBON 10K	1/8W
Q310	8-729-178-54	TRANSISTOR 2SC2785		R044	1-246-803-00	CARBON 47K	1/8W
Q311	8-729-178-54	TRANSISTOR 2SC2785		R045	1-246-449-00	CARBON 100 5%	1/4W
Q314	8-729-178-54	TRANSISTOR 2SC2785		R046	1-246-457-00	CARBON 220 5%	1/4W
Q315	8-729-178-54	TRANSISTOR 2SC2785		R055	1-244-861-00	CARBON 330 5%	1/2W
Q317	8-729-178-54	TRANSISTOR 2SC2785		R056	1-246-783-00	CARBON 1K	1/8W
Q318	8-729-117-54	TRANSISTOR 2SA1175		R057	1-217-612-00	WIREWOUND 0.1	2W F
Q320	8-729-178-54	TRANSISTOR 2SC2785		R058	1-246-801-00	CARBON 33K	1/8W
Q321	8-729-117-54	TRANSISTOR 2SA1175		R060	1-246-860-00	CARBON 24K	1/8W
Q322	8-729-117-54	TRANSISTOR 2SA1175		R064	1-247-049-00	CARBON 470K	1/8W
Q324	8-729-178-54	TRANSISTOR 2SC2785		R068	1-246-795-00	CARBON 10K	1/8W
Q325	8-729-178-54	TRANSISTOR 2SC2785		R071	1-247-057-00	CARBON 430K	1/8W
Q326	8-729-117-54	TRANSISTOR 2SA1175		R073	1-246-795-00	CARBON 10K	1/8W
Q327	8-729-178-54	TRANSISTOR 2SC2785		R080	1-246-783-00	CARBON 1K	1/8W
Q328	8-729-178-54	TRANSISTOR 2SC2785		R081	1-246-807-00	CARBON 100K	1/8W
Q401	8-729-178-54	TRANSISTOR 2SC2785		R082	1-247-049-00	CARBON 470K	1/8W
Q601	8-729-178-54	TRANSISTOR 2SC2785		R083	1-246-791-00	CARBON 4.7K	1/8W
Q602	8-729-178-54	TRANSISTOR 2SC2785		R084	1-246-791-00	CARBON 4.7K	1/8W
Q603	8-729-178-54	TRANSISTOR 2SC2785		R085	1-246-799-00	CARBON 22K	1/8W
Q604	8-729-113-33	TRANSISTOR 2SB733		R089	1-246-795-00	CARBON 10K	1/8W
Q605	8-729-178-54	TRANSISTOR 2SC2785		R090	1-247-049-00	CARBON 470K	1/8W
Q606	8-729-178-54	TRANSISTOR 2SC2785		R091	1-246-807-00	CARBON 100K	1/8W
Q607	8-729-178-54	TRANSISTOR 2SC2785		R093	1-246-803-00	CARBON 47K	1/8W
Q613	8-729-178-54	TRANSISTOR 2SC2785		R094	1-246-795-00	CARBON 10K	1/8W
Q614	8-729-178-54	TRANSISTOR 2SC2785		R095	1-246-449-00	CARBON 100 5%	1/4W
Q615	8-729-178-54	TRANSISTOR 2SC2785		R096	1-246-457-00	CARBON 220 5%	1/4W
Q616	8-729-178-54	TRANSISTOR 2SC2785		R103	1-244-861-00	CARBON 330 5%	1/2W
Q617	8-729-178-54	TRANSISTOR 2SC2785		R106	1-246-783-00	CARBON 1K	1/8W
Q618	8-729-178-54	TRANSISTOR 2SC2785		R108	1-246-803-00	CARBON 47K	1/8W
Q620	8-729-178-54	TRANSISTOR 2SC2785		R110	1-246-811-00	CARBON 220K	1/8W
Q621	8-729-178-54	TRANSISTOR 2SC2785		R111	1-246-803-00	CARBON 47K	1/8W
Q624	8-729-117-54	TRANSISTOR 2SA1175		R113	1-246-803-00	CARBON 47K	1/8W
Q625	8-729-117-54	TRANSISTOR 2SA1175		R114	1-246-803-00	CARBON 47K	1/8W
Q626	8-729-117-54	TRANSISTOR 2SA1175		R115	1-246-801-00	CARBON 33K	1/8W
Q640	8-729-178-54	TRANSISTOR 2SC2785		R116	1-246-847-00	CARBON 2K	1/8W
		RESISTOR		R117	1-246-799-00	CARBON 22K	1/8W
R011	1-246-803-00	CARBON 47K	1/8W	R118	1-246-799-00	CARBON 22K	1/8W
R014	1-247-055-00	CARBON 300K	1/8W	R301	1-246-799-00	CARBON 22K	1/8W
R017	1-246-803-00	CARBON 47K	1/8W	R302	1-246-793-00	CARBON 6.8K	1/8W
R018	1-246-859-00	CARBON 20K	1/8W	R303	1-246-797-00	CARBON 15K	1/8W
				R304	1-246-795-00	CARBON 10K	1/8W

NOTE:

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.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

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

->: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS
MF : μF , PF : $\mu \mu F$

RESISTORS
All resistors are in ohms
F : nonflammable

COILS
MH : mH, μH : μH

Ref.No	Part No	Description		Remark	Ref.No	Part No	Description		Remark
R310	1-246-795-00	CARBON	10K	1/8W	R399	1-246-837-00	CARBON	300	1/8W
R311	1-246-795-00	CARBON	10K	1/8W	R400	1-246-798-00	CARBON	18K	1/8W
R315	1-246-791-00	CARBON	4.7K	1/8W	R401	1-246-779-00	CARBON	470	1/8W
R316	1-246-805-00	CARBON	68K	1/8W	R404	1-246-801-00	CARBON	33K	1/8W
R317	1-246-803-00	CARBON	47K	1/8W	R407	1-246-803-00	CARBON	47K	1/8W
R318	1-246-852-00	CARBON	5.1K	1/8W	R411	1-246-803-00	CARBON	47K	1/8W
R321	1-246-783-00	CARBON	1K	1/8W	R412	1-246-795-00	CARBON	10K	1/8W
R322	▲ 1-212-356-00	METAL	0.47	5% 1W F	R414	1-246-783-00	CARBON	1K	1/8W
R323	1-246-799-00	CARBON	22K	1/8W	R415	1-246-803-00	CARBON	47K	1/8W
R327	1-246-797-00	CARBON	15K	1/8W	R416	1-246-799-00	CARBON	22K	1/8W
R330	1-246-788-00	CARBON	2.7K	1/8W	R451	1-247-047-00	CARBON	330K	1/8W
R331	1-246-809-00	CARBON	150K	1/8W	R452	1-246-797-00	CARBON	15K	1/8W
R334	1-246-801-00	CARBON	33K	1/8W	R453	1-247-054-00	CARBON	240K	1/8W
R337	1-246-801-00	CARBON	33K	1/8W	R460	1-246-795-00	CARBON	10K	1/8W
R338	1-246-809-00	CARBON	150K	1/8W	R468	1-246-791-00	CARBON	4.7K	1/8W
R339	1-246-810-00	CARBON	180K	1/8W	R473	1-246-803-00	CARBON	47K	1/8W
R340	1-246-788-00	CARBON	2.7K	1/8W	R474	1-246-787-00	CARBON	2.2K	1/8W
R342	1-246-801-00	CARBON	33K	1/8W	R479	1-246-807-00	CARBON	100K	1/8W
R344	1-246-801-00	CARBON	33K	1/8W	R480	1-246-805-00	CARBON	68K	1/8W
R345	1-246-801-00	CARBON	33K	1/8W	R481	1-246-805-00	CARBON	68K	1/8W
R346	1-246-807-00	CARBON	100K	1/8W	R482	1-246-805-00	CARBON	68K	1/8W
R347	1-246-806-00	CARBON	82K	1/8W	R483	1-246-801-00	CARBON	33K	1/8W
R348	1-246-801-00	CARBON	33K	1/8W	R484	1-246-791-00	CARBON	4.7K	1/8W
R353	1-246-769-00	CARBON	68	1/8W	R487	1-246-795-00	CARBON	10K	1/8W
R354	1-246-795-00	CARBON	10K	1/8W	R488	1-246-800-00	CARBON	27K	1/8W
R355	1-246-795-00	CARBON	10K	1/8W	R489	1-246-845-00	CARBON	1.3K	1/8W
R358	1-246-795-00	CARBON	10K	1/8W	R490	1-246-845-00	CARBON	1.3K	1/8W
R363	1-246-809-00	CARBON	150K	1/8W	R491	1-246-845-00	CARBON	1.3K	1/8W
R364	1-246-801-00	CARBON	33K	1/8W	R492	1-246-797-00	CARBON	15K	1/8W
R365	1-246-866-00	CARBON	75K	1/8W	R495	1-246-444-00	CARBON	62	5% 1/4W
R366	1-246-859-00	CARBON	20K	1/8W	R496	1-246-779-00	CARBON	470	1/8W
R367	1-246-799-00	CARBON	22K	1/8W	R498	1-246-803-00	CARBON	47K	1/8W
R368	1-246-804-00	CARBON	56K	1/8W	R499	1-246-791-00	CARBON	4.7K	1/8W
R369	1-246-800-00	CARBON	27K	1/8W	R501	1-246-850-00	CARBON	3.6K	1/8W
R370	1-246-802-00	CARBON	39K	1/8W	R502	1-246-852-00	CARBON	5.1K	1/8W
R371	1-246-795-00	CARBON	10K	1/8W	R503	1-246-759-00	CARBON	10	1/8W
R373	1-246-783-00	CARBON	1K	1/8W	R601	1-246-799-00	CARBON	22K	1/8W
R374	1-246-804-00	CARBON	56K	1/8W	R602	1-246-807-00	CARBON	100K	1/8W
R375	1-246-795-00	CARBON	10K	1/8W	R603	1-246-799-00	CARBON	22K	1/8W
R376	1-246-795-00	CARBON	10K	1/8W	R605	1-246-807-00	CARBON	100K	1/8W
R377	1-246-795-00	CARBON	10K	1/8W	R606	1-246-803-00	CARBON	47K	1/8W
R378	1-246-799-00	CARBON	22K	1/8W	R607	1-246-791-00	CARBON	4.7K	1/8W
R381	1-246-783-00	CARBON	1K	1/8W	R608	1-246-807-00	CARBON	100K	1/8W
R382	1-246-795-00	CARBON	10K	1/8W	R609	1-246-469-00	CARBON	680	5% 1/4W
R383	1-246-803-00	CARBON	47K	1/8W	R610	1-246-803-00	CARBON	47K	1/8W
R387	1-246-795-00	CARBON	10K	1/8W	R611	1-246-807-00	CARBON	100K	1/8W
R390	1-246-851-00	CARBON	4.3K	1/8W	R612	1-246-807-00	CARBON	100K	1/8W
R391	1-246-803-00	CARBON	47K	1/8W	R613	1-246-803-00	CARBON	47K	1/8W
R392	1-246-799-00	CARBON	22K	1/8W	R615	1-246-783-00	CARBON	1K	1/8W
R393	1-246-799-00	CARBON	22K	1/8W	R616	1-246-859-00	CARBON	20K	1/8W
R394	1-246-795-00	CARBON	10K	1/8W	R617	1-246-795-00	CARBON	10K	1/8W
R396	1-246-810-00	CARBON	180K	1/8W	R618	1-246-791-00	CARBON	4.7K	1/8W
R397	1-246-801-00	CARBON	33K	1/8W	R627	1-246-791-00	CARBON	4.7K	1/8W

NOTE:

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.

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

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

• MF : μ F, PF : μ μ F

RESISTORS

• All resistors are in ohms
• F : nonflammable

COILS

• MMH : mH, UH : μ H

SS-10A BOARD

FU-3 BOARD

Ref.No	Part No	Description	Remark
R628	1-246-791-00	CARBON 4.7K	1/8W
R629	1-246-791-00	CARBON 4.7K	1/8W
R630	1-246-791-00	CARBON 4.7K	1/8W
R631	1-246-791-00	CARBON 4.7K	1/8W
R632	1-246-791-00	CARBON 4.7K	1/8W
R633	1-246-801-00	CARBON 33K	1/8W
R633	1-246-803-00	CARBON 47K	1/8W
R634	1-246-803-00	CARBON 47K	1/8W
R635	1-246-803-00	CARBON 47K	1/8W
R640	1-247-049-00	CARBON 470K	1/8W
R645	1-246-795-00	CARBON 10K	1/8W
R648	1-246-791-00	CARBON 4.7K	1/8W
R649	1-246-791-00	CARBON 4.7K	1/8W
R650	1-246-791-00	CARBON 4.7K	1/8W
R660	1-246-803-00	CARBON 47K	1/8W
R690	1-246-783-00	CARBON 1K	1/8W
R691	1-246-803-00	CARBON 47K	1/8W
R693	1-246-783-00	CARBON 1K	1/8W
R694	1-246-795-00	CARBON 10K	1/8W
R695	1-246-795-00	CARBON 10K	1/8W
R699	1-246-807-00	CARBON 100K	1/8W
R703	1-246-751-00	CARBON 2.2	1/8W

