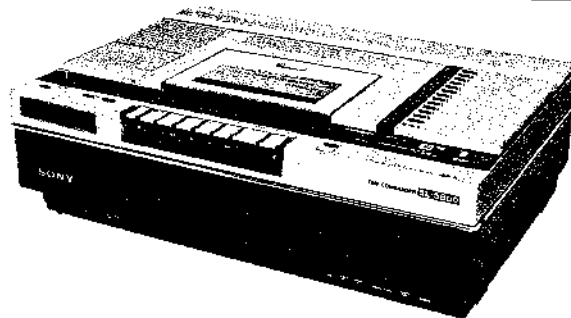


Betamax

VIDEOCASSETTE RECORDER

SL-5800

*US Model
Canadian Model*

SPECIFICATIONS**General**

- Video recording system:** Rotary two-head helical scanning
- Video signal:** EIA standard, NTSC color
- Storage temperature:** -20°C to 65°C (-4°F to $+149^{\circ}\text{F}$)
- Operating temperature:** 5°C to 40°C (41°F to 104°F)
- Antenna:** 75 ohm external antenna terminal for VHF
300 ohm external antenna terminals for UHF
- Channel coverage:** VHF channels 2–13
UHF channels 14–83
- VHF output signal:** Channel 3 or 4 (selectable)
75 ohms, unbalanced
- Timer:** used only in the recording mode
Electronic digital timer
12-hour-clock cycle
synchronized with the power frequency
- Power requirements:** 120 V ac $\pm 10\%$, 60 Hz $\pm 0.5\%$
- AC OUTLET:** Unswitched max. 400W
- Power consumption:** 65 W
- Weight:** 16.5 kg (36 lb 6 oz)
- Dimensions:** 495 x 162 x 377 mm (w/h/d)
(19 $\frac{1}{2}$ x 6 $\frac{1}{2}$ x 14 $\frac{7}{8}$ inches)

Video

- Input:** VIDEO IN: phono-type connector
1.0 V (p-p), 75 ohms, unbalanced,
sync negative
- Output:** VIDEO OUT: phono-type connector
1.0 V (p-p), 75 ohms, unbalanced,
sync negative
- Signal-to-noise ratio:** Better than 45 dB

Audio

- Input:** AUDIO IN: mini jack
100 k ohms, -10 dB
MIC: mini jack
 -60 dB, suitable for microphone
with 600 ohm impedance
- Output:** AUDIO OUT: mini jack
Less than 10 k ohms, -5 dB
(100 k ohm load), unbalanced

- Frequency response:** β II : 50–10,000 Hz
 β III : 50–7,000 Hz

- Signal-to-noise ratio:** Better than 40 dB

Tape transport

- Tape speed:** β II : 2.0 cm/sec.
 β III : 1.33 cm/sec.
- Maximum recording time:** β II : 3 hours 20 min.
 β III : 5 hours
(with Sony L-830 cassette)
- Fast forward time:** Within 3 $\frac{1}{2}$ min. (L-500)
- Rewind time:** Within 3 $\frac{1}{2}$ min. (L-500)


Accessories supplied

- Betamax video cassette tape
External antenna connector EAC-24 (75 ohm to 300 ohm
matching transformer)
External antenna connector EAC-25 (300 ohm to 75 ohm
matching transformer)
75 ohm coaxial cable with F-type connectors (2 m)
300 ohm ribbon-type lead in (2 m)
Remote Commander BetaScan control
Channel number segments

Optional accessories

- Extension cable RFC-8
Betamax video cassette tape L-250, L-500, L-750, L-830
Cassette auto changer AG-300

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.

SONY
SERVICE MANUAL

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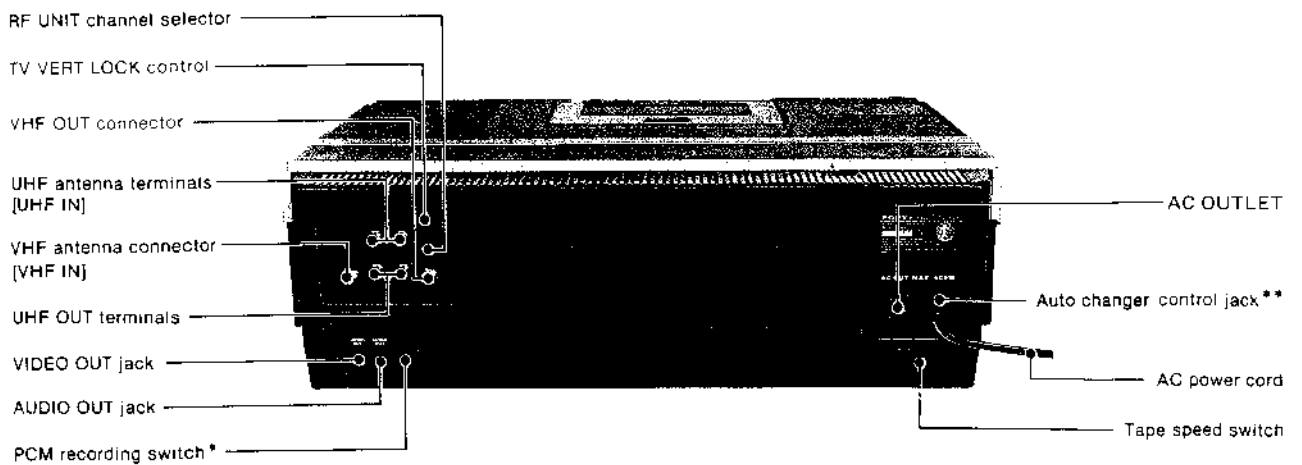
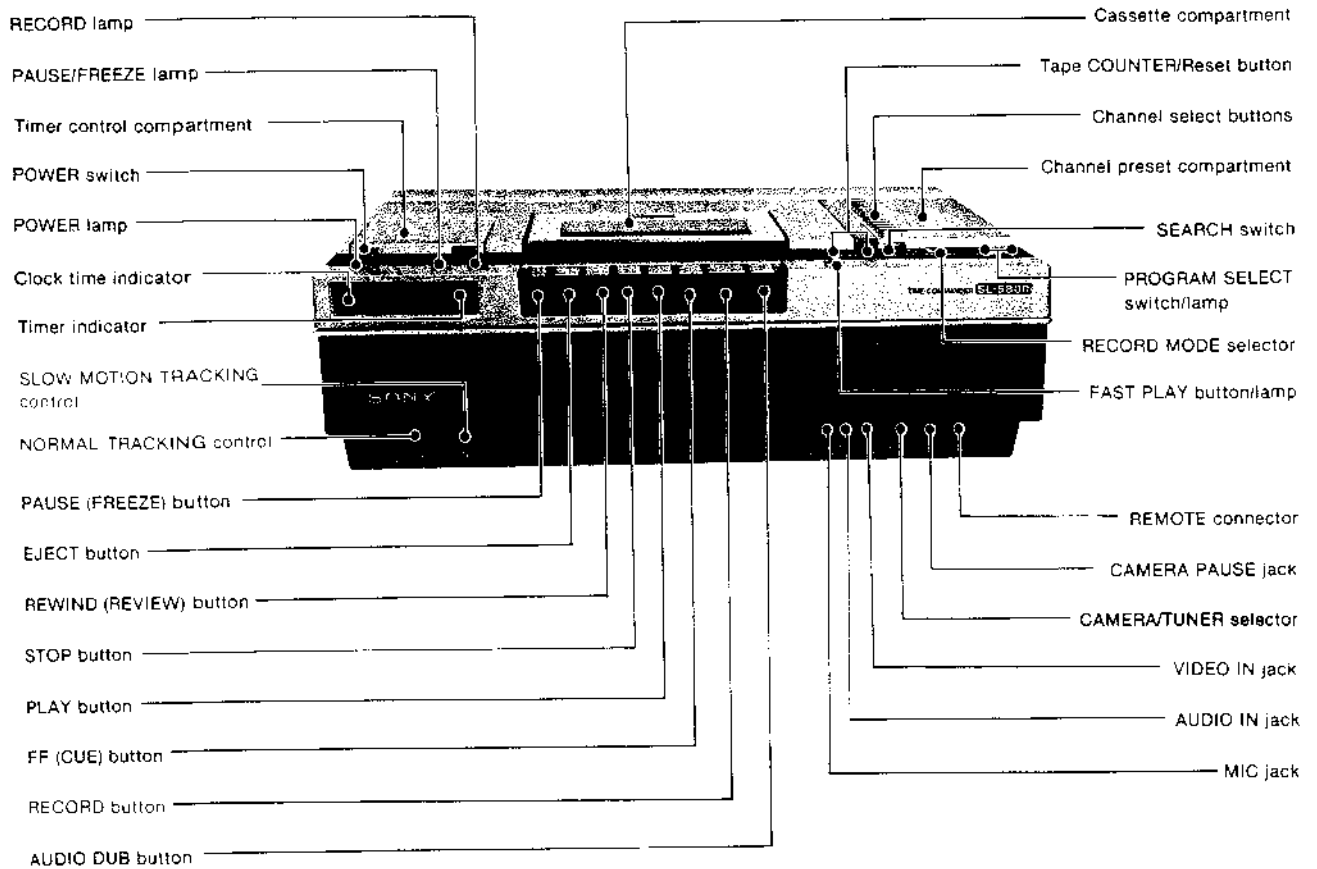
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4. ELECTRICAL PARTS LIST

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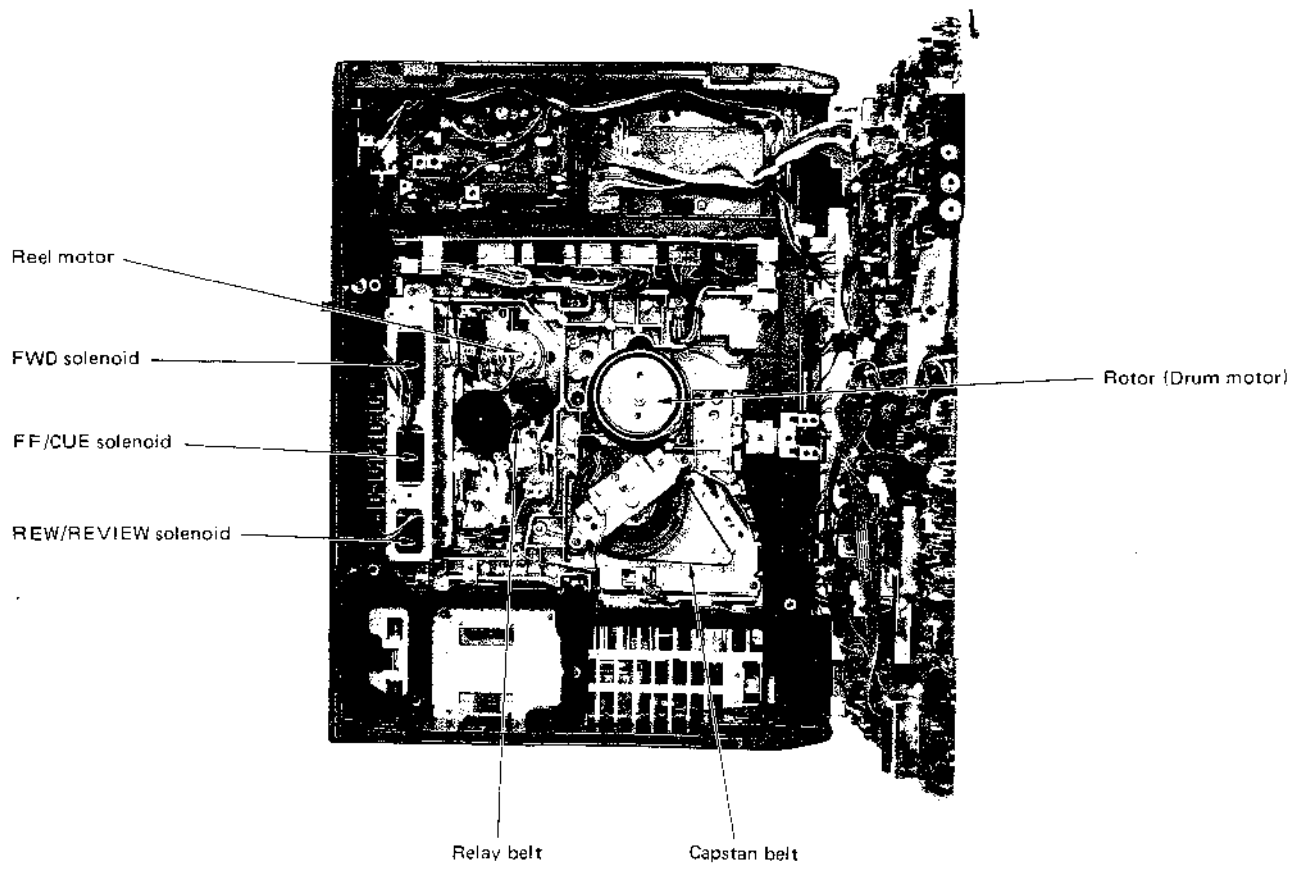
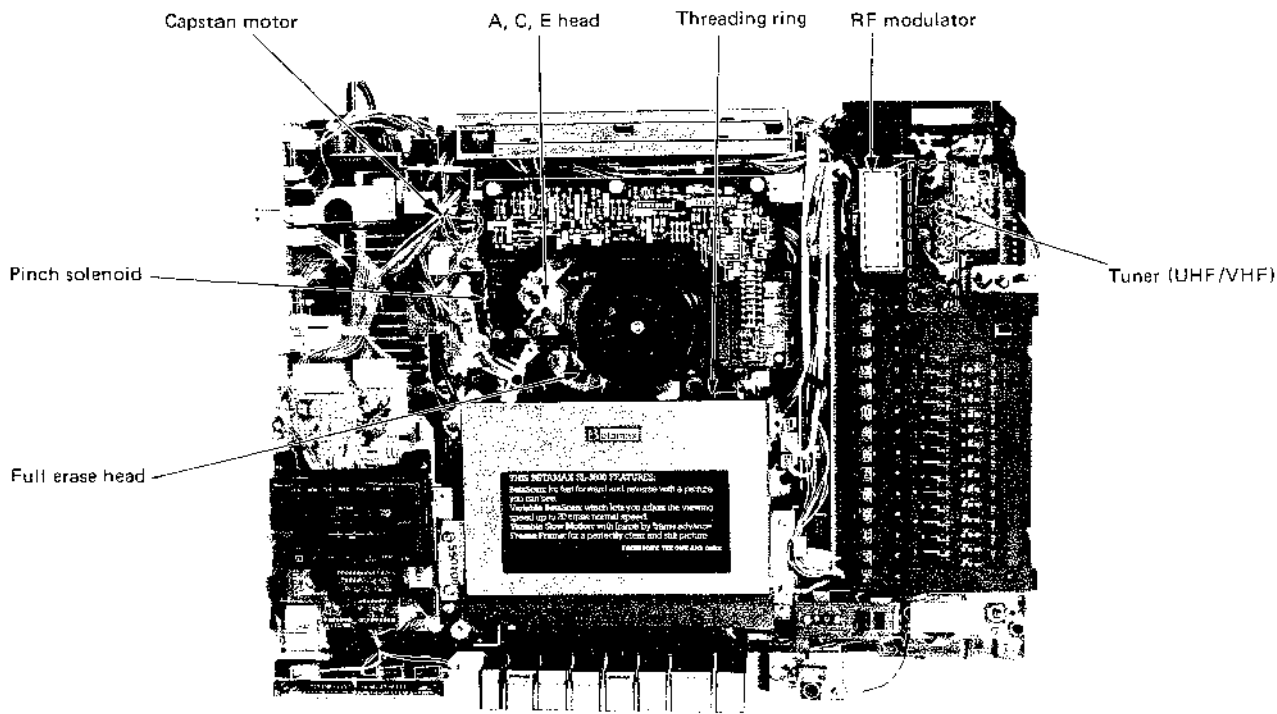
SECTION 1 GENERAL

1-1. LOCATION OF PARTS AND CONTROLS

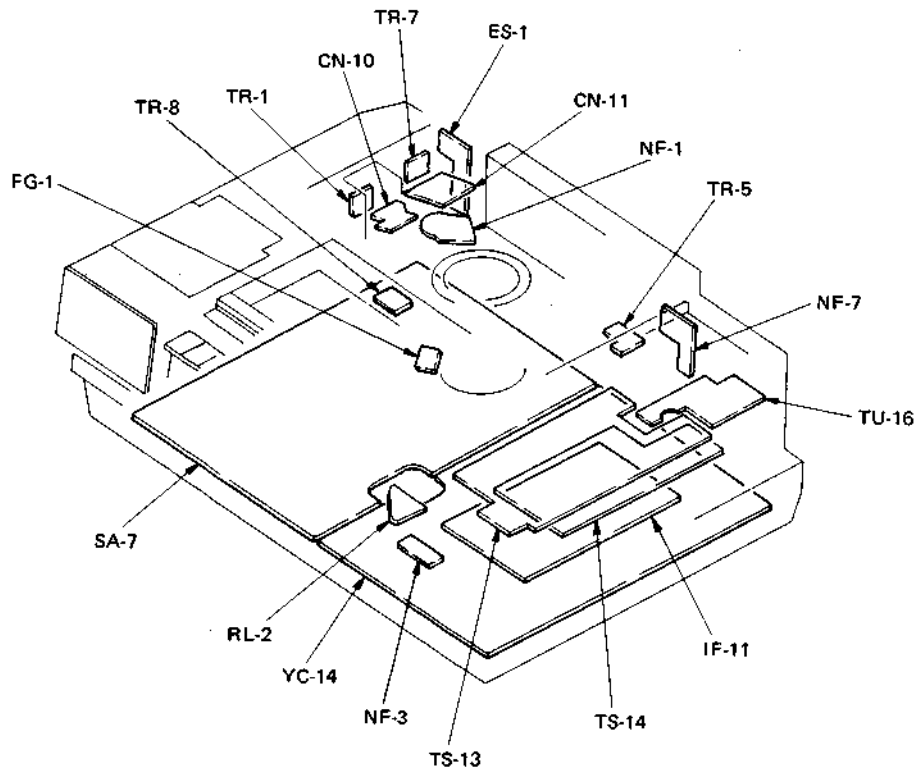
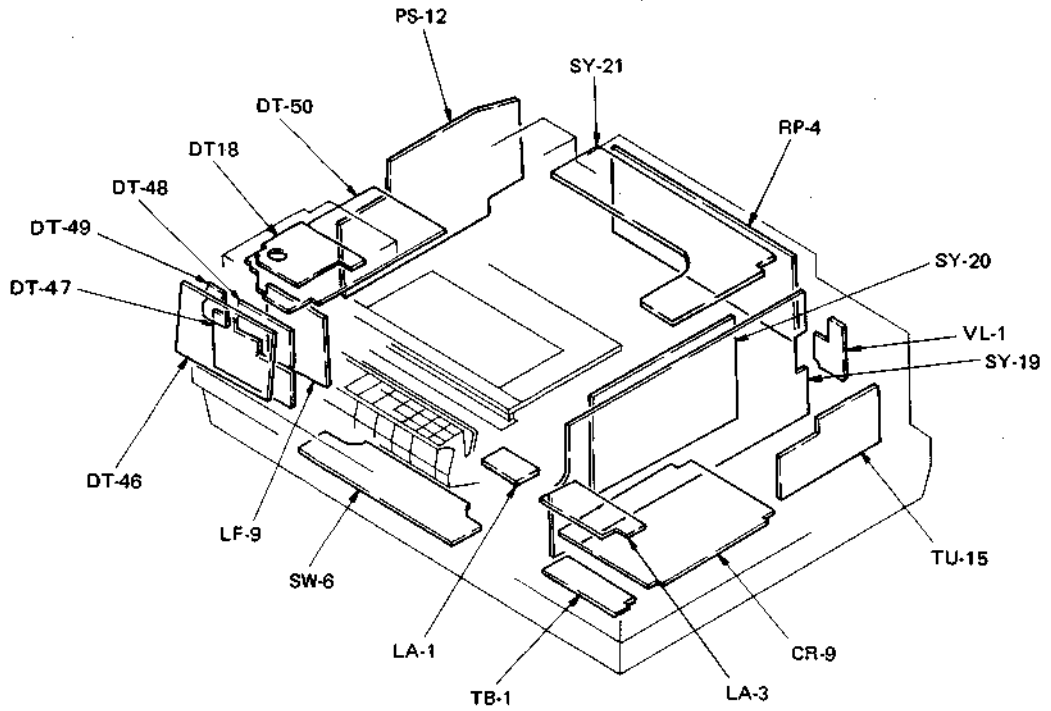


* During PCM recording when using PCM adaptor, remove the rubber cover and set the switch to the left position.

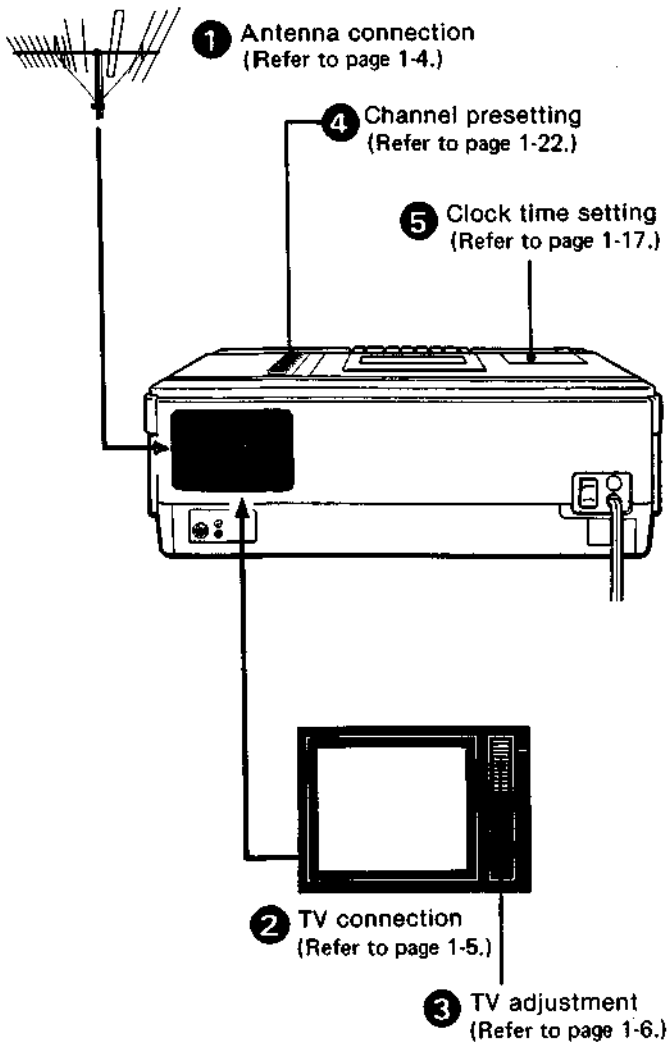
** Connect the Sony AG-300 cassette auto changer. For details, refer to the instruction manual supplied with the cassette auto changer.



CIRCUIT BOARDS LOCATION



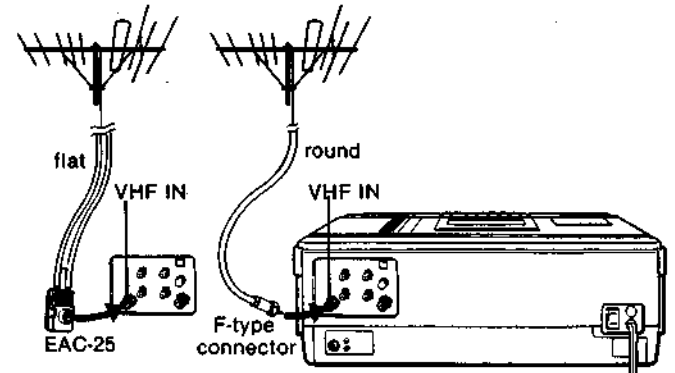
1-2. CONNECTIONS



1-2-1. Antenna Connections

Remove the antenna cables from the TV receiver and connect them to the recorder. The method of connection will depend on the type of your antenna.

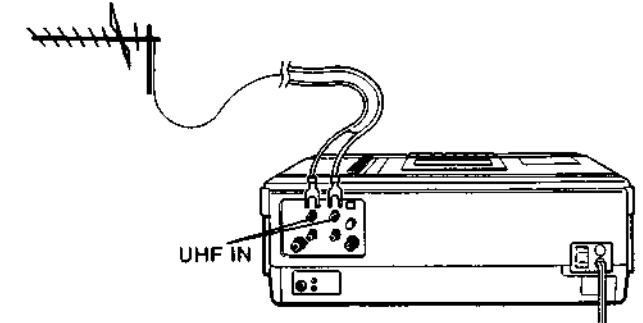
VHF antenna



When the cable is a 75-ohm coaxial type (round)
Connect it to VHF IN with an F-type connector (optional).

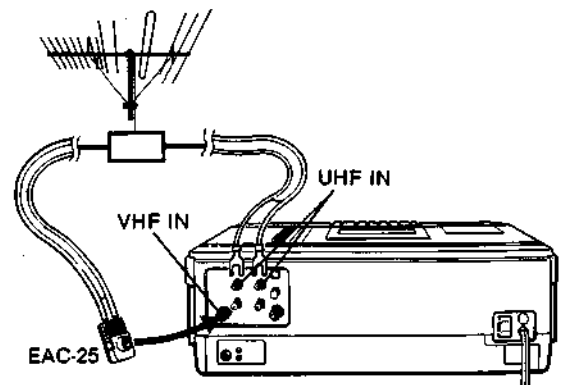
When the cable is a 300-ohm ribbon type lead-in (flat)
Connect it to the EAC-25 (supplied), then connect the EAC-25 to VHF IN.

UHF antenna



Connect the 300-ohm ribbon type lead-in to UHF IN.

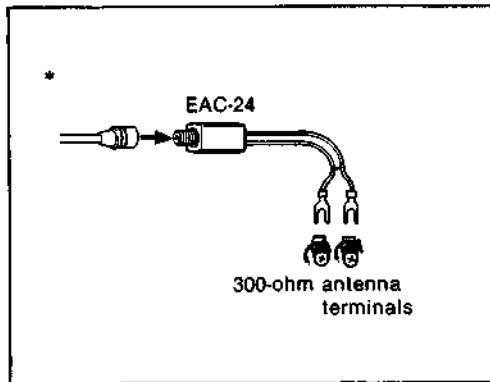
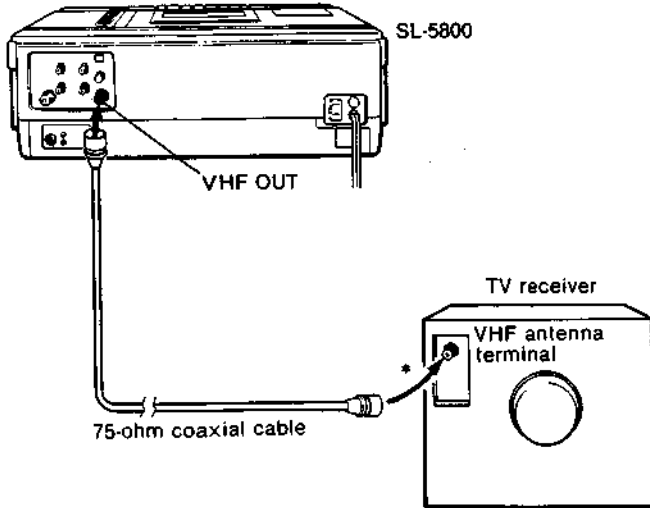
Combination VHF/UHF antenna



Separate the VHF and UHF signals using a signal splitter, and connect the VHF and UHF wires to VHF IN (through the EAC-25) and UHF IN, respectively.

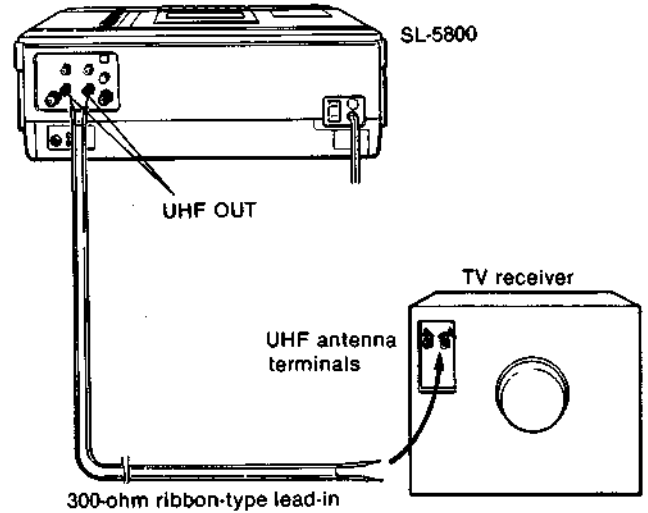
1-2-2. TV Connections

VHF SIGNAL CONNECTION



Connect the VHF OUT connector on the recorder to the VHF antenna terminal on the TV receiver with the 75-ohm coaxial (round) cable supplied. If the TV receiver is equipped with 300-ohm antenna terminals, use the EAC-24 (supplied).

UHF SIGNAL CONNECTION



Connect the UHF OUT terminals on the recorder to the UHF antenna terminals on the TV receiver with the 300-ohm ribbon-type (flat) lead-in supplied.

Caution

Connection between the SL-5800 VHF OUT connector and the antenna terminals of a TV receiver should be made only as shown in these instructions. Failure to do so may result in operation that violates the regulations of the Federal Communications Commission regarding the use and operation of rf devices. Never connect the output of the SL-5800 to an antenna or make simultaneous (parallel) antenna and SL-5800 connections at the antenna terminals of your receiver.

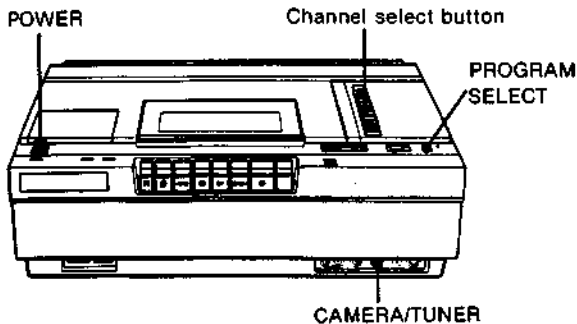
Note

For connections to a cable TV (CATV) system, see page 1-21.

1-2-3. TV Adjustment

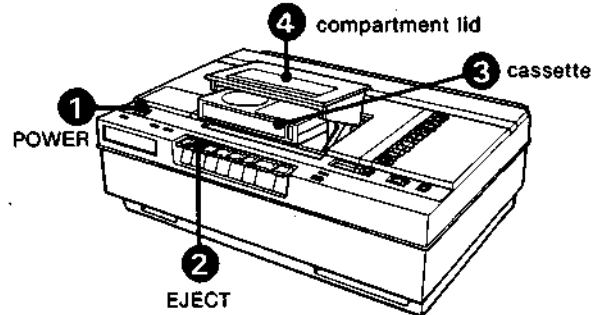
In order to use the recorder to play programs on your TV receiver, you have to adjust one channel of your TV receiver to accept the signal from your recorder.

- ❶ Set the RF UNIT channel selector located at the rear of the recorder to 3 CH or 4 CH, whichever is not active in your area.
- ❷ If your TV receiver has a rotary or 10 key tuning type channel selector,
 - set the VHF channel selector to channel 3 or 4 depending on the setting of the RF UNIT channel selector.
- If your TV receiver has an electronic tuner,
 - 1) Be sure you have connected the recorder, TV receiver and antenna as shown on the previous pages.
 - 2) Turn on the TV.
 - 3) Turn the POWER switch of the recorder ON.
 - 4) Set the CAMERA/TUNER selector to TUNER.
 - 5) Set the PROGRAM SELECT switch to ON VTR.
 - 6) Select an active channel in your area with a channel select button on the recorder.
 - 7) Select an unused TV channel with a channel select button on the TV.
 - 8) Adjust the selected button so that TV program selected on the recorder is clearly displayed on the TV screen and the sound is clearly heard.



- If you have a recorded Betamax video cassette tape, you can tune the TV receiver as follows instead of following the steps 1) to 8) shown previously:
 - 1) Be sure you have connected the recorder, TV receiver and antenna as shown on the previous pages.
 - 2) Turn on the TV.
 - 3) Turn the POWER switch of the recorder ON.
 - 4) Set the CAMERA/TUNER selector to TUNER.
 - 5) Set the PROGRAM SELECT switch to ON VTR.
 - 6) Insert the cassette.
 - 7) Press the PLAY button.
 - 8) Select an unused channel button on the TV.
 - 9) Adjust the selected channel button so that the cassette program is clearly displayed on the TV screen and the sound is clearly heard.

1-2-4. How to Insert and Remove a Cassette



TO INSERT A CASSETTE

- ❶ Turn on the power switch of the recorder.
- ❷ Press EJECT.
- ❸ Insert a cassette into the compartment.
- ❹ Press down the compartment lid.

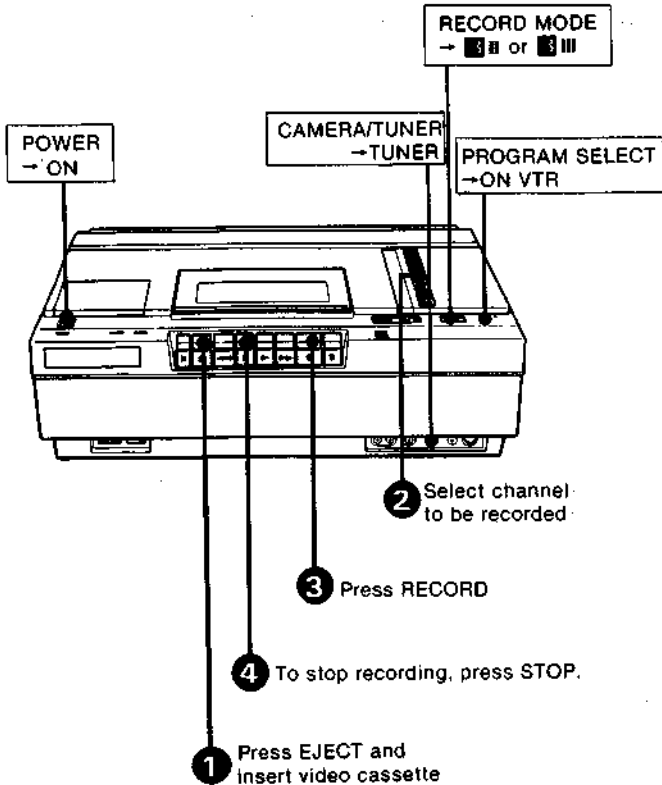
TO REMOVE A CASSETTE

- ❶ Make sure that the power is turned on and that the recorder is in the stop mode.
- ❷ Press EJECT.
- ❸ Remove the cassette.
- ❹ Press down the compartment lid.