VARIABLE RESISTOR

RV001	1-226-774-00	RES, ADJ, METAL GLAZE 47K
RV002	1-226-773-00	RES, ADJ, METAL GLAZE 22K
RV301	1-226-753-00	RES, ADJ, SOLID 47K
RV302	1-224-254-XX	RES, ADJ, METAL GLAZE 47K
RV303	1-226-771-00	RES, ADJ, METAL GLAZE 1K
RV304	1-226-753-00	RES, ADJ, SOLID 47K
RV305	1-226-753-00	RES, ADJ, SOLID 47K
RV306	1-226-774-00	RES, ADJ, METAL GLAZE 47K
RV307	1-226-703-00	RES, ADJ, METAL GLAZE 10K
RV308	1-226-703-00	RES, ADJ, METAL GLAZE 10K
RV309	1-226-703-00	RES, ADJ, METAL GLAZE 10K
RV310	1-226-703-00	RES, ADJ, METAL GLAZE 10K
RV314	1-226-753-00	RES, ADJ, SOLID 47K
RV315	1-226-701-00	RES, ADJ, METAL GLAZE 220
RV316	1-226-701-00	RES, ADJ, METAL GLAZE 220
RV317	1-226-753-00	RES, ADJ, SOLID 47K

THERMISTOR

TH001	1-800-200-00	THERMISTOR S-3K
TH301	1-800-200-00	THERMISTOR S-3K

CRYSTAL

X601	1-527-726-00	VIBRATOR, CRYSTAL
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NOTE:

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

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

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Ref.No	Part No	Description	Remark
*:A-6717-225-A		FU-3 BOARD, COMPLETE	*****
*:3-670-094-02		HOLDER, LED, 6 GANG	
*:3-670-095-00		HOLDER, LED	
*:3-674-312-00		COVER, 3 GANG LED	
*:3-674-313-00		COVER, LED	
*:3-674-314-00		PROTECTOR (A)	
*:3-674-315-00		PROTECTOR (B)	
*:3-674-316-00		RETAINER, HARNESS	

CAPACITOR

C001	1-161-013-00	CERAMIC	0.01MF	10%	25V
C002	1-123-617-00	ELECT	10MF	20%	16V
C003	1-161-321-00	CERAMIC	680PF	10%	50V

DIODE

D001	8-719-812-30	DIODE TLO123
D002	8-719-914-02	DIODE BR3402S
D003	8-719-914-33	DIODE PG3432SY
D004	8-719-812-32	DIODE TLY123
D005	8-719-812-32	DIODE TLY123
D006	8-719-812-32	DIODE TLY123
D008	8-719-914-02	DIODE BR3402S
D009	8-719-932-22	DIODE QL-9NG922B
D010	8-719-932-22	DIODE QL-9NG922B
D011	8-719-932-22	DIODE QL-9NG922B
D012	8-719-932-22	DIODE QL-9NG922B
D013	8-719-932-22	DIODE QL-9NG922B
D014	8-719-932-22	DIODE QL-9NG922B
D015	8-719-914-33	DIODE PG3432SY
D016	8-719-914-33	DIODE PG3432SY
D017	8-719-914-33	DIODE PG3432SY
D018	8-719-914-33	DIODE PG3432SY
D019	8-719-914-33	DIODE PG3432SY
D020	8-719-914-33	DIODE PG3432SY
D021	8-719-914-33	DIODE PG3432SY
D022	8-719-914-33	DIODE PG3432SY
D023	8-719-914-33	DIODE PG3432SY
D024	8-719-812-32	DIODE TLY123
D026	8-719-812-32	DIODE TLY123
D027	8-719-812-32	DIODE TLY123
D028	8-719-812-32	DIODE TLY123
D029	8-719-911-06	DIODE 1SS106
D030	8-719-911-06	DIODE 1SS106
D031	8-719-911-06	DIODE 1SS106

IC

IC001	8-759-987-58	IC MB8758
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TRANSISTOR

Q001	8-729-178-54	TRANSISTOR 2SC2785
Q002	8-729-178-54	TRANSISTOR 2SC2785

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

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS

• MF : μ F, PF : μ μ F

RESISTORS

• All resistors are in ohms
• F : nonflammable

COILS

• MMH : mH, UH : μ H

FU-3 BOARD

MB-3 BOARD

RR-1A BOARD

Ref.No	Part No	Description	Remark
Q003	8-729-178-54	TRANSISTOR 2SC2785	
Q004	8-729-178-54	TRANSISTOR 2SC2785	
Q005	8-729-178-54	TRANSISTOR 2SC2785	
Q006	8-729-178-54	TRANSISTOR 2SC2785	
Q007	8-729-178-54	TRANSISTOR 2SC2785	
Q008	8-729-178-54	TRANSISTOR 2SC2785	
RESISTOR			
R001	1-246-776-00	CARBON 270	1/8W
R002	1-246-776-00	CARBON 270	1/8W
R003	1-246-773-00	CARBON 150	1/8W
R005	1-246-776-00	CARBON 270	1/8W
R006	1-246-795-00	CARBON 10K	1/8W
R007	1-246-795-00	CARBON 10K	1/8W
R008	1-246-795-00	CARBON 10K	1/8W
R015	1-246-773-00	CARBON 150	1/8W
R016	1-246-773-00	CARBON 150	1/8W
R018	1-246-776-00	CARBON 270	1/8W
R019	1-246-773-00	CARBON 150	1/8W
R020	1-246-773-00	CARBON 150	1/8W
SWITCH			
S001	1-553-766-00	SWITCH, KEY BOARD	
S002	1-553-766-00	SWITCH, KEY BOARD	
S003	1-553-766-00	SWITCH, KEY BOARD	
S004	1-553-766-00	SWITCH, KEY BOARD	
S005	1-553-766-00	SWITCH, KEY BOARD	
S006	1-553-766-00	SWITCH, KEY BOARD	
S007	1-553-766-00	SWITCH, KEY BOARD	
S008	1-553-766-00	SWITCH, KEY BOARD	
S009	1-553-766-00	SWITCH, KEY BOARD	
S010	1-553-766-00	SWITCH, KEY BOARD	
S011	1-553-766-00	SWITCH, KEY BOARD	
S012	1-553-766-00	SWITCH, KEY BOARD	
S013	1-553-766-00	SWITCH, KEY BOARD	
S014	1-553-766-00	SWITCH, KEY BOARD	
S016	1-553-766-00	SWITCH, KEY BOARD	
S017	1-553-766-00	SWITCH, KEY BOARD	
S018	1-553-766-00	SWITCH, KEY BOARD	
S019	1-553-766-00	SWITCH, KEY BOARD	
S020	1-553-766-00	SWITCH, KEY BOARD	
S021	1-553-766-00	SWITCH, KEY BOARD	
S022	1-553-766-00	SWITCH, KEY BOARD	
S023	1-553-766-00	SWITCH, KEY BOARD	

▲:1-606-231-00 MB-3 BOARD

CAPACITOR

C329	1-161-057-00	CERAMIC 0.033MF	10%	50V
C802	1-123-611-00	ELECT 1MF	20%	50V

NOTE:

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.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Ref.No	Part No	Description	Remark
DIODE			
D319	8-719-911-19	DIODE 1SS119	
TRANSISTOR			
Q803	8-729-117-54	TRANSISTOR 2SA1175	
RESISTOR			
R395	1-246-804-00	CARBON 56K	1/8W
R805	1-246-807-00	CARBON 100K	1/8W

▲:A-6717-236-A RR-1A BOARD, COMPLETE *****			
3-572-085-00 WASHER, FIBER			
▲:3-670-059-00 BRACKET (RIGHT), RR			
▲:3-670-060-00 BRACKET (LEFT), RR			
▲:3-671-850-00 CASE, SHIELD, RR-1			
3-701-822-00 HOLDER, WIRE			
CAPACITOR			
C001	1-123-613-00	ELECT 3.3MF	20% 50V
C002	1-161-021-00	CERAMIC 0.047MF	10% 25V
C003	1-102-973-00	CERAMIC 100PF	5% 50V
C101	1-161-021-00	CERAMIC 0.047MF	10% 25V
C103	1-102-111-00	CERAMIC 270PF	10% 50V
C104	1-102-824-00	CERAMIC 470PF	5% 50V
C201	1-161-021-00	CERAMIC 0.047MF	10% 25V
C202	1-102-824-00	CERAMIC 470PF	5% 50V
C203	1-102-111-00	CERAMIC 270PF	10% 50V
C205	1-123-617-00	ELECT 10MF	20% 16V
C206	1-123-821-00	ELECT 47MF	20% 16V
C207	1-161-039-00	CERAMIC 0.001MF	10% 25V
C208	1-161-039-00	CERAMIC 0.001MF	10% 25V
C209	1-102-112-00	CERAMIC 330PF	10% 50V
C301	1-123-839-00	ELECT 1000MF	20% 16V
C302	1-123-820-00	ELECT 33MF	20% 16V
C303	1-123-611-00	ELECT 1MF	20% 50V
CONNECTOR			
CN101▲:1-560-463-00 PIN, CONNECTOR 8P			
CN102▲:1-560-469-00 PIN, CONNECTOR 6P			
CN103▲:1-560-464-00 PIN, CONNECTOR 10P			
CN201▲:1-560-466-00 PIN, CONNECTOR 3P			
CN202▲:1-560-467-00 PIN, CONNECTOR 4P			
CN203▲:1-560-470-00 PIN, CONNECTOR 8P			
CN301▲:1-560-471-00 PIN, CONNECTOR 10P			
CN302▲:1-560-456-00 PIN, CONNECTOR 2P			
CN303▲:1-560-470-00 PIN, CONNECTOR 8P			
DIODE			
D001	8-719-911-19	DIODE 1SS119	

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

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS
• MF : μ F, PF : μ PF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, μ H : μ H

RR-1A BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
D102	8-719-911-19	DIODE 1SS119					
D201	8-719-100-30	DIODE RD5.1E-B2					
D301	8-719-911-19	DIODE 1SS119					
D302	8-719-911-19	DIODE 1SS119					
D305	8-719-200-02	DIODE 10E-2					
D306	8-719-200-02	DIODE 10E-2					
D307	8-719-200-02	DIODE 10E-2					
D308	8-719-200-02	DIODE 10E-2					
D309	8-719-200-02	DIODE 10E-2					
D310	8-719-200-02	DIODE 10E-2					
D311	8-719-200-02	DIODE 10E-2					
D312	8-719-200-02	DIODE 10E-2					
D313	8-719-200-02	DIODE 10E-2					
D314	8-719-200-02	DIODE 10E-2					
D315	8-719-200-02	DIODE 10E-2					
D316	8-719-200-02	DIODE 10E-2					
D317	8-719-911-19	DIODE 1SS119					
D318	8-719-911-19	DIODE 1SS119					
D319	8-719-200-02	DIODE 10E-2					
IC							
IC001	8-759-103-93	IC UPC393C					
IC101	8-759-115-18	IC UPD651G-518					
IC201	8-759-115-17	IC UPD651G-517					
TRANSISTOR							
Q101	8-729-178-54	TRANSISTOR 2SC2785		R001	1-246-799-00	CARBON 22K	1/8W
Q102	8-729-178-54	TRANSISTOR 2SC2785		R002	1-246-807-00	CARBON 100K	1/8W
Q103	8-729-178-54	TRANSISTOR 2SC2785		R003	1-246-795-00	CARBON 10K	1/8W
Q104	8-729-178-54	TRANSISTOR 2SC2785		R004	1-246-788-00	CARBON 2.7K	1/8W
Q105	8-729-178-54	TRANSISTOR 2SC2785		R005	1-246-795-00	CARBON 10K	1/8W
Q106	8-729-178-54	TRANSISTOR 2SC2785		R006	1-246-805-00	CARBON 68K	1/8W
Q108	8-729-178-54	TRANSISTOR 2SC2785		R101	1-246-854-00	CARBON 7.5K	1/8W
Q203	8-729-178-54	TRANSISTOR 2SC2785		R102	1-246-854-00	CARBON 7.5K	1/8W
Q204	8-729-178-54	TRANSISTOR 2SC2785		R103	1-246-854-00	CARBON 7.5K	1/8W
Q301	8-729-177-32	TRANSISTOR 2SD773		R104	1-246-854-00	CARBON 7.5K	1/8W
Q302	8-729-177-32	TRANSISTOR 2SD773		R105	1-246-854-00	CARBON 7.5K	1/8W
Q303	8-729-113-32	TRANSISTOR 2SB733		R106	1-246-854-00	CARBON 7.5K	1/8W
Q304	8-729-113-32	TRANSISTOR 2SB733		R114	1-247-049-00	CARBON 470K	1/8W
Q305	8-729-177-32	TRANSISTOR 2SD773		R115	1-246-795-00	CARBON 10K	1/8W
Q306	8-729-177-32	TRANSISTOR 2SD773		R118	1-246-795-00	CARBON 10K	1/8W
Q307	8-729-113-32	TRANSISTOR 2SB733		R119	1-246-807-00	CARBON 100K	1/8W
Q308	8-729-113-32	TRANSISTOR 2SB733		R120	1-246-807-00	CARBON 100K	1/8W
Q309	8-729-116-42	TRANSISTOR 2SD1164		R130	1-246-773-00	CARBON 150	1/8W
Q310	8-729-116-42	TRANSISTOR 2SD1164		R131	1-246-773-00	CARBON 150	1/8W
Q311	8-729-116-42	TRANSISTOR 2SD1164		R132	1-246-773-00	CARBON 150	1/8W
Q312	8-729-116-42	TRANSISTOR 2SD1164		R133	1-246-773-00	CARBON 150	1/8W
Q313	8-729-178-54	TRANSISTOR 2SC2785		R134	1-246-773-00	CARBON 150	1/8W
Q314	8-729-178-54	TRANSISTOR 2SC2785		R135	1-246-773-00	CARBON 150	1/8W
Q315	8-729-178-54	TRANSISTOR 2SC2785		R201	1-246-781-00	CARBON 680	1/8W
Q316	8-729-178-54	TRANSISTOR 2SC2785		R203	1-246-805-00	CARBON 68K	1/8W
Q332	8-729-117-54	TRANSISTOR 2SA1175		R204	1-246-795-00	CARBON 10K	1/8W
				R205	1-247-049-00	CARBON 470K	1/8W
				R208	1-246-799-00	CARBON 22K	1/8W
				R209	1-246-795-00	CARBON 10K	1/8W
				R211	1-246-795-00	CARBON 10K	1/8W
				R212	1-246-795-00	CARBON 10K	1/8W
				R213	1-246-795-00	CARBON 10K	1/8W
				R214	1-246-795-00	CARBON 10K	1/8W
				R215	1-246-795-00	CARBON 10K	1/8W
				R216	1-246-795-00	CARBON 10K	1/8W
				R217	1-246-795-00	CARBON 10K	1/8W
				R218	1-246-807-00	CARBON 100K	1/8W
				R219	1-246-795-00	CARBON 10K	1/8W
				R220	1-246-795-00	CARBON 10K	1/8W
				R223	1-246-795-00	CARBON 10K	1/8W
				R224	1-246-795-00	CARBON 10K	1/8W
				R225	1-246-807-00	CARBON 100K	1/8W
				R226	1-246-795-00	CARBON 10K	1/8W
				R227	1-246-789-00	CARBON 3.3K	1/8W
				R228	1-246-780-00	CARBON 560	1/8W
				R229	1-246-795-00	CARBON 10K	1/8W
				R230	1-246-783-00	CARBON 1K	1/8W
				R231	1-246-783-00	CARBON 1K	1/8W
				R232	1-246-807-00	CARBON 100K	1/8W
				R234	1-246-795-00	CARBON 10K	1/8W
				R235	1-246-776-00	CARBON 270	1/8W

NOTE:

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

Les composants identifiés par une trame et une marque **A** 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, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
 MF : μF , PF : μF

RESISTORS
 All resistors are in ohms
 F : nonflammable

COILS
 MMH : mH, UH : μH

RR-1A BOARD

TU-22 BOARD

TU-21 BOARD

Ref.No	Part No	Description	Remark
R236	1-246-803-00	CARBON 47K	1/8W
R240	1-246-787-00	CARBON 2.2K	1/8W
R301	1-246-783-00	CARBON 1K	1/8W
R302	1-246-783-00	CARBON 1K	1/8W
R303	1-246-789-00	CARBON 3.3K	1/8W
R304	1-246-789-00	CARBON 3.3K	1/8W
R305	1-246-843-00	CARBON 910	1/8W
R306	1-246-843-00	CARBON 910	1/8W
R307	1-246-783-00	CARBON 1K	1/8W
R308	1-246-783-00	CARBON 1K	1/8W
R309	1-246-789-00	CARBON 3.3K	1/8W
R310	1-246-789-00	CARBON 3.3K	1/8W
R311	1-246-843-00	CARBON 910	1/8W
R312	1-246-843-00	CARBON 910	1/8W
R313	1-246-783-00	CARBON 1K	1/8W
R314	1-246-783-00	CARBON 1K	1/8W
R315	1-246-783-00	CARBON 1K	1/8W
R316	1-246-783-00	CARBON 1K	1/8W
R317	1-246-789-00	CARBON 3.3K	1/8W
R320	1-246-787-00	CARBON 2.2K	1/8W
R321	1-246-807-00	CARBON 100K	1/8W
R322	1-246-807-00	CARBON 100K	1/8W
R323	1-246-787-00	CARBON 2.2K	1/8W
R324	1-246-787-00	CARBON 2.2K	1/8W
R325	1-246-807-00	CARBON 100K	1/8W
R326	1-246-807-00	CARBON 100K	1/8W
R327	1-246-787-00	CARBON 2.2K	1/8W
R328	1-246-793-00	CARBON 6.8K	1/8W
R329	1-246-791-00	CARBON 4.7K	1/8W
R330	1-246-791-00	CARBON 4.7K	1/8W
R331	1-246-791-00	CARBON 4.7K	1/8W
R332	1-246-797-00	CARBON 15K	1/8W
R333	1-247-587-00	CARBON 0.47 5%	1/4W
R334	1-246-795-00	CARBON 10K	1/8W
R335	1-206-640-00	METAL 100 5%	2W F
R336	1-206-640-00	METAL 100 5%	2W F
R337	1-246-794-00	CARBON 8.2K	1/8W

CRYSTAL

X101	1-527-532-31	OSCILLATOR, CERAMIC
X201	1-527-532-31	OSCILLATOR, CERAMIC

◆:1-605-575-00 TU-22 BOARD

◆:A-6721-086-A TU-21 BOARD, COMPLETE

◆:1-555-716-00 CABLE, PIN
1-555-798-00 CORD (WITH DC PLUG)
◆:3-671-841-00 CASE (1) (MAIN), SHIELD, TU

NOTE:

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

Les composants identifiés par une trame et une marque **A** 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, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "◆" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ PF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

TU-21 BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C203	1-161-059-00	CERAMIC 0.047MF 10%	50V	D202	8-719-911-19	DIODE 1SS119	
C204	1-123-379-00	ELECT 0.47MF 20%	50V	D203	8-719-911-19	DIODE 1SS119	
C205	1-102-973-00	CERAMIC 100PF 5%	50V	D204	8-719-911-19	DIODE 1SS119	
C206	1-108-555-00	MYLAR 0.001MF 5%	50V	D205	8-719-911-19	DIODE 1SS119	
C207	1-108-555-00	MYLAR 0.001MF 5%	50V	D206	8-719-911-19	DIODE 1SS119	
C208	1-108-559-00	MYLAR 0.0015MF 5%	50V	D207	8-719-911-19	DIODE 1SS119	
C209	1-123-381-00	ELECT 2.2MF 20%	50V	D210	8-719-911-19	DIODE 1SS119	
C210	1-102-973-00	CERAMIC 100PF 5%	50V	D211	8-719-911-19	DIODE 1SS119	
C211	1-102-959-00	CERAMIC 22PF 5%	50V	D212	8-719-911-19	DIODE 1SS119	
C212	1-130-499-51	MYLAR 0.22MF 5%	50V	D213	8-719-911-19	DIODE 1SS119	
C214	1-130-489-51	MYLAR 0.033MF 5%	50V	D214	8-719-911-19	DIODE 1SS119	
C217	1-130-483-51	MYLAR 0.01MF 5%	50V	D215	8-719-911-19	DIODE 1SS119	
C219	1-123-321-00	ELECT 220MF 20%	16V	D421	8-719-305-15	DIODE GH-3F	
C221	1-102-973-00	CERAMIC 100PF 5%	50V	D422	8-719-305-15	DIODE GH-3F	
C421	1-101-004-00	CERAMIC 0.01MF 50V		D423	8-719-305-15	DIODE GH-3F	
C422	1-123-252-00	ELECT 1MF 160V		D424	8-719-124-07	DIODE RD24E-8	
C423	1-123-383-00	ELECT 4.7MF 20%	100V	D425	8-719-911-19	DIODE 1SS119	
C424	1-123-369-00	ELECT 4.7MF 20%	50V	D426	8-719-911-19	DIODE 1SS119	
C425	1-106-367-00	MYLAR 0.01MF 5%	200V	D501	8-719-911-19	DIODE 1SS119	
C426	1-123-622-00	ELECT 22MF 20%	16V	D502	8-719-911-19	DIODE 1SS119	
C427	1-161-059-00	CERAMIC 0.047MF 10%	50V	D503	8-719-911-19	DIODE 1SS119	
C428	1-161-059-00	CERAMIC 0.047MF 10%	50V	D504	8-719-911-19	DIODE 1SS119	
C429	1-123-622-00	ELECT 22MF 20%	16V	D505	8-719-911-19	DIODE 1SS119	
<u>FILTER</u>				D506	8-719-911-19	DIODE 1SS119	
CF101	1-409-332-00	CERAMIC TRAP (4.5MHZ)		D507	8-719-911-19	DIODE 1SS119	
CF102	1-527-260-00	FILTER, CERAMIC (4.5MHZ)		D508	8-719-911-19	DIODE 1SS119	
CF103	1-409-332-00	CERAMIC TRAP (4.5MHZ)		D509	8-719-911-19	DIODE 1SS119	
<u>CONNECTOR</u>				D510	8-719-911-19	DIODE 1SS119	
CN001♣	1-560-469-00	PIN, CONNECTOR 6P		D511	8-719-911-19	DIODE 1SS119	
CN002♣	1-560-468-00	PIN, CONNECTOR 5P		D512	8-719-911-19	DIODE 1SS119	
CN004♣	1-560-467-00	PIN, CONNECTOR 4P		D513	8-719-911-19	DIODE 1SS119	
CN005♣	1-560-470-00	PIN, CONNECTOR 8P		D514	8-719-911-19	DIODE 1SS119	
CN006♣	1-560-467-00	PIN, CONNECTOR 4P		<u>IC</u>			
CN007♣	1-560-467-00	PIN, CONNECTOR 4P		IC101	8-758-851-00	IC CX-885A	
CN008♣	1-560-467-00	PIN, CONNECTOR 4P		IC201♣	8-757-605-00	IC CX-760E	
CN009♣	1-560-472-00	PIN, CONNECTOR 12P		IC202	8-757-611-00	IC CX-761A	
CN010♣	1-560-468-00	PIN, CONNECTOR 5P		IC203	8-758-040-00	IC CX-804	
CN012♣	1-560-470-00	PIN, CONNECTOR 8P		IC204	8-759-157-40	IC UPC574J	
CN013♣	1-560-468-00	PIN, CONNECTOR 5P		IC501	8-759-240-71	IC TC4071BP	
<u>COMPOSITION CIRCUIT BLOCK</u>				IC502	8-759-240-71	IC TC4071BP	
CP201	1-232-154-00	COMPOSITION CIRCUIT BLOCK		<u>COIL</u>			
CP501	1-232-160-00	COMPOSITION CIRCUIT BLOCK		L101	1-408-408-00	MICRO INDUCTOR 8.2UH	
CP502	1-232-160-00	COMPOSITION CIRCUIT BLOCK		L102	1-408-411-00	MICRO INDUCTOR 15UH	
CP503	1-232-161-00	COMPOSITION CIRCUIT BLOCK		L103	1-408-399-00	MICRO INDUCTOR 1.5UH	
<u>DIODE</u>				L104	1-408-403-00	MICRO INDUCTOR 3.3UH	
D101	8-719-911-19	DIODE 1SS119		L105	1-408-414-00	MICRO INDUCTOR 27UH	
D102	8-719-911-19	DIODE 1SS119		L106	1-408-420-00	MICRO INDUCTOR 82UH	
D103	8-719-911-19	DIODE 1SS119		L108	1-408-410-00	MICRO INDUCTOR 12UH	
D201	8-719-911-19	DIODE 1SS119		L109	1-407-510-00	MICRO INDUCTOR 33MMH	
				L110	1-408-421-00	MICRO INDUCTOR 100UH	
				L201	1-408-421-00	MICRO INDUCTOR 100UH	

NOTE:

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.

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

• ->: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ PF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