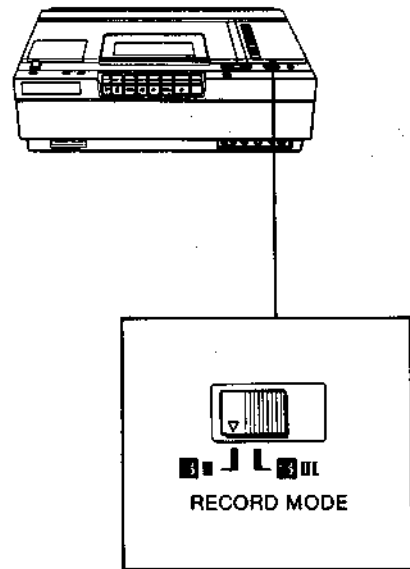
- Do not press the EJECT button while the tape is moving.

1-2-5. How to Record TV Programs

- Make the necessary preparations indicated with .
- Operate the recorder and TV following sequence of numbers circled.



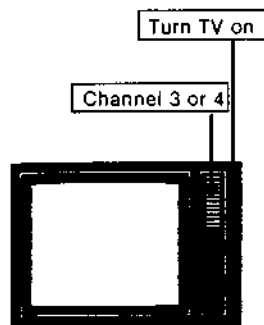
SETTING OF THE RECORD MODE SELECTOR



This switch selects the recording speed (and time) for a video cassette. The III format provides one-and-a-half times the recording length of the II format or 4 ½ hours recording (instead of 3 hours in II mode) with a L-750 cassette. The position of the RECORD MODE selector does not affect the playback speed. Recorded tapes are played back at the correct speed regardless of the position (III or II) of the selector.

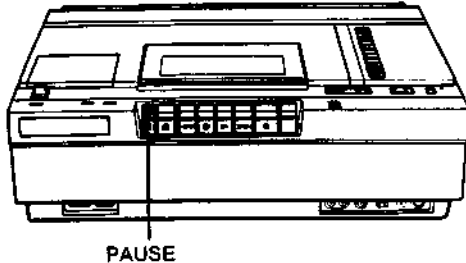
Caution

Television programs, films, video tapes and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws.



- Do not connect any audio source to the MIC jack.

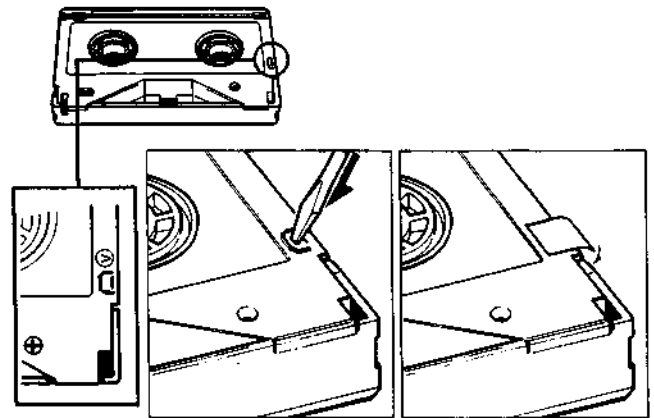
TO STOP THE TAPE MOMENTARILY DURING RECORDING: PAUSE



- 1 Press the PAUSE button
The PAUSE/FREEZE lamp will light. The pause function is electrically activated so the PAUSE button does not lock in the depressed position.
During the pause mode, you can observe the picture on the TV screen, but the picture will not be recorded.
 - 2 To resume recording, press this button again.
- After more than about 5 minutes in the pause mode of operation, the pause mode will be automatically released and recording will begin again.
 - Recordings made with the use of the PAUSE button may show momentary instability in playback at the point where the PAUSE button was pressed.
 - You may also stop the tape momentarily during recording by pressing the PAUSE button on the remote commander *BetaScan* control unit.
 - The channel being recorded can be changed in the pause mode.

IF YOU WANT TO KEEP A RECORDED PROGRAM FROM BEING ACCIDENTALLY ERASED

Break off the tab on the bottom of the video cassette using a screwdriver or similar object. With the tab removed, the RECORD button cannot be pressed, and this will prevent accidental recording over a program you want to keep. If you wish to record on a cassette with the tab removed, cover the hole with a piece of cellophane or vinyl tape.



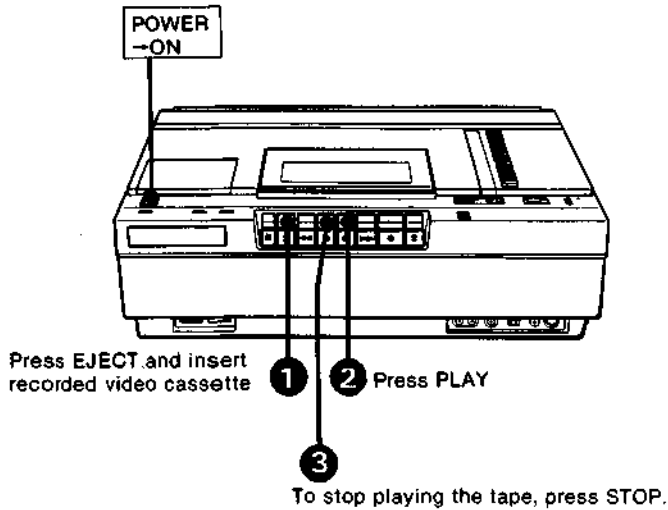
FULL AUTO REWIND

During record, playback or fast forward mode, at the end of the tape, the tape will stop automatically, the RECORD, PLAY or FF button will be released and after several seconds the tape will fully rewind.

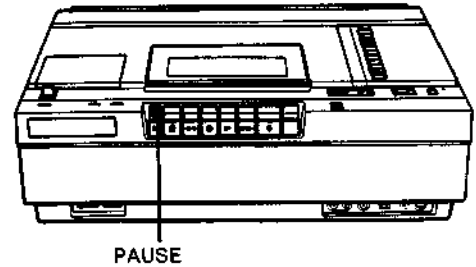
- The INDEX position of the SEARCH switch does not function during this rewind, but the MEMORY COUNTER position of this switch functions during this rewind. (For details, about the SEARCH switch, refer to page 1-10.)

1-2-6. How to Play Back a Recorded Tape

- Make the necessary preparations indicated with .
- Operate the recorder and TV following sequence of numbers circled.

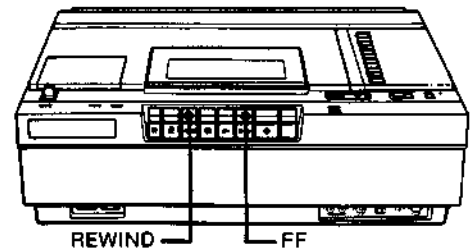


TO STOP THE TAPE MOMENTARILY DURING PLAYBACK: PAUSE



- 1 Press the PAUSE button.
The PAUSE/FREEZE lamp will light. The pause function is electrically activated so the PAUSE button is not locked in the depressed position.
During the pause mode, a freeze frame picture will appear on the TV screen.
 - 2 If a noise band appears in the freeze frame picture, obtain a slow motion picture and adjust the SLOW MOTION TRACKING control until the band disappears. (For details, see page 1-12.)
 - 3 To resume playback, press the PAUSE button again.
- After more than about 5 minutes in the pause mode of operation, the pause mode will be automatically released, and playback will begin again.

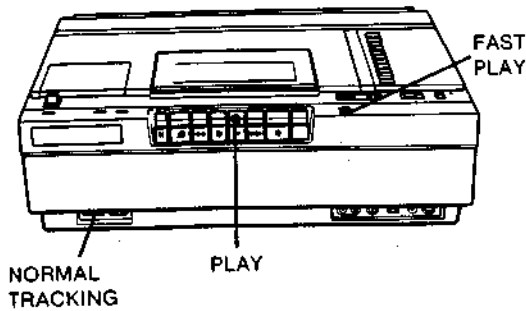
TO MOVE THE TAPE QUICKLY: REWIND, FF (FAST FORWARD)



- When the PLAY button is pressed, the PROGRAM SELECT switch is automatically set to ON VTR.
- The appropriate playback speed for the **3 II** and **3 III** formats is automatically selected.

- 1 To quickly move the tape forward (fast forward), press the FF button.
To quickly move the tape backward (rewind), press the REWIND button.
 - 2 To stop the tape, press the STOP button.
- During the fast forward or rewind mode, the picture from the connected video source, such as a TV station or camera, will appear on the TV screen.
 - In the fast forward mode, at the end of the tape, the tape will stop automatically, the FF button will be released and after several seconds the tape will rewind. In the rewind mode, when the tape is fully rewound, the recorder will stop automatically and the REWIND button will be released.
 - The recorder is designed with "logic control". You can change directly from REWIND or FF to PLAY, from FF to REWIND and from REWIND to FF without pressing STOP in between.

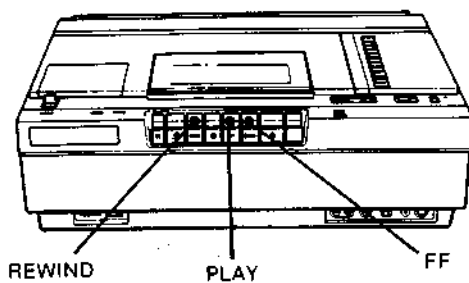
TO GET A TRIPLE SPEED PLAYBACK PICTURE: FAST PLAY



- 1 Press the PLAY button.
- 2 Press the FAST PLAY button.
The playback speed will be three times that of normal playback. The FAST PLAY lamp will light.
- 3 If a noise band appears, turn the NORMAL TRACKING control until the best picture is obtained. (See page 1-12.)
- 4 To resume normal playback speed, press the FAST PLAY button again.

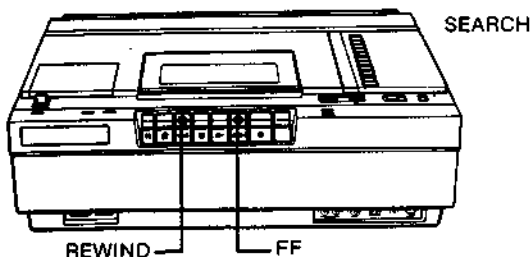
HOW TO FIND THE SCENE YOU WANT IN A LONG VIDEO CASSETTE

Getting a high-speed forward and reverse picture (Betascan operation)

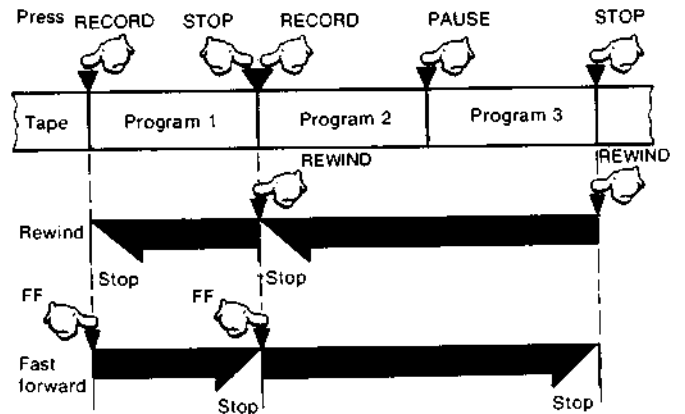


- 1 Press the PLAY button.
- 2 Press the FF or REWIND button and hold it down.
You will see the forward or reverse picture with high-speed motion on the TV screen. Streaks may appear in the Betascan playback picture, but this is normal.
- 3 At the point where you want to restart normal playback, release the FF or REWIND button.

Finding the point where recorded programs begin

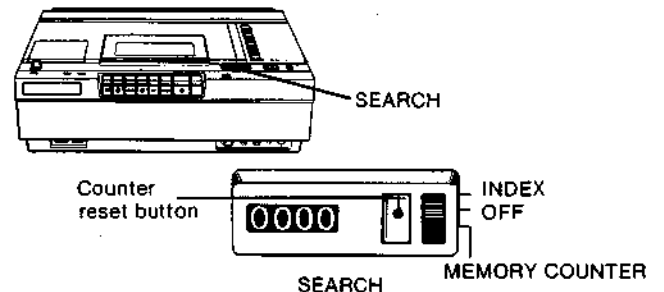


- 1 Set the SEARCH switch to INDEX.
- 2 Press the FF or REWIND button.
The tape will stop at the nearest beginning of a program, and the depressed button will be automatically released.
- 3 If the program is not the one you want, press the FF or REWIND button again.
The tape will stop at the next beginning of a program.



- This operation is possible because a cue signal is recorded on the tape each time the RECORD button is pressed. The recorder will search for the cue signal during the fast forward or rewind mode and stop when it finds the signal.
- During timer recording, the cue signal will be recorded at every starting point even though the RECORD button is not depressed at that time.
- This mechanism functions when a tape recorded on an SL-5800 or SL-5600 is used.
- There must be at least three minutes of tape at normal playback speed between cue signals. If cue signals are closer together than three minutes, the INDEX function will not operate.
- If you want to rewind the whole tape without stopping, set the SEARCH switch to the OFF position and press the REWIND button.

Finding the point where the tape counter indicates "0000"



The recorder has a tape counter. It displays a number which increases as the tape moves forward and decreases as the tape moves backwards. If you make a note of the number corresponding to a particular point on the tape, you can use the counter to help you relocate that place.

The counter also has a memory facility. To use:

- 1 Stop the tape at the point you want to return to later.
- 2 Set the SEARCH switch to the MEMORY COUNTER position.
- 3 Press the tape counter reset button.
The counter will indicate "0000".
- 4 Play or record on the tape.

- ⑤ Press the REWIND button when you want to return to that point.

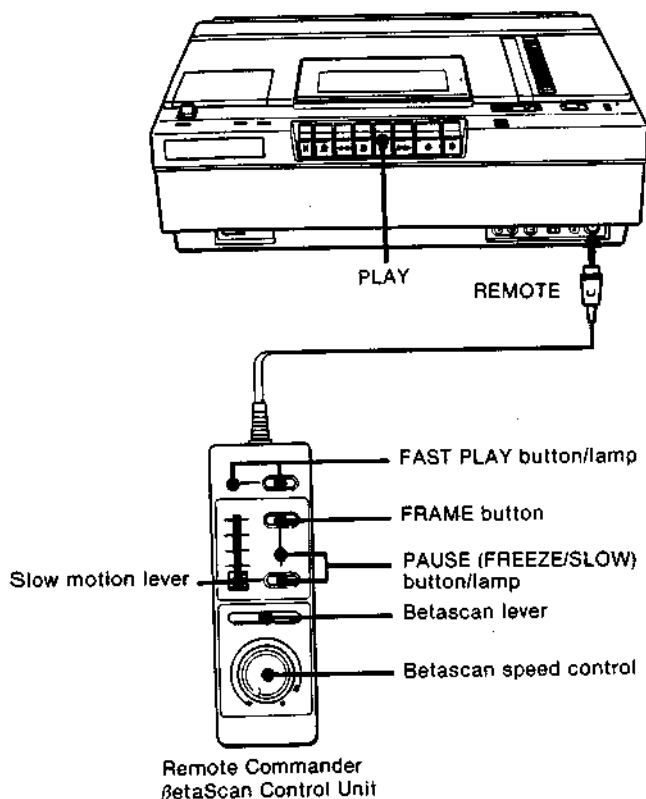
The tape will rewind and stop at a point near the tape counter reading "9999" (one count before "0000" in order to avoid missing the starting point).

- To rewind the tape further than "0000", press the REWIND button again.
- If you want to rewind the whole tape without stopping, set the SEARCH switch to the OFF position and press the REWIND button.

USING THE REMOTE COMMANDER

You can operate the still, variable speed slow motion, frame-by-frame advance, variable speed Betascan and fast play functions from your armchair using the Remote Commander BetaScan Control unit.

Align the plug with the REMOTE connector on the video recorder and insert. Then press the PLAY button.



Getting a freeze picture: PAUSE

- ① Slide the slow motion lever towards you to the FREEZE position.
- ② Press the PAUSE button.
During the pause mode, the PAUSE/FREEZE lamp lights.
- ③ If a noise band appears in the freeze picture, obtain a slow motion picture and adjust the SLOW MOTION TRACKING control. (See page 1-12.)
- ④ To resume playback, press the PAUSE button again.

Getting a slow motion picture: SLOW

- ① Press the PAUSE button.
- ② Slide the slow motion lever to a position you like. You may vary the playback speed from one thirtieth to one third (at the SLOW position) of normal speed.
- ③ If a noise band appears in the picture, adjust the SLOW MOTION TRACKING control. (See page 1-12.)
- ④ To resume normal playback speed, press the PAUSE button again.

Advancing the picture one frame at a time: FRAME

- ① Slide the slow motion lever towards you.
- ② Press the PAUSE button.
- ③ Press the FRAME button and release it
→ the picture will advance one frame.
or press the FRAME button and hold it down
→ the picture will advance continuously by one frame at a time.
- ④ If a noise band appears in the picture, obtain a slow motion picture and adjust the SLOW MOTION TRACKING control. (See page 1-12.)
- ⑤ To resume normal playback speed, press the PAUSE button again.

Looking for a particular frame or sequence at high speed forward or reverse: BETASCAN

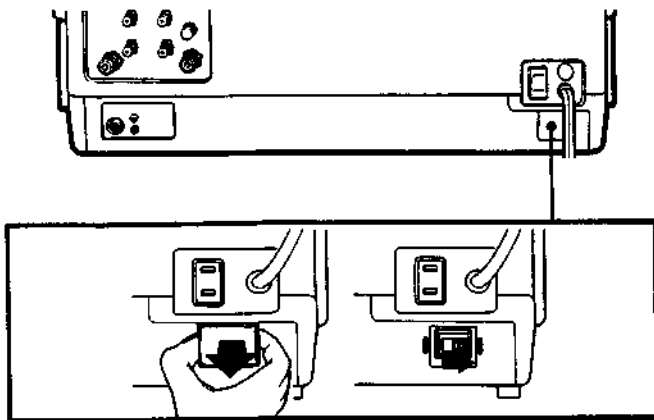
- ① Press the CUE (FF) side or the REVIEW (REW) side of the BETASCAN lever and hold it down.
You will observe a high-speed forward or reverse picture.
- ② Turn the BETASCAN speed control to the right or left to vary the Betascan playback speed from five times to twenty times normal playback speed. If you turn the control over the MAX position to the FF/REW, the recorder will enter the fast forward or rewind mode and no picture will appear on the screen.
- ③ At the point where you want to resume normal playback speed, release the lever.

- During slow motion, the recorder will enter the speed search mode when the CUE or REVIEW side of the BETASCAN lever is pressed. When the lever is released, the recorder will return to the slow motion mode.

Viewing a triple speed playback picture: FAST PLAY

- ① Press the FAST PLAY button.
 - ② If a noise band appears, adjust the NORMAL TRACKING control. (See page 1-12.)
 - ③ To resume normal playback speed, press the FAST PLAY button again.
- After the fast playback is finished, return the NORMAL TRACKING control to the center detent position.

TO PLAY BACK TAPES RECORDED IN THE **BI** FORMAT



You may play back tapes recorded in the BI format with this recorder. To do this

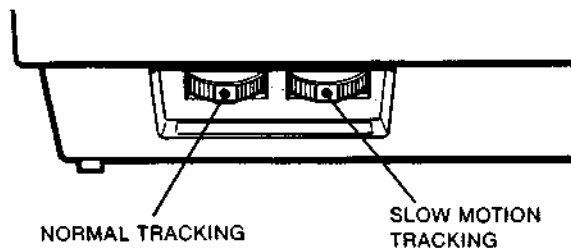
- 1 Remove the plastic cover at the rear. You will find a tape speed switch.
 - 2 Set the switch to the BI position.
 - 3 When playback of this particular tape is finished, reset the switch to its original position (BI/BIII).
- During playback of a tape recorded in the BI format, the BetaScan operation and fast play do not function, and a freeze picture cannot be obtained in the pause mode.

IF STREAKS OR SNOW APPEAR IN THE PLAYBACK OF TAPES OR IN THE FAST PLAY PICTURE

Turn the **NORMAL TRACKING** control first in one direction, then in the other, until you get the best possible picture. Allow a second or two for the new settings to take effect. When playback of this particular tape or the fast play is finished, return the **NORMAL TRACKING** control to its center detent position.

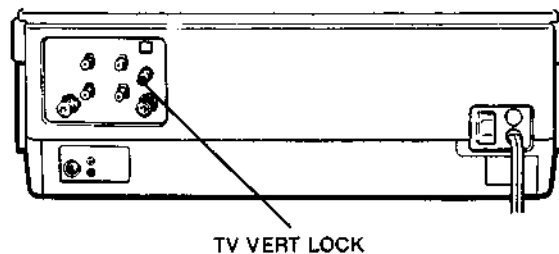
IF A NOISE BAND APPEARS IN THE PAUSE, FRAME-BY-FRAME OR SLOW MOTION PICTURE

- 1 Make sure you have connected the BetaScan control unit and obtain a slow motion picture. (To get to a slow motion picture from a freeze picture, slide the slow motion lever away from you.)
- 2 Watching the slow motion picture, turn the **SLOW MOTION TRACKING** control until you get the best possible picture.
- 3 Return the recorder to the previous mode or continue in slow motion, as desired.



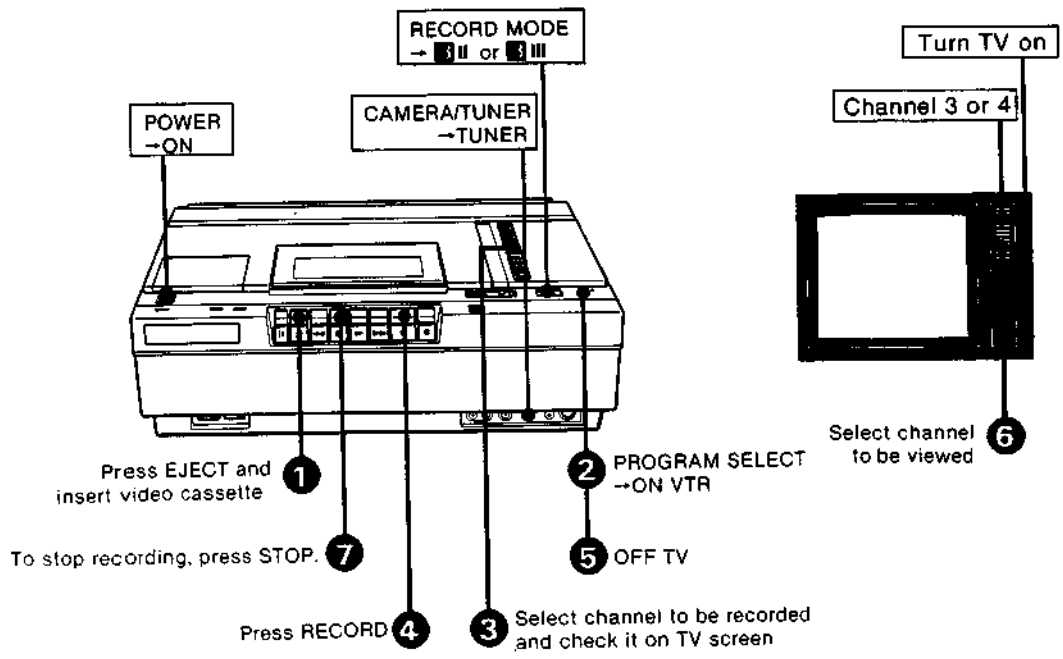
IF A VERTICAL JITTER APPEARS IN THE PAUSE, FRAME-BY-FRAME OR SLOW MOTION PICTURE

- 1 Obtain a freeze picture. (To get a freeze picture from slow motion picture, slide the slow motion lever on the BetaScan control unit toward you to the FREEZE position.)
- 2 Watching the freeze picture, adjust the **TV VERT LOCK** control for the best possible picture.
- 3 Return the recorder to the previous mode.



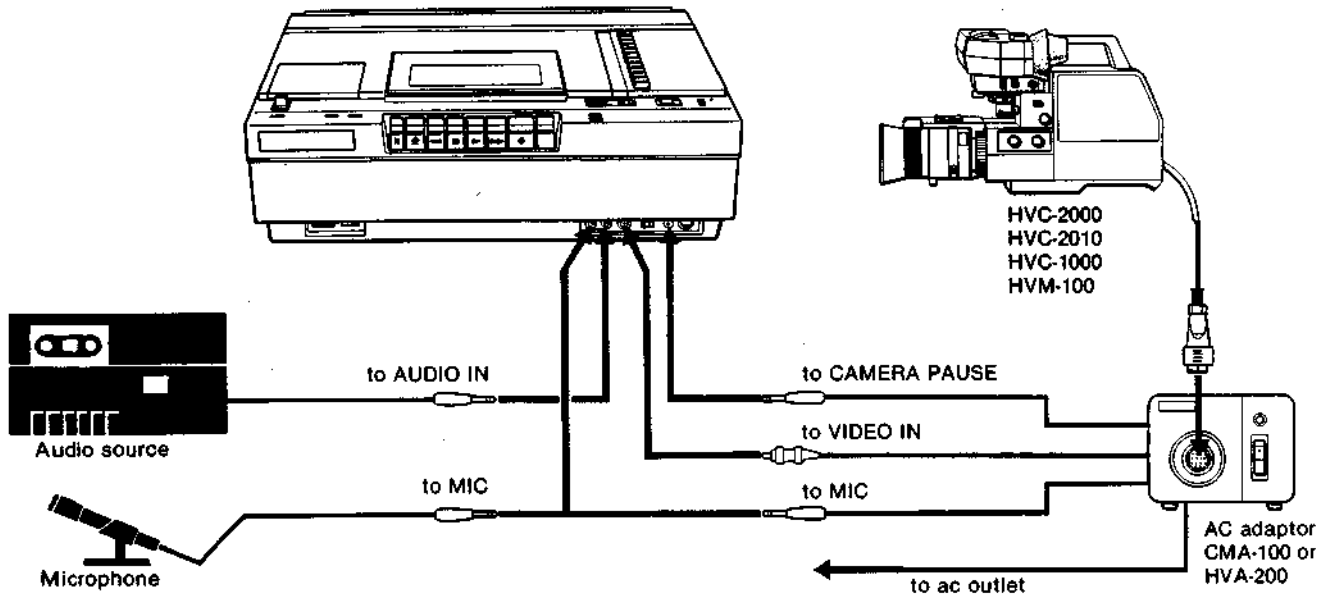
- Once you adjust the **TV VERT LOCK** control, you do not have to adjust it again unless you change the connected TV receiver.

1-2-7. How to Record one TV Program While Viewing Another



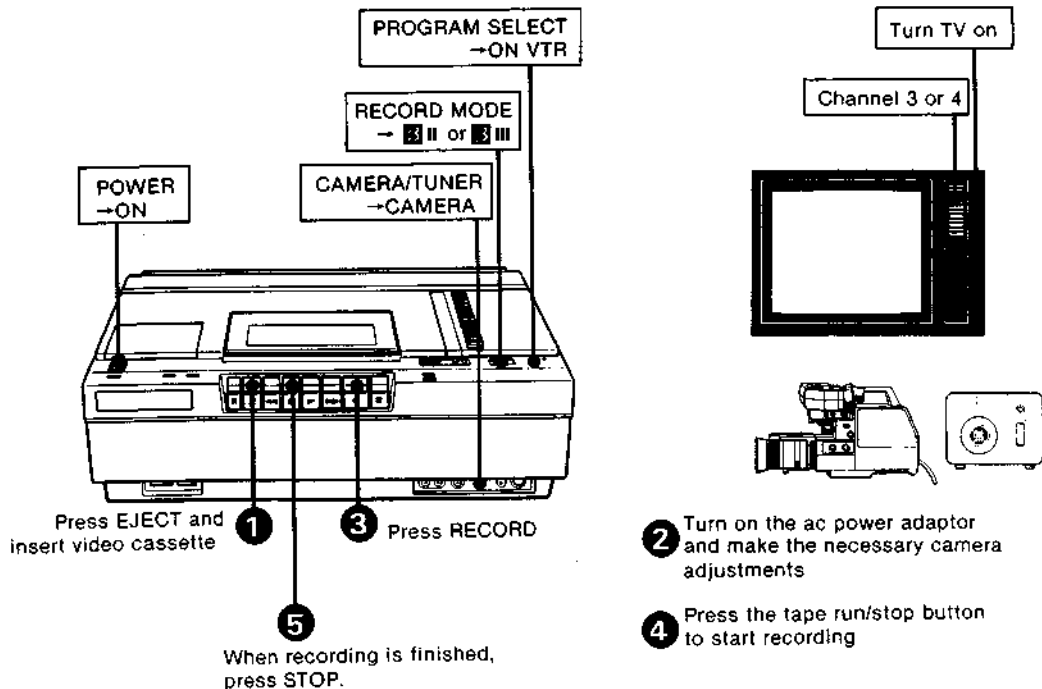
1-2-8. How to Use Your Recorder for Camera Recording

CONNECTIONS



- Cameras connected must conform to American TV (EIA) standards.
- Plug a microphone into the MIC jack or plug any other audio source into the AUDIO IN jack. If both a microphone and another source are connected, the tape will record only the microphone's input.

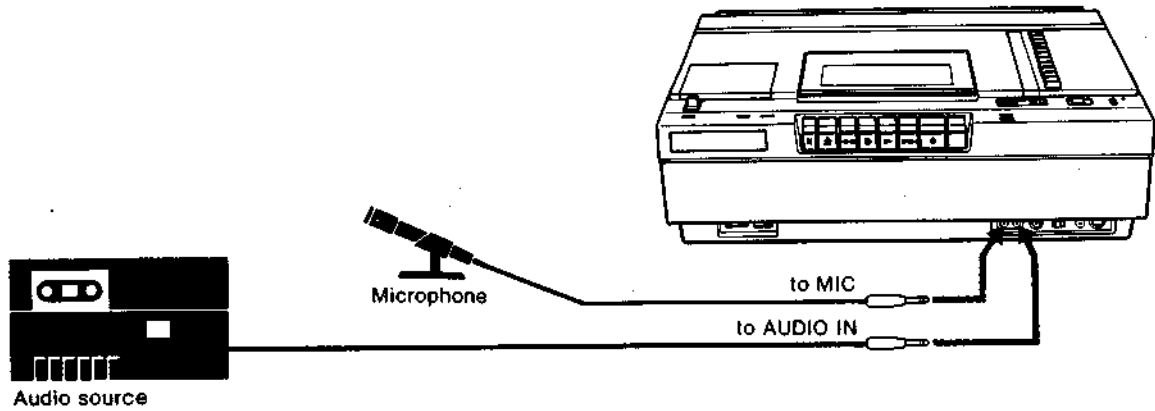
OPERATION



- When the HVC-2000, HVC-2010, HVC-1000 or HVM-100 is used, you may start and stop recording using the remote control switch on the camera. When you connect other cameras, we recommend that you use the PAUSE button on the BetaScan control unit.
- For details about camera recording, refer to the instruction manual supplied with the camera.

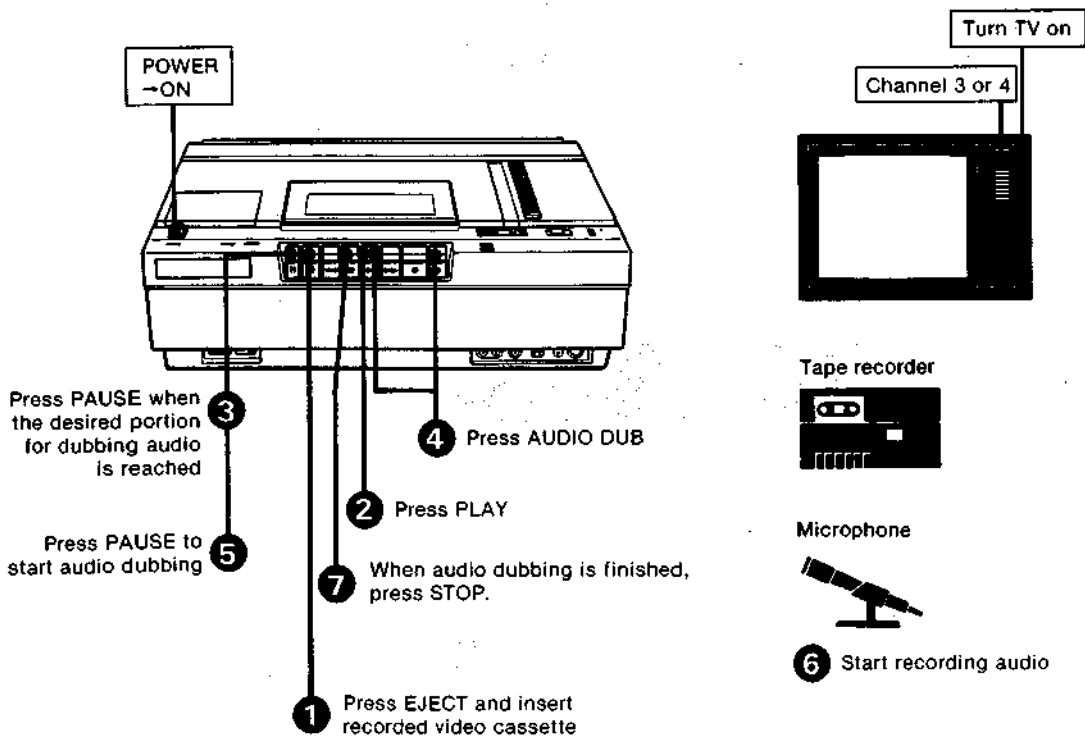
1-2-9. How to Dub Audio Onto a Previously Recorded Tape

CONNECTIONS



- If both a microphone and another audio source are connected, the tape will record only the microphone's input.

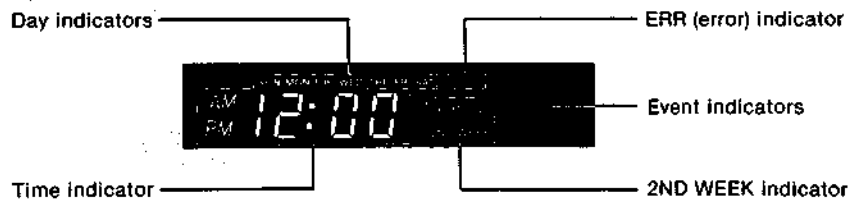
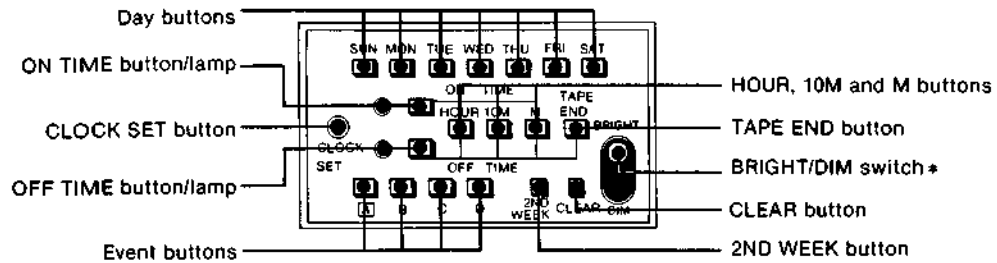
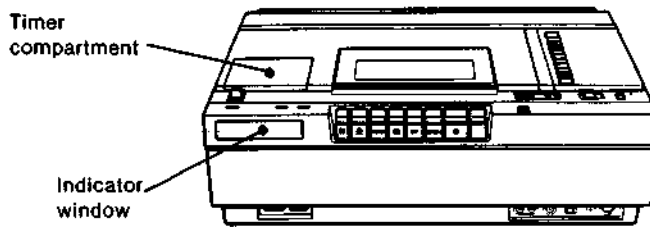
OPERATION



- TV volume should be turned down to prevent acoustic feedback (whistle-like sounds).
- When dubbing from the beginning of the tape, press the PLAY button first, then press the AUDIO DUB button.

1-2-10. How to Record Using the Timer

Using the timer, recordings of up to four events occurring within two weeks can be made automatically even when you are not at home. For timer recording, you have to set the clock time first and then you have to set the timer: turn-on time, day and turn-off time. Open the lid of the timer compartment, for access to the buttons and lamps you will use to make the necessary settings.



*** BRIGHT/DIM switch**
Select the brightness of the time indicator, BRIGHT or DIM.

TO SET THE CLOCK TIME

When the recorder is plugged in, the indicator window will show

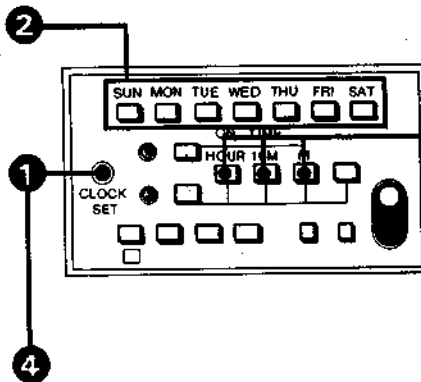


and the dots will blink.

The clock time must first be set to the correct day and time of day. Open the timer control compartment to expose the controls and follow the steps.

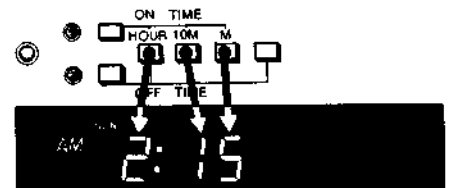
Depress the Day button of today. **2**

Depress the CLOCK SET button. This button should be depressed continuously from step **2** through step **3**.



Depress the HOUR, 10M and M buttons until the clock time indicator shows the present time. **3**

Release the CLOCK SET button at a time signal from a broadcast or telephone. The clock time is now set and will maintain the correct present time. **4**



- In step **3**, first keep the button depressed to advance the digits, then push it and release it immediately as the desired indication approaches.

- You may have to go through a complete 12 hour period to set the correct AM or PM period. "PM 12:00" indicates noon; "AM 12:00" indicates midnight.

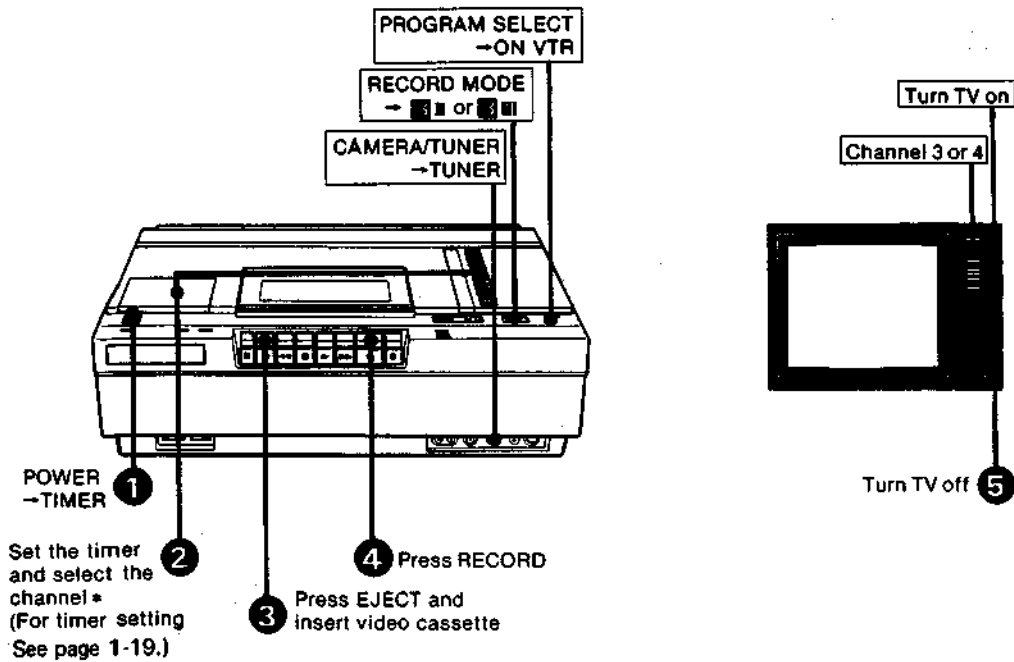
- Whenever the CLOCK SET button is depressed, the clock is set back to 0 second of the current minute; when released, the clock begins to operate. Avoid unnecessary pressing of this button as it may result in a retarded clock setting.

- When the CLOCK SET button is released, the upper dot begins blinking; after 30 seconds, the upper dot stops blinking and the lower dot blinks.

- The clock time and the timer settings are maintained when power is interrupted or the ac power cord is disconnected for less than 10 minutes. (The recorder must have been plugged in for at least 30 hours before a power interruption if the power-backup-battery is to function.)

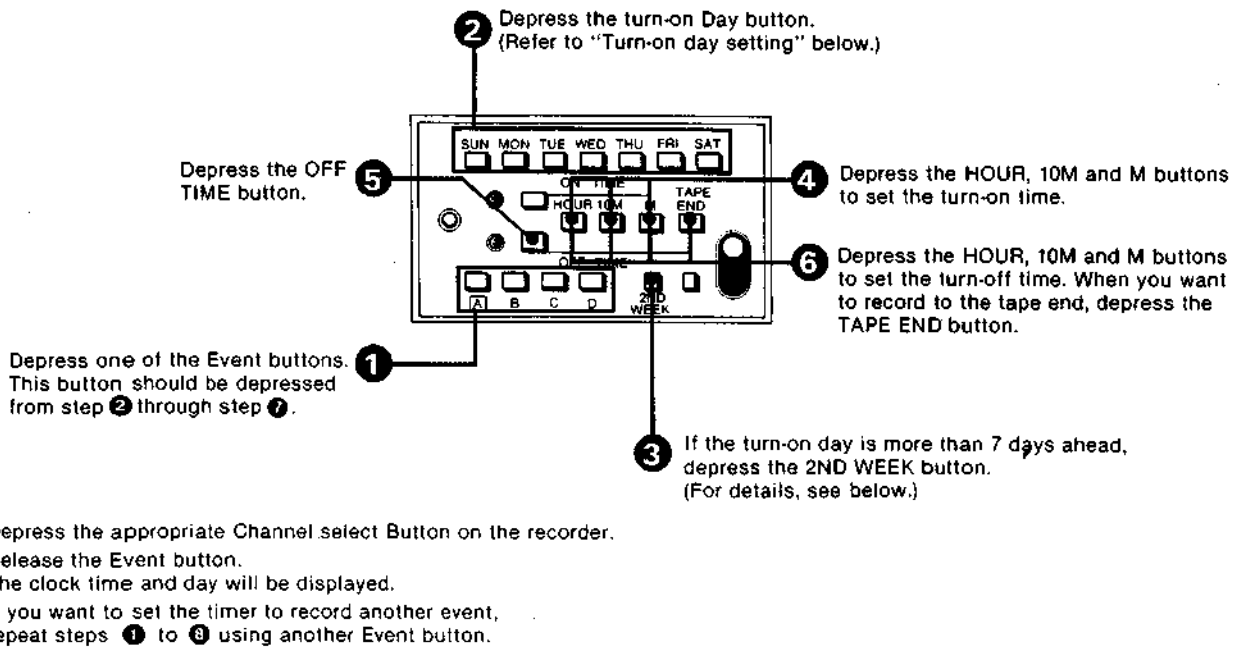
For details, see page 1-20.

OPERATION



- After the tape has run out, the recorder will shut off automatically and be turned off after about 30 seconds.
- To remove the videocassette, first set the POWER switch to ON, then press the EJECT button. If the tape is not recorded to its end, be sure to press the STOP button before the EJECT button.
- While timer recording, the channel cannot be changed.

TO SET THE TIMER



Turn-on day setting

The turn-on day may be set for a particular day of the week or for every day. The indicator will light to indicate the turn-on day.

Day Indicator

An Event button is depressed. Recording will be started every day at the same setting time. SUN MON TUE WED THU FRI SAT

If you want to start recording on Wednesday, depress the SUN MON TUE WED THU FRI SAT button.

If you want to change the turn-on day to Tuesday, depress the SUN MON TUE WED THU FRI SAT button.

If you want to change the turn-on day to every day, depress the Day button whose indicator is lighting. SUN MON TUE WED THU FRI SAT

• An everyday setting on an Event button will be memorized until you reset or clear it. Recording will be started everyday at the same setting time.

If you want to record an event occurring at the same hour on consecutive weeks

Set the timer of the event on Event button A. A one day setting on Event button A will be memorized and the recording will be repeated every week. One day settings on Event buttons B, C and D will be cleared after the recording is made.

When to use the 2ND WEEK button

Suppose you were setting the timer on Tuesday, December 9 at 10:00 a.m.

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

1980/12 DECEMBER

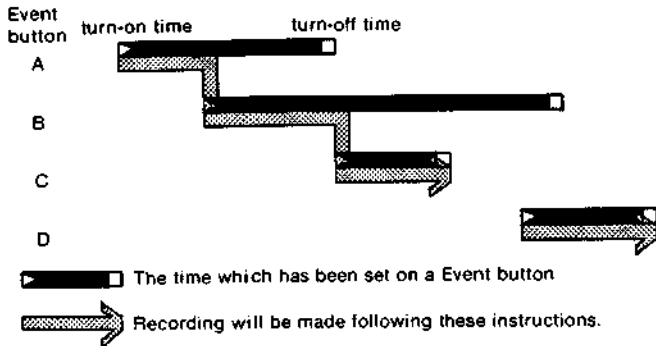
SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Depress the 2ND WEEK button for recordings to be made on these days: from 10:01 a.m on 16th to 10:00 a.m. on 23th.

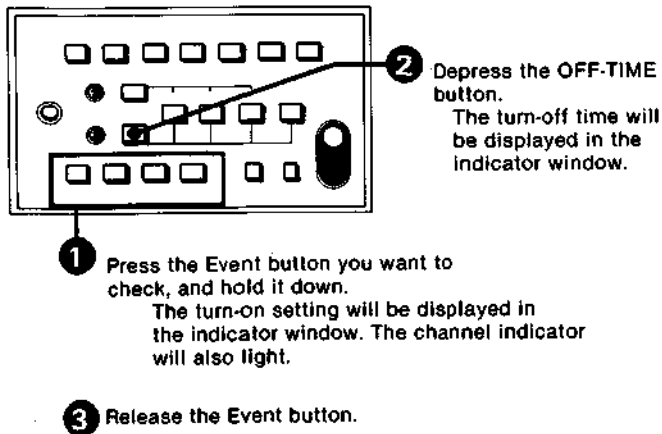
When the Event indicators and ERR lamp blink

This means that the timer settings on more than two Event buttons are overlapped. Check and reset the timer settings. If recording starts with the lamps blinking, it will proceed according to the illustration. If the same turn-on day and time is set on several buttons, the priority is A, B, C and D.

● When the turn-off time of the overlapped buttons is the tape end, the lamps do not blink.



TO CHECK THE TIMER SETTING OF AN EVENT

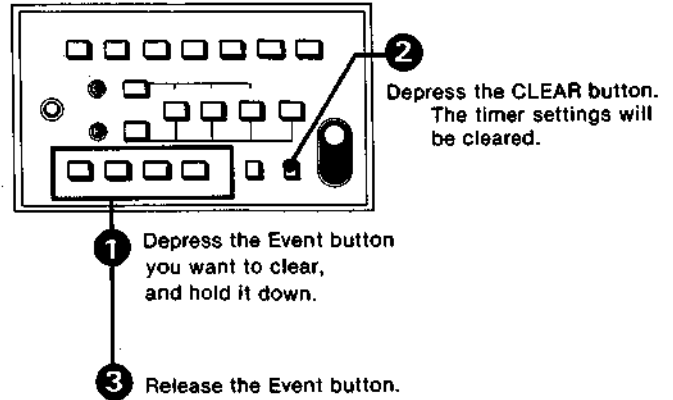


● If the turn-off time is displayed and you want to check the turn-on time, hold the Event button down and press the ON-TIME button.

When "--:--" is displayed

The timer setting has not been made. Set a turn-on or turn-off time. If a turn-off time is not set, recording will continue to the tape end.

TO CLEAR THE TIMER SETTING ON AN EVENT BUTTON



WHEN THE DOTS BETWEEN THE HOUR AND MINUTES FIGURES BLINK QUICKLY

The setting of the clock time and timer are required since the recorder was plugged in or the power interruption has occurred. This machine has a power backup battery which maintains the clock and timer settings during a power interruption for less than ten minutes. For the battery to operate, power has to be supplied to the recorder for more than 30 hours before the power interruption.

If a power interruption of less than 10 minutes has occurred.

The clock time and timer settings will be maintained. Press the CLOCK SET button to stop the dots blinking. It may be a good idea to check the clock time, timer and the channel to be recorded. If the power interruption has occurred during timer recording, the recording is stopped and will be started when the power is resupplied.

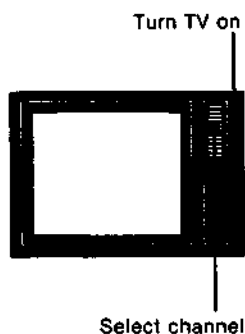
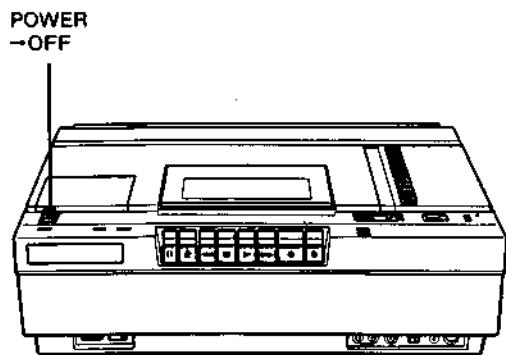
If a power interruption of more than 10 minutes has occurred.

The clock time and timer settings will be cleared. When the power is resupplied, the clock time will indicate



The dots blink and recording will not start. Set the clock time, timer and the channel to be recorded.

1-2-11. How to Watch Television when the Recorder is Connected



You can also view the TV using the tuner built into the SL-5800 according to the following procedure.

- ① Set the recorder POWER switch to ON.
- ② Set the PROGRAM SELECT switch to ON VTR.
- ③ Set the channel selector of the TV to channel 3 or 4.
- ④ Select the desired channel using the SL-5800 channel select button.

- With this procedure, you can start the recording of a TV program by merely pressing the RECORD button.
- The distance between the SL-5800 and the TV may be extended using an RFC-8 Extension Cable (optional).

CONNECTIONS TO A CABLE TV (CATV) SYSTEM

● It is recommended that you consult with your cable television company for proper connection of your Betamax unit to your cable TV system.

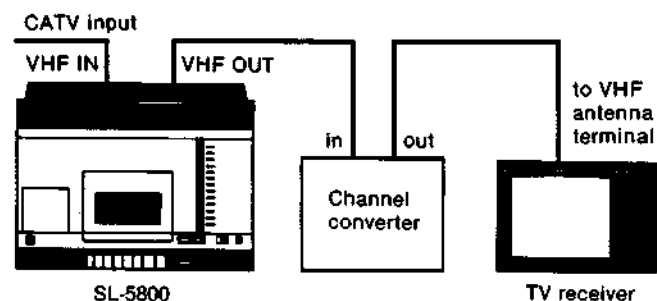
● Before operating the recorder with a cable-TV system, set the RF UNIT channel selector on the recorder to channel 3 or 4, whichever is not active in your area. If both channels are viewable, check which gives better results by switching between channels 3 and 4.



In the above configuration, you can record programs from all CATV channels as well as VHF channels 2 through 13.

Set the TV channel selector to that of the RF UNIT channel selector. Set the channel select button on the recorder to receive the output channel of the converter. Set the PROGRAM SELECT switch on the recorder to the VTR position.

With this connection, the channel to be viewed or to be recorded is selected on the converter.



In this configuration, you can view one program from the converter while recording a program on VHF channels 2 through 13 via the recorder. Set the TV channel selector to the output channel of the converter and the PROGRAM SELECT switch to TV.

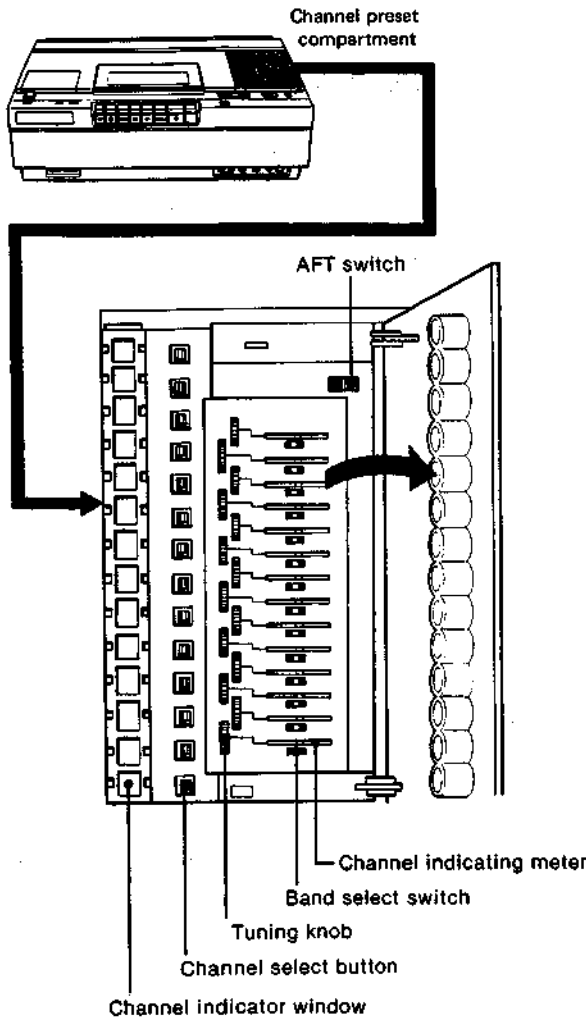
For playback, set the channel selector on the converter to that of the RF UNIT channel selector.

When channel converter is not used, connect the CATV input to the recorder, then connect the recorder and the TV receiver as shown in the previous TV connection diagrams.

TO PRESET THE RECORDER TO THE TV STATIONS IN YOUR AREA

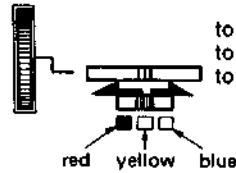
The channel select buttons marked A through N are pre-adjusted at the factory to VHF channel 2-13 and two UHF channels. These pre-adjusted channels may be set up to receive any local station, VHF or UHF.

Once preset, you may select any channel just by pressing the channel select button on the top panel. The recorder will stay preset even if the power to the recorder is disconnected.



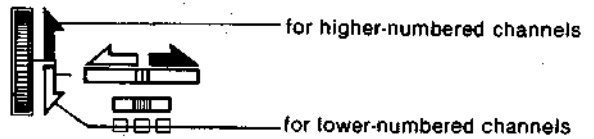
- 1 Make sure of the following:
 - a) that the VHF and UHF antenna and the TV receiver are connected. (See page 1-4 and 1-5.)
 - b) that your recorder is plugged in.
 - c) that your TV receiver and recorder are turned on.
 - d) that the CAMERA/TUNER is set to TUNER.
 - e) that the PROGRAM SELECT switch is set to ON VTR.
 - f) that the TV receiver is set to channel 3 or 4.
- 2 Open the channel preset compartment.
- 3 Set the AFT switch to OFF.
- 4 Push the channel select button on the recorder to be preset. The associated channel indicator will light.

- 5 Set the band select switch associated with the pushed button (if button A is pushed, use switch A) to one of the three color-coded positions:



to tune in channels 2 through 6, set to red.
to tune in channels 7 through 13, set to yellow.
to tune in channels 14 through 83, set to blue.

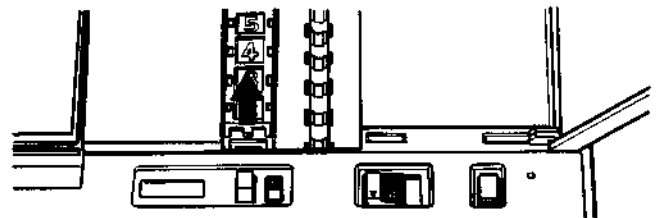
- 6 Turn the tuning knob watching the TV screen.



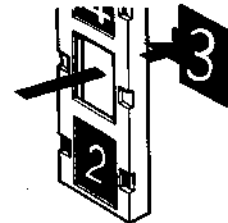
When the picture appears, slowly turn the tuning knob in the opposite direction until a herringbone pattern appears in the colored part of the picture, then turn the knob back until the herringbone pattern just disappears and the picture is clear.

The channel indicating meter will show you the approximate channel.

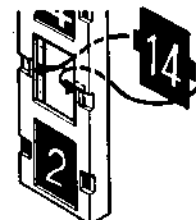
- 7 Repeat steps 4, 5 and 6 for the other channel select buttons. To identify the channels, consult a newspaper or TV program guide.
- 8 Set the AFT switch to ON when all stations have been set up as desired.
- 9 Remove the channel number sheet from the channel indicator window.



- 10 Remove the number segment by pressing it out from the front.



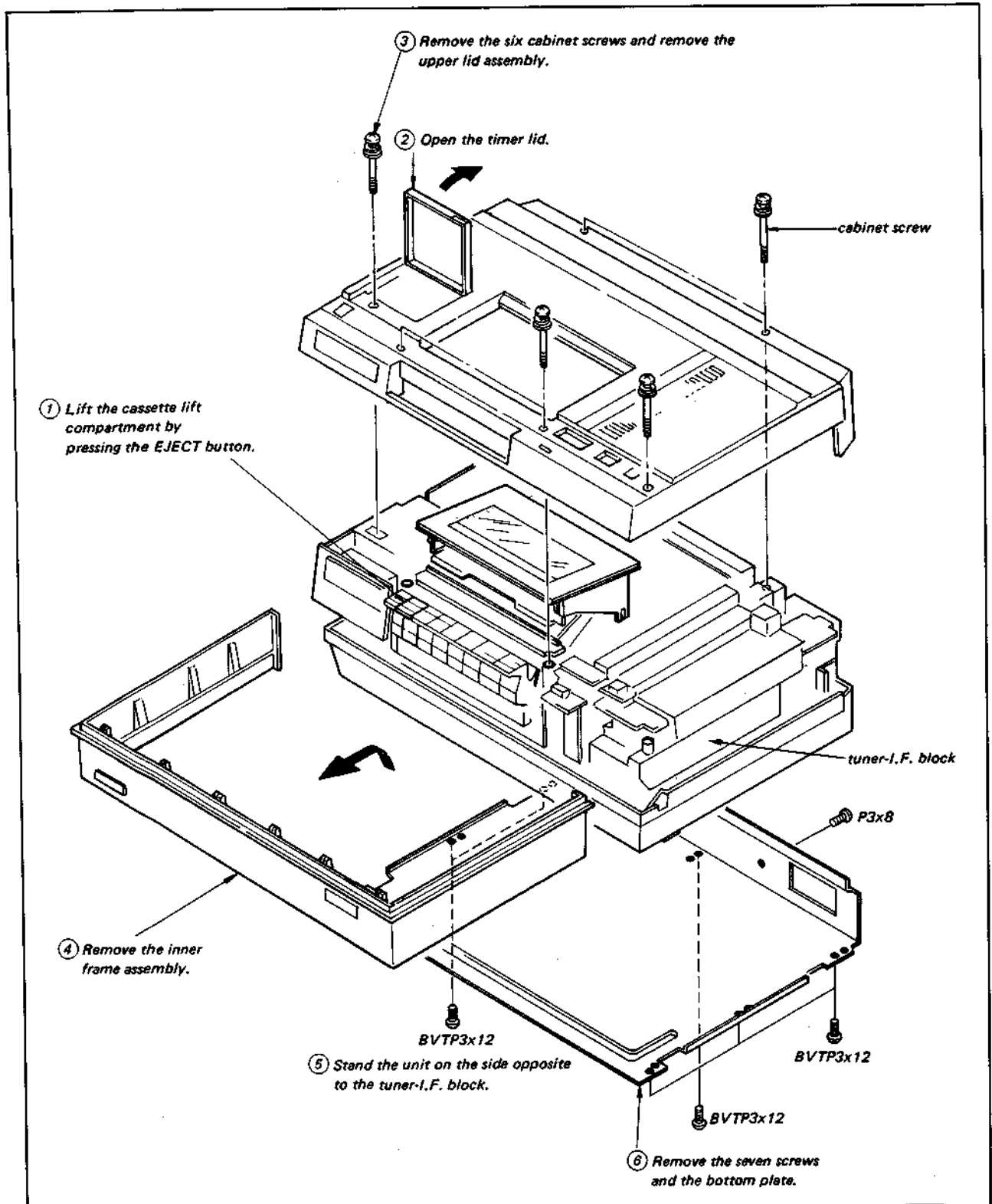
- 11 Install the correct number segment. An asterisk (*) segment may be used to indicate an inactive channel.



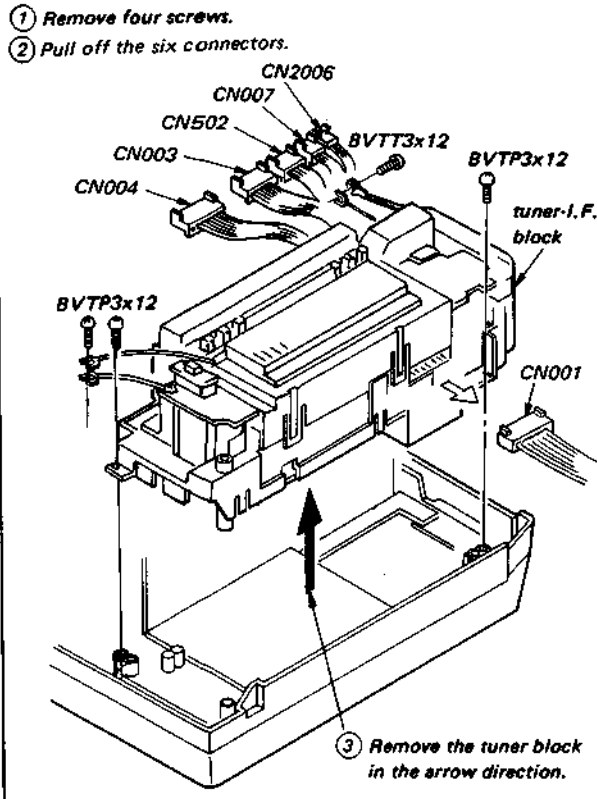
- 12 Replace the sheet.