TU-21 BOARD

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
L421	1-408-421-00	MICRO INDUCTOR 100UH		R112	1-246-782-00	CARBON	820 1/8W
		<u>CONNECTOR</u>		R113	1-247-047-00	CARBON	330K 1/8W
PJ101	1-526-575-00	SOCKET, PLUG		R114	1-246-777-00	CARBON	330 1/8W
PJ102	1-526-575-00	SOCKET, PLUG		R115	1-246-850-00	CARBON	3.6K 1/8W
		<u>TRANSISTOR</u>		R116	1-246-850-00	CARBON	3.6K 1/8W
Q053	8-729-178-54	TRANSISTOR 2SC2785		R119	1-246-778-00	CARBON	390 1/8W
Q101	8-729-178-54	TRANSISTOR 2SC2785		R121	1-246-776-00	CARBON	270 1/8W
Q103	8-729-178-54	TRANSISTOR 2SC2785		R122	1-246-807-00	CARBON	100K 1/8W
Q104	8-729-178-54	TRANSISTOR 2SC2785		R123	1-246-786-00	CARBON	1.8K 1/8W
Q105	8-729-117-54	TRANSISTOR 2SA1175		R124	1-246-776-00	CARBON	270 1/8W
Q106	8-729-117-54	TRANSISTOR 2SA1175		R125	1-246-852-00	CARBON	5.1K 1/8W
Q151	8-729-178-54	TRANSISTOR 2SC2785		R126	1-246-795-00	CARBON	10K 1/8W
Q201	8-729-178-54	TRANSISTOR 2SC2785		R127	1-246-787-00	CARBON	2.2K 1/8W
Q202	8-729-178-54	TRANSISTOR 2SC2785		R128	1-246-789-00	CARBON	3.3K 1/8W
Q203	8-729-178-54	TRANSISTOR 2SC2785		R129	1-247-107-00	CARBON	100 5% 1/4W F
Q204	8-729-178-54	TRANSISTOR 2SC2785		R130	1-246-783-00	CARBON	1K 1/8W
Q205	8-729-178-54	TRANSISTOR 2SC2785		R131	1-246-786-00	CARBON	1.8K 1/8W
Q206	8-729-178-54	TRANSISTOR 2SC2785		R132	1-246-791-00	CARBON	4.7K 1/8W
Q207	8-729-178-54	TRANSISTOR 2SC2785		R133	1-246-779-00	CARBON	470 1/8W
Q208	8-729-139-04	TRANSISTOR 2N3904		R134	1-246-807-00	CARBON	100K 1/8W
Q209	8-724-375-01	TRANSISTOR 2SC403C		R135	1-246-777-00	CARBON	330 1/8W
Q213	8-729-117-54	TRANSISTOR 2SA1175		R151	1-246-807-00	CARBON	100K 1/8W
Q214	8-729-117-54	TRANSISTOR 2SA1175		R153	1-246-799-00	CARBON	22K 1/8W
Q215	8-729-117-54	TRANSISTOR 2SA1175		R154	1-247-082-00	CARBON	8.2 5% 1/4W F
Q216	8-729-178-54	TRANSISTOR 2SC2785		R201	1-246-783-00	CARBON	1K 1/8W
Q401	8-729-178-54	TRANSISTOR 2SC2785		R203	1-246-803-00	CARBON	47K 1/8W
Q402	8-729-117-54	TRANSISTOR 2SA1175		R204	1-246-796-00	CARBON	12K 1/8W
Q403	8-729-178-54	TRANSISTOR 2SC2785		R205	1-246-801-00	CARBON	33K 1/8W
Q405	8-729-178-54	TRANSISTOR 2SC2785		R206	1-246-803-00	CARBON	47K 1/8W
Q406	8-729-117-54	TRANSISTOR 2SA1175		R207	1-246-806-00	CARBON	82K 1/8W
Q421	8-729-177-43	TRANSISTOR 2SD774		R208	1-246-795-00	CARBON	10K 1/8W
Q422	8-729-194-12	TRANSISTOR 2SC1941		R209	1-246-799-00	CARBON	22K 1/8W
Q501	8-729-178-54	TRANSISTOR 2SC2785		R210	1-246-795-00	CARBON	10K 1/8W
Q502	8-729-117-54	TRANSISTOR 2SA1175		R211	1-246-795-00	CARBON	10K 1/8W
		<u>RESISTOR</u>		R212	1-246-859-00	CARBON	20K 1/8W
R060	1-246-789-00	CARBON	3.3K 1/8W	R213	1-246-795-00	CARBON	10K 1/8W
R061	1-246-783-00	CARBON	1K 1/8W	R214	1-246-795-00	CARBON	10K 1/8W
R062	1-246-848-00	CARBON	2.4K 1/8W	R215	1-246-859-00	CARBON	20K 1/8W
R063	1-246-791-00	CARBON	4.7K 1/8W	R216	1-246-795-00	CARBON	10K 1/8W
R101	1-246-787-00	CARBON	2.2K 1/8W	R217	1-246-795-00	CARBON	10K 1/8W
R102	1-246-790-00	CARBON	3.9K 1/8W	R218	1-246-811-00	CARBON	220K 1/8W
R103	1-246-787-00	CARBON	2.2K 1/8W	R219	1-246-795-00	CARBON	10K 1/8W
R104	1-246-800-00	CARBON	27K 1/8W	R220	1-246-795-00	CARBON	10K 1/8W
R105	1-246-785-00	CARBON	1.5K 1/8W	R221	1-244-885-00	CARBON	3.3K 5% 1/2W
R106	1-246-790-00	CARBON	3.9K 1/8W	R222	1-246-795-00	CARBON	10K 1/8W
R107	1-246-789-00	CARBON	3.3K 1/8W	R223	1-246-801-00	CARBON	33K 1/8W
R108	1-246-783-00	CARBON	1K 1/8W	R224	1-246-806-00	CARBON	82K 1/8W
R109	1-246-804-00	CARBON	56K 1/8W	R225	1-246-783-00	CARBON	1K 1/8W
R110	1-246-807-00	CARBON	100K 1/8W	R226	1-246-807-00	CARBON	100K 1/8W
R111	1-246-802-00	CARBON	39K 1/8W	R227	1-246-811-00	CARBON	220K 1/8W
				R228	1-244-873-00	CARBON	1K 5% 1/2W
				R229	1-246-795-00	CARBON	10K 1/8W
				R230	1-247-047-00	CARBON	330K 1/8W

NOTE:

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

* ->: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
 * MF : μ F, PF : $\mu\mu$ F

RESISTORS
 * All resistors are in ohms
 * F : nonflammable

COILS
 * MH : mH, UH : μ H

TU-21 BOARD

SW-12 BOARD

Ref.No	Part No	Description		Remark
R231	1-246-801-00	CARBON	33K	1/8W
R232	1-246-777-00	CARBON	330	1/8W
R233	1-246-783-00	CARBON	1K	1/8W
R234	1-246-799-00	CARBON	22K	1/8W
R235	1-246-795-00	CARBON	10K	1/8W
R236	1-246-795-00	CARBON	10K	1/8W
R237	1-246-807-00	CARBON	100K	1/8W
R238	1-246-795-00	CARBON	10K	1/8W
R239	1-246-795-00	CARBON	10K	1/8W
R241	1-246-798-00	CARBON	18K	1/8W
R242	1-246-788-00	CARBON	2.7K	1/8W
R243	1-246-475-00	CARBON	1.2K 5%	1/4W
R244	1-246-801-00	CARBON	33K	1/8W
R245	1-202-667-00	COMPOSITION	8.2M 5%	1/2W
R247	1-246-805-00	CARBON	68K	1/8W
R249	1-246-521-00	CARBON	100K 5%	1/4W
R259	1-246-807-00	CARBON	100K	1/8W
R260	1-246-807-00	CARBON	100K	1/8W
R261	1-246-799-00	CARBON	22K	1/8W
R262	1-246-787-00	CARBON	2.2K	1/8W
R263	1-246-799-00	CARBON	22K	1/8W
R264	1-246-787-00	CARBON	2.2K	1/8W
R265	1-246-799-00	CARBON	22K	1/8W
R267	1-246-807-00	CARBON	100K	1/8W
R269	1-246-787-00	CARBON	2.2K	1/8W
R275	1-246-795-00	CARBON	10K	1/8W
R276	1-246-789-00	CARBON	3.3K	1/8W
R277	1-246-794-00	CARBON	8.2K 5%	1/8W
R277	1-247-053-00	CARBON	1M	1/8W
R278	1-246-805-00	CARBON	68K	1/8W
R401	1-246-852-00	CARBON	5.1K	1/8W
R402	1-246-795-00	CARBON	10K	1/8W
R407	1-246-795-00	CARBON	10K	1/8W
R408	1-246-795-00	CARBON	10K	1/8W
R421	1-246-783-00	CARBON	1K	1/8W
R422	1-246-775-00	CARBON	220	1/8W
R423	1-244-909-00	CARBON	33K 5%	1/2W
R424	1-244-905-00	CARBON	22K 5%	1/2W
R425	1-246-795-00	CARBON	10K	1/8W
R426	1-246-795-00	CARBON	10K	1/8W
R427	1-246-787-00	CARBON	2.2K	1/8W
R428	1-246-801-00	CARBON	33K	1/8W
R429	1-247-047-00	CARBON	330K 5%	1/8W
R491	1-212-850-00	FUSIBLE	5.1 5%	1/4W F
R501	1-246-803-00	CARBON	47K	1/8W
R502	1-246-803-00	CARBON	47K	1/8W
R503	1-246-795-00	CARBON	10K	1/8W
R504	1-246-801-00	CARBON	33K	1/8W
R505	1-246-803-00	CARBON	47K	1/8W
R506	1-246-803-00	CARBON	47K	1/8W
R507	1-246-788-00	CARBON	2.7K	1/8W

Ref.No	Part No	Description	Remark
<u>RF UNIT</u>			
RF101	1-464-151-00	UNIT, COLOR RF (RF-7W(M))	
<u>VARIABLE RESISTOR</u>			
RV101	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K	
RV102	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K	
<u>FILTER</u>			
SF101	1-404-227-41	SAWF	
<u>TRANSFORMER</u>			
T101	1-404-153-00	VIFT	
T102	1-404-321-00	VIFT	
T103	1-404-352-00	COIL, VIF	
T104	1-404-318-00	SIFT	
T105	1-404-352-00	COIL, VIF	
T201	1-409-193-00	COIL 3.58MHZ TRAP	
T421	1-421-436-00	TRANSFORMER, FERRITE	
<u>THERMISTOR</u>			
TH101	1-800-626-00	THERMISTOR	
<u>TUNER</u>			
TU101	1-463-377-00	TUNER (BT-864)	

	▲:1-605-410-00	SW-12 BOARD	*****
	3-701-822-00	HOLDER, WIRE	
<u>DIODE</u>			
D501	8-719-911-06	DIODE 1SS106	
D502	8-719-911-06	DIODE 1SS106	
D503	8-719-911-06	DIODE 1SS106	
D504	8-719-168-07	DIODE RD6.8E-B	
D505	8-719-168-07	DIODE RD6.8E-B	
<u>VARIABLE RESISTOR</u>			
RV501	1-228-244-00	RES, VAR, SOLID 100K	
RV502	1-228-359-00	RES, VAR, SOLID 5K	
<u>SWITCH</u>			
S501	1-553-766-00	SWITCH, KEY BOARD	
S502	1-553-766-00	SWITCH, KEY BOARD	
S503	1-553-716-00	SWITCH, SLIDE	
S504	1-553-754-00	SWITCH, SLIDE	

NOTE:

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• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

CH-22 BOARD

CH-21 BOARD

CI-3 BOARD

CI-2 BOARD

RL-4 BOARD

LM-9 BOARD

LM-8 BOARD

Ref.No	Part No	Description	Remark
	A-6728-243-A	LM-8 BOARD, COMPLETE *****	
<u>CAPACITOR</u>			
C101	1-161-057-00	CERAMIC 0.033MF	10% 50V
C102	1-161-057-00	CERAMIC 0.033MF	10% 50V
<u>COIL</u>			
L101	1-408-120-00	MICRO INDUCTOR 18UH	
L102	1-408-120-00	MICRO INDUCTOR 18UH	

	1-605-109-00	LM-9 BOARD *****	
<u>CAPACITOR</u>			
C001	1-161-057-00	CERAMIC 0.033MF	10% 50V
C002	1-161-057-00	CERAMIC 0.033MF	10% 50V
<u>DIODE</u>			
D001	8-719-911-06	DIODE 1SS106	
D002	8-719-911-06	DIODE 1SS106	
D003	8-719-911-06	DIODE 1SS106	
<u>COIL</u>			
L001	1-407-696-00	MICRO INDUCTOR 18UH	
L002	1-407-696-00	MICRO INDUCTOR 18UH	
<u>SWITCH</u>			
S001	1-552-664-00	SWITCH, MICRO	

	◆:1-605-110-00	RL-4 BOARD *****	

	A-6728-248-A	CI-2 BOARD, COMPLETE *****	
	1-553-719-00	SWITCH, MICRO	
	◆:3-670-039-00	HOLDER (R), CSW	

	A-6728-249-A	CI-3 BOARD, COMPLETE *****	
	1-553-719-00	SWITCH, MICRO	
	◆:3-670-038-00	HOLDER (L), CSW	

Ref.No	Part No	Description	Remark
	1-605-581-00	CH-21 BOARD *****	
	◆:3-662-227-00	HOLDER (R-3), LED	
<u>CAPACITOR</u>			
C701	1-161-021-00	CERAMIC 0.047MF	10% 25V

<u>DIODE</u>			
D751	8-719-812-31	DIODE TLR123	
D752	8-719-812-32	DIODE TLY123	
D753	8-719-812-33	DIODE TLGL23	
D754	8-719-911-19	DIODE 1SS119	
D755	8-719-812-31	DIODE TLR123	
D756	8-719-812-31	DIODE TLR123	
D757	8-719-812-31	DIODE TLR123	
D758	8-719-812-31	DIODE TLR123	
D759	8-719-812-31	DIODE TLR123	

<u>IC</u>			
IC701	8-759-619-03	IC M51903L	

<u>RESISTOR</u>			
R752	1-246-782-00	CARBON 820	1/8W
R753	1-246-783-00	CARBON 1K	1/8W
R754	1-246-795-00	CARBON 10K	1/8W
R755	1-246-787-00	CARBON 2.2K	1/8W
R756	1-246-787-00	CARBON 2.2K	1/8W
R757	1-246-787-00	CARBON 2.2K	1/8W
R758	1-246-787-00	CARBON 2.2K	1/8W
R759	1-246-787-00	CARBON 2.2K	1/8W

<u>SWITCH</u>			
S751	1-553-766-00	SWITCH, KEY BOARD	
S752	1-553-766-00	SWITCH, KEY BOARD	
S753	1-553-766-00	SWITCH, KEY BOARD	
S754	1-553-716-00	SWITCH, SLIDE	
S755	1-553-716-00	SWITCH, SLIDE	

	1-605-895-00	CH-22 BOARD *****	
<u>NEON LAMP</u>			
NL701	1-519-204-00	LAMP, NEON	
NL702	1-519-204-00	LAMP, NEON	
NL703	1-519-204-00	LAMP, NEON	
NL704	1-519-204-00	LAMP, NEON	
NL705	1-519-204-00	LAMP, NEON	
NL706	1-519-204-00	LAMP, NEON	
NL707	1-519-204-00	LAMP, NEON	
NL708	1-519-204-00	LAMP, NEON	
NL709	1-519-204-00	LAMP, NEON	

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CAPACITORS
• MF : μ F, PF : μ μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MH : mH, μ H : μ H

CH-22 BOARD

RL-7 BOARD

N BOARD

TIMER BLOCK

Ref.No	Part No	Description	Remark
NL710	1-519-204-00	LAMP, NEON	
NL711	1-519-204-00	LAMP, NEON	
NL712	1-519-204-00	LAMP, NEON	
NL713	1-519-204-00	LAMP, NEON	
NL714	1-519-204-00	LAMP, NEON	
<u>SWITCH</u>			
S701	1-553-766-00	SWITCH, KEY BOARD	
S702	1-553-766-00	SWITCH, KEY BOARD	
S703	1-553-766-00	SWITCH, KEY BOARD	
S704	1-553-766-00	SWITCH, KEY BOARD	
S705	1-553-766-00	SWITCH, KEY BOARD	
S706	1-553-766-00	SWITCH, KEY BOARD	
S707	1-553-766-00	SWITCH, KEY BOARD	
S708	1-553-766-00	SWITCH, KEY BOARD	
S709	1-553-766-00	SWITCH, KEY BOARD	
S710	1-553-766-00	SWITCH, KEY BOARD	
S711	1-553-766-00	SWITCH, KEY BOARD	
S712	1-553-766-00	SWITCH, KEY BOARD	
S713	1-553-766-00	SWITCH, KEY BOARD	
S714	1-553-766-00	SWITCH, KEY BOARD	