1-3. DISASSEMBLY

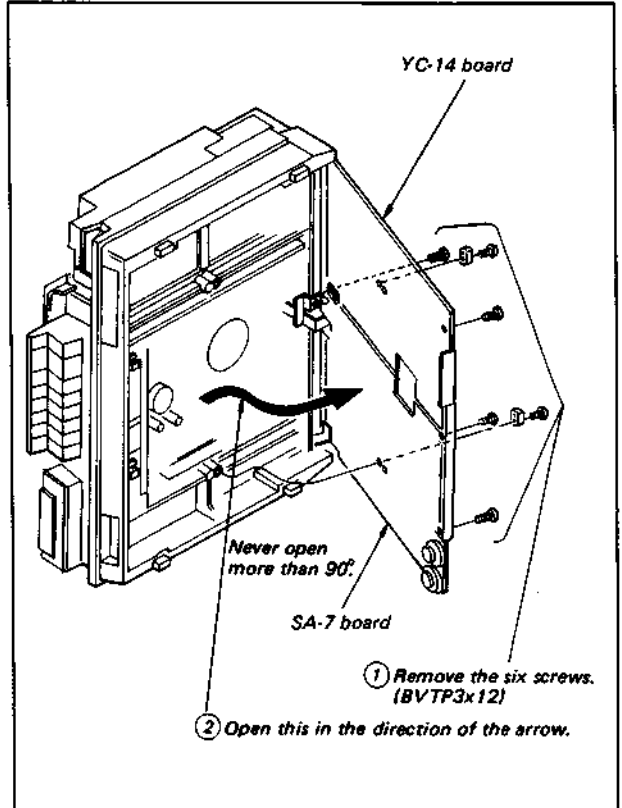
1-3-1. Cabinet Removal



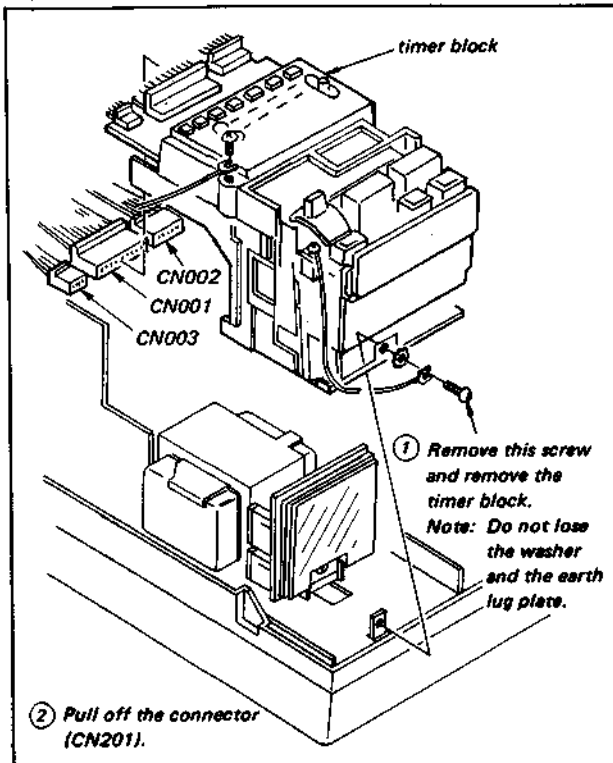
1-3-2. Tuner-I.F. Block Removal



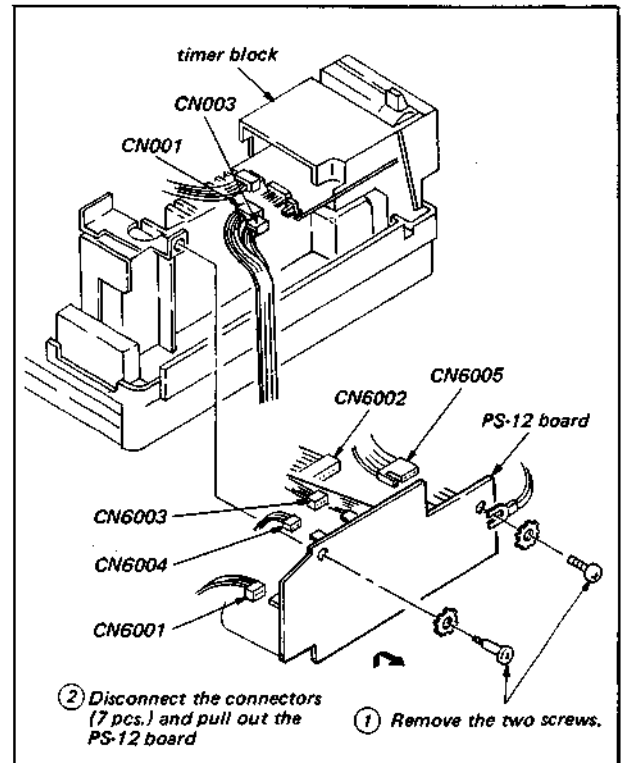
1-3-4. Check of YC-14 and SA-7 Boards



1-3-3. Timer Block Removal



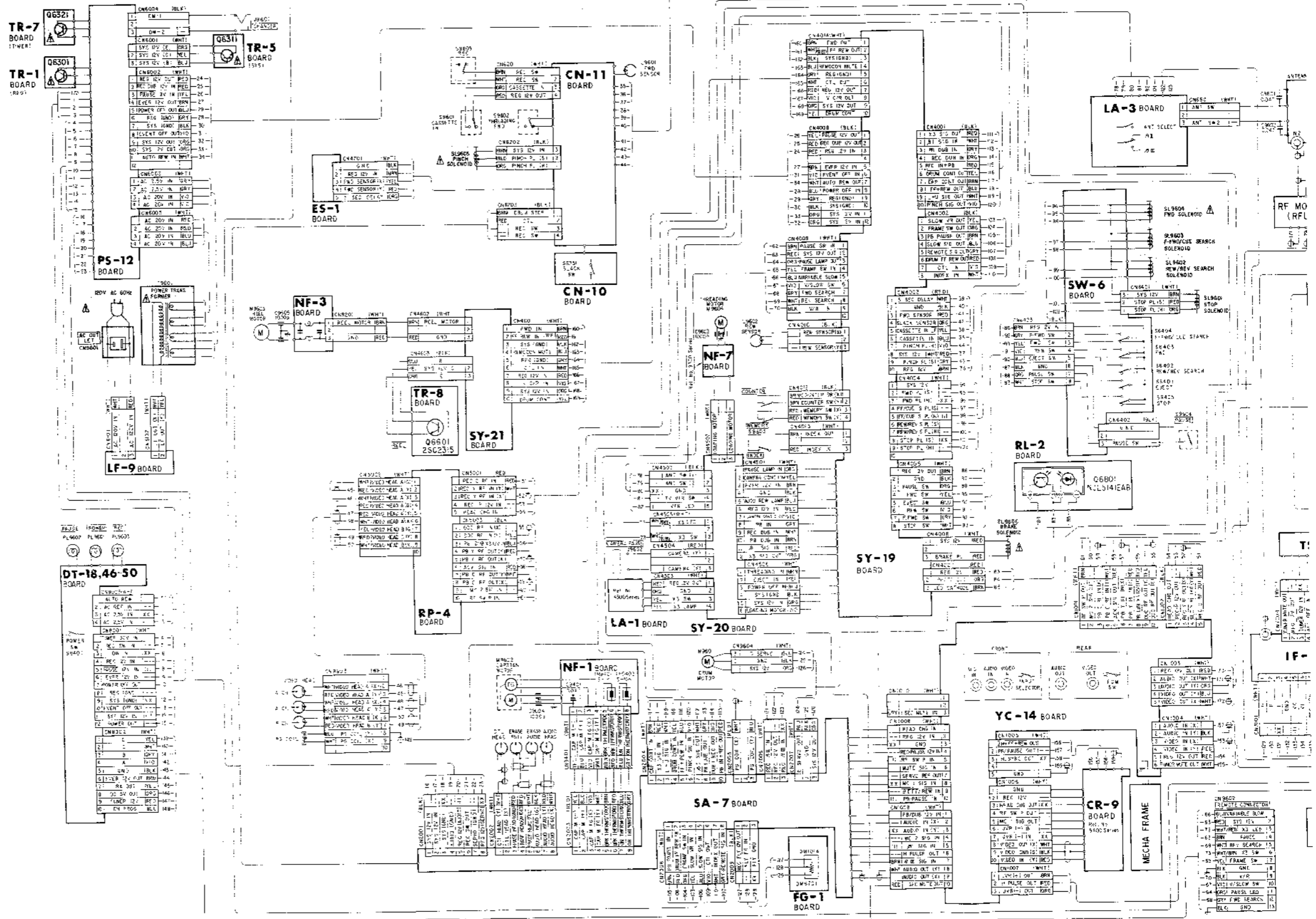
1-3-5. Check of PS-12 Board

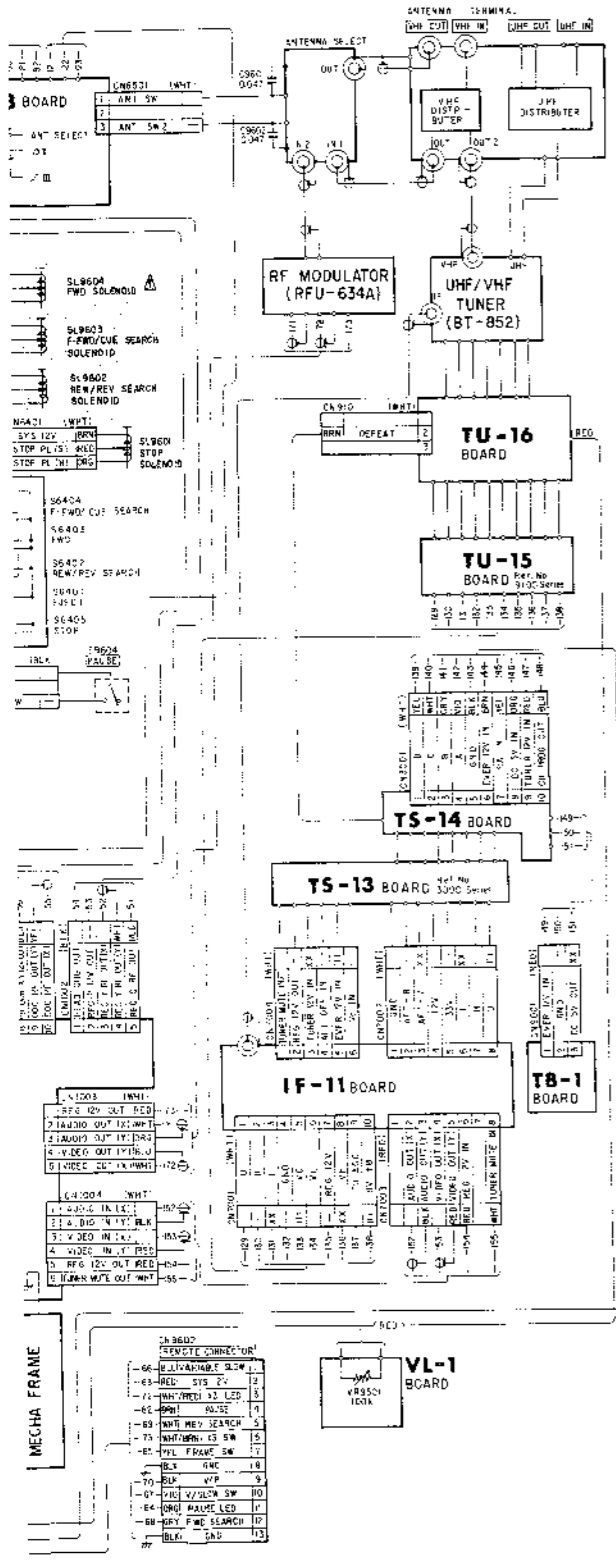


SECTION 2

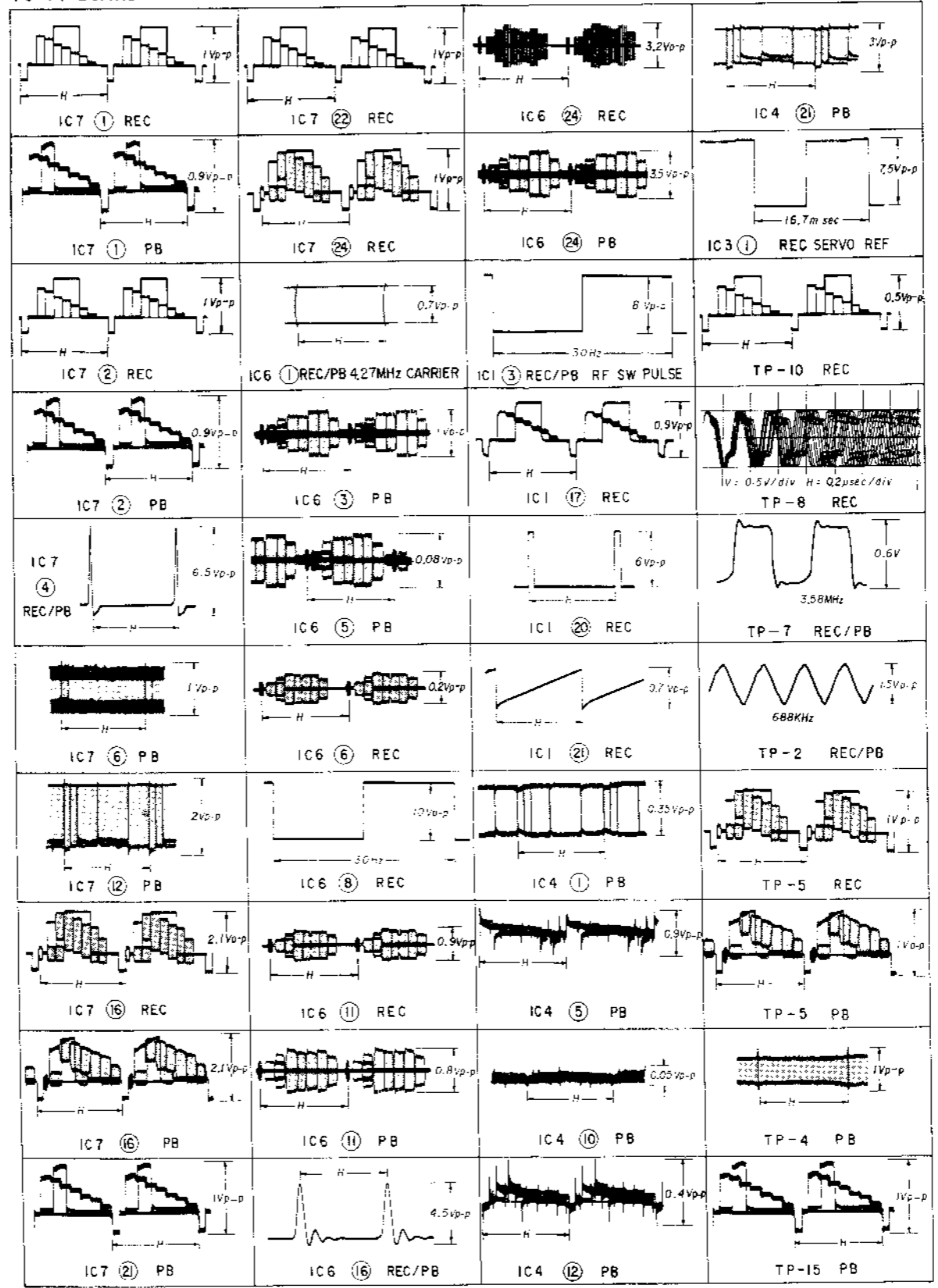
PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

FRAME SCHEMATIC DIAGRAM
- Ref. No. CHASSIS: 9600 series -

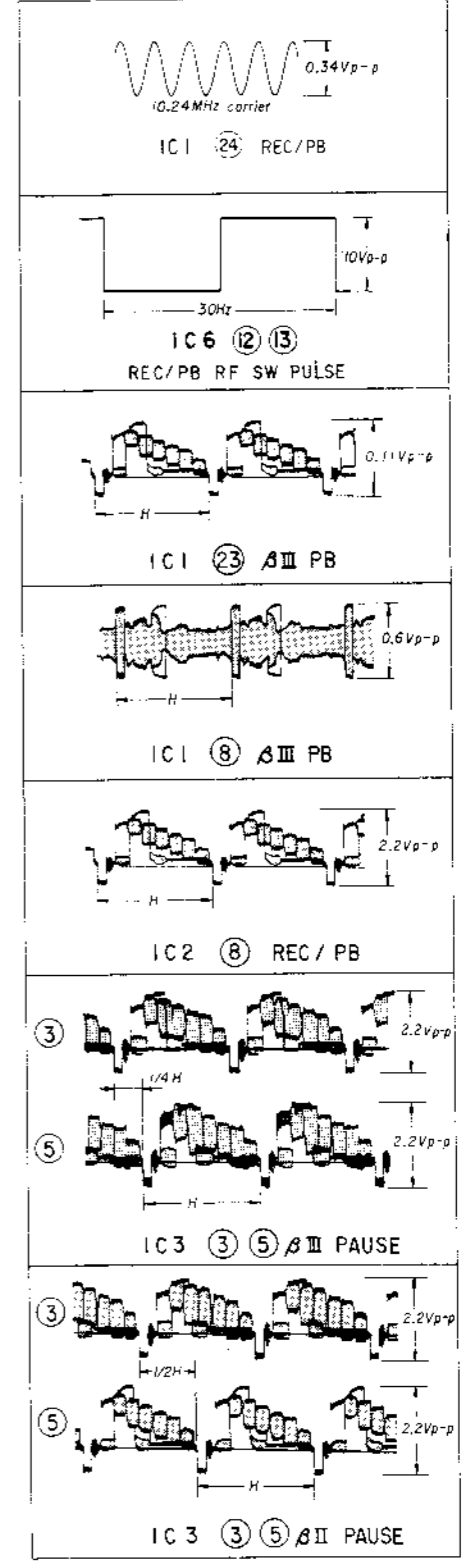




YC-14 BOARD



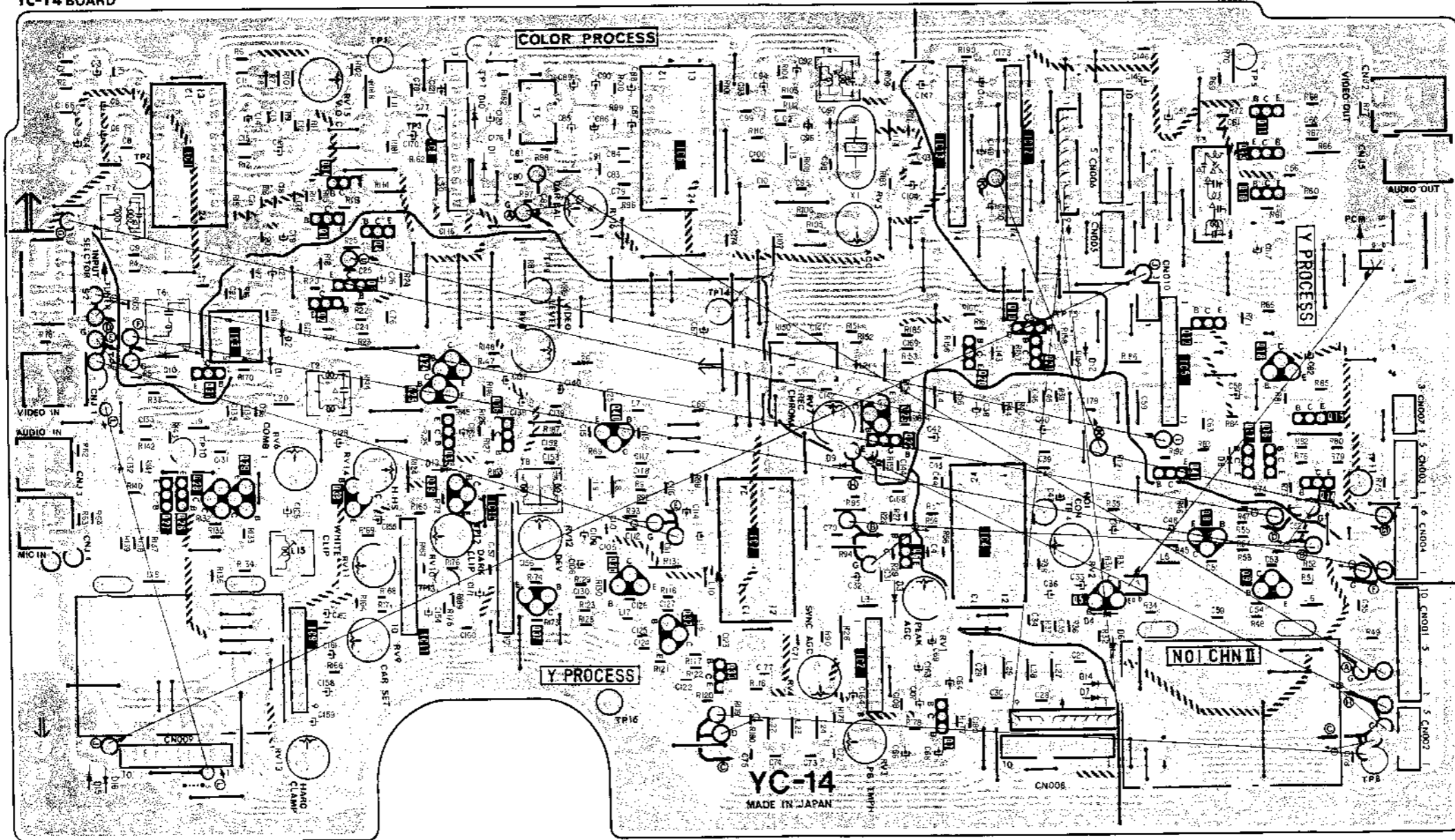
CR-9 BOARD



YC-14 (Y & CHROMA SIGNALS RECORD/PLAYBACK PROCESS), RP-4 (RF RECORD/PLAYBACK AMPLIFIER), CR-9 (BETASCAN - CUE/REVIEW-) AND VL-1 PRINTED WIRING BOARDS
 - Ref. No. YC-14 BOARD: 1000 series RP-4 BOARD: 5000 series CR-9 BOARD: 5400 series VL-1 BOARD: 9500 series -

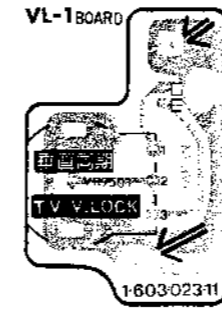
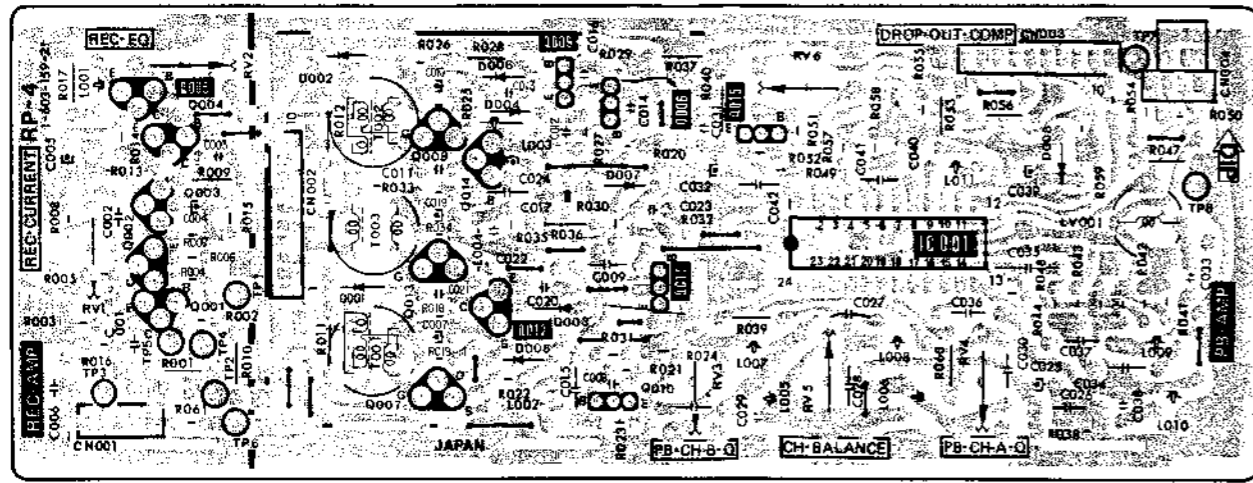
Q	IC1	IC3	34	3	4	24	36	40	IC6	23	IC13	IC12	21	IC5	12	13	18	15	Q							
IC	27,26	31	28	29	38	IC11	35	39	IC10	37	40	30	32	33	IC7	22	6	IC4	5	41	8	17	16	14	IC	
D	15	16	1	2	10	11	9	3	12	14	4	6	7	8					D							
ADJ																										ADJ

YC-14 BOARD



RP-4 BOARD

Q, IC	005 003 002 001	004	008 013 012	009 014 012	006 011 010	015 IC001	Q, IC
D		002	007	006 004 003	007	008	D
ADJ	RV1 RV2				RV3 RV6 RV5	RV4 LV001	ADJ



β II REC MODE

Q	15	16	20
B	0	0.7	7
C	8.1	0	3.8
E	GND	GND	3.8

β II PB MODE

Q	15	16	20
B	0	0.7	7
C	H	0	0
E	GND	GND	0

β III PAUSE MODE

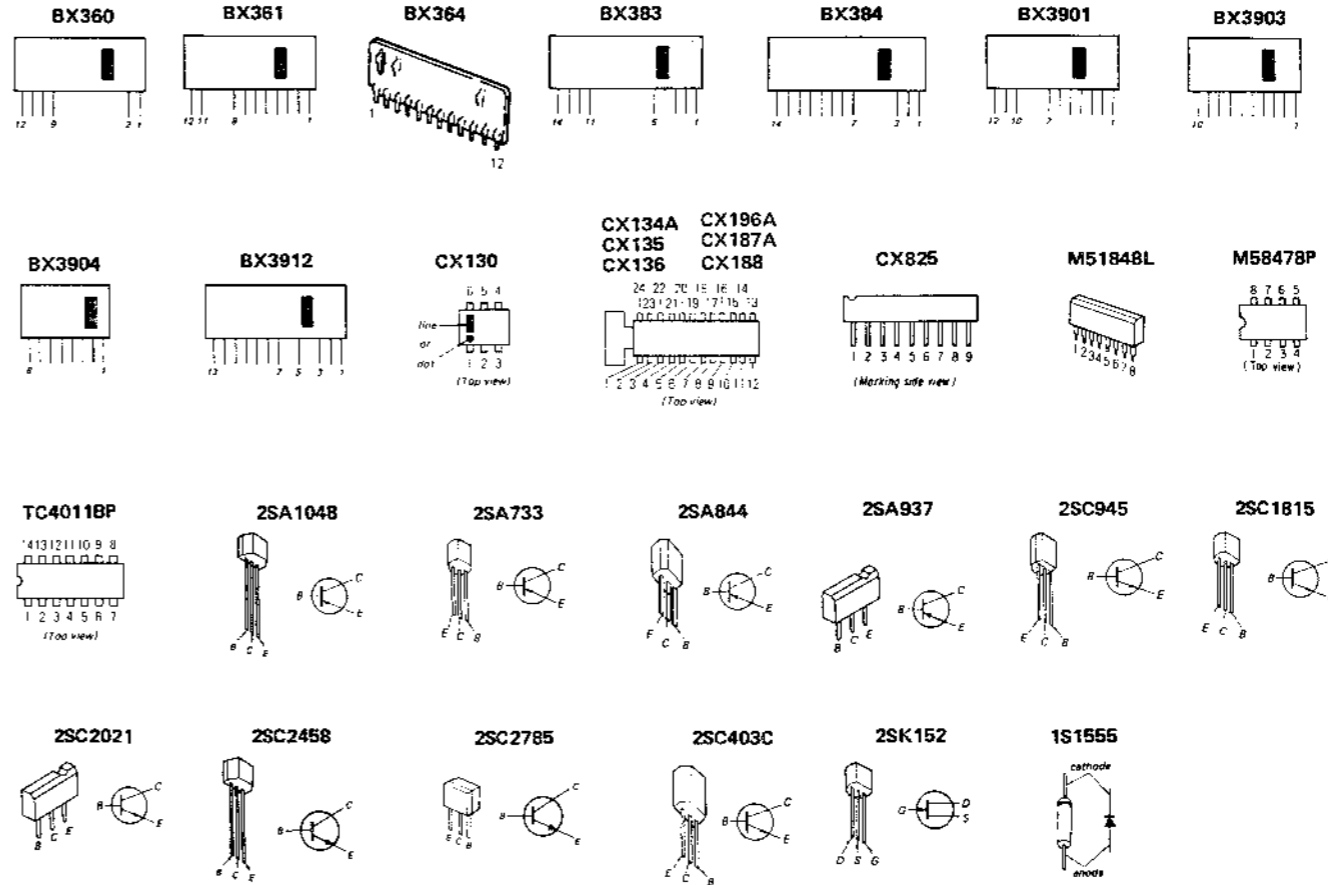
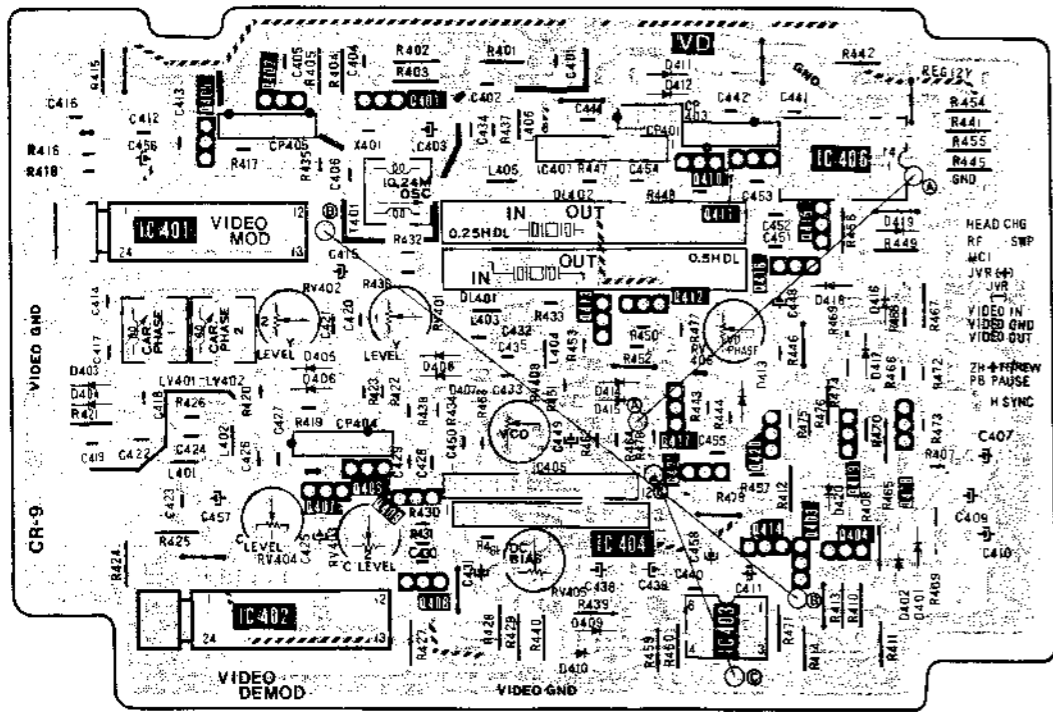
Q	12	13	17	18
B	1.5	11	0	0.6
C	0.7	11.5	11.5	0
E	1.5	1.5	GND	GND

IC6

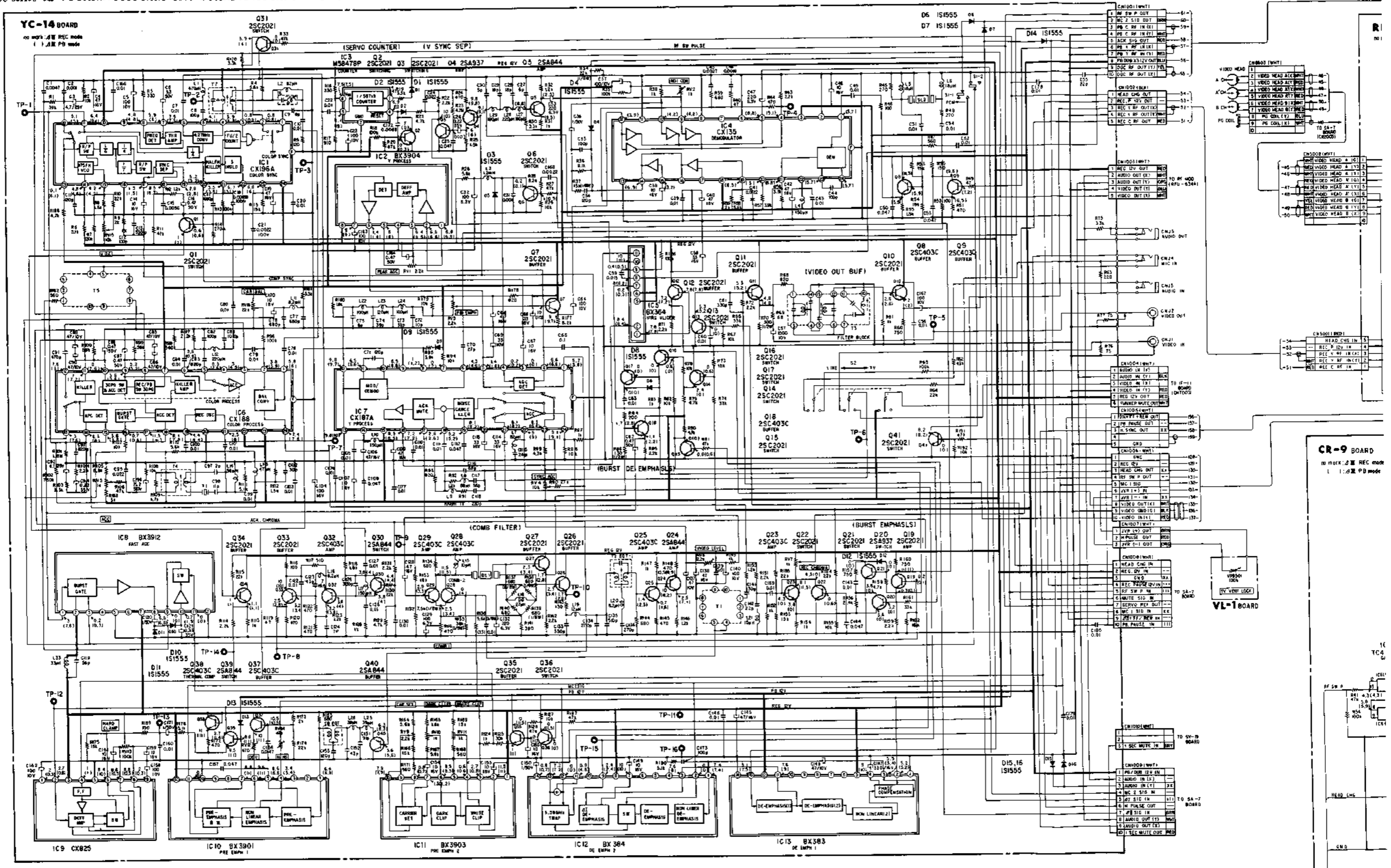
PIN	2	3	4	5	6	7	8	9	10	11	12	13	4	
VOLTAGE	B	10.5	0	E	9.5	6	GND	E	E	6	6	5	5	12

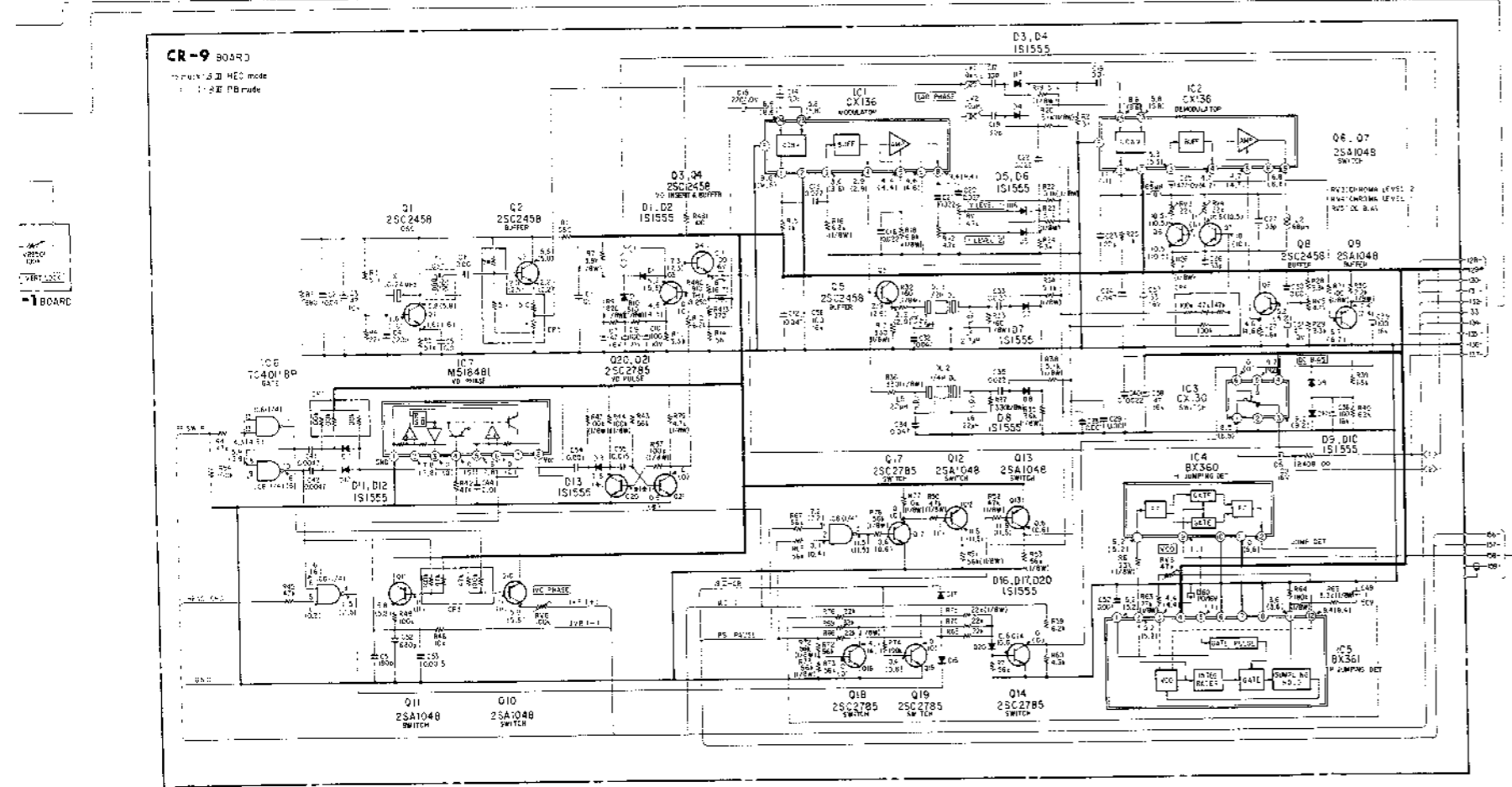
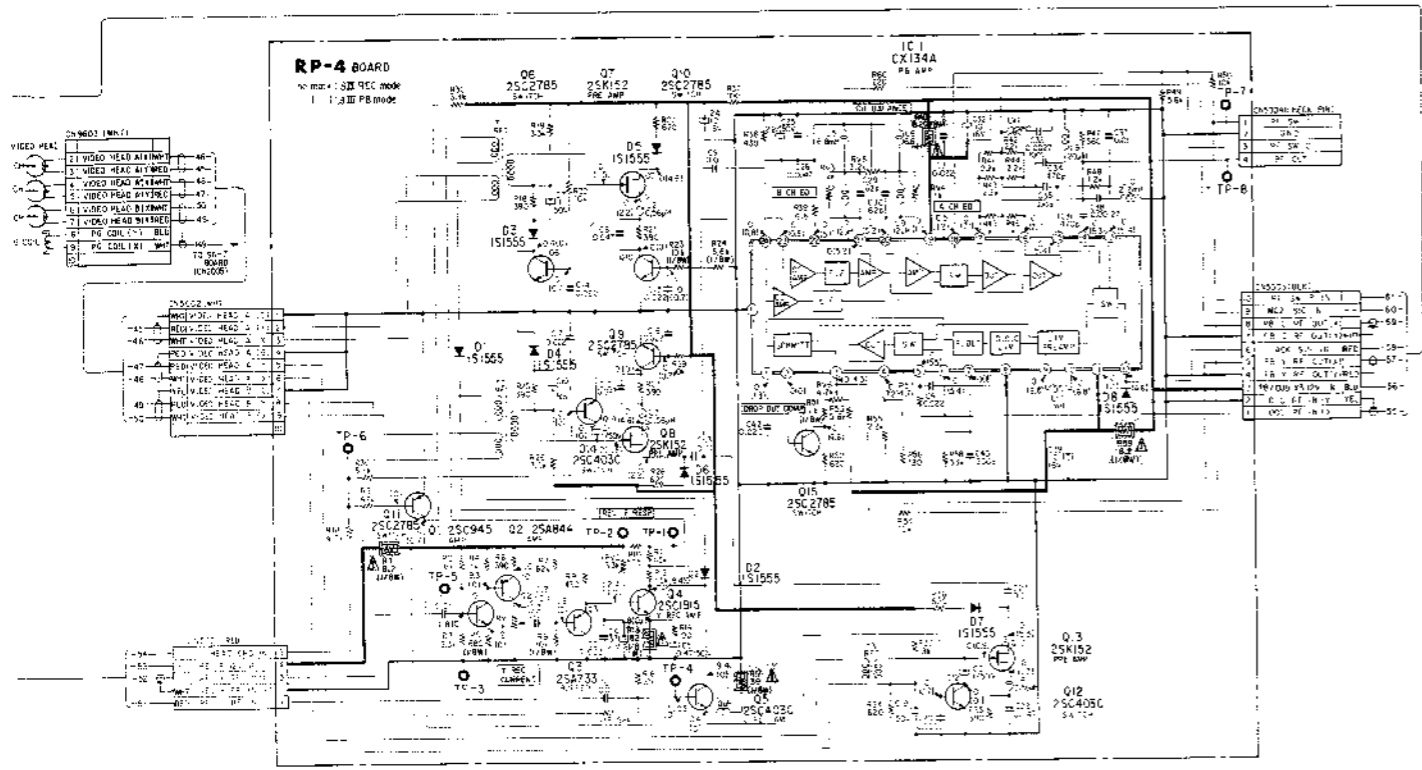
CR-9 BOARD