▲:1-606-001-00 RL-7 BOARD

▲:3-670-167-00 INSULATOR

CONNECTOR

CN001▲:1-560-472-00 PIN, CONNECTOR 12P
CN002▲:1-560-470-00 PIN, CONNECTOR 8P

DIODE

D201 8-719-911-06 DIODE 1SS106
D202 8-719-911-06 DIODE 1SS106
D203 8-719-911-06 DIODE 1SS106

1-603-976-00 N BOARD

1-232-004-00 COMPOSITION CIRCUIT BLOCK
▲:4-348-551-00 PLATE, SHIELD

CAPACITOR

Part No	Description	Value	Tolerance	Voltage
C001	1-123-617-00	ELECT	10MF	20% 16V
C002	1-123-617-00	ELECT	10MF	20% 16V
C003	1-123-617-00	ELECT	10MF	20% 16V
C004	1-161-019-00	CERAMIC	0.033MF	10% 25V
C005	1-108-567-00	MYLAR	0.0033MF	5% 50V

DIODE

D001 →8-719-110-32 DIODE PH302B

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• MF : μ F, PF : μ μ F

RESISTORS
• All resistors are in ohms
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COILS
• MH : mH, μ H : μ H

Ref.No	Part No	Description	Remark
<u>IC</u>			
IC001	8-759-113-73	IC UPC1373H	
<u>COIL</u>			
L001	1-404-310-00	COIL	

	1-548-552-00	TIMER BLOCK	*****
	9-982-255-00	FLOURECENT DISPLAY	
<u>CAPACITOR</u>			
C1	1-123-333-00	ELECT	100MF 20% 25V
C2	1-101-006-00	CERAMIC	0.047MF 7% 50V
C3	1-102-074-00	CERAMIC	0.001MF 10% 50V
C4	1-123-359-00	ELECT	47MF 20% 50V
C5	1-102-074-00	CERAMIC	0.001MF 10% 50V
C6	1-123-306-00	ELECT	47MF 20% 10V
C7	1-123-381-00	ELECT	2.2MF 20% 100V
C8	1-102-121-00	CERAMIC	0.0022MF 10% 50V
C9	1-123-306-00	ELECT	47MF 20% 10V
C10	1-123-382-00	ELECT	3.3MF 20% 100V
C11	1-102-508-00	CERAMIC	10PF 5% 50V
C12	9-982-056-00	TRIMMER	4PF TO 23PF
C13	1-123-382-00	ELECT	3.3MF 20% 50V
C15	1-102-129-00	CERAMIC	0.01MF 10% 50V
C16	1-102-038-00	CERAMIC	0.001MF 500V
C17	1-101-006-00	CERAMIC	0.047MF 7% 50V
C18	1-102-038-00	CERAMIC	0.001MF 500V
<u>COMPOSITION CIRCUIT BLOCK</u>			
CP1	9-982-069-00	COMPOSITION CIRCUIT BLOCK 220Kx4	
<u>DIODE</u>			
D1	8-719-911-19	DIODE 1SS119	
D2	8-719-100-29	DIODE RD5.1EB1	
D3	8-719-106-07	DIODE RD36E-B	
D4	8-719-911-19	DIODE 1SS119	
D5	8-719-100-29	DIODE RD5.1EB1	
D6	8-719-911-19	DIODE 1SS119	
D7	8-719-911-19	DIODE 1SS119	
D8	8-719-100-31	DIODE RD5.1EB3	
D9	8-719-911-19	DIODE 1SS119	
D10	8-719-100-22	DIODE R04.3EB1	
D11	9-982-258-00	DIODE TLS-123	
D12	8-719-911-19	DIODE 1SS119	
D13	8-719-911-19	DIODE 1SS119	
D15	8-719-911-19	DIODE 1SS119	
D16	8-719-911-19	DIODE 1SS119	
D17	8-719-911-19	DIODE 1SS119	

POWER BLOCK

TIMER BLOCK

Ref.No	Part No	Description	Remark
D18	8-719-911-19	DIODE 1SS119	
D19	8-719-911-19	DIODE 1SS119	
D20	8-719-911-19	DIODE 1SS119	
D21	8-719-911-19	DIODE 1SS119	
D22	8-719-911-19	DIODE 1SS119	
D23	8-719-911-19	DIODE 1SS119	
<u>IC</u>			
IC1	9-982-051-00	IC MSL915RS	
IC2	9-982-051-00	IC MSL915RS	
IC3	9-982-051-00	IC MSL915RS	
IC4	9-982-071-00	IC MB8845-495M	
<u>COIL</u>			
L1	9-982-059-00	MICRO INDUCTOR 100UH	
<u>TRANSISTOR</u>			
Q1	8-764-803-00	TRANSISTOR 2SC1816-3	
Q2	8-763-314-00	TRANSISTOR 2SC1760-14	
Q3	8-763-314-00	TRANSISTOR 2SC1760-14	
Q4	8-729-853-63	TRANSISTOR 2SC536SP	
Q5	8-729-853-63	TRANSISTOR 2SC536SP	
Q6	8-729-853-63	TRANSISTOR 2SC536SP	
Q7	8-729-853-63	TRANSISTOR 2SC536SP	
Q8	8-729-853-63	TRANSISTOR 2SC536SP	
Q9	8-729-853-63	TRANSISTOR 2SC536SP	
<u>RESISTOR</u>			
R1	1-246-485-00	CARBON 3.3K 5% 1/4W	
R2	1-246-449-00	CARBON 100 5% 1/4W	
R3	1-246-489-00	CARBON 4.7K 5% 1/4W	
R4	1-246-469-00	CARBON 680 5% 1/4W	
R5	1-246-473-00	CARBON 1K 5% 1/4W	
R6	1-246-453-00	CARBON 150 5% 1/4W	
R7	1-246-433-00	CARBON 22 5% 1/4W	
R8	1-246-473-00	CARBON 1K 5% 1/4W	
R9	1-246-513-00	CARBON 47K 5% 1/4W	
R10	1-246-513-00	CARBON 47K 5% 1/4W	
R11	1-246-459-00	CARBON 270 5% 1/4W	
R12	1-246-465-00	CARBON 470 5% 1/4W	
R13	1-246-521-00	CARBON 100K 5% 1/4W	
R14	1-246-521-00	CARBON 100K 5% 1/4W	
R15	1-246-482-00	CARBON 2.4K 5% 1/4W	
R16	9-982-057-00	SOLID 10M 5% 1/4W	
R17	1-246-513-00	CARBON 47K 5% 1/4W	
R18	1-246-481-00	CARBON 2.2K 5% 1/4W	
R19	1-246-451-00	CARBON 120 5% 1/4W	
R20	1-246-513-00	CARBON 47K 5% 1/4W	
R21	1-246-513-00	CARBON 47K 5% 1/4W	
R22	1-246-485-00	CARBON 3.3K 5% 1/4W	
R23	1-246-485-00	CARBON 3.3K 5% 1/4W	
R24	1-212-849-00	FUSIBLE 4.7 5% 1/4W F	

Ref.No	Part No	Description	Remark
<u>SWITCH</u>			
S1	1-553-766-00	SWITCH, KEY BOARD	
S2	1-553-766-00	SWITCH, KEY BOARD	
S3	1-553-766-00	SWITCH, KEY BOARD	
S4	1-553-766-00	SWITCH, KEY BOARD	
S5	1-553-766-00	SWITCH, KEY BOARD	
S6	1-553-766-00	SWITCH, KEY BOARD	
S7	1-553-716-00	SWITCH, SLIDE	
S8	1-553-716-00	SWITCH, SLIDE	
<u>TRANSFORMER</u>			
T1	9-982-073-00	TRANSFORMER, CONVERTER	
T2	9-982-074-00	TRANSFORMER, CONVERTER	

▲.1-413-081-11 POWER BLOCK (SR-11A) (Type 1)			

▲.1-551-964-00 CORD, POWER			
▲.1-561-347-00 SOCKET, AC			
<u>CAPACITOR</u>			
C1	▲.1-130-680-00	POLYPRO 0.1MF 20% 125V	
C2	▲.1-130-680-00	POLYPRO 0.1MF 20% 125V	
C3	▲.1-161-747-00	CERAMIC 0.0022MF 20% 125V	
C4	▲.1-161-747-00	CERAMIC 0.0022MF 20% 125V	
C5	▲.1-161-747-00	CERAMIC 0.0022MF 20% 125V	
C6	▲.1-123-665-00	ELECT 330MF 20% 200V	
C7	▲.1-123-580-00	ELECT 4.7MF 20% 350V	
C8	▲.1-123-580-00	ELECT 4.7MF 20% 350V	
C9	▲.1-123-336-00	ELECT 470MF 20% 25V	
C10	▲.1-106-188-00	MYLAR 0.0047MF 5% 100V	
C11	▲.1-106-180-00	MYLAR 0.0022MF 5% 100V	
C12	▲.1-106-180-00	MYLAR 0.0022MF 5% 100V	
C13	▲.9-982-264-00	POLYPRO 0.0047MF 5% 100V	
C14	▲.1-106-188-00	MYLAR 0.0047MF 5% 100V	
C15	▲.1-106-188-00	MYLAR 0.0047MF 5% 100V	
C16	▲.1-108-595-00	MYLAR 0.047MF 5% 50V	
C17	▲.9-982-187-00	ELECT 2200MF 20% 16V	
C18	▲.1-123-335-00	ELECT 330MF 20% 25V	
C20	▲.1-123-323-00	ELECT 470MF 20% 16V	
C21	▲.1-108-595-00	MYLAR 0.047MF 5% 50V	
C22	▲.9-982-188-00	ELECT 100MF 20% 16V	
C23	▲.1-108-587-00	MYLAR 0.0022MF 5% 50V	
C24	▲.1-123-323-00	ELECT 470MF 20% 16V	
C25	▲.1-123-333-00	ELECT 100MF 20% 25V	
C26	▲.1-123-356-00	ELECT 10MF 20% 50V	
C27	▲.1-123-332-00	ELECT 47MF 20% 25V	
C28	▲.1-123-318-00	ELECT 33MF 20% 16V	
C29	▲.1-161-747-00	CERAMIC 0.0022MF 20% 125V	
C30	▲.1-108-579-00	MYLAR 0.01MF 5% 50V	
C31	▲.1-123-380-00	ELECT 1MF 20% 100V	

NOTE:

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.