Q, IC	IC401 IC402	405 407, 406, 409, 408	402 405, 406	401 408, 407	410 410, 409	411 420	IC406 419, 418	Q, IC
D	403, 404					413 412, 417	417, 416	D
ADJ	LV401, LV402	RV402, RV404, RV401, RV403		RV408, RV405		RV406	420 402, 401	ADJ




YC-14 (Y & CHROMA SIGNALS RECORD/PLAYBACK PROCESS), RP-4 (RF RECORD/PLAYBACK AMPLIFIER), CR-9 (BETASCAN -CUE/REVIEW-) AND VL-1 BOARDS SCHEMATIC DIAGRAM
- Ref. No. YC-14 BOARD: 1000 series RP-4 BOARD: 5000 series CR-9 BOARD: 5400 series VL-1 BOARD: 9500 series CHASSIS: 9600 series -





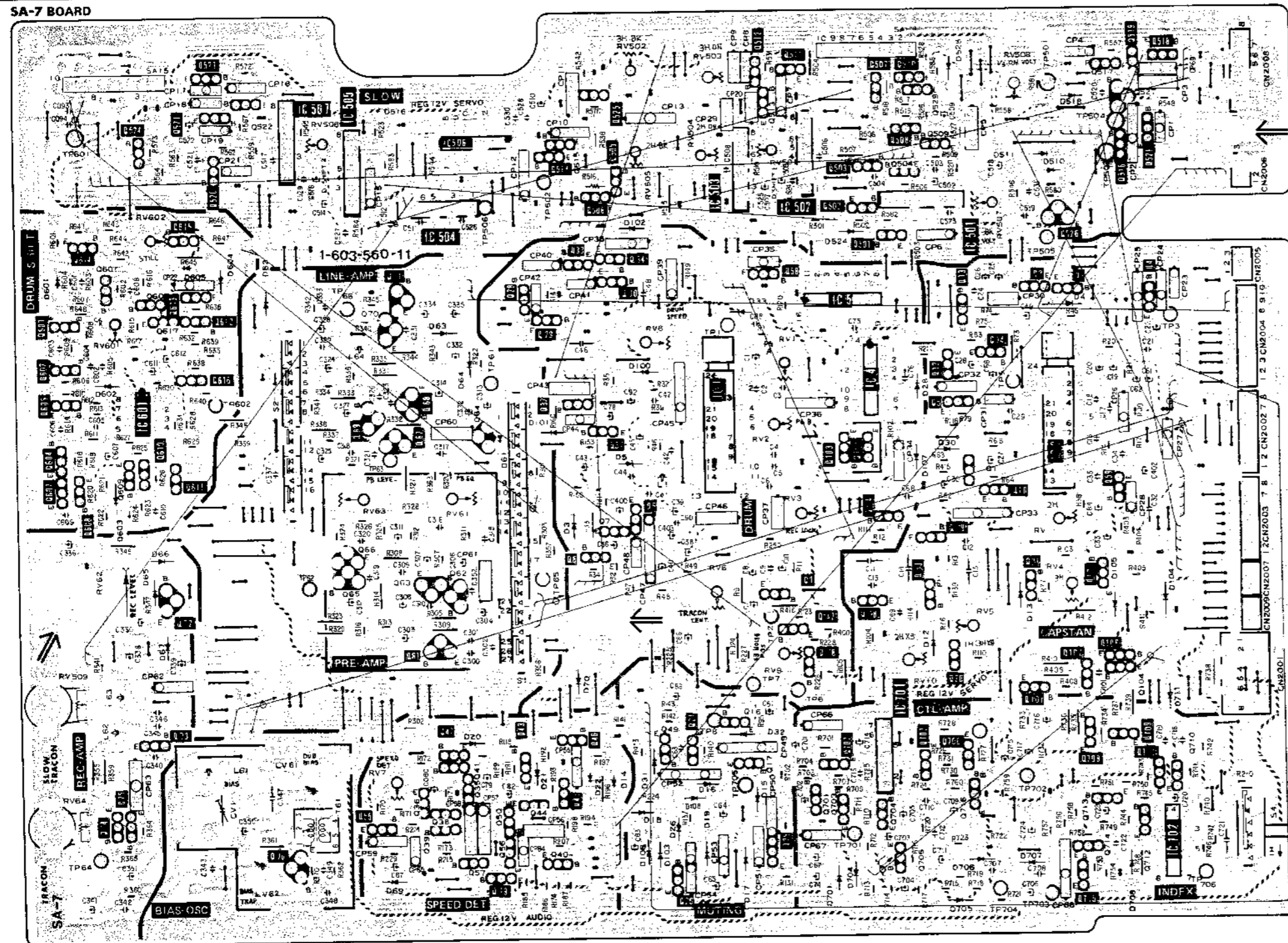
The components identified by shading and Δ mark are critical for safety. Replace only with part number specified.

- NOTES:
- All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted. $k\Omega = 1000\Omega$; $M\Omega = 1000k\Omega$
 - All capacitors are in μF unless otherwise noted. p : μF 50WV or less are not indicated except for electrolytics.
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 -  : nonflammable resistor.
 - The red lines show the main voltages.

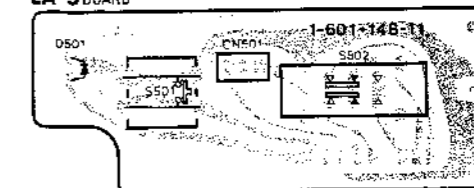
SA-7 (SERVO, AUDIO RECORD/PLAYBACK PROCESS), LA-3 (SWITCH), FG-1 (CAPSTAN FLY FG) AND NF-1 PRINTED WIRING BOARDS
- Ref. No. SA-7 BOARD: 2000 series LA-3 BOARD: 6500 series FG-1 BOARD: 6700 series NF-1 BOARD: 9400 series -

Q, IC	614 603 602 605 604 607,606	601 609,610 609,600 74,75	524 606,617 611,616,520 72 73	523 615,521,522 611,616,520	IC507	IC505	70,71 69,67,68	IC504	IC506	64	514,515 505 506	33 34 30 31 6 7 6	512,513,511	503,507,508,510,529,509	IC503	58	IC502	IC5	103	502,501,504, IC501	13	2	526	3	517	519	518	527 528 516 4	Q, IC							
D	601	602	603	605,66 67	605	604	62	76	55	516	63	64	61	101	3	22	14	5	102,100	108	16	19	32	15	701,704	107	28	30	525	511	510	518	105	104	711	D
ADJ	RV509 RV54	RV601 RV62	RV602	CV1 LV62 LV61	RV506	RV63	RV61	R502	RV505 RV8	RV503, RV504, RV501, RV2	RV6	RV9	RV3	RV10	RV5	RV507	RV508	RV11 RV4																		ADJ

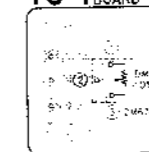
SA-7 BOARD



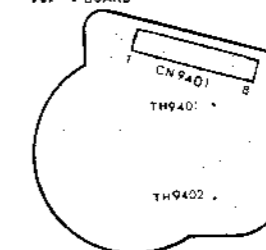
LA-3 BOARD



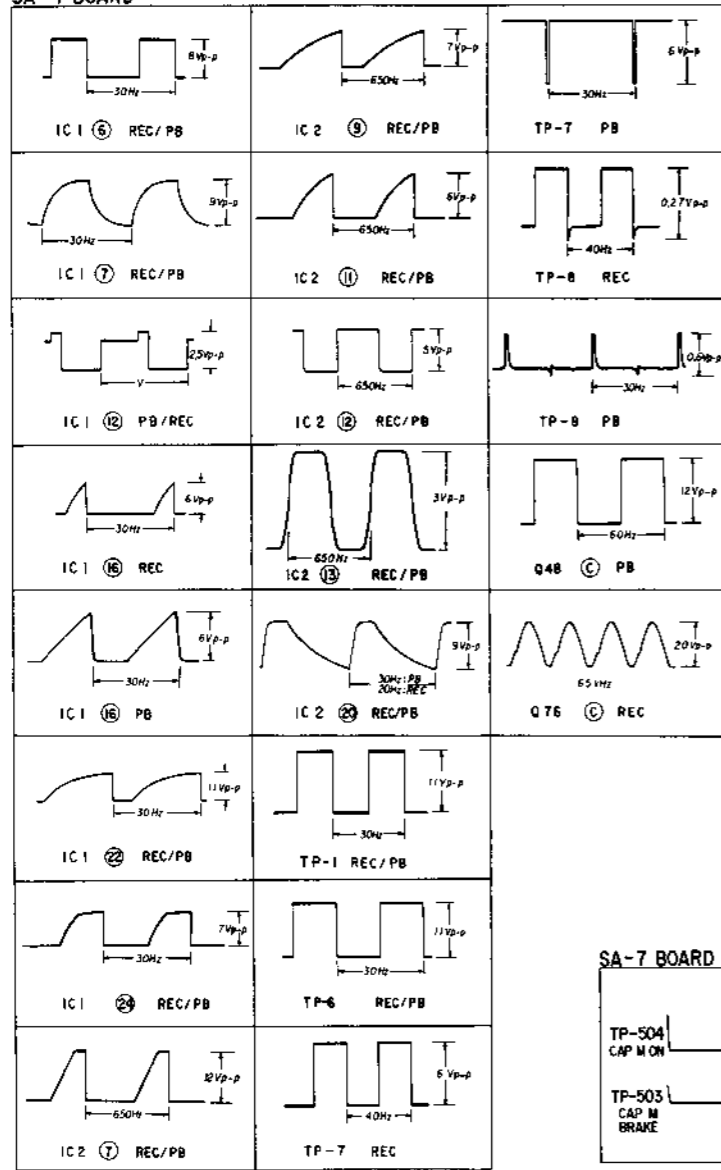
FG-1 BOARD



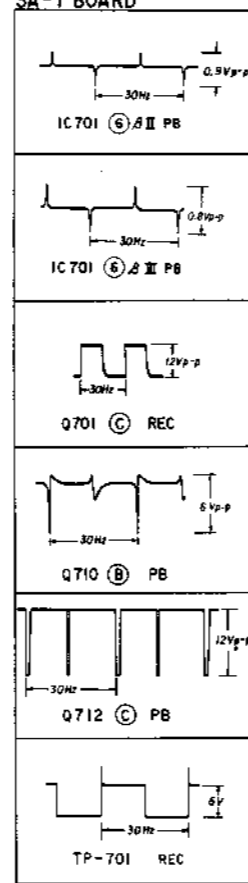
NF-1 BOARD



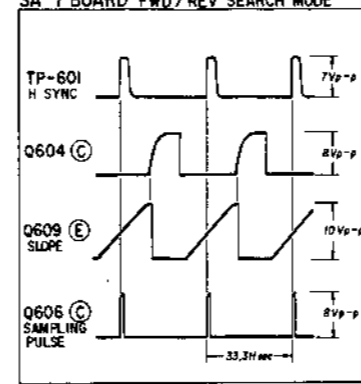
SA-7 BOARD



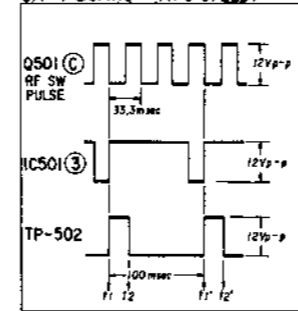
SA-7 BOARD



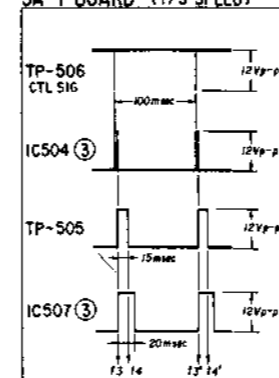
SA-7 BOARD FWD/REV SEARCH MODE



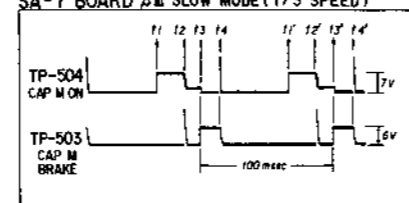
SA-7 BOARD SLOW MODE (1/3 SPEED)



SA-7 BOARD SLOW MODE (1/3 SPEED)



SA-7 BOARD SLOW MODE (1/3 SPEED)



IC2 X3 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
VOLTAGE	4.9	2.3	4.2	3	0.1	5.3	0.3	5.8	3.4	2.7	2.9	2.7	4.5	GND	GND	GND	5.8	11.5	11.5	6.5	0.8	2.3	5.3	12

Q	21	28	29	31	32	33	33	34	56	57	67
B	0	0.6	1.1	1.1	0.6	0.6	0	0	0	0	0.6
VOLTAGE	C	5.7	0	12	12	0	0	1.7	0	3.6	0
E	GND	GND	10.5	12	GND	GND	GND	GND	GND	GND	0

FF / REW 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
VOLTAGE	3.8	3.5	3.7	5.2	3.1	3	5.8	2	2	2	3.2	0.9	6	12	2.8	2.6	6.6	5.8	5	4	1.7	5.2	3.8	2.4

CUE / REV MODE

Q	34	
B	0.6	
VOLTAGE	C	0
E	GND	

IC1 REC / PB 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
VOLTAGE	REC	3.9	3.5	3.7	5.2	3.1	3	5.8	2	2	3.2	0.9	6	12	2.8	2.6	6.6	5.8	5.1	4	1.7	5.2	3.8	2.3
	PB	2	3.5	3.7	5.2	3.1	3	5.8	2	2	3.2	0.9	6	12	2.8	2.6	6.6	5.8	4	1.7	5.2	3.8	2.3	2.4

IC2

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
VOLTAGE	REC	2.9	2	4.2	3.3	0.2	4.2	4.3	5.8	2.4	2.5	1.7	2.5	4.4	GND	GND	GND	2.9	5.1	11.5	6.4	2.3	7.5	12
	PB	2.9	2	4.2	3.3	0.2	4.2	4.3	5.8	2.4	2.5	1.7	2.5	4.4	GND	GND	GND	6	11.5	11.5	6.4	2.3	7.5	12

IC4

Pin	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
VOLTAGE	REC	0	0	12	2.2	12	9.4	GND	12	2.5	9.4	12	0	4	12
	PB	0	0	12	6	12	5.2	GND	12	6.6	5.2	12	0	4	12

Q	5	20	24	44	45	46	61	75	78																		
REC	11	12	12	0.7	0	GND	0	2.8	GND	0	0	GND	0	8.4	GND	0.7	0	GND	0	GND	0	0	GND	0	0.7	0	GND
PB	11	12	12	0.7	0	GND	0	2.8	GND	0	0	GND	0	8.4	GND	0.7	0	GND	0	GND	0	0	GND	0.3	0.7	0	GND

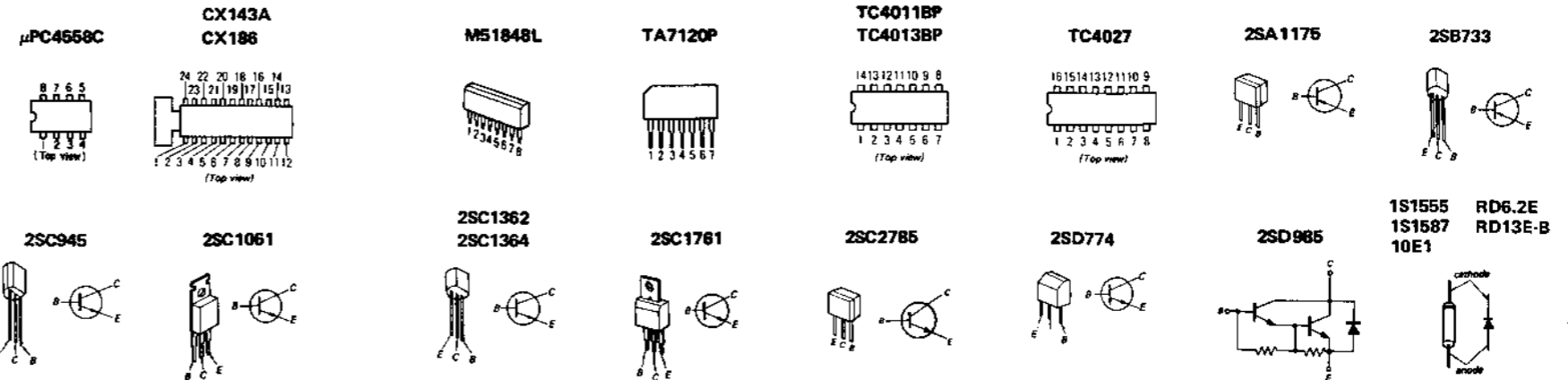
IC1 PB MODE

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
VOLTAGE	3	2.4	5.4	3	0.1	5.4	0.2	5.8	2	2.7	2.9	2.7	4.5	GND	GND	GND	6	11.5	11.5	6.4	2.3	7.5	12	

Q	18	19	20	21	30	33	34	40	46	53	54	61	65	74	75
B	0	0	0.6	0	0.6	0.6	0	0.7	0	0	0	0	0	0	0
VOLTAGE	C	0	2.1	0	5.7	0	0	7.4	0	1.7	0	GND	GND	GND	GND
E	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND

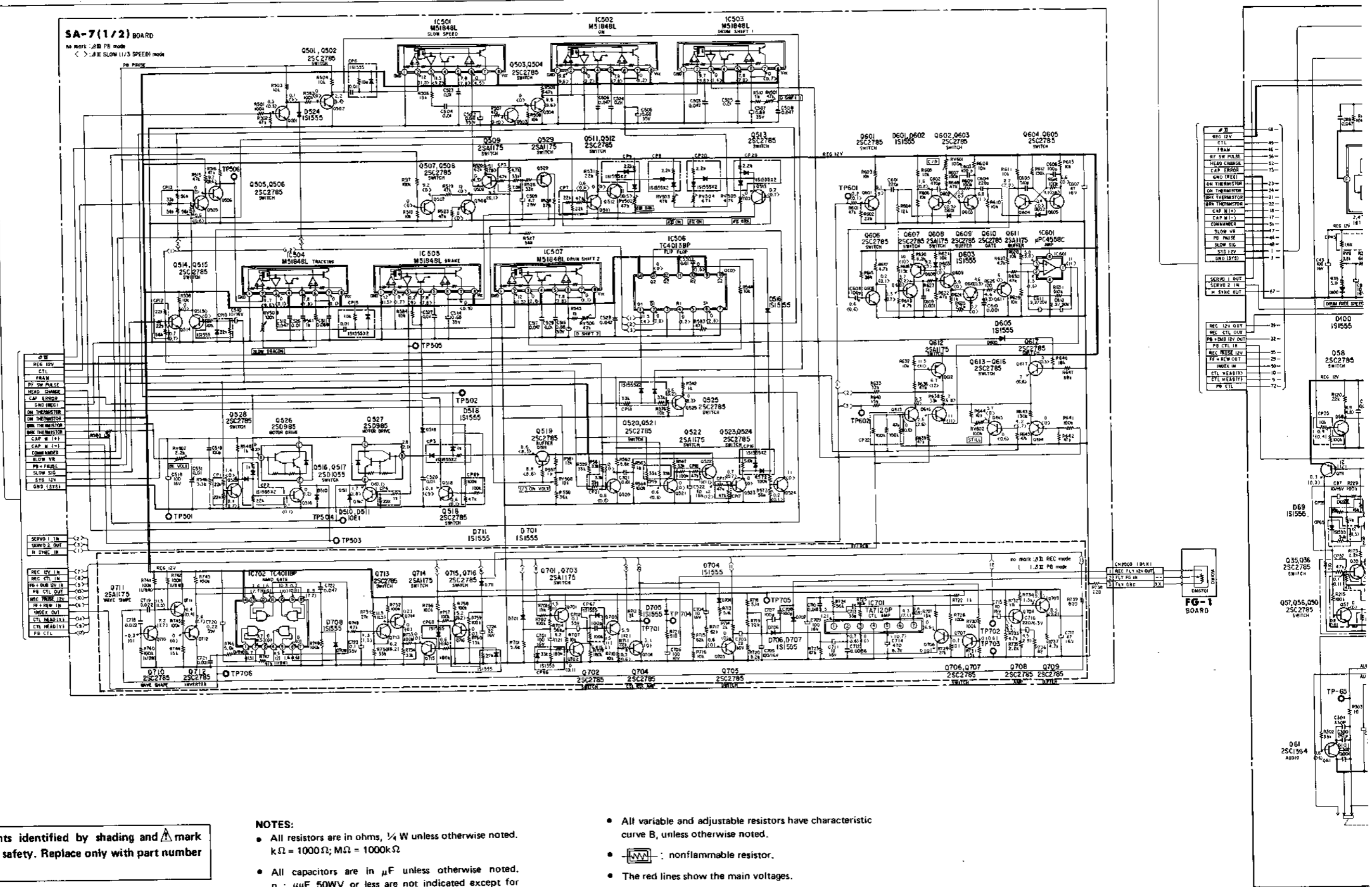
FF / REW MODE

Q	612	613	616	715	716	
B	11	0.6	6.4	0	0.6	
VOLTAGE	C	12	0.2	5.9	0	0
E	12	GND	5.9	GND	GND	



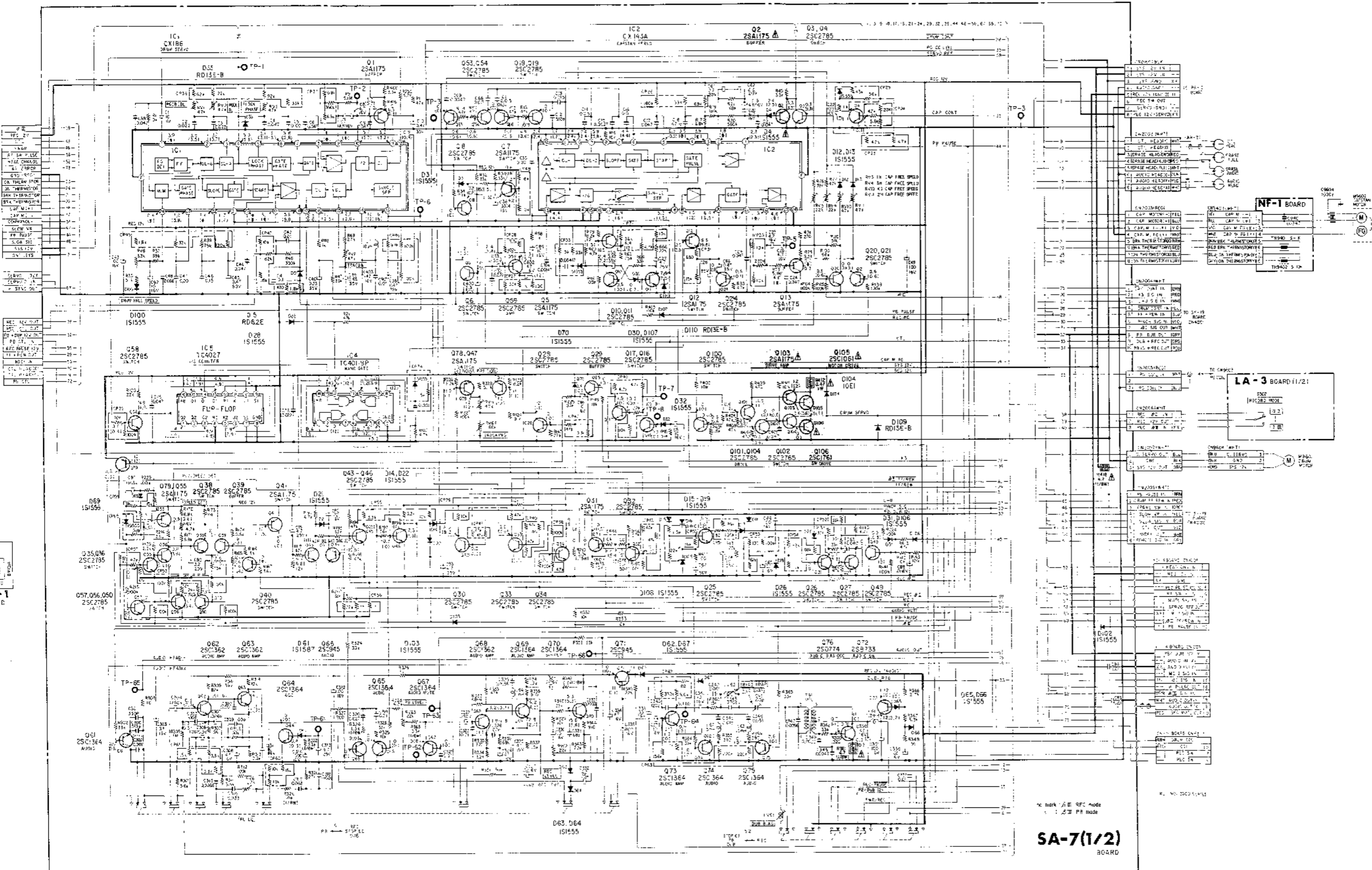
SERVO, AUDIO SERVO, AUDIO

SA-7 (SERVO, AUDIO RECORD/PLAYBACK PROCESS), LA-3 (SWITCH), FG-1 (CAPSTAN FLY FG) AND NF-1 BOARDS SCHEMATIC DIAGRAM
 - Ref. No. SA-7 BOARD: 2000 series LA-3 BOARD: 6500 series FG-1 BOARD: 6700 series NF-1 BOARD: 9400 series CHASSIS: 9600 series -



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

- NOTES:**
- All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted. $k\Omega = 1000\Omega$; $M\Omega = 1000k\Omega$
 - All capacitors are in μF unless otherwise noted. p : μF 50WV or less are not indicated except for electrolytics.
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - \square : nonflammable resistor.
 - The red lines show the main voltages.



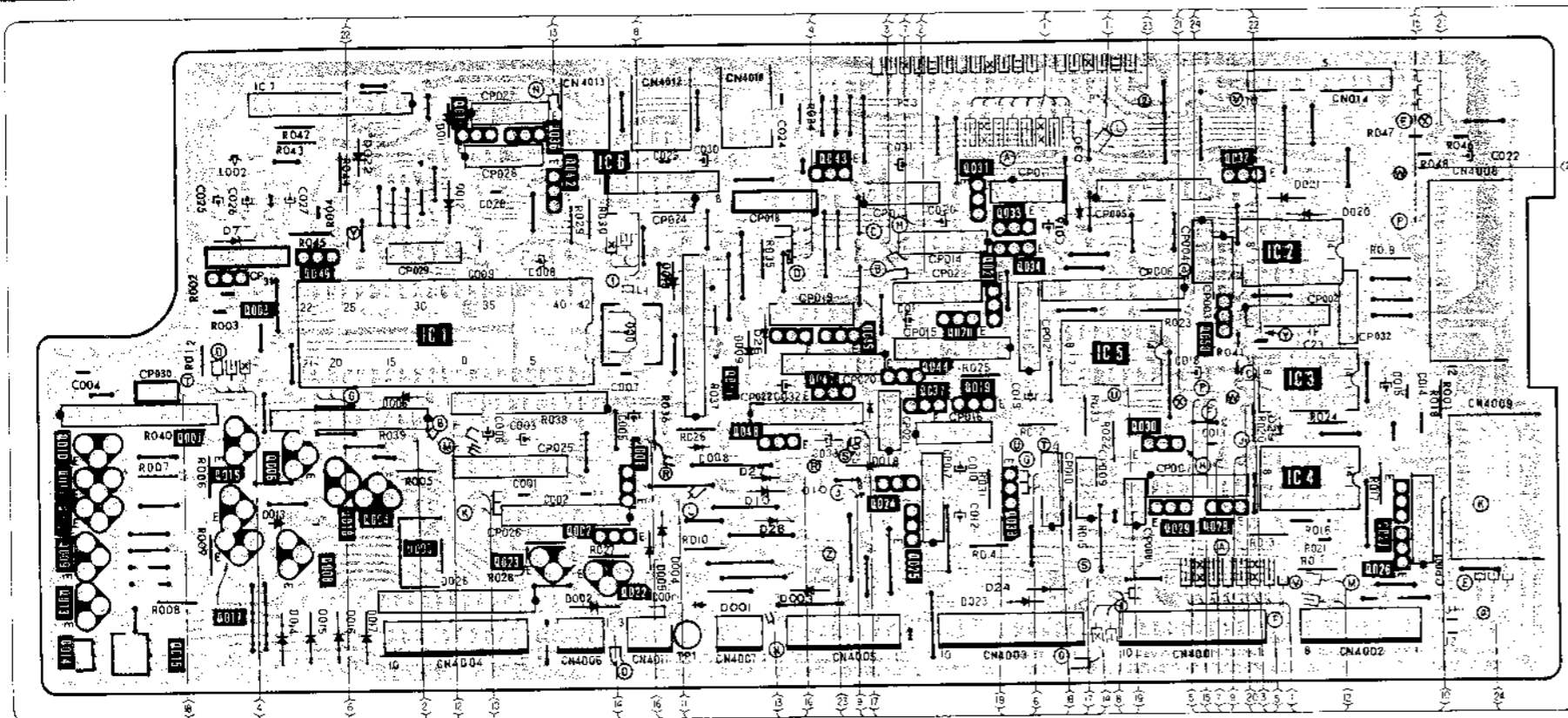
SA-7(1/2) BOARD

SYSTEM CONTROL SYSTEM CONTROL

SY-19, SY-20, SY-21 (SYSTEM CONTROL), CN-10, CN-11 (SLACK SENSOR, RELAY), ES-1 (FWD SENSOR), SW-6 (SWITCH, RELAY), RC-11 (REMOTE CONTROL), LA-1 (LAMP), TR-8, NF-7, RL-2 AND NF-3 PRINTED WIRING BOARDS
 - Ref. No. SY-19 BOARD: 4000 series SY-20 LA-1 BOARD: 4500 series SY-21 BOARD: 4600 series CN-10 BOARD: 6251 series CN-11 BOARD: 6200 series ES-1 BOARD: 4700 series SW-6 BOARD: 6400 series TR-8 BOARD: 6600 series NF-7 BOARD: 9300 series RL-2 BOARD: 6800 series NF-3 BOARD: 9200 s

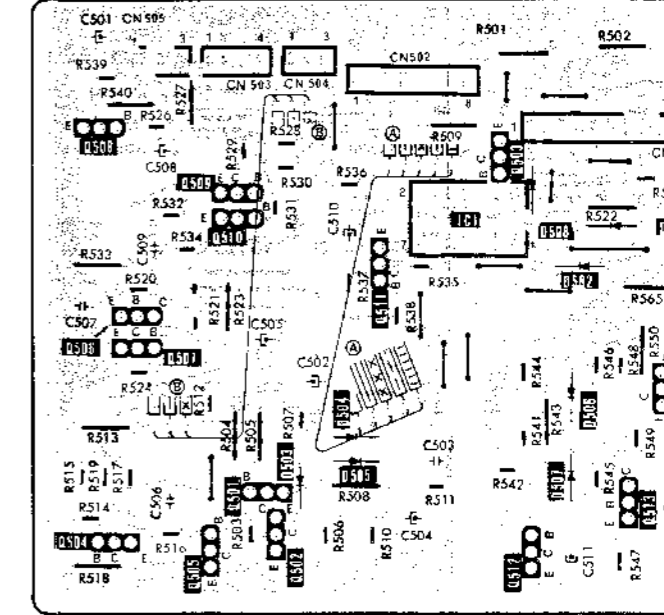
SY-19 BOARD

Q.	10,11	3	IC7	35	36	42	IC6	43	44	31	33	34	32	IC2	27	Q.					
IC	12,9	7	16	49	18	4	IC1	1	48	45	47	46	37	20	21	IC5	30	50	IC3	26	
D	13,14	15	17	6	8	18	4	5	23	2	22	24	25	19	38	29	28	IC4	21	20	
		7	13	22	11			19	8	9	26,27	25	30	21	20				29		D
			14	15	16	17	6	12	2	5	4	1	10,28,3	18	23	24					

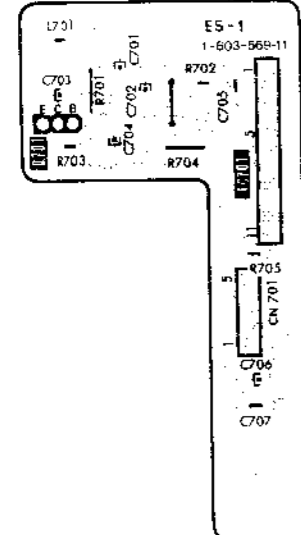


Q.	508	509	511	503
IC	506,507	510		IC1
	504	505	501,502	513
D				506
		503	504,505	502
				506,507

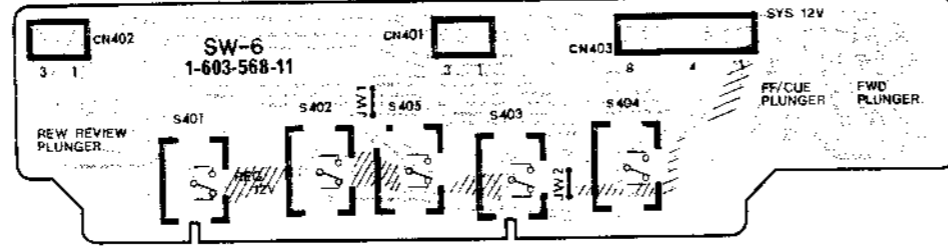
SY-20 BOARD



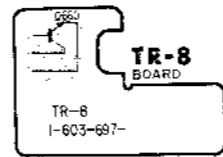
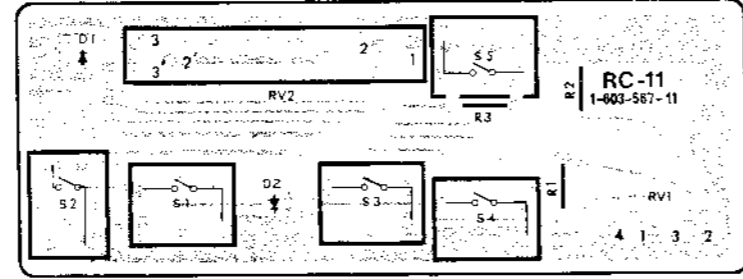
ES-1 BOARD



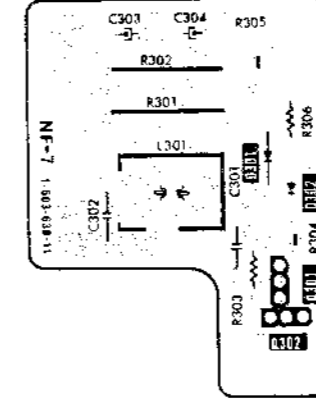
SW-6 BOARD



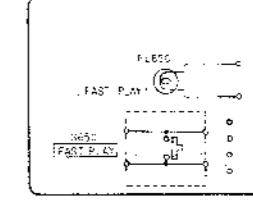
RC-11 BOARD



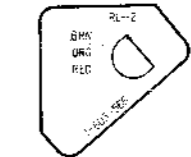
NF-7 BOARD



LA-1 BOARD



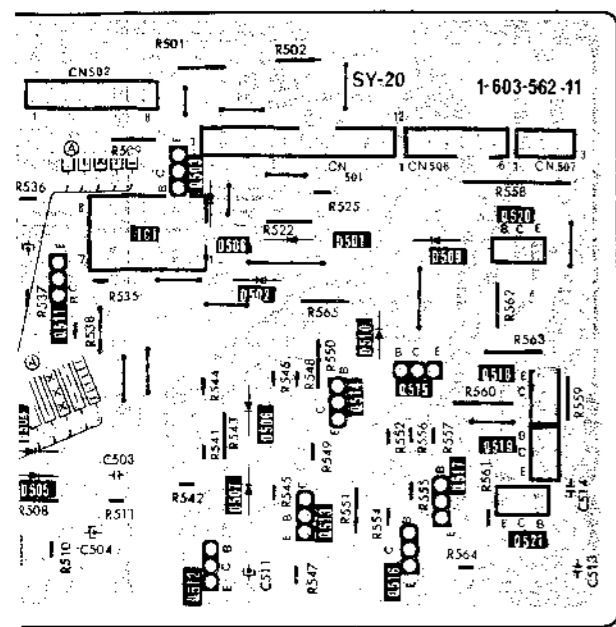
RL-2 BOARD



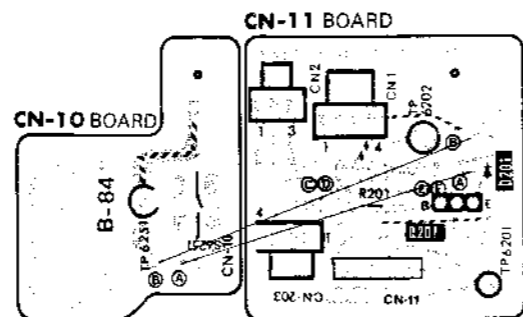
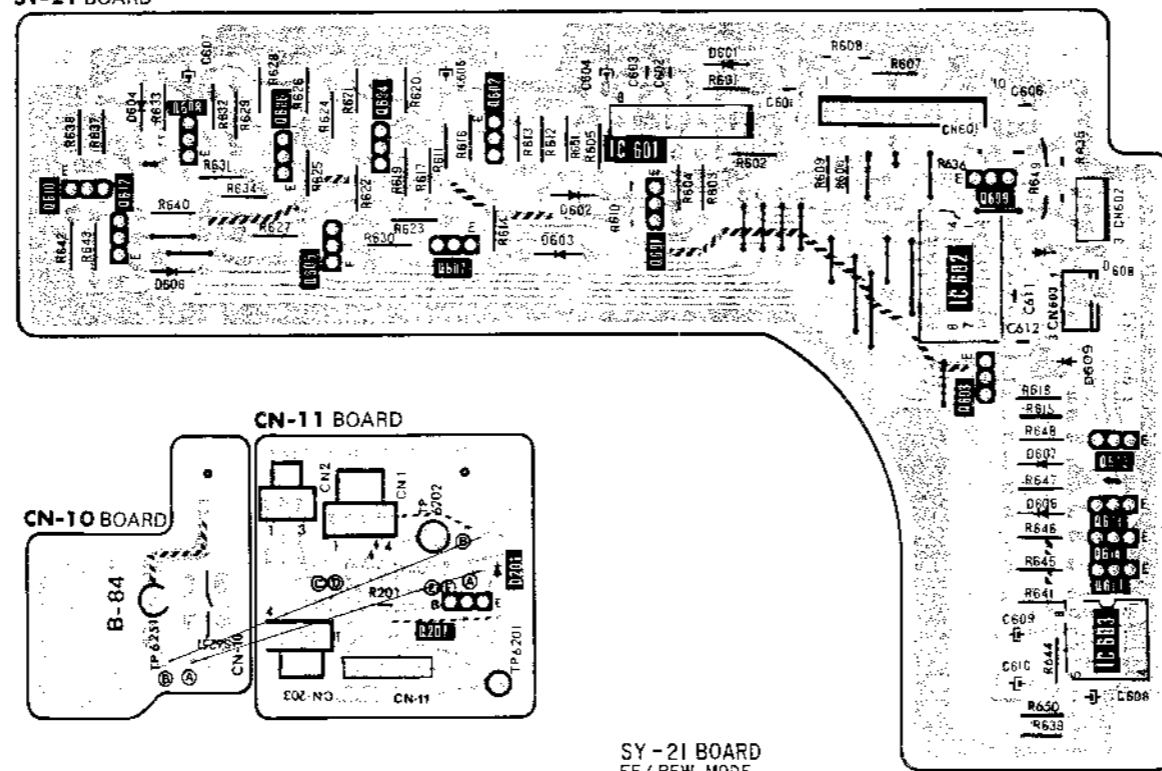
JARDS

6800 series NF-3 BOARD: 9200 series -

511	503			515	520	518	Q
	IC1						IC
		513	514	516	517	521, 519	
	508						D
504, 505		502	501	510	509		
		506, 507					



SY-21 BOARD



SY-21 BOARD
FF / REW MODE

IC602

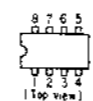
PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
VOLTAGE	D	E	F	G	-12	B	GND	9.1	9.1	C	12	G	C	25

IC603

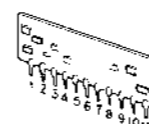
PIN	2	3	4	5	6	7	8
VOLTAGE		GND	2.5	4.5	1.4	1.5	

	601	608	609	610	612	613	614	615
B	1.5	4.3	3	0.6	3.5	0	0	0
C	12	GND	2	0	11.5	GND	2.4	1.5
F	11.5	5.8	GND	GND	7.4	GND	11.5	

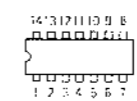
μPC4558C



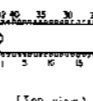
BX342



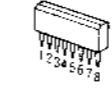
TC4011BP
TC4013BP
TC4081BP
TC4069UBP



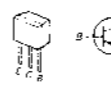
μPD546C



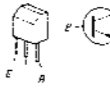
M51848L



2SA1175



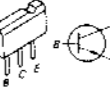
2SC2315
2SD773



TC4011BP
TC4013BP
TC4081BP
TC4069UBP



2SC2021
2SD1055



2SC1364



1S1555
1SS119
10E1
RD8.2E-B
RD13E-B



10E10P

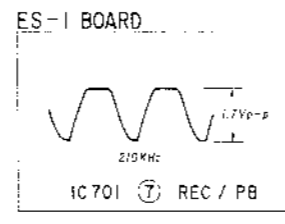
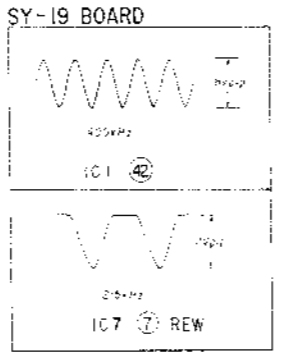
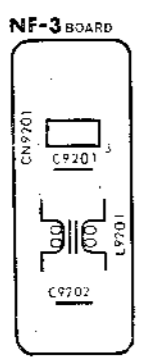
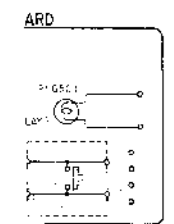
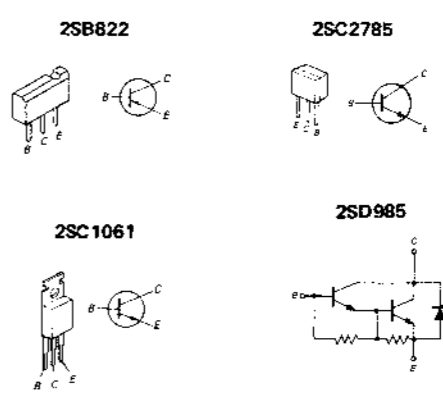


TLR123
TLY123



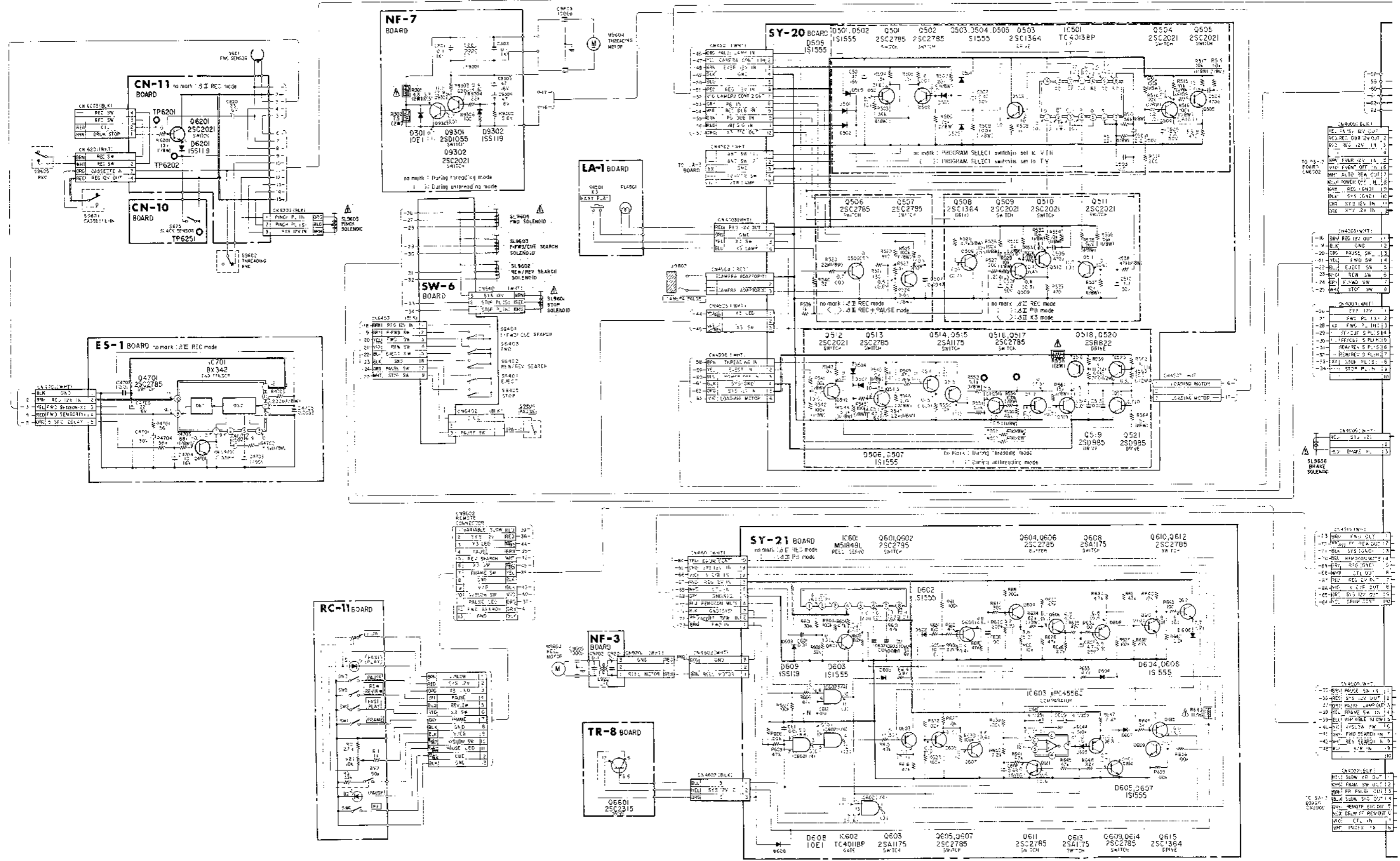
The components identified by shading and Δ mark are critical for safety. Replace only with part number specified.

- NOTES:
- All resistors are in ohms, $1/4$ W unless otherwise noted. $k\Omega = 1000\Omega$; $M\Omega = 1000k\Omega$
 - All capacitors are in μF unless otherwise noted. p : μF 50WV or less are not indicated except for electrolytics.
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - Δ : nonflammable resistor.
 - The red lines show the main voltages.



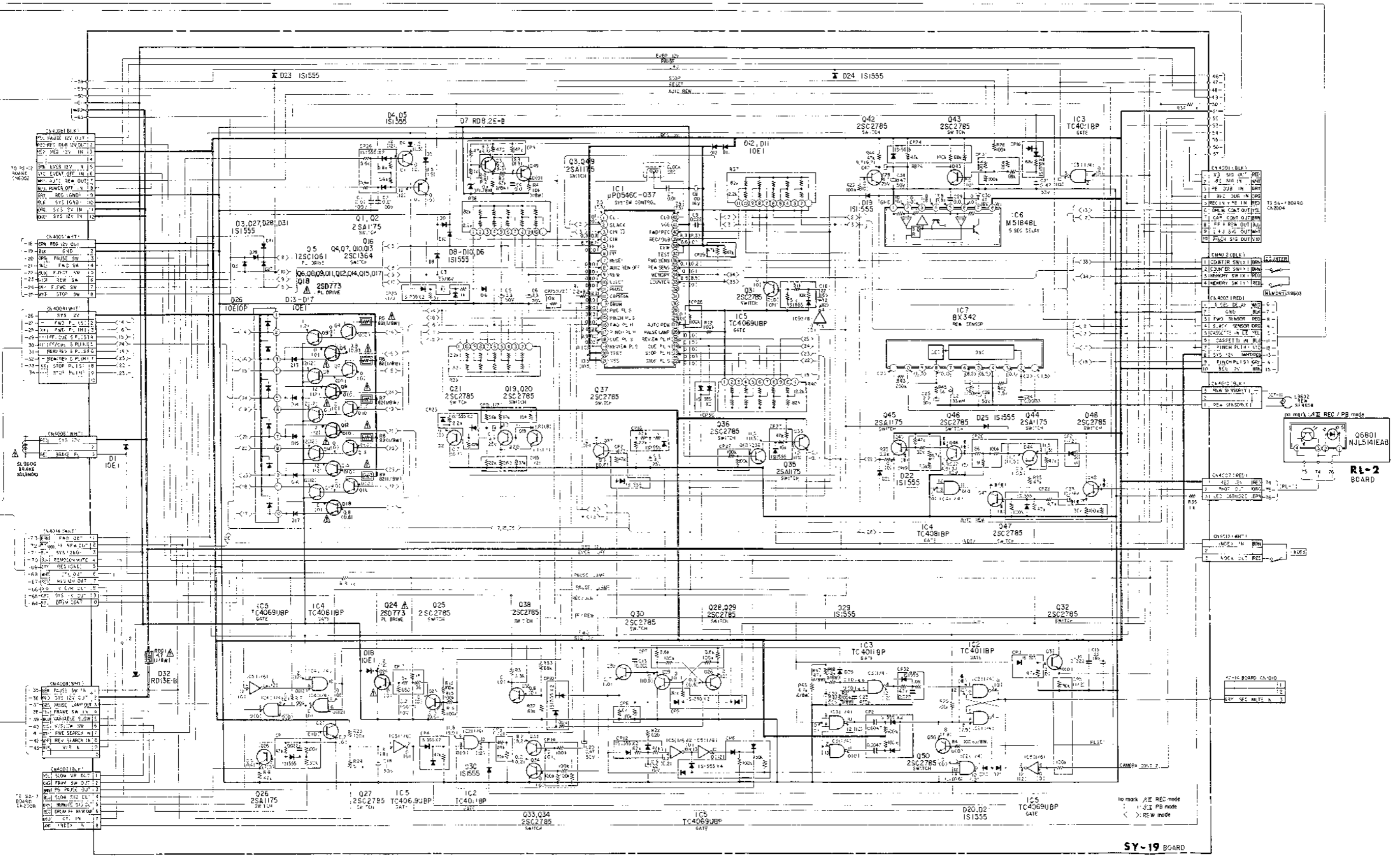
SYSTEM CONTROL SYSTEM CONTROL

SY-19, SY-20, SY-21 (SYSTEM CONTROL), CN-10, CN-11 (SLACK SENSOR, RELAY), ES-1 (FWD SENSOR), SW-6 (SWITCH, RELAY), RC-11 (REMOTE CONTROL), LA-1 (LAMP), TR-8, NF-7, RL-2 AND NF-3 BOARDS SCHEMATIC DIAGRAM
 - Ref. No. SY-19 BOARD: 4000 series SY-20 LA-1 BOARD: 4500 series SY-21 BOARD: 4600 series CN-10 BOARD: 6251 series CN-11 BOARD: 6200 series ES-1 BOARD: 4700 series SW-6 BOARD: 6400 series TR-8 BOARD: 6600 series NF-7 BOARD: 9300 series RL-2 BOARD: 6800 series NF-3 BOARD: 9200 series

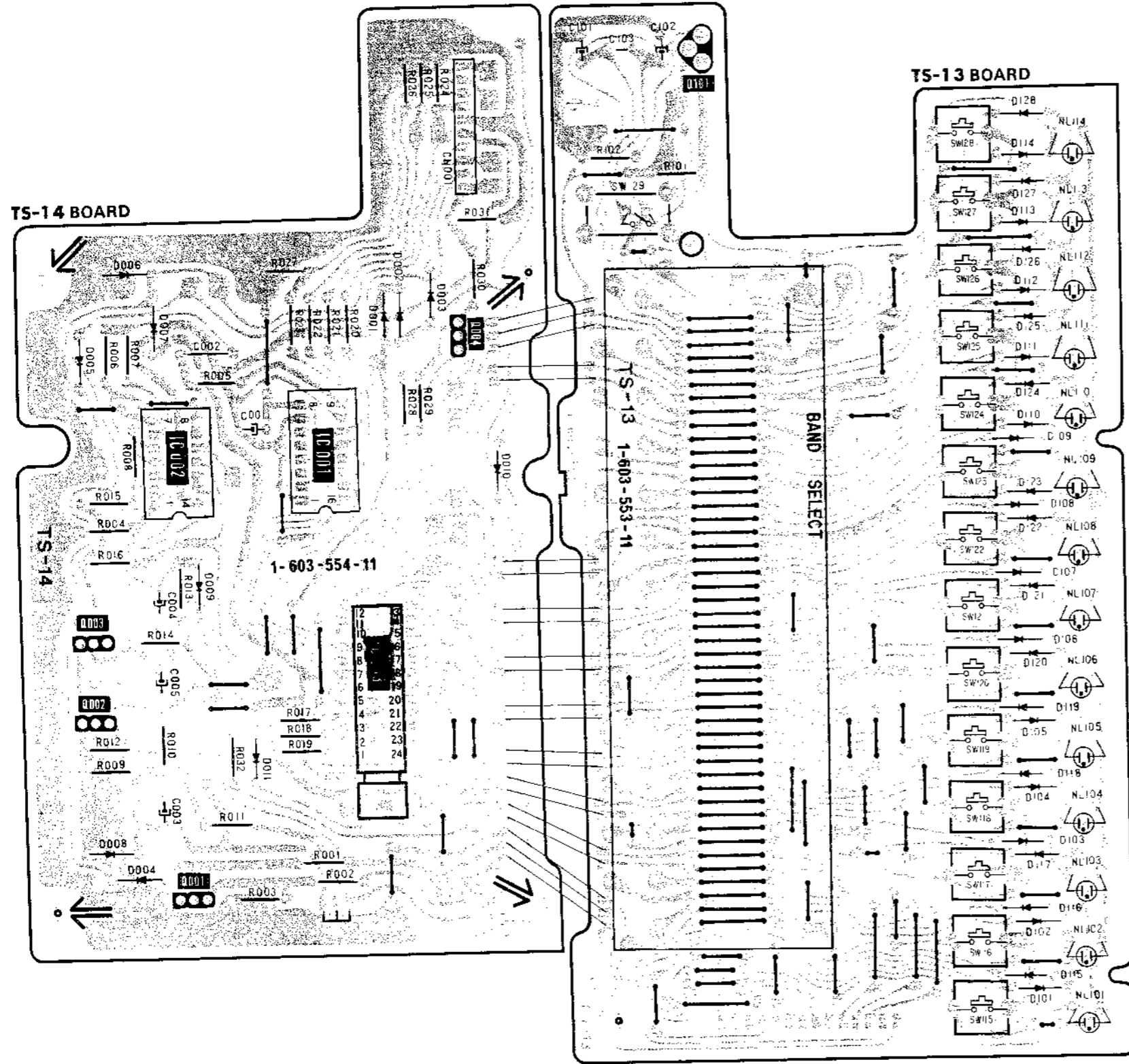


SYSTEM CONTROL SYSTEM CONTROL

ATIC DIAGRAM
6800 series NF-3 BOARD: 9200 series CHASSIS: 9600 series -

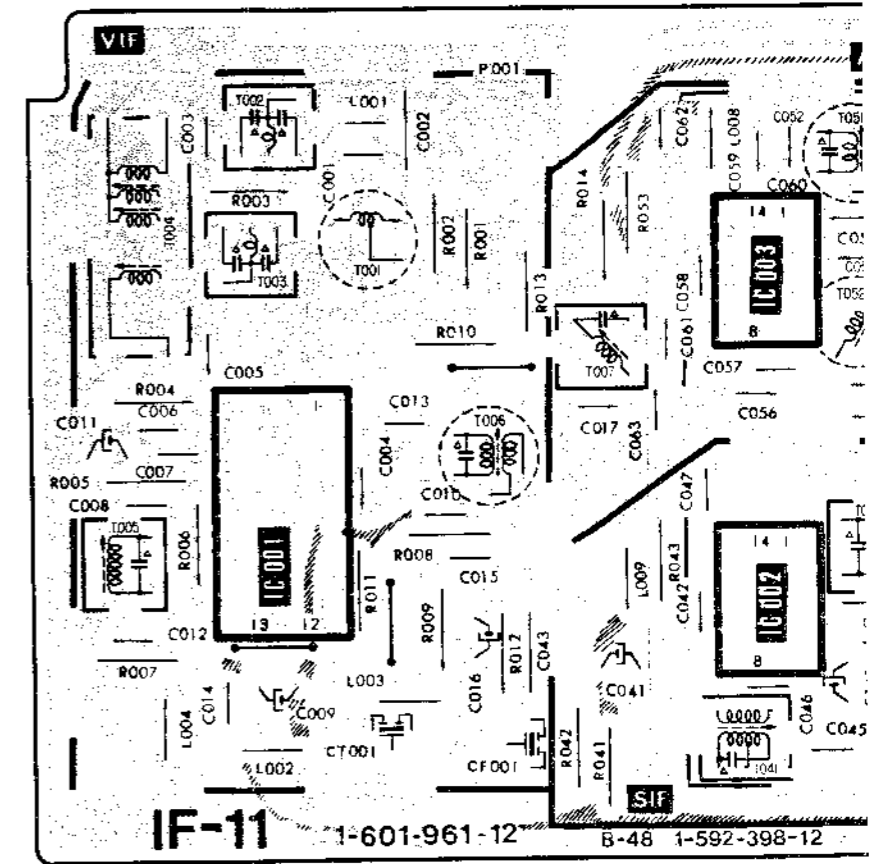


TS-13 (CHANNEL PRESET, CHANNEL SELECT), TS-14 (AUTO PROGRAM SERCH), IF-11 (VIF, SIF, AFT), TU-15, TU-16 (TUNER AGC, BAND SELECTOR) AND TB-1 (DC CONVERTER) PRINTED WIRING BOARDS
 - Ref. No. TS-13, TS-14 BOARD: 3000 series IF-11 BOARD: 7000 series TU-15, TU-16 BOARD: 9100 series TB-1 BOARD: 9000 series -

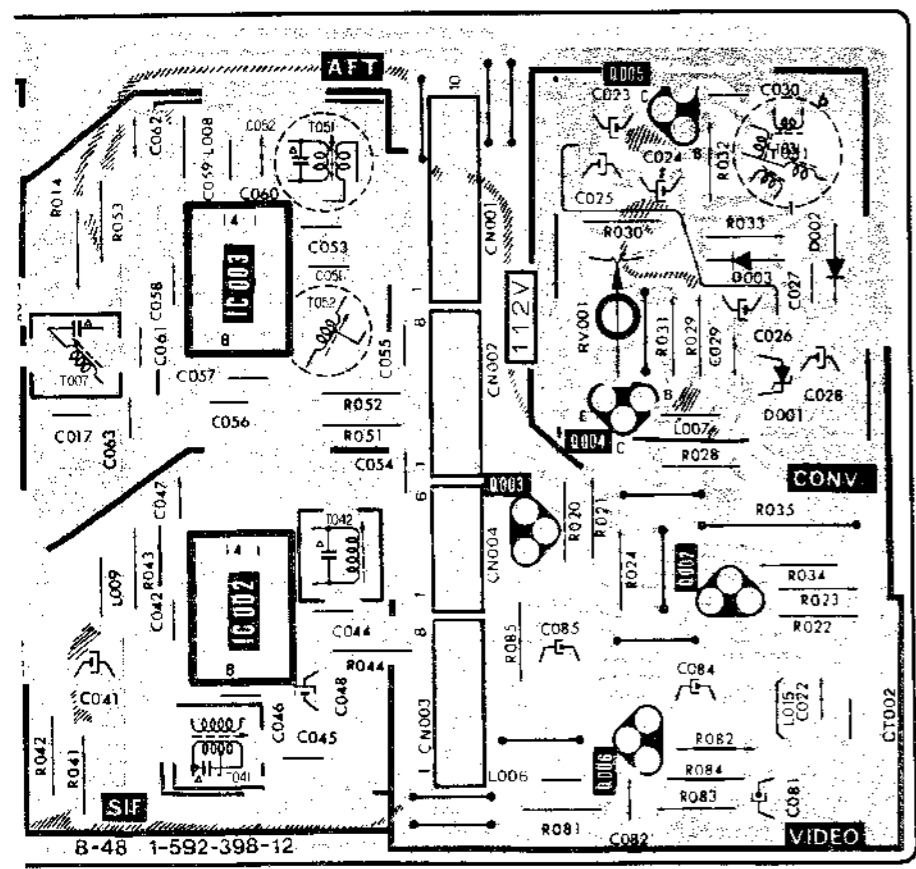


IF-11 BOARD

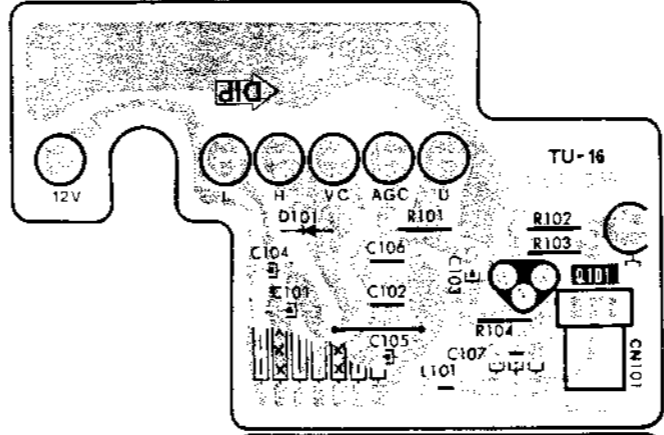
Q, IC	IC001	IC003
D		IC002
ADJ		



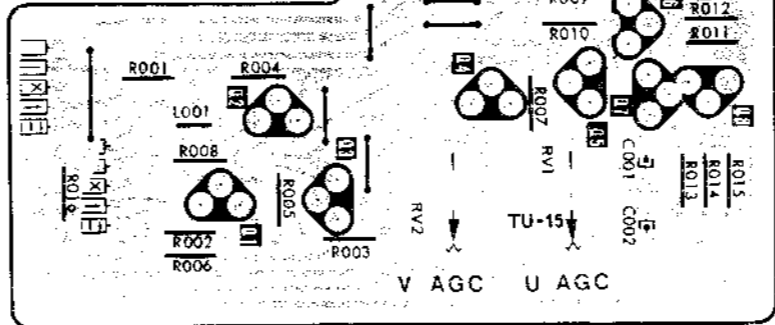
IC003	003	004	005	002	Q, IC
IC002	006				
				003, 004, 002	D
				RV001	ADJ



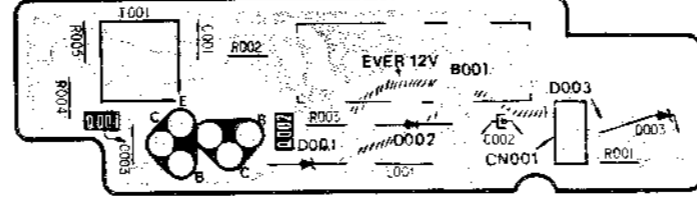
TU-16 BOARD



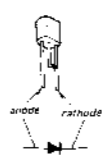
TU-15 BOARD



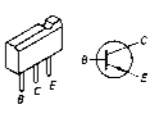
TB-1 BOARD



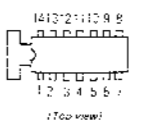
μPC574J



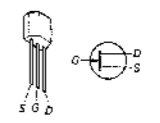
2SC2021



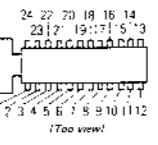
CX095C



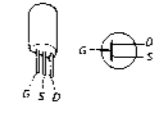
2SK23A



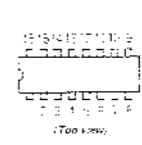
CX177B
CX804



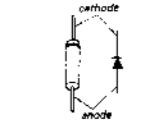
2SK43



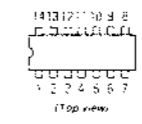
MB84520B



1S1555
RD5.1E-B
RD7.5E-B



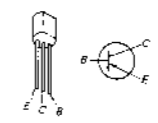
TA7070P
TC4011BP



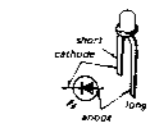
1SS82



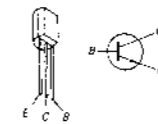
2SA733



TLR124

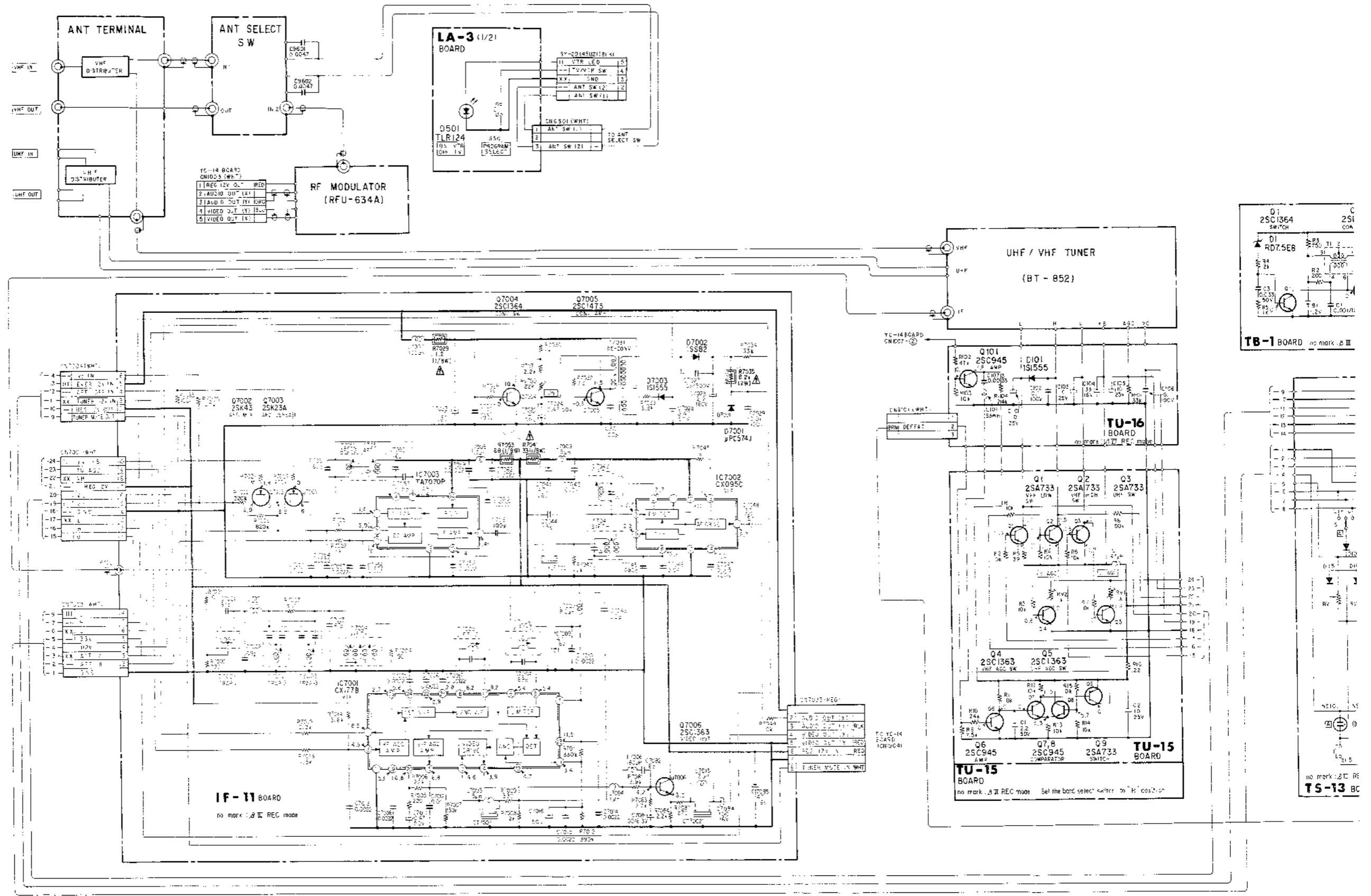


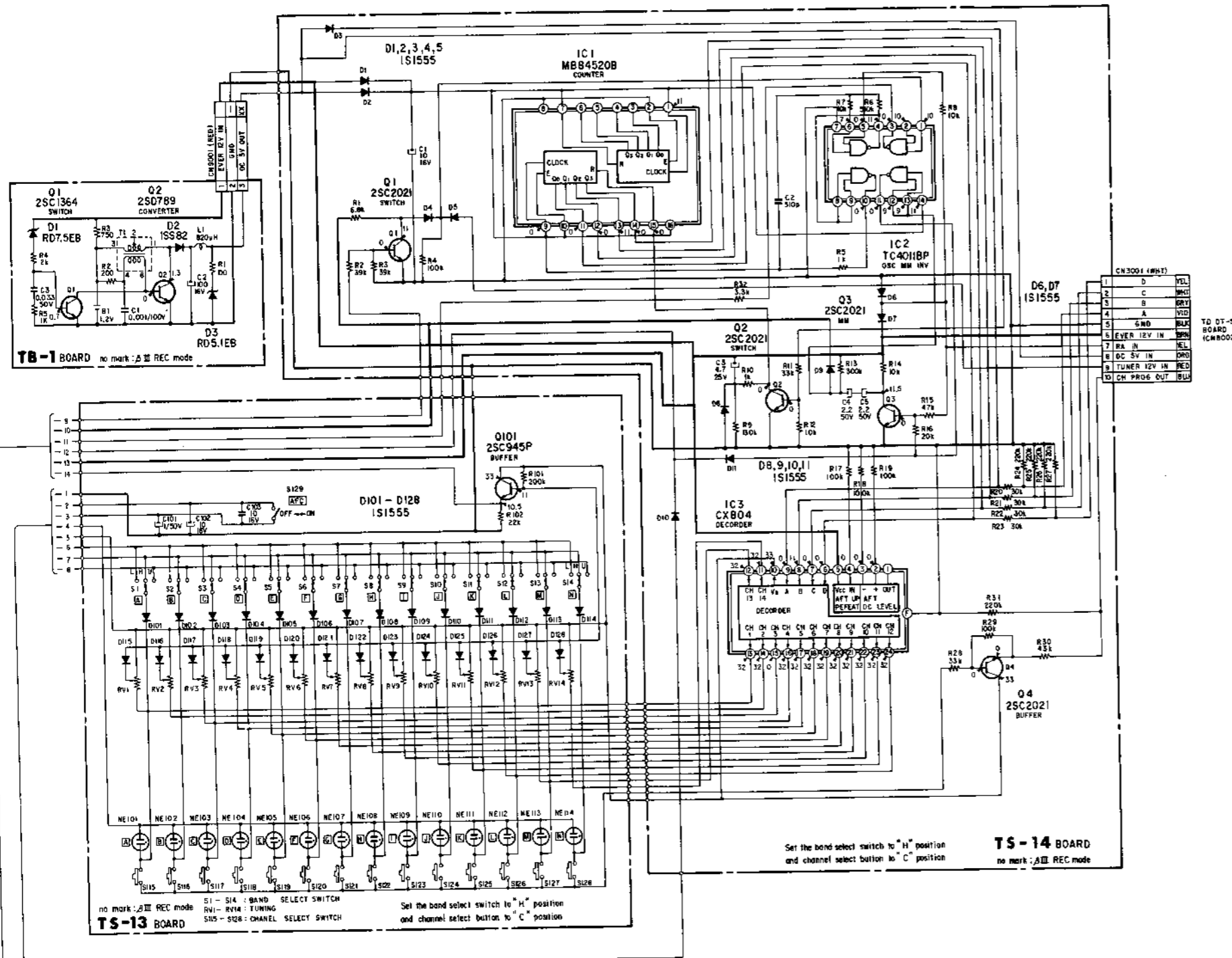
2SC945
2SC945P
2SC1363
2SC1364
2SC1475



TUNER TUNER

TS-13 (CHANNEL PRESET, CHANNEL SELECT), TS-14 (AUTO PROGRAM SERCH), IF-11 (VIF, SIF, AFT), TU-15, TU-16 (TUNER AGC, BAND SELECTOR) AND TB-1 (DC CONVERTER) BOARDS SCHEMATIC DIAGRAM
 - Ref. No. TS-13, TS-14 BOARD: 3000 series IF-11 BOARD: 7000 series TU-15, TU-16 BOARD: 9100 series TB-1 BOARD: 9000 series CHASSIS: 9600 series -