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

- ->: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μF , PF : $\mu\mu F$

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μH

POWER BLOCK

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C32	△ .9-982-191-00	ELECT 22MF	20% 50V	R12	△ .1-246-535-00	CARBON 390K	5% 1/4W
C33	△ .1-123-380-00	ELECT 1MF	20% 100V	R13	△ .1-246-491-00	CARBON 5.6K	5% 1/4W
C34	△ .1-102-114-00	CERAMIC 470PF	10% 50V	R14	△ .1-246-511-00	CARBON 39K	5% 1/4W
C35	△ .1-106-180-00	MYLAR 0.0022MF	5% 100V	R15	△ .1-246-493-00	CARBON 6.8K	5% 1/4W
C36	△ .1-106-180-00	MYLAR 0.0022MF	5% 100V	R16	△ .1-246-483-00	CARBON 2.7K	5% 1/4W
C37	△ .1-161-747-00	CERAMIC 0.0022MF	20% 125V	R17	△ .1-246-489-00	CARBON 4.7K	5% 1/4W
<u>CONNECTER</u>				R18	△ .1-246-487-00	CARBON 3.9K	5% 1/4W
CN1	1-560-676-00	PIN, CONNECTOR 3P		R19	△ .1-246-481-00	CARBON 2.2K	5% 1/4W
<u>DIODE</u>				R20	△ .1-246-491-00	CARBON 5.6K	5% 1/4W
D1	△ .8-719-503-40	DIODE S3V40		R21	△ .1-246-521-00	CARBON 100K	5% 1/4W
D2	△ .8-719-503-40	DIODE S3V40		R22	△ .1-246-497-00	CARBON 10K	5% 1/4W
D3	△ .8-719-503-40	DIODE S3V40		R24	△ .1-246-473-00	CARBON 1K	5% 1/4W
D4	△ .8-719-503-40	DIODE S3V40		R25	△ .1-246-489-00	CARBON 4.7K	5% 1/4W
D5	△ .8-719-500-01	DIODE S1WB10		R26	△ .1-246-491-00	CARBON 5.6K	5% 1/4W
D6	△ .8-719-550-02	DIODE S5KC20		R27	△ .1-244-853-00	CARBON 150	5% 1/2W
D7	△ .8-719-923-48	DIODE 1S2348H		R28	△ .1-246-501-00	CARBON 15K	5% 1/4W
D8	△ .8-719-981-01	DIODE ERAB1-004		R29	△ .1-246-497-00	CARBON 10K	5% 1/4W
D9	△ .8-719-100-72	DIODE RD15EB3		R30	△ .1-246-469-00	CARBON 680	5% 1/4W
D10	△ .8-719-815-85	DIODE 1S1585		R31	△ .1-246-481-00	CARBON 2.2K	5% 1/4W
D11	△ .8-719-981-01	DIODE ERAB1-004		R32	△ .1-246-477-00	CARBON 1.5K	5% 1/4W
D12	△ .8-719-815-85	DIODE 1S1585		R33	△ .1-246-401-00	CARBON 1	5% 1/4W
D13	△ .8-719-815-85	DIODE 1S1585		R34	△ .1-246-401-00	CARBON 1	5% 1/4W
<u>FUSE</u>				R35	△ .1-246-497-00	CARBON 10K	5% 1/4W
F1	△ .1-532-403-XX	FUSE, 3.15A 125V		R36	△ .1-246-497-00	CARBON 10K	5% 1/4W
<u>IC</u>				R37	△ .1-246-481-00	CARBON 2.2K	5% 1/4W
IC1	△ .8-759-937-59	IC MB3759		R38	△ .1-246-473-00	CARBON 1K	5% 1/4W
IC2	△ .8-759-133-90	IC UPC339C		R39	△ .1-246-497-00	CARBON 10K	5% 1/4W
IC3	△ .8-759-170-08	IC UPC78M08H		R40	△ .9-982-262-00	FUSIBLE 3.3	5% 1/2W F
<u>TRANSISTOR</u>				R41	△ .9-982-185-00	METAL PLATE 1	10% 2W
Q1	△ .8-729-925-02	TRANSISTOR 2SC2502		R42	△ .9-982-263-00	FUSIBLE 2.2	5% 1/4W F
Q2	△ .8-729-925-02	TRANSISTOR 2SC2502		R43	△ .1-246-497-00	CARBON 10K	5% 1/4W
Q3	△ .8-729-663-47	TRANSISTOR 2SC1364-7		R44	△ .1-244-835-00	CARBON 27	5% 1/2W
Q4	△ .8-729-177-23	TRANSISTOR 2SB772-P		R45	△ .1-244-849-00	CARBON 100	5% 1/2W
Q5	△ .8-729-177-23	TRANSISTOR 2SB772-P		<u>VARIABLE RESISTOR</u>			
<u>RESISTOR</u>				RV1	△ .1-226-707-00	SOLID 1K	
R1	△ .9-982-261-00	WIREWOUND 1	10% 5W F	RV2	△ .1-226-707-00	SOLID 1K	
R2	△ .1-244-929-00	CARBON 220K	5% 1/2W	RV3	△ .1-226-770-00	METAL GLAZE 470	
R3	△ .1-202-727-00	SOLID 4.7M	10% 1/2W	<u>RELAY</u>			
R4	△ .1-246-481-00	CARBON 47	5% 1/4W	RL1	△ .9-982-184-00	RELAY MR31-12U	
R5	△ .1-246-441-00	CARBON 47	5% 1/4W	<u>TRANSFORMER</u>			
R6	△ .1-246-483-00	CARBON 2.7K	5% 1/4W	T1	△ .1-421-439-00	CHOKE COIL, NORMAL	
R7	△ .1-244-841-00	CARBON 47	5% 1/2W	T2	△ .1-421-439-00	CHOKE COIL, NORMAL	
R8	△ .1-244-835-00	CARBON 27	5% 1/2W	T3	△ .1-421-438-00	CHOKE COIL, COMMON	
R9	△ .1-217-595-00	METAL PLATE 0.05	10% 2W	T4	△ .1-413-073-00	TRANSFORMER, SWITCHING	
R10	△ .1-246-491-00	CARBON 5.6K	5% 1/4W	T5	△ .1-437-097-00	TRANSFORMER, DRIVE	
R11	△ .1-246-529-00	CARBON 220K	5% 1/4W	T6	△ .1-447-197-00	TRANSFORMER, AC	

NOTE: 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.

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

- * =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- * Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
 * MF : μ F, PF : μ μ F

RESISTORS
 * All resistors are in ohms
 * F : nonflammable

COILS
 * MMH : mH, UH : μ H

POWER BLOCK

Ref.No.	Part No.	Description	Remark
T11	▲ 9-982-196-00	CHOKE COIL (B)	
T12	▲ 9-982-194-00	CHOKE COIL, POWER	

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 ▲ 1-413-116-11 POWER BLOCK (SR-11PH) (Type 2)
 ▲ 1-555-312-21 CORD, POWER

CAPACITOR

C1	▲ 1-123-352-11	ELECT	1MF	20%	50V
C2	▲ 1-130-939-11	FILM	0.22MF	20%	300V
C3	▲ 1-161-742-11	CERAMIC	0.0022MF	20%	400V
C4	▲ 1-161-742-11	CERAMIC	0.0022MF	20%	400V
C5	▲ 1-161-742-11	CERAMIC	0.0022MF	20%	400V
C6	▲ 1-161-742-11	CERAMIC	0.0022MF	20%	400V
C7	▲ 1-125-314-11	ELECT	200MF	20%	400V
C8	▲ 1-124-167-11	ELECT	4.7MF	20%	250V
C9	▲ 1-124-167-11	ELECT	4.7MF	20%	250V
C10	▲ 1-123-362-11	ELECT	330MF	20%	50V
C11	▲ 1-108-234-51	FILM	0.0047MF	10%	50V
C12	▲ 1-123-332-11	ELECT	47MF	20%	25V
C13	▲ 1-108-800-61	FILM	0.0047MF	5%	100V
C14	▲ 1-106-369-51	FILM	0.0022MF	5%	100V
C15	▲ 1-106-369-51	FILM	0.0022MF	5%	100V
C16	▲ 1-106-369-51	FILM	0.0022MF	5%	100V
C17	▲ 1-108-251-51	FILM	0.1MF	10%	50V
C18	▲ 1-123-325-11	ELECT	2200MF	20%	16V
C19	▲ 1-123-323-11	ELECT	470MF	20%	16V
C20	▲ 1-108-234-51	FILM	0.0047MF	10%	50V
C21	▲ 1-108-800-51	FILM	0.0047MF	5%	100V
C22	▲ 1-108-234-51	FILM	0.0047MF	10%	50V
C23	▲ 1-108-246-51	FILM	0.047MF	10%	50V
C24	▲ 1-123-323-11	ELECT	470MF	20%	16V
C25	▲ 1-123-323-11	ELECT	470MF	20%	16V
C26	▲ 1-123-332-11	ELECT	47MF	20%	25V
C27	▲ 1-123-316-11	ELECT	10MF	20%	16V
C28	▲ 1-123-320-11	ELECT	100MF	20%	16V
C29	▲ 1-123-354-11	ELECT	3.3MF	20%	50V
C30	▲ 1-106-377-51	FILM	0.01MF	5%	50V
C31	▲ 1-123-356-11	ELECT	10MF	20%	50V
C32	▲ 1-161-742-11	CERAMIC	0.0022MF	20%	400V
C33	▲ 1-123-335-11	ELECT	330MF	20%	25V

CONNECTOR

CN1	1-560-676-11	PIN, CONNECTOR 3P
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DIODE

D1	▲ 8-719-504-40	DIODE	S4VB40
D2	▲ 8-719-511-10	DIODE	S1WB10
D3	▲ 8-719-560-02	DIODE	S6KC20
D4	▲ 8-719-104-01	DIODE	F114E
D5	▲ 8-719-104-01	DIODE	F114E

Ref.No.	Part No.	Description	Remark
D6	▲ 8-719-920-01	DIODE	ERB12-01
D7	▲ 8-719-981-01	DIODE	ERA81-004
D8	▲ 8-719-923-48	DIODE	1S2348H
D9	▲ 8-719-100-72	DIODE	RD15E-B3
D10	▲ 8-719-925-76	DIODE	1S2076

D11	▲ 8-719-923-48	DIODE	1S2348
D12	▲ 8-719-100-56	DIODE	RD10E-B1

FUSE

F1	▲ 1-532-237-11	FUSE	3.15A	125V
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IC

IC1	▲ 8-759-937-59	IC	MB3759
IC2	▲ 8-759-375-08	IC	HA178M08P

TRANSISTOR

Q1	▲ 8-729-925-02	TRANSISTOR	2SC2502
Q2	▲ 8-729-925-02	TRANSISTOR	2SC2502
Q3	▲ 8-729-173-47	TRANSISTOR	2SA733
Q4	▲ 8-729-194-57	TRANSISTOR	2SC945
Q5	▲ 8-729-188-23	TRANSISTOR	2SD882

Q6	▲ 8-729-194-57	TRANSISTOR	2SC945
Q7	▲ 8-729-194-57	TRANSISTOR	2SC945
Q8	▲ 8-729-157-13	TRANSISTOR	2SD571

RESISTOR

R1	▲ 1-202-727-11	SOLID	4.7M	10%	1/2W
R2	▲ 1-217-616-11	WIREWOUND	3.3	5%	5W
R3	▲ 1-246-489-46	CARBON	4.7k	5%	1/6W
R4	▲ 1-246-493-15	CARBON	6.8k	5%	1/4W
R5	▲ 1-246-429-15	CARBON	15	5%	1/4W

R6	▲ 1-246-429-15	CARBON	15	5%	1/4W
R7	▲ 1-246-483-15	CARBON	2.7k	5%	1/4W
R8	▲ 1-244-841-11	CARBON	47	5%	1/2W
R9	▲ 1-246-493-46	CARBON	6.8k	5%	1/6W
R10	▲ 1-246-489-46	CARBON	4.7k	5%	1/6W

R11	▲ 1-246-483-46	CARBON	2.7k	5%	1/6W
R12	▲ 1-246-529-46	CARBON	220k	5%	1/6W
R13	▲ 1-246-491-15	CARBON	5.6k	5%	1/4W
R14	▲ 1-246-529-15	CARBON	220k	5%	1/4W
R15	▲ 1-212-375-61	METAL PLATE	18	5%	1W

R16	▲ 1-212-375-61	METAL PLATE	18	5%	1W
R17	▲ 1-217-596-51	METAL PLATE	0.05	5%	2W
R18	▲ 1-217-428-21	FUSIBLE	3.3	5%	1/2W
R19	▲ 1-246-491-15	CARBON	5.6k	5%	1/4W
R20	▲ 1-217-633-11	METAL PLATE	0.56	5%	2W

R21	▲ 1-246-509-15	CARBON	33k	5%	1/4W
R22	▲ 1-246-487-15	CARBON	3.9k	5%	1/4W
R23	▲ 1-246-481-15	CARBON	2.2k	5%	1/4W
R24	▲ 1-246-497-46	CARBON	10k	5%	1/6W
R25	▲ 1-246-491-46	CARBON	5.6k	5%	1/6W

NOTE:

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.

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

* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
 * MF : μ F, PF : μ μ F

RESISTORS
 * All resistors are in ohms
 * F : nonflammable

COILS
 * MH : mH, UR : μ H

* ->: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

* Items marked " & " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

POWER BLOCK

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R26	△ 1-246-487-46	CARBON 3.9k	5% 1/6W	3-674-306-00	CUSHION (LOWER REAR)		
R27	△ 1-246-027-032	CARBON 2.2k	5% 1/6W	3-674-307-00	CUSHION (UPPER FRONT)		
R28	△ 1-246-477-46	CARBON 1.5k	5% 1/6W	3-674-308-00	CUSHION (UPPER REAR)		
R29	△ 1-246-465-46	CARBON 470	5% 1/6W	3-674-309-00	INDIVIDUAL CARTON (TYPE 1)		
R30	△ 1-246-465-46	CARBON 470	5% 1/6W	3-674-317-00	LID, ACCESSORY CASE		
R31	△ 1-246-449-46	CARBON 56	5% 1/6W	3-675-585-01	INDIVIDUAL CARTON (TYPE 2)		
R32	△ 1-246-481-46	CARBON 2.2k	5% 1/6W	3-703-338-01	LABEL, UL (570F)		
R33	△ 1-246-473-46	CARBON 1k	5% 1/6W	3-783-869-21	MANUAL, INSTRUCTION		
R34	△ 1-244-849-11	CARBON 100	5% 1/2W	3-783-869-31	MANUAL, INSTRUCTION (CANADIAN MODEL)		
R35	△ 1-246-449-46	CARBON 100	5% 1/6W	3-795-338-21	MANUAL, INSTRUCTION		

VARIABLE RESISTOR

RV1	△ 1-226-707-11	1k	
RV2	△ 1-226-707-11	1k	
RV3	△ 1-228-836-11	330	

RELAY

RL1	△ 1-515-215-11	RELAY MR31-12	
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TRANSFORMER

T1	△ 9-982-196-01	CHOKO COIL (B)	
T2	△ 9-982-194-01	CHOKO COIL POWER	
T3	△ 1-421-438-11	CHOKO COIL COMMON	
T4	△ 1-447-394-11	TRANSFORMER, SWITCHING	
T5	△ 1-437-121-11	TRANSFORMER, DRIVE	
T6	△ 1-446-932-11	TRANSFORMER, AC	
T7	△ 1-408-762-11	CHOKO COIL (C)	
T8	△ 9-982-194-01	CHOKO COIL POWER	
T9	△ 1-408-729-11	CHOKO COIL (B)	
T10	△ 9-982-194-01	CHOKO COIL (B)	

SPARK GAP

SG1	△ 1-519-272-11	SPARK GAP	
SG2	△ 1-519-272-11	SPARK GAP	

MISCELLANEOUS

A-6761-043-A ACE ASSY (M-2)

ACCESSORIES AND PACKING MATERIALS

A-6701-177-A	COMMANDER ASSY
1-417-063-00	TRANSFORMER, ANTENNA (EAC-24)
1-513-379-00	CONVERTER (EAC-25)
1-551-139-00	CORD, CONNECTION
1-551-644-41	CORD, CONNECTION
3-660-986-00	SHEET, PROTECTION
3-671-402-00	INDICATOR, ACCESSORY
3-671-832-00	BAG, PROTECTION
3-671-873-00	CASE, ACCESSORY
3-674-306-00	CUSHION (LOWER FRONT)

NOTE:

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.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

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

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- Items marked "△" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS

• MF : μ F, PF : μ μ F

RESISTORS

• All resistors are in ohms
• F : nonflammable

COILS

• MMH : mH, UH : μ H

RMT-312



REMOTE CONTROL UNIT

SPECIFICATIONS

Remote control unit	
Remote control system	Infrared control
Power requirements	3V dc, 2 size AA batteries (IEC designation R6)
Dimensions	Approx. 65 × 150 × 18 mm (w/h/d) (2 ⁵ / ₈ × 6 × 3/4 inches) incl. projecting parts and controls
Weight	Approx. 140 g (5 oz) incl. batteries

Recording

Remote function indicator

Lights up when any of the buttons on the remote control unit are pressed.

VTR button

Functions in the same way as the PROGRAM SELECT button on the recorder.

The ON-VTR lamp will indicate the selected mode.

STOP button

Press to stop recording.



Slide the cover to this position.

POWER switch

Press to turn the power on. (To turn it off, press again.)



Select the channel

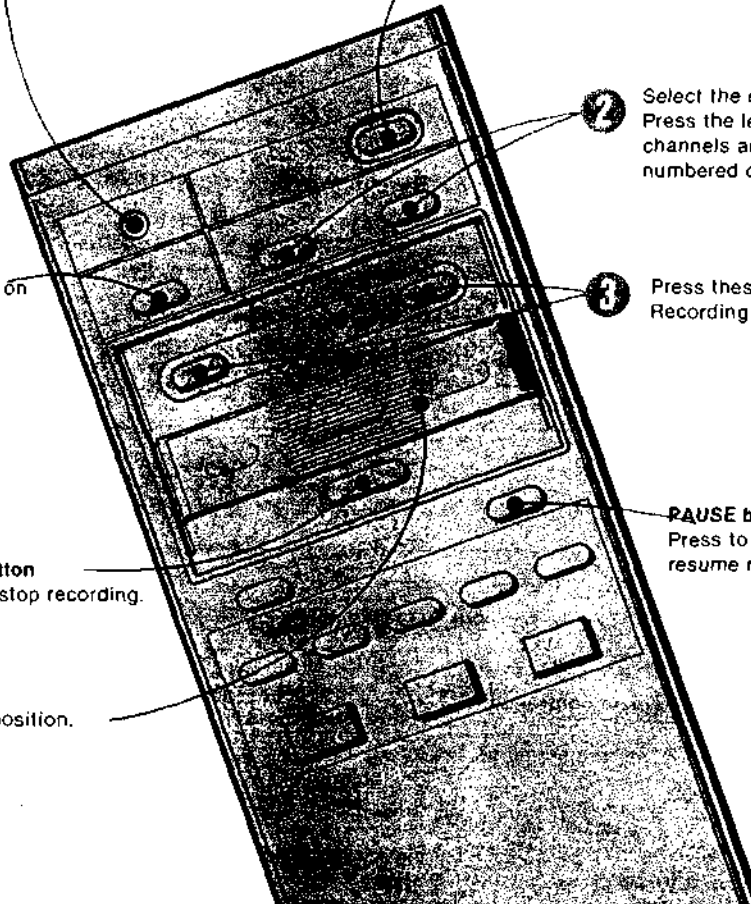
Press the left button for lower-numbered channels and the right button for higher-numbered channels.



Press these two buttons simultaneously. Recording starts.

PAUSE button

Press to stop the tape momentarily. To resume recording, press again.

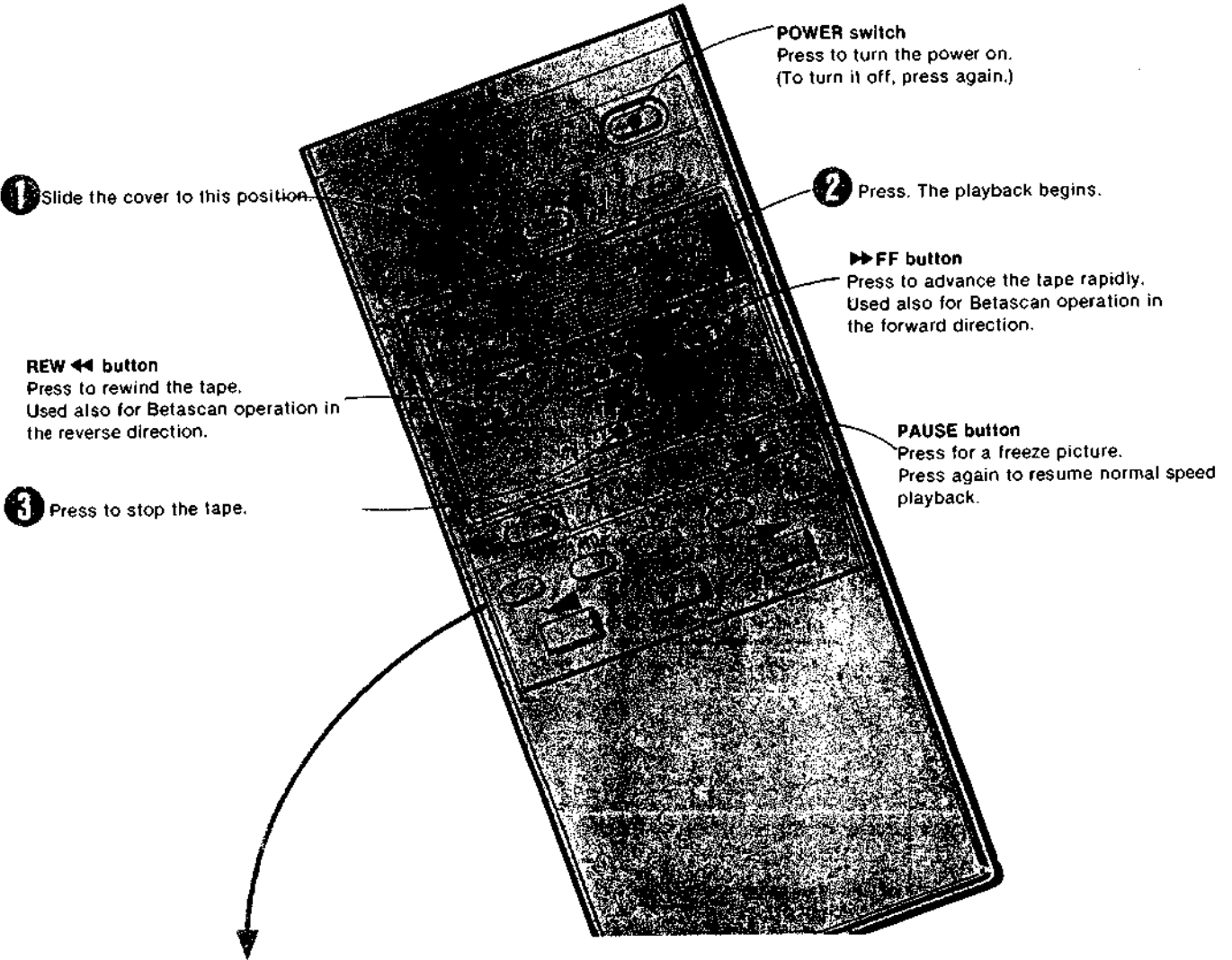


• The unused channels can be skipped during channel selection with the remote control unit if you have cleared the memory of these channels as described in "Clearing unused channels" on page 9 of the accompanying "SET-UP GUIDE".

• Recording will start immediately when the RECORD buttons on the remote control unit are pressed, even if a camera is connected to the recorder.

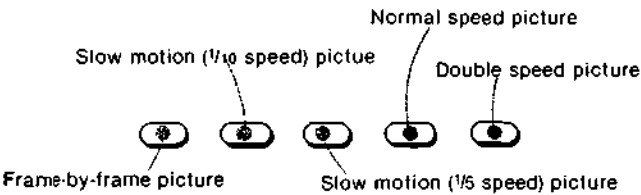
Playback

The buttons on the remote control unit perform the same function as the corresponding buttons on the video recorder.



To see the playback picture at various speeds

- 1 Press the SWING SEARCH button during playback.
- 2 Select the playback speed.



- 3 Select the playback direction.

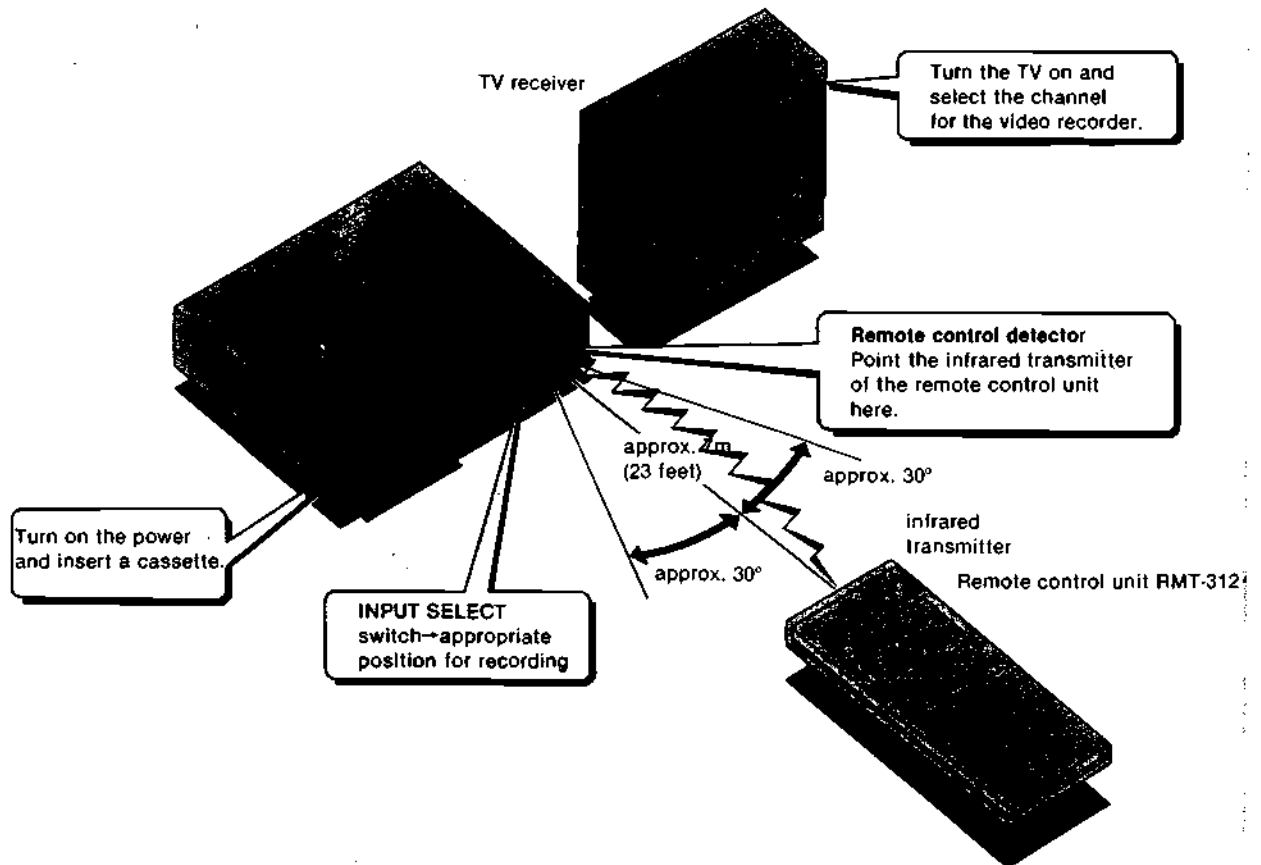


- For frame-by-frame playback, press and release the ◀◀ or ▶▶ button repeatedly. Keep the button depressed for continuous frame-by-frame playback.
- Back and forth playback is also possible in the same way as with the buttons on the recorder.

To resume normal playback, press the PLAY ▶ button.

HOW TO USE THE REMOTE CONTROL UNIT

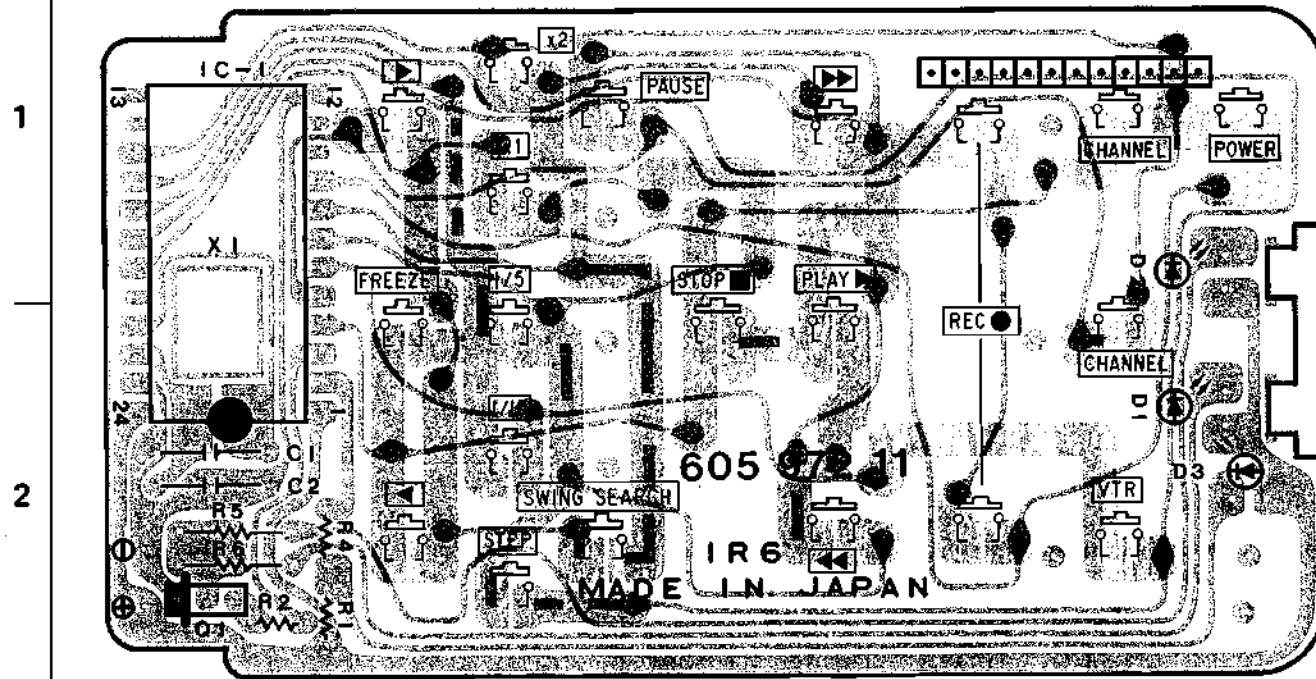
Preparation



Notes

- There should be no obstacles between the remote control unit and the remote control detector of the recorder.
- The shorter the distance between the remote control unit and the recorder, the wider the angle within which the recorder can be controlled.