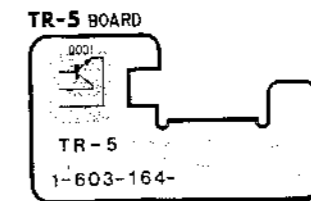
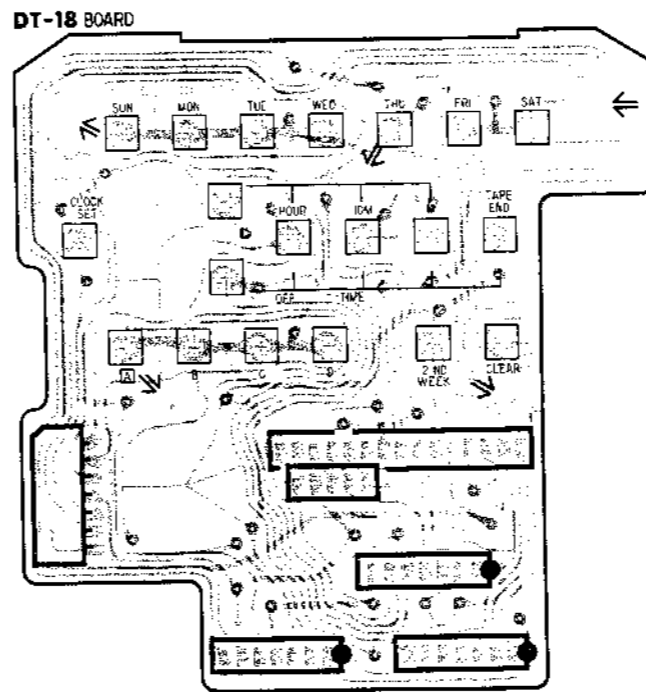
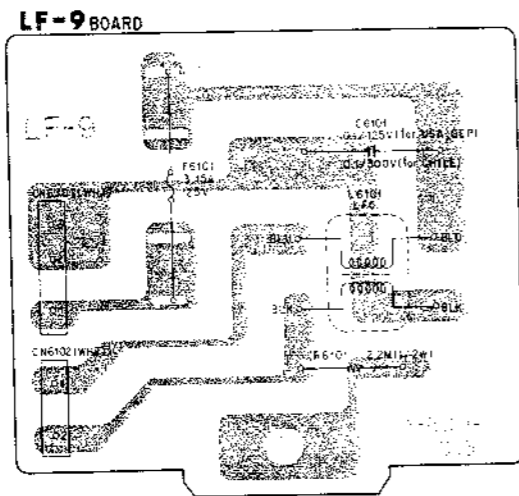
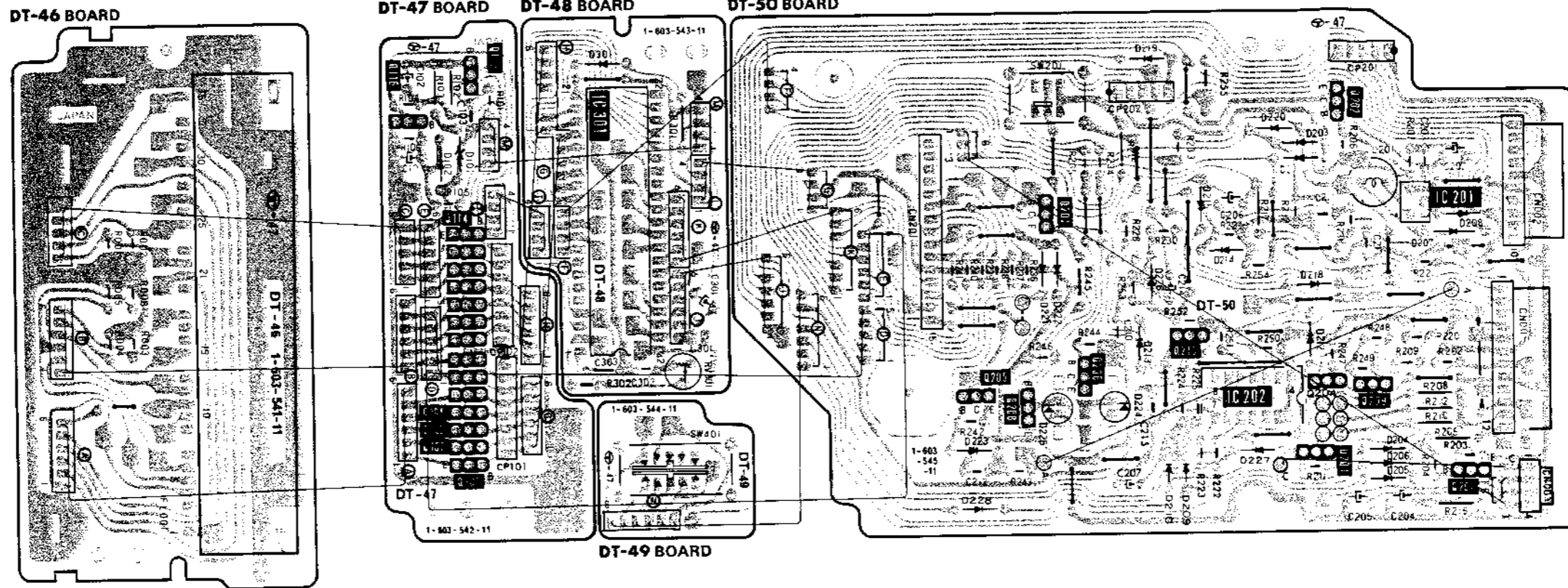


The components identified by shading and Δ mark are critical for safety. Replace only with part number specified.

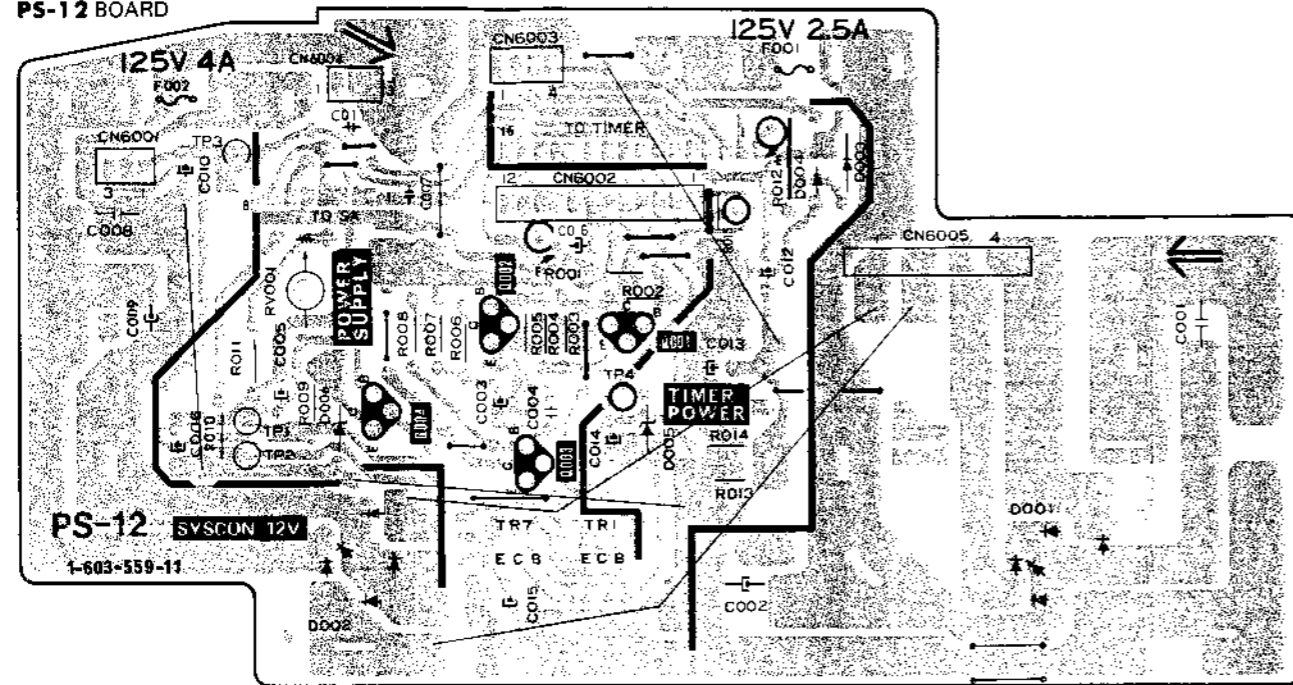
- NOTES:**
- All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted. $k\Omega = 1000\Omega$; $M\Omega = 1000k\Omega$
 - All capacitors are in μF unless otherwise noted. $p : \mu F$ 50WV or less are not indicated except for electrolytics.
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - \square : nonflammable resistor.
 - The red lines show the main voltages.

DT-46, DT-47, DT-48, DT-49, DT-50 AND DT-18 (PROGRAM TIMER), PS-12 (POWER SUPPLY), LF-9 (LINE FILTER), TR-1, TR-5 AND TR-7 (POWER TRANSISTOR) PRINTED WIRING BOARDS
 - Ref. No. DT-46, DT-47, DT-48, DT-49, DT-50 AND DT-18 BOARDS: 8000 series PS-12 BOARD: 6000 series LF-9 BOARD: 6100 series TR-1 BOARD: 6301 series TR-5 BOARD: 6311 series TR-7 BOARD: 6321 series

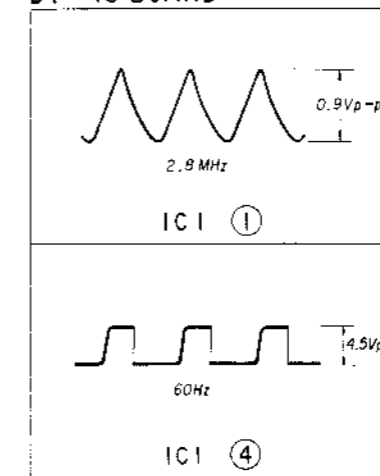
Q, IC	205	207	208	206	210	IC202	202	IC201	Q, IC	
D	223 228	221, 222 225	213 224	226	215	214	220 211	204 203	208 207	D



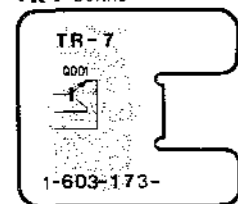
PS-12 BOARD



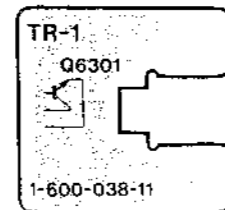
DT-48 BOARD



TR-7 BOARD



TR-1 BOARD



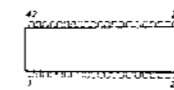
μPA54H



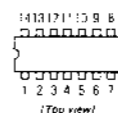
μPC78L05A



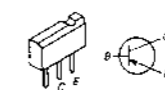
MB8841-180



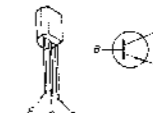
TC4011BP
TC4081BP



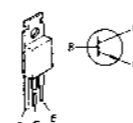
2SA937



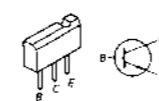
2SC945



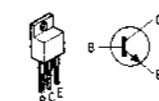
2SC1061



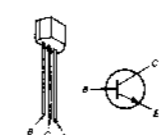
2SC2021



2SC2315



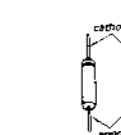
2SC2458



M4841

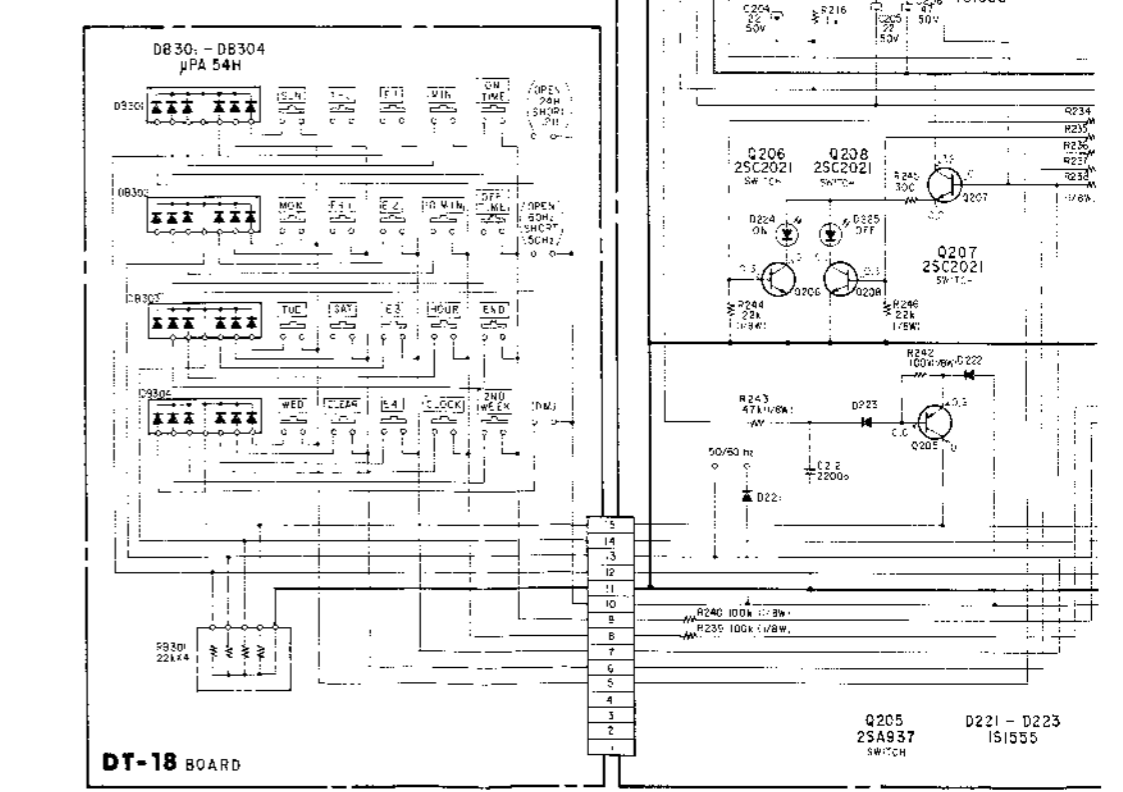
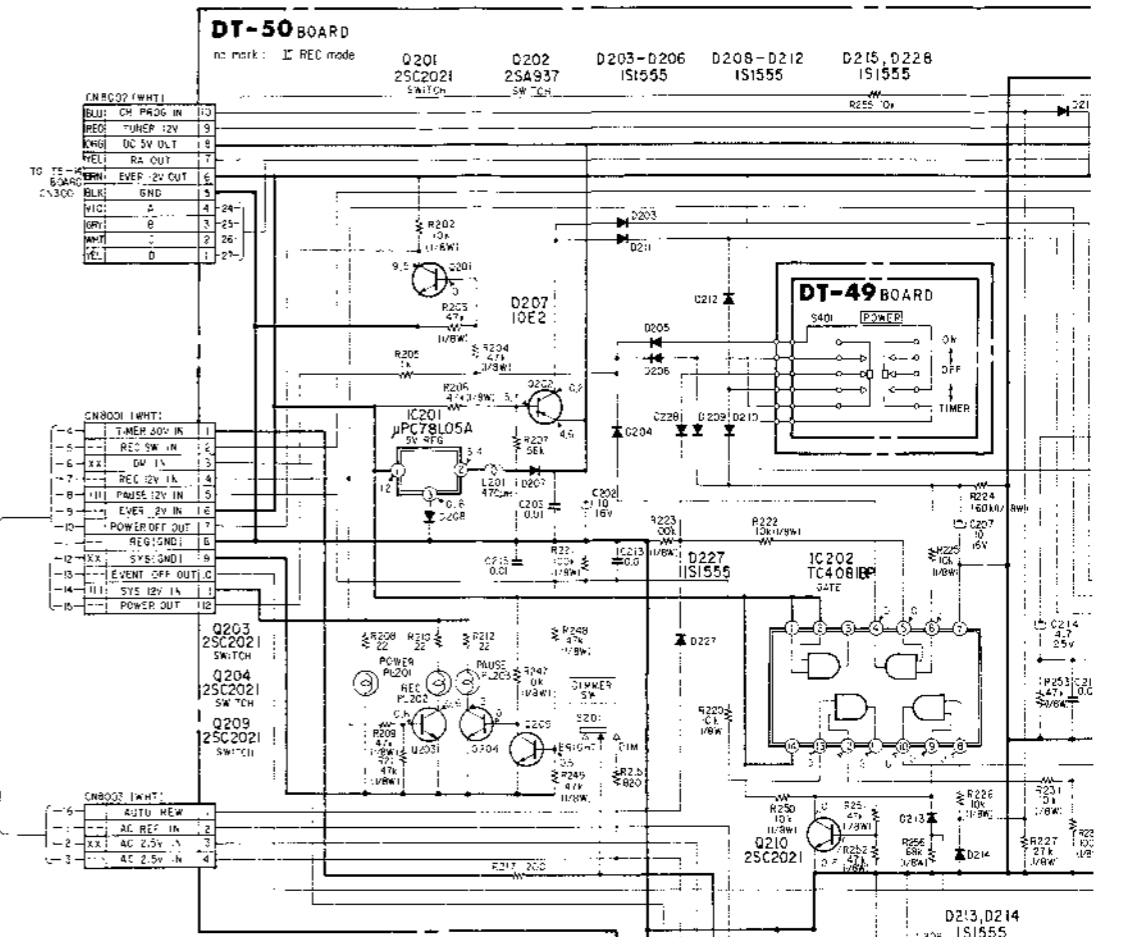
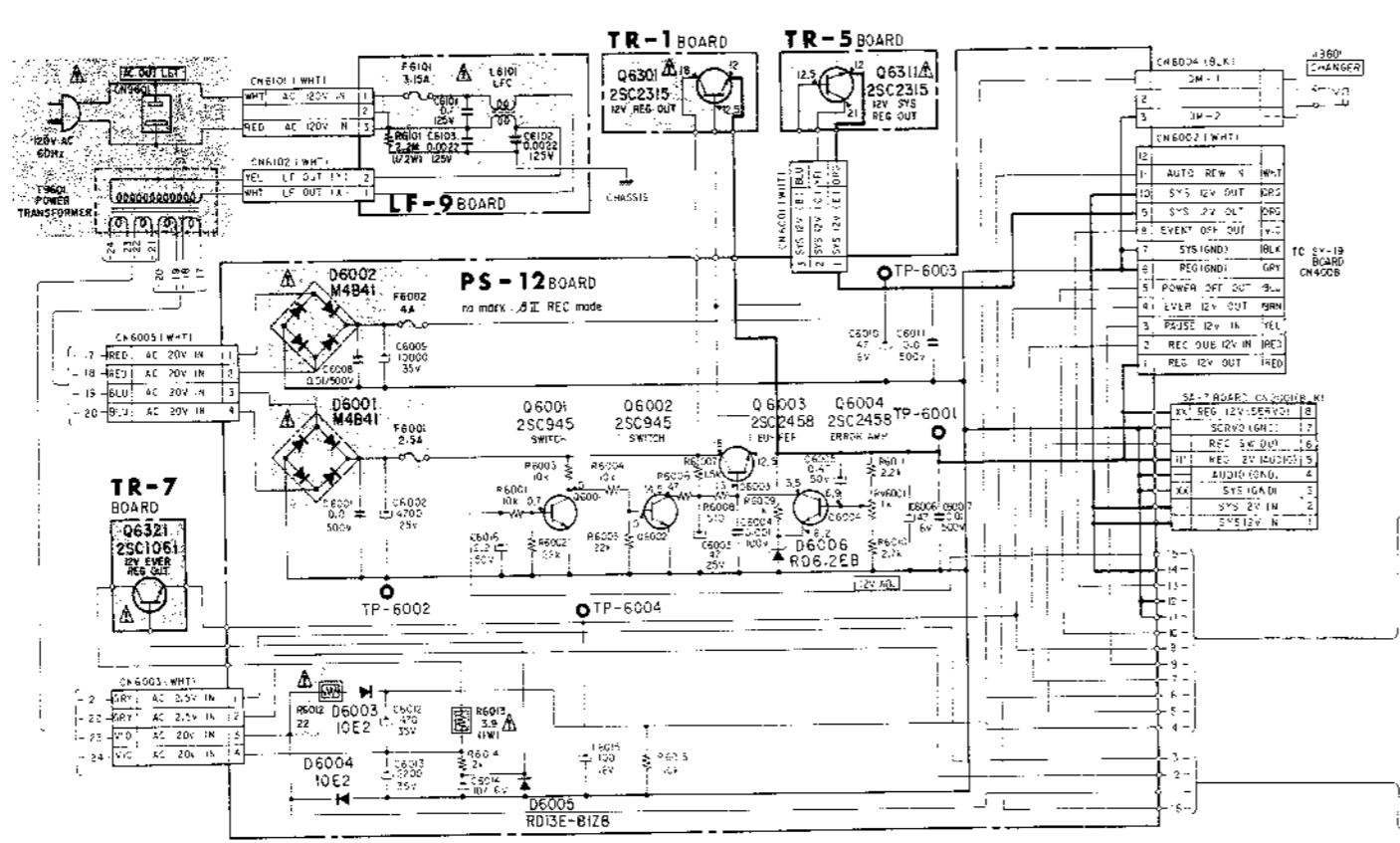


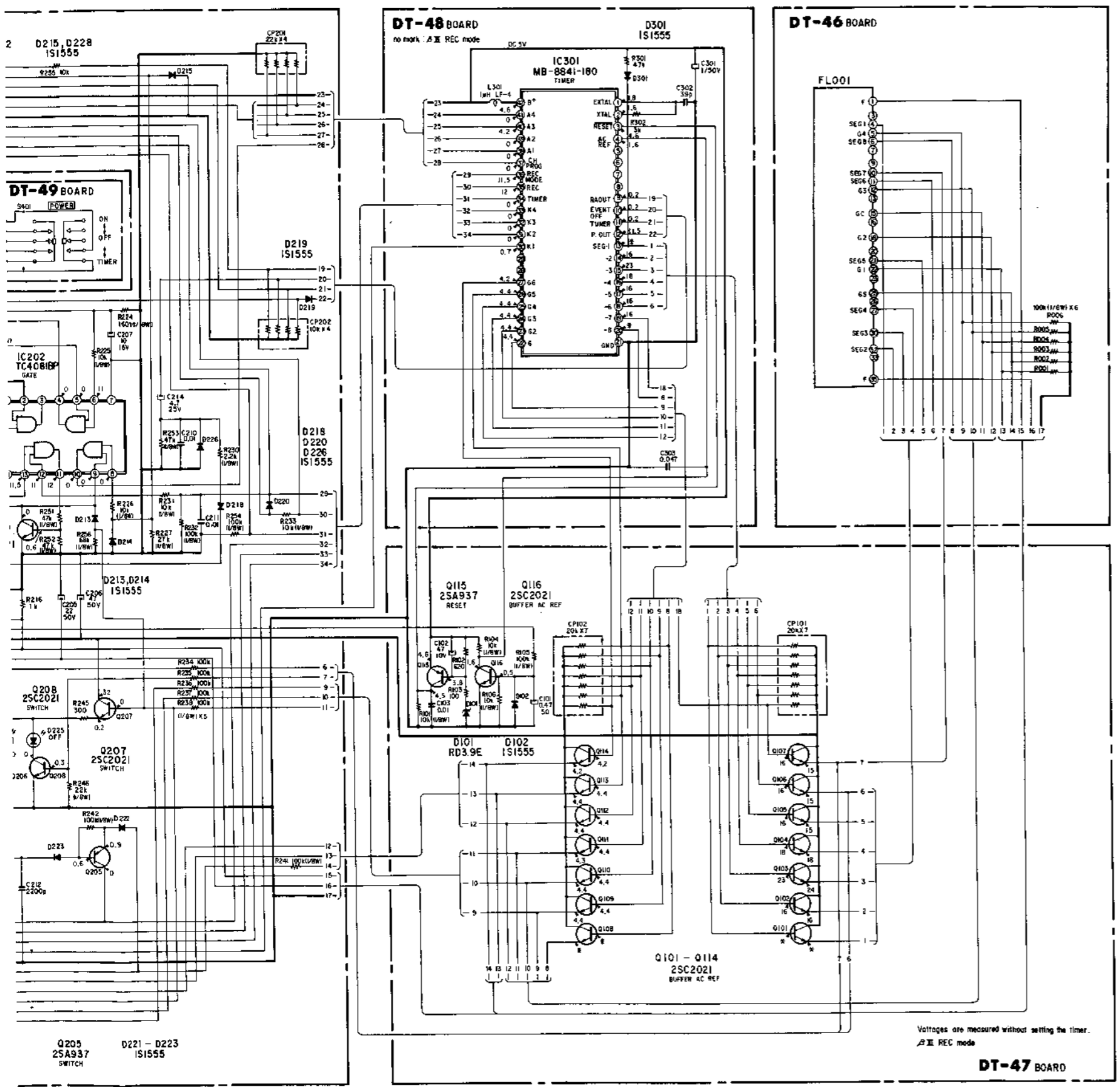
1S1555
10E2
RD3.9E
RD6.2E-B
RD13E-B1Z8



POWER SUPPLY, TIMER, POWER SUPPLY, TIMER

DT-46, DT-47, DT-48, DT-49, DT-50 AND DT-18 (PROGRAM TIMER), PS-12 (POWER SUPPLY), LF-9 (LINE FILTER), TR-1, TR-5 AND TR-7 (POWER TRANSISTOR) BOARDS SCHEMATIC DIAGRAM
 - Ref. No. DT-46, DT-47, DT-48, DT-49, DT-50 AND DT-18 BOARDS: 8000 series PS-12 BOARD: 6000 series LF-9 BOARD: 6100 series TR-1 BOARD: 6301 series TR-5 BOARD: 6311 series TR-7 BOARD: 6321 series CHASSIS: 9600 series -





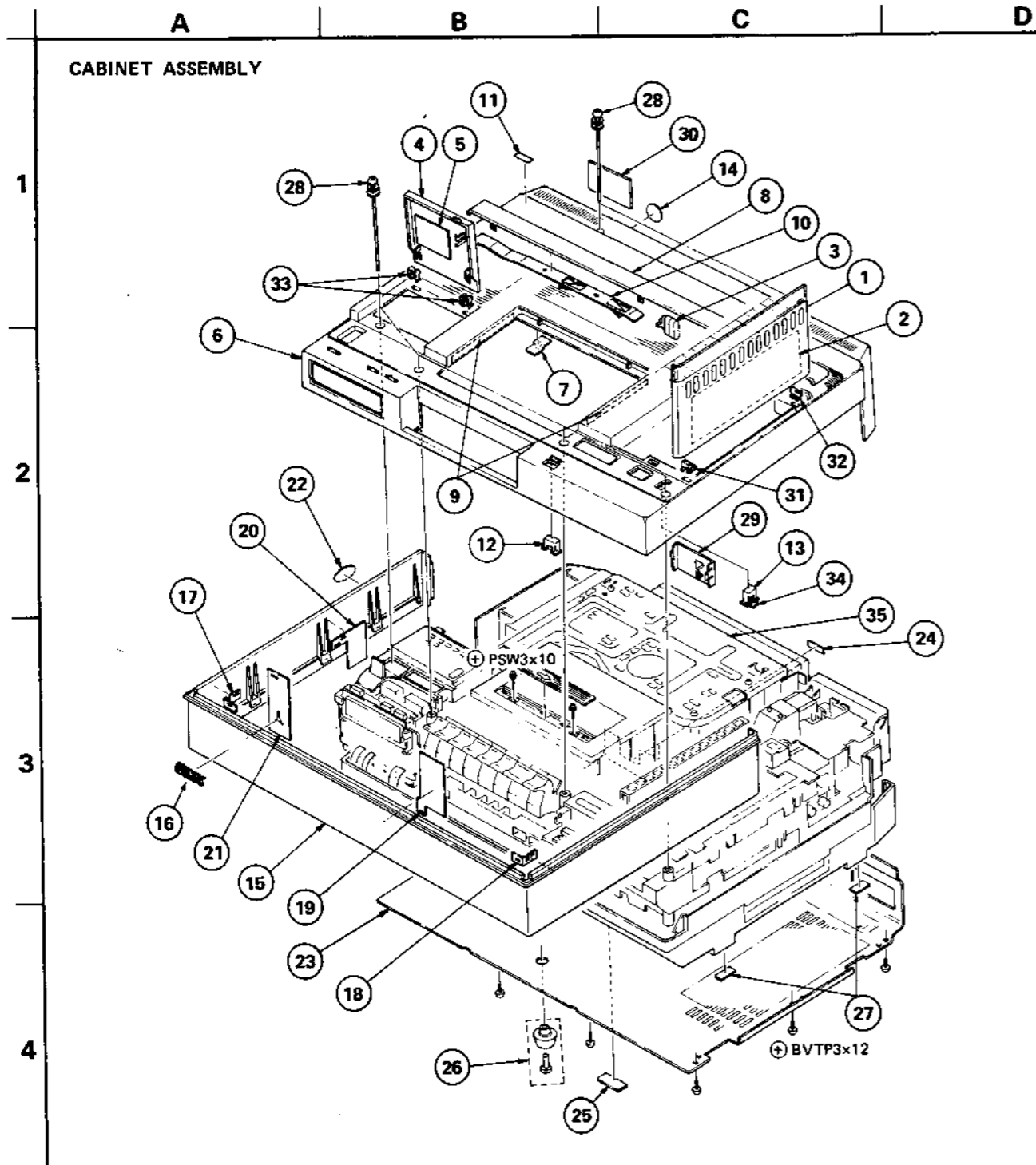
The components identified by shading and Δ mark are critical for safety. Replace only with part number specified.

- NOTES:
- All resistors are in ohms, 1/4 W unless otherwise noted. k Ω = 1000 Ω ; M Ω = 1000k Ω
 - All capacitors are in μ F unless otherwise noted. p : μ F 50WV or less are not indicated except for electrolytics.
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - \square : nonflammable resistor.
 - The red lines show the main voltages.