3. MOUNTING DIAGRAM

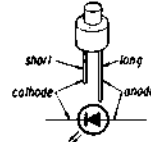
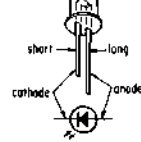
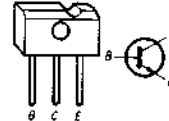
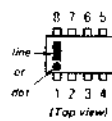


CX-786

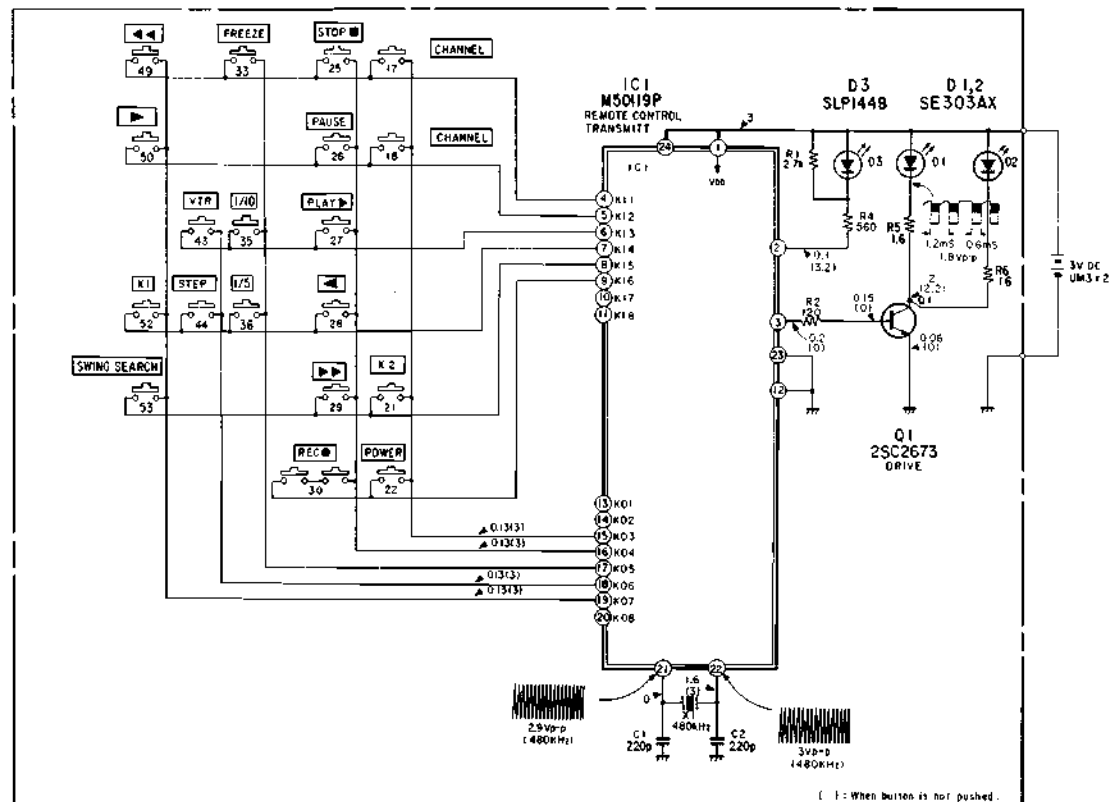
2SC2673

SE303AX

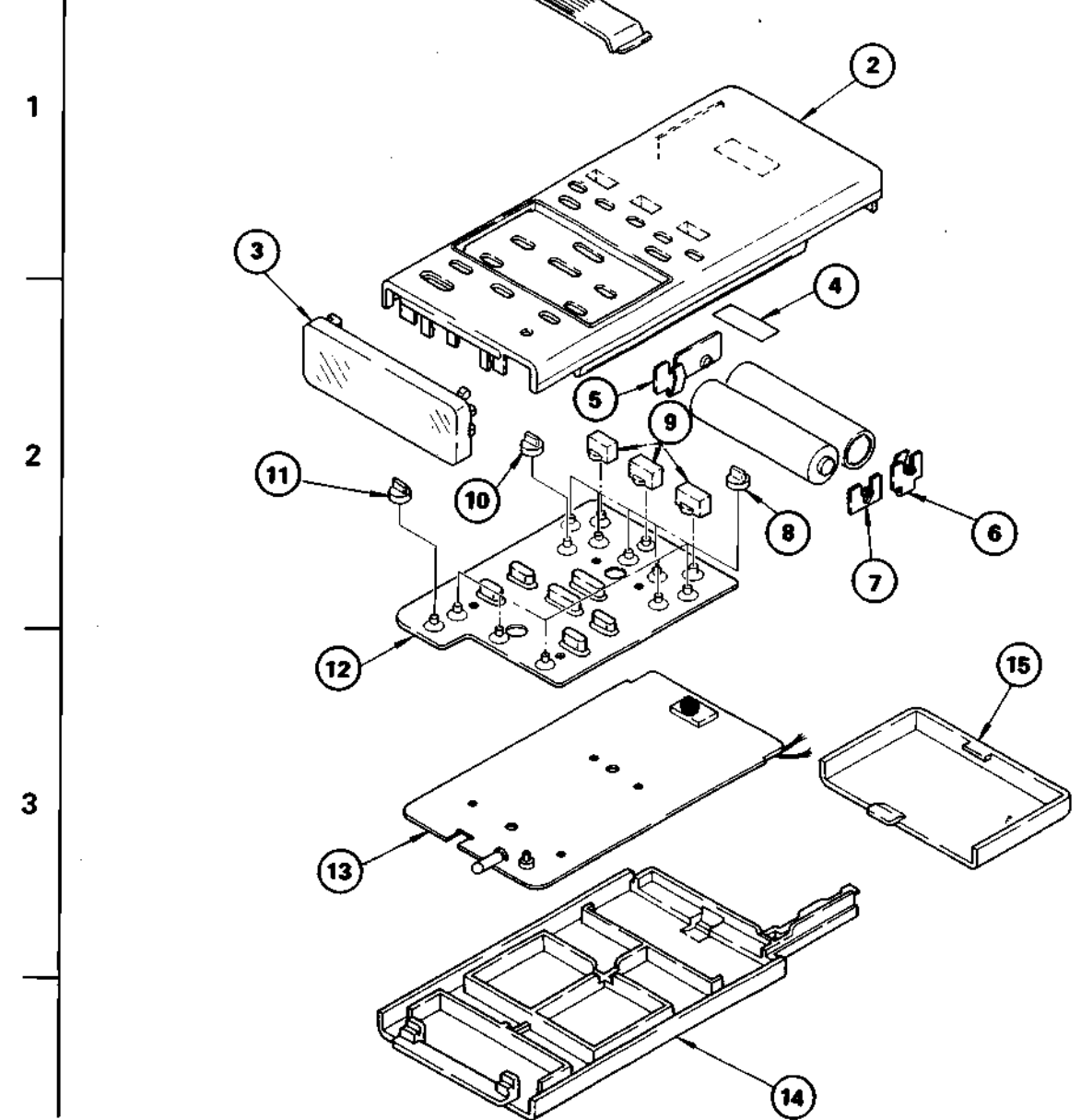
SLP144B



4. SCHEMATIC DIAGRAM



5. EXPLODED VIEW



No.	Part No	Description	Remark	No.	Part No	Description	Remark
1	2-290-603-00	CURSOR		9	2-290-604-11	PUSH BUTTON (S)	
2	X-3670-033-2	CASE (D) ASSY, UPPER		10	2-294-403-11	PUSH BUTTON (S)	
3	2-290-608-00	PLATE, FROSTED		11	2-294-401-00	BUTTON (S), POWER	
4	3-703-159-00	LABEL, DESTINATION		12	3-671-806-00	SHEET (D), RUBBER	
5	4-350-925-00	TERMINAL (C), BATTERY		13	1-605-972-12	IR-6 BOARD	
6	2-290-601-00	TERMINAL (A), BATTERY		14	2-290-611-00	CASE, LOWER	
7	2-290-602-00	TERMINAL (B), BATTERY		15	2-290-606-00	COVER, BATTERY	
8	2-294-403-00	PUSH BUTTON (S)					

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "•" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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.

IR-6 BOARD

6. ELECTRICAL PARTS LIST

RM	Ref.No	Part No	Description	Remark
	▲	1-605-972-12	IR-6 BOARD *****	
		2-290-601-00	TERMINAL (A), BATTERY	
		2-290-602-00	TERMINAL (B), BATTERY	
CAPACITOR				
C001	1-161-315-00	CERAMIC	220PF 10% 50V	
C002	1-161-315-00	CERAMIC	220PF 10% 50V	
DIODE				
D001	8-719-193-03	DIODE SE303AX		
D002	→8-719-193-03	DIODE SE303AX		
D003	8-719-901-44	DIODE SLP144B		
IC				
IC001	→8-759-907-86	IC CX-786		
TRANSISTOR				
Q001	8-729-967-32	TRANSISTOR 2SC2673		
RESISTOR				
R001	1-246-788-00	CARBON	2.7K 1/8W	
R002	1-246-772-00	CARBON	120 1/8W	
R004	1-246-780-00	CARBON	560 1/8W	
R005	1-246-406-00	CARBON	1.6 5% 1/4W	
R006	1-246-406-00	CARBON	1.6 5% 1/4W	
CRYSTAL				
X001	1-527-476-00	OSCILLATOR, CERAMIC		

ACCESSORIES AND PACKING MATERIALS

Part.No	Description	Remark
3-701-622-00	BAG, POLYETHYLENE	

NOTE:

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.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

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

- : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- CAPACITORS**
MF : μF, PF : μμF
- RESISTORS**
All resistors are in ohms
F : nonflammable
- COILS**
MH : mH, UH : μH

STANDARD PARTS LIST

ELECTROLYTIC CAPACITORS

CAP. (μF)	RATING → Use the high voltage rated one.						
	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	25 VOLT. PART No.	35 VOLT. PART No.	50 VOLT. PART No.	63 VOLT. PART No.
0.47							
1.0							
2.2							
3.3							
4.7							1-123-369-00
10						1-123-356-00	1-123-370-00
22				1-123-330-00		1-123-357-00	1-123-371-00
33			1-123-318-00		1-123-343-00		1-123-372-00
47		1-123-306-00		1-123-332-00		1-123-359-00	1-123-373-00
100		1-123-307-00		1-123-333-00	1-123-345-00	1-123-360-00	1-123-374-00
220		1-123-308-00	1-123-321-00	1-123-334-00	1-123-346-00	1-123-361-00	1-123-375-00
330		1-123-309-00	1-123-322-00	1-123-335-00	1-123-347-00	1-123-362-00	1-123-376-00
470	1-123-298-00	1-123-310-00	1-123-323-00	1-123-336-00	1-123-348-00	1-123-363-00	1-123-377-00
1000	1-123-299-00	1-123-311-00	1-123-324-00	1-123-337-00	1-123-349-00	1-123-364-00	1-123-378-00
2200	1-123-300-00		1-123-325-00	1-123-338-00	1-123-350-00		
3300	1-123-301-00	1-123-313-00	1-123-326-00	1-123-339-00			
4700	1-123-302-00	1-123-314-00	1-123-327-00				
6800	1-123-303-00	1-123-315-00					
10000	1-123-304-00						

CAP. (μF)	100 VOLT. PART No.	160 VOLT. PART No.	250 VOLT. PART No.	350 VOLT. PART No.
0.47	1-123-379-00			
1.0	1-123-380-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-381-00	1-123-026-00	1-123-027-00	1-123-028-00
3.3	1-123-382-00	1-121-707-00	1-123-004-00	1-123-006-00
4.7	1-123-383-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-123-384-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-123-385-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-123-386-00	1-121-757-00		
47	1-123-387-00	1-121-919-00		
100	1-123-388-00			
220	1-123-389-00			
330	1-123-390-00			
470	1-123-391-00			

CERAMIC CAPACITORS

RATING							
CAP. (pF)	50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001μF = 1,000pF

MYLAR CAPACITORS

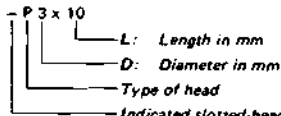
RATING											
CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00		
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00		
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00		
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00		
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				

1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

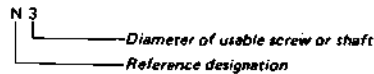
HARDWARE NOMENCLATURE

Screw:



Unless otherwise indicated, it means cross-recessed head (Phillips type).

Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-filister-head screw	
RF		filister-head screw	
BV		brazier-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

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