SECTION 3 EXPLODED VIEWS

Note:

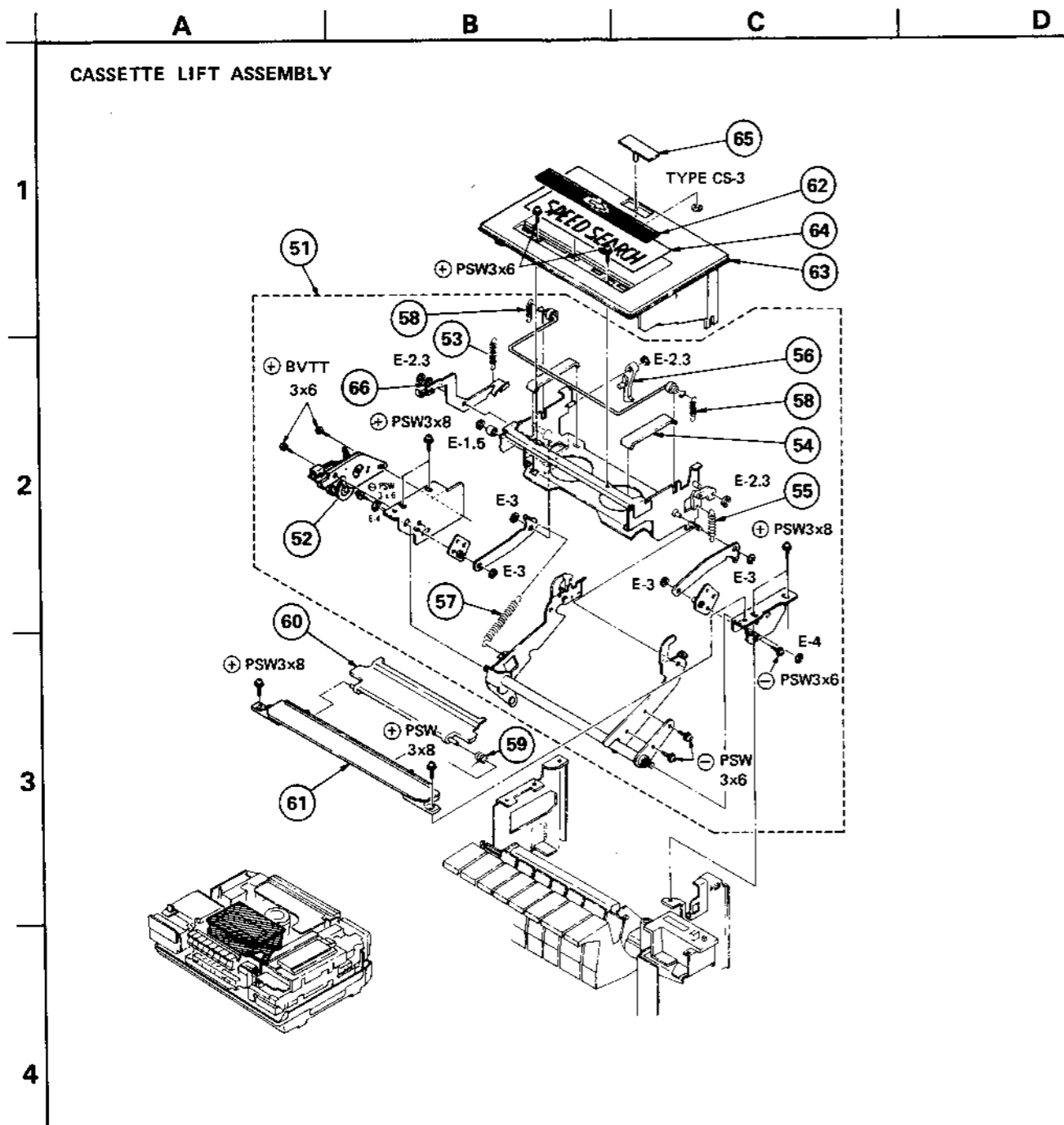
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.



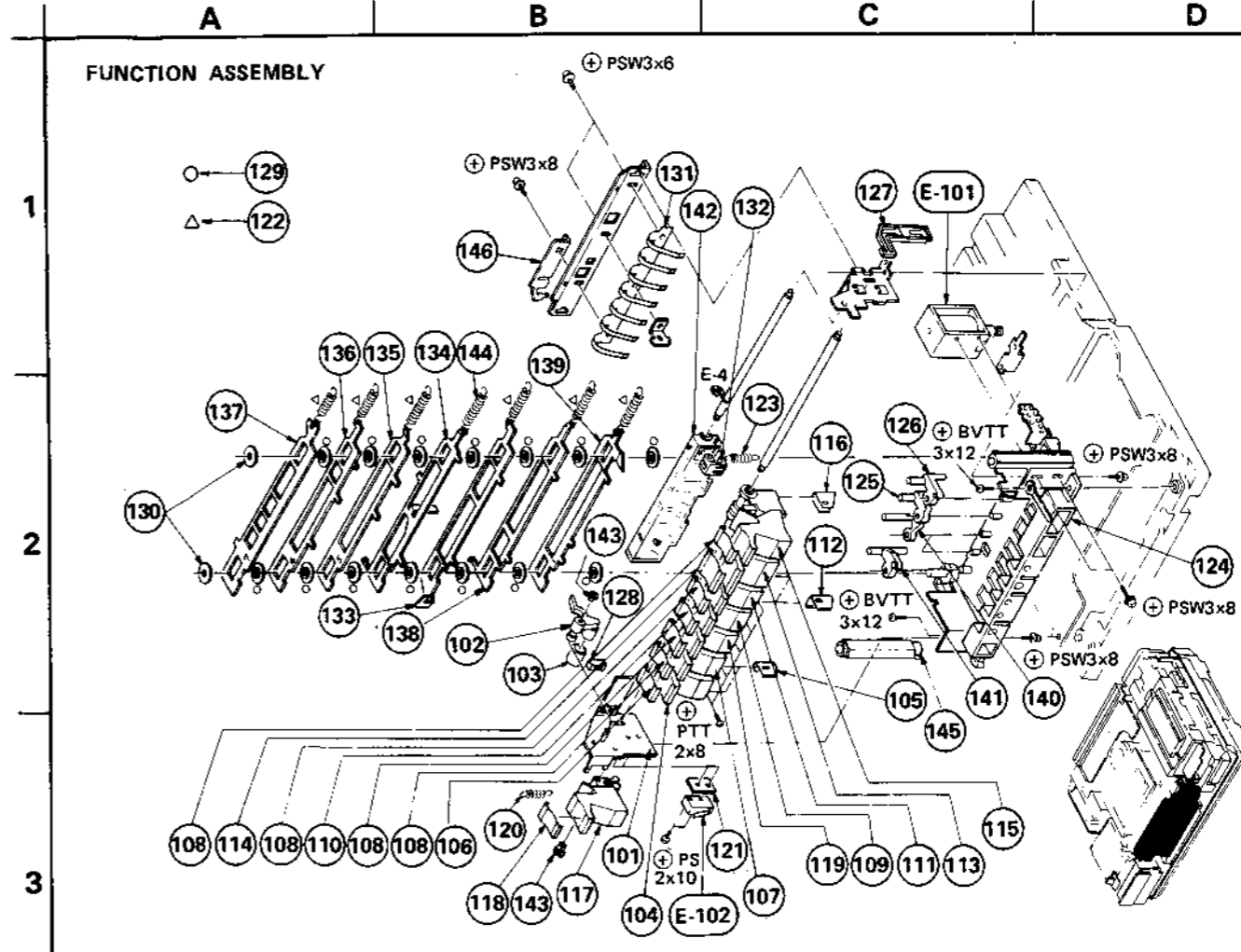
3-1

No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	X-3665-821-0	DOOR ASS'Y, tuner	2	19	▲3-663-022-00	PLATE (B), ground, inner frame	
2	3-665-823-00	LABEL, tuner cover		20	▲3-663-024-00	PLATE (C), ground, inner frame	
3	3-661-769-00	BUTTON, preset		21	▲3-663-032-00	PLATE (D), ground,	
4	X-3665-820-0	COVER ASS'Y, timer	5	22	▲3-703-184-00	LABEL, meterial indicating	
5	3-661-704-00	LABEL, timer cover		23	X-3661-593-0	PLATE ASS'Y, button (W)	24, 25
6	X-3665-801-2	CASE ASS'Y, upper	7, 8, 9, 10, 11	24	3-663-704-00	LABEL, speed selection	
7	3-659-748-00	CLOTH, masking, upper case		25	3-703-043-21	LABEL, caution main	
8	▲3-661-650-00	BAND, ornamental		26	3-659-768-00	FOOT	
9	3-661-785-11	CUSHION, cassette crevice		27	3-659-532-00	FELT, foot	
10	▲3-663-020-00	PLATE, ground, upper case		28	3-659-533-00	SCREW, cabinet	
11	▲3-703-082-31	LABEL, caution		29	3-661-612-00	COVER, switch	
12	3-661-613-00	KNOB, speed		30	▲3-665-840-00	LABEL, model number (W) (US model)	
13	3-661-614-00	BUTTON, antenna selection		31	3-663-718-00	RETAINER (A), hinge	
14	3-703-338-01	LABEL, UL (570F)		32	3-663-719-00	RETAINER (B), hinge	
15	X-3661-587-0	FRAME ASS'Y, inner	16 - 22	33	3-663-720-00	RETAINER (C), hinge	
16	3-548-973-00	EMBLEM, SONY		34	4-859-909-01	SPACER, switch	
17	▲3-663-018-00	PLATE (A), ground		35	▲3-661-757-00	COVER, shield	
18	▲3-663-019-00	PLATE (B), ground					

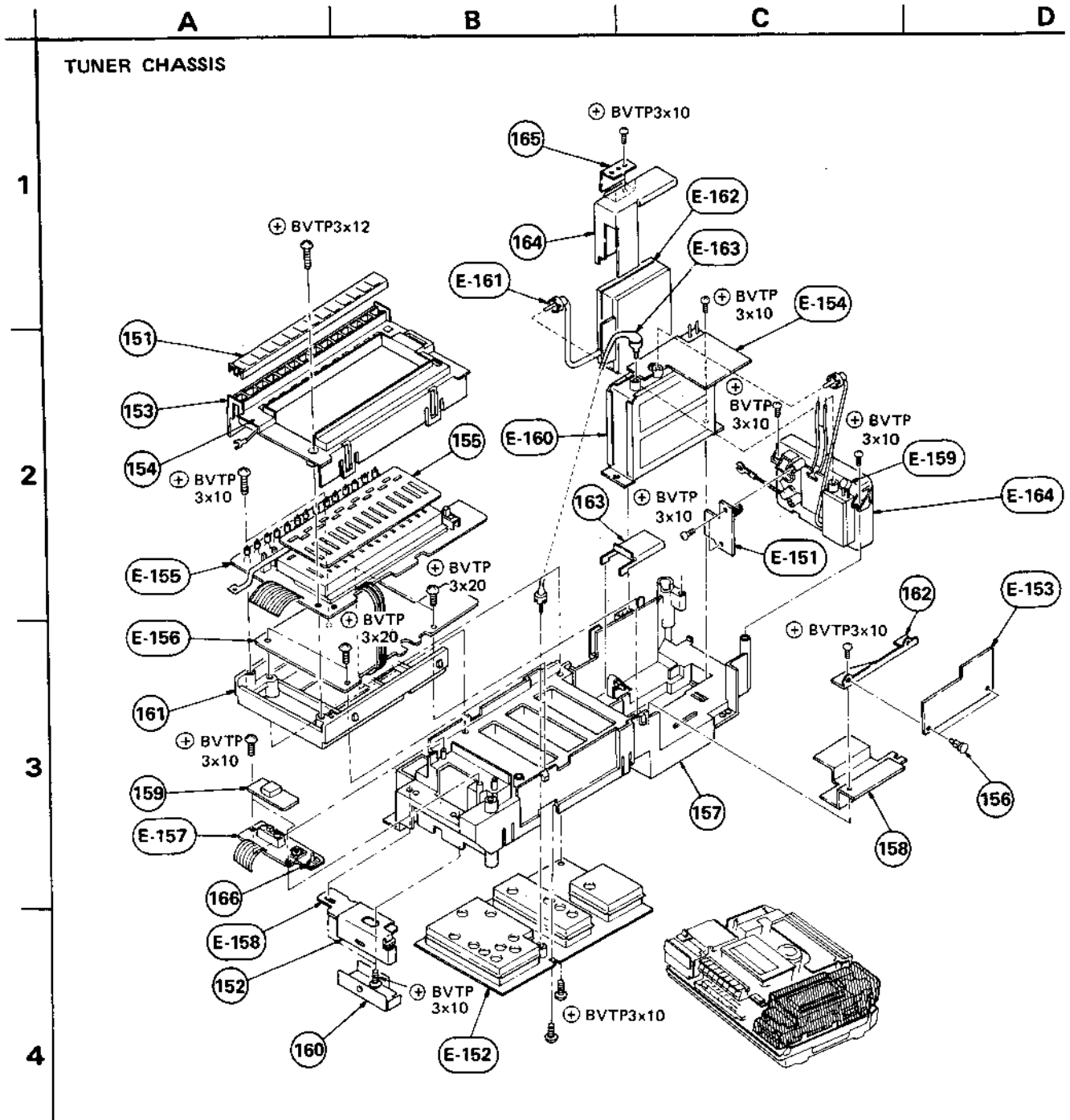
3-2



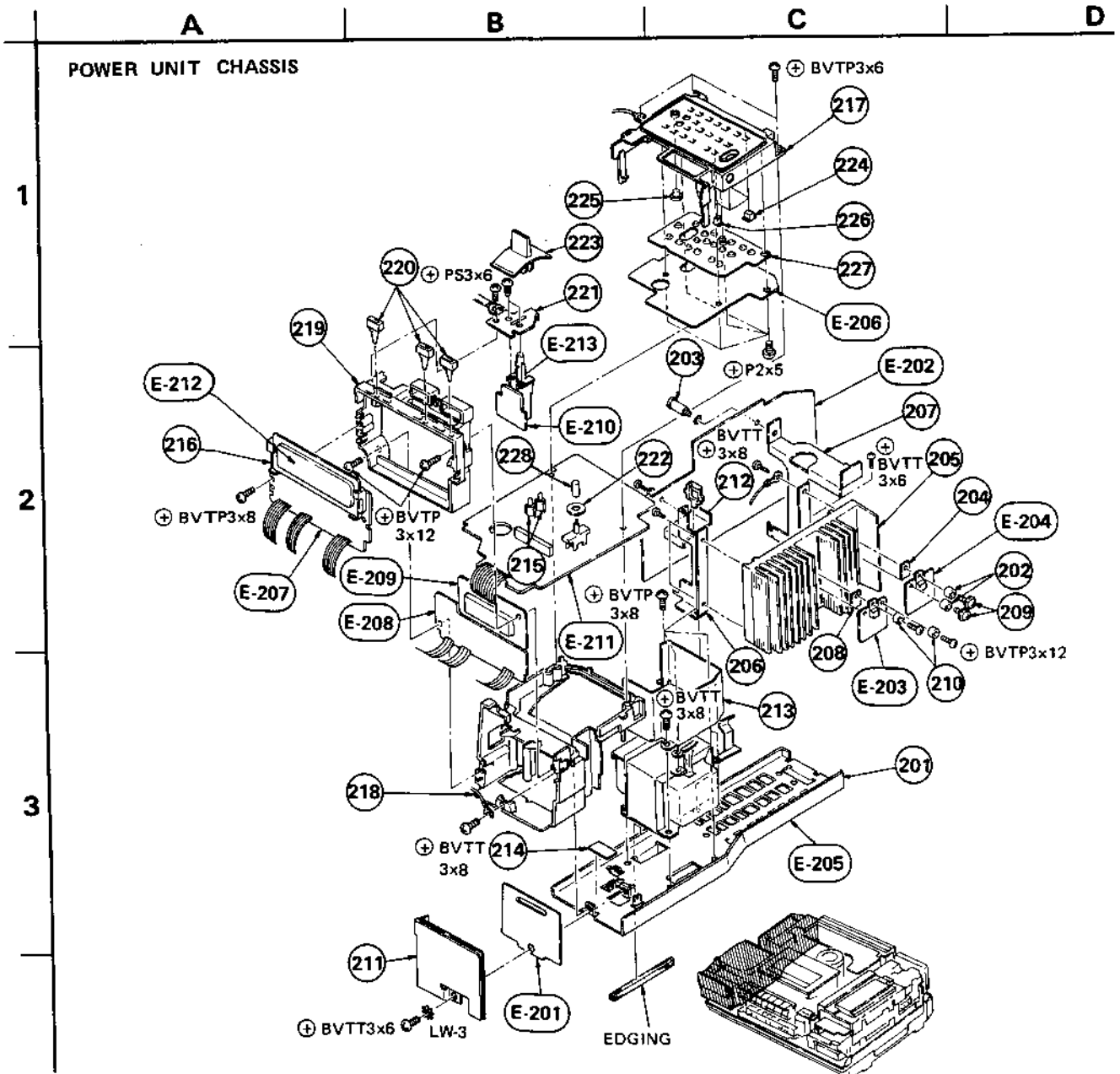
No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	A-6751-061-A	CASSETTE-UP BLOCK ASS'Y - 52 - 58, 66		59	3-659-531-00	SPRING	
52	A-6751-079-A	DAMPER ASS'Y, rotary		60	3-659-583-00	PLATE, blind cassette	
53	3-491-359-00	SPRING, tension		61	3-661-681-21	GUIDE, cassette	
54	3-659-498-00	CUSHION, cassette holder		62	3-659-585-00	STRIP, ornamental, cassette	
55	3-642-490-00	SPRING, tension		63	X-3665-811-1	LID ASS'Y, cassette-up ----- 64	
56	3-659-579-00	LEVER, release, lid lock		64	3-665-827-01	STICKER, 5800	
57	3-659-635-00	SPRING, tension		65	X-3658-101-0	EMBLEM ASS'Y (P)	
58	3-659-636-00	SPRING, tension		66	3-701-439-01	WASHER	



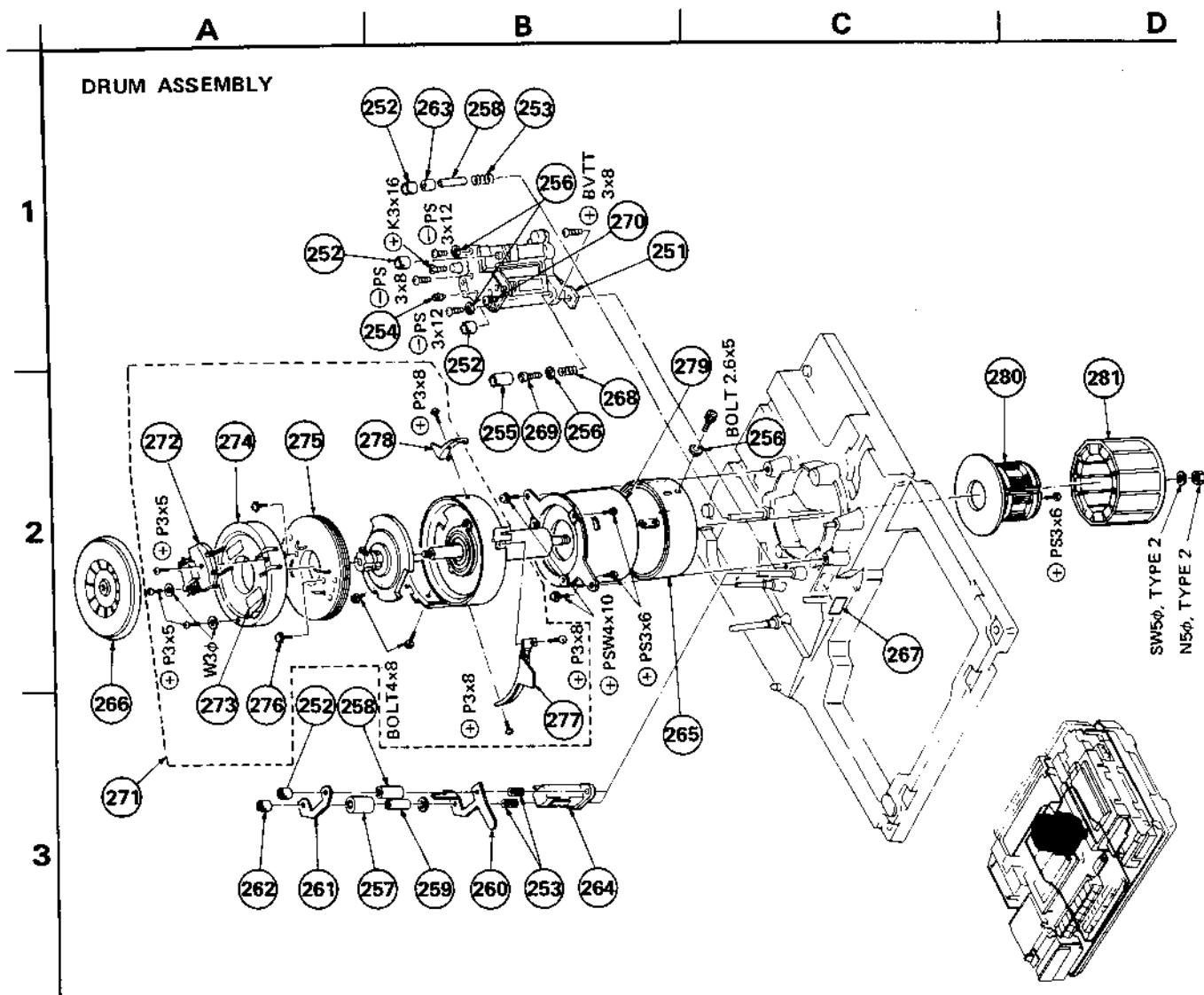
No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
101	X-3661-517-0	PLATE ASS'Y, side left		124	3-661-555-00	FRAME, lower	
102	X-3661-519-0	LEVER ASS'Y, release, lock plate -	103	125	3-661-578-02	LEVER, change, FF	
103	3-661-588-00	SPACER		126	3-661-579-00	LEVER, change, REC	
104	X-3661-534-0	BUTTON ASS'Y, eject -----	105, 106	127	3-661-581-00	PLATE, release	
105	3-661-634-00	PROTECTOR (3)		128	3-661-584-00	RUBBER, silence	
106	3-661-635-11	PLATE (1), ornamental		129	3-661-610-00	SPACER (6-8), slide plate	
107	X-3661-535-0	BUTTON ASS'Y, REW -----	105, 108	130	3-661-611-00	POLY-SLIDER (6-14)	
108	3-661-635-01	PLATE (1), ornamental		131	3-661-636-00	SPRING	
109	X-3661-537-0	BUTTON ASS'Y, FWD -----	110	132	3-661-640-00	PLATE (2), lock	
110	3-661-635-21	PLATE (1), ornamental		133	3-661-661-02	PLATE, FF	
111	X-3661-538-0	BUTTON ASS'Y, FF -----	110, 112	134	3-661-662-00	PLATE, FWD	
112	3-661-633-00	PROTECTOR (2)		135	3-661-663-00	PLATE, EJECT	
113	X-3661-539-0	BUTTON ASS'Y, REC -----	112, 114	136	3-661-664-02	PLATE, REC	
114	3-661-632-00	PLATE (2), ornamental		137	3-661-665-02	PLATE, MB	
115	X-3661-540-0	BUTTON ASS'Y, DUB -----	110, 116	138	3-661-666-02	PLATE, REW	
116	3-661-585-00	PROTECTOR (1)		139	3-661-667-00	PLATE, DUB	
117	X-3661-541-0	BUTTON ASS'Y, PAUSE -----	118	140	3-661-671-00	LEVER, release, FWD	
118	3-661-631-00	PLATE (3), ornamental		141	3-661-676-00	LEVER, release, EJECT/REW	
119	X-3665-809-1	BUTTON ASS'Y, STOP -----	110	142	3-661-684-00	PLATE (1), lock	
120	3-143-117-00	SPRING, tension		143	3-703-074-00	CAP 3, shaft	
121	3-534-263-00	INSULATOR		144	4-859-001-00	SPRING, tension	
122	3-536-006-XX	SPRING, tension		145	3-661-575-00	SUPPORT	
123	3-630-622-00	SPRING		146	3-665-847-00	HOOK, SPRING, SB	



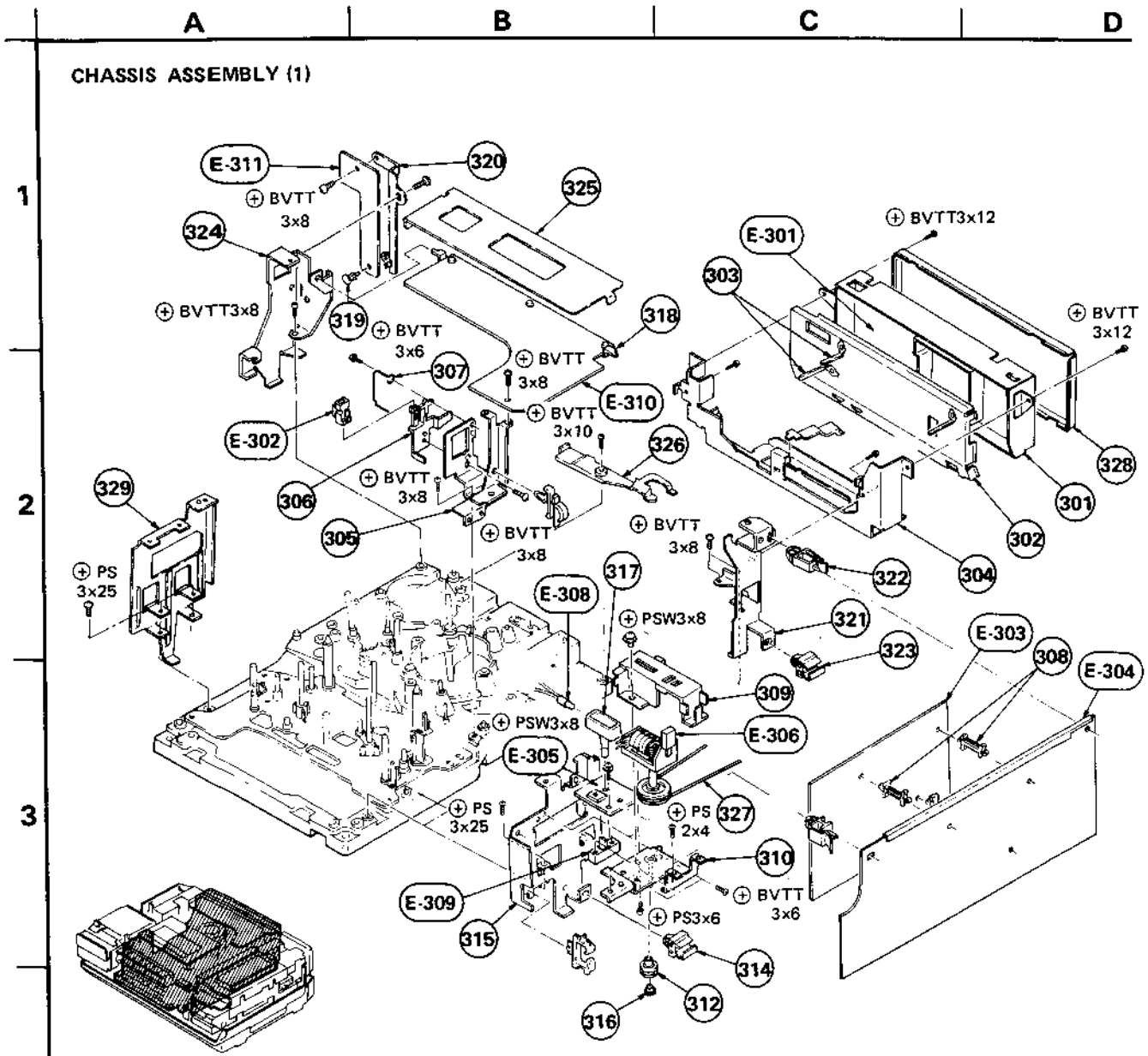
No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
151	3-661-647-04	HOLDER, indicator		159	3-661-619-00	KNOB, slide	
152	3-661-723-00	CASE, shield (main)		160	3-661-724-00	LID, shilde case	
153	X-3661-579-0	COVER ASS'Y, tuner (W)	154	161	3-661-753-00	FRAME (M), tuner	
154	3-661-590-0	LABEL ASS'Y, selection button		162	3-665-807-00	HOLDER, PC board, TU	
155	X-3661-586-0	PLATE ASS'Y, ornamental, preset		163	3-665-808-00	DECK, RF-M	
156	3-646-090-00	RIVET, nylon		164	3-665-812-00	PLATE, shield, RF-M	
157	3-661-562-00	FRAME, tuner		165	3-665-834-00	COVER, modulator	
158	3-661-618-00	PLATE, shield		166	3-659-792-00	HOLDE (D), LED	



<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
201	3-659-672-00	CHASSIS, power unit		215	3-661-576-00	HOLDER, LED	
202	2-832-007-00	BUSHING (K), insulating		216	3-661-677-00	HOLDER (W), indication tube	
203	3-659-743-00	SCREW, step		217	X-3661-580-0	PANEL ASS'Y, timer control	
204	3-660-978-00	SHEET, heat resisting		218	3-659-674-00	FRAME, rear timer	
205	3-664-413-00	HEAT SINK		219	3-661-559-00	FRAME (W), front timer	
206	3-665-805-02	BRACKET (B), heat sink		220	3-661-615-00	HOLDER, interception	
207	3-665-811-02	BRACKET (A), heat sink		221	3-661-623-00	BRACKET (W), power switch	
208	3-701-754-00	PLATE, insulating		222	3-661-624-00	SHEET (W), blind	
209	4-309-405-00	TAPPING, screw		223	3-661-645-00	KNOB, power switch	
210	4-857-425-00	BUSHING, 03P insulating		224	3-661-725-11	KEY TOP (A)	
211	X-3661-582-0	PLATE ASS'Y, shield, AC		225	3-661-766-00	KEY TOP (B)	
212	3-665-806-00	PLATE, shield, heat		226	3-661-768-00	KEY TOP (E)	
213	3-659-670-00	PLATE, shield, transformer		227	3-661-771-00	KEY, rubber	
214	3-703-044-26	LABEL, caution		228	3-659-521-01	KNOB, switch, lever slide	

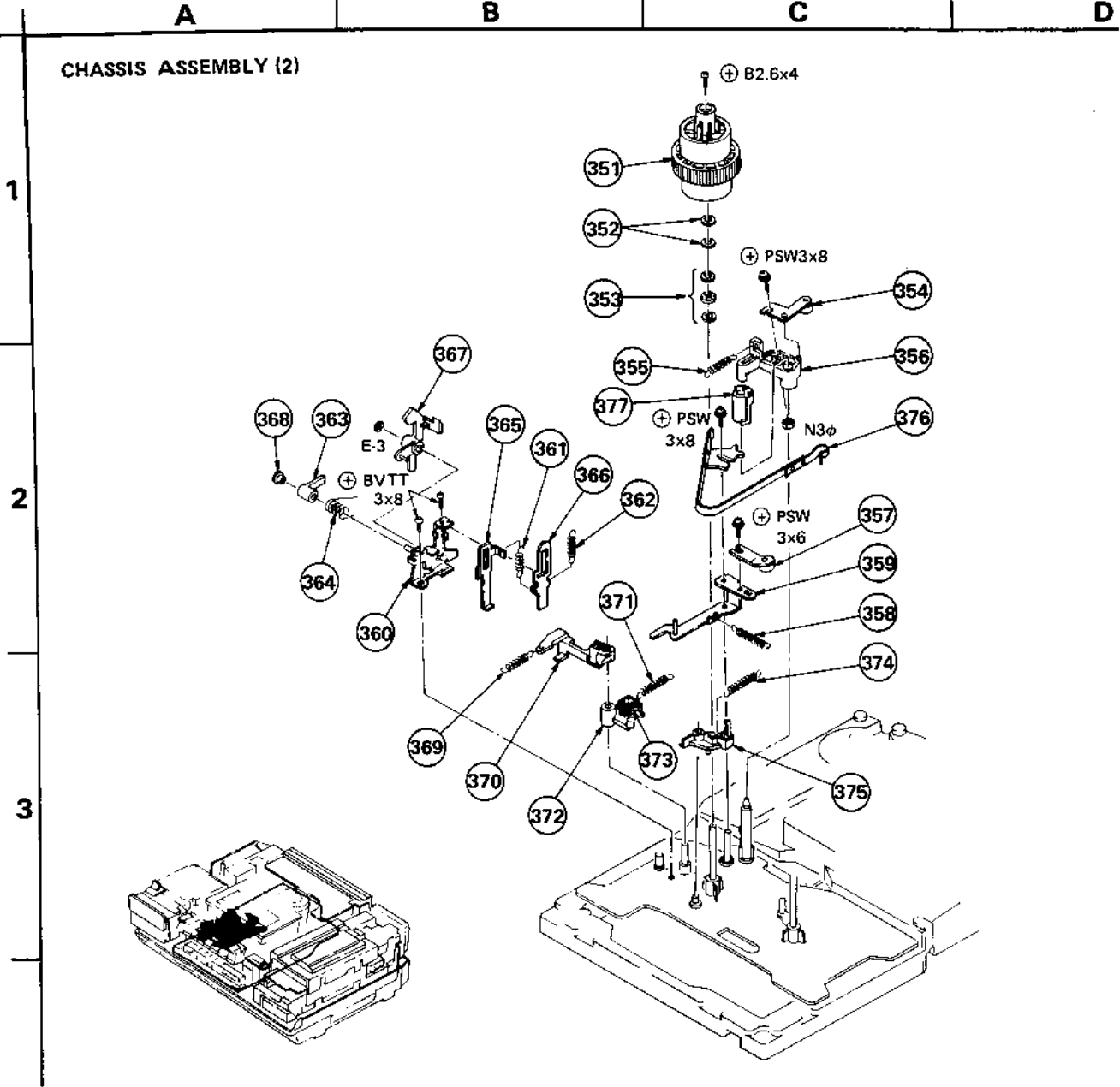


No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
251	A-6761-034-A	A.C.E ASS'Y		267	3-660-902-00	LABEL, ID	
252	3-645-562-00	NUT		268	3-659-750-00	SPRING, compression	
253	3-659-324-00	SPRING, compression		269	3-659-751-00	SCREW, A.C.E, adjustment	
254	3-659-332-00	SCREW		270	3-645-513-00	SPRING, head deck adjustment	
255	3-659-752-00	NUT, A.C.E lock		271	A-6050-086-A	DRUM ASS'Y	
256	3-845-490-00	WASHER		272	A-6761-013-B	SPRING ASS'Y, tape retainer	
257	X-3659-304-0	ROLLER ASS'Y, guide, No. 1		273	3-663-601-21	LABEL	
258	3-659-342-00	SLEEVE, guide, No. 2		274	A-6760-042-A	DRUM SUB ASS'Y, upper	
259	3-659-341-00	SLEEVE, guide, No. 1		275	A-6762-052-A	VIDEO HEAD DISK ASS'Y	
260	3-659-343-00	BRACKET, tape, entrance		276	3-652-751-00	SCREW, + P 3x8	
261	3-659-344-00	PLATE, guide, entrance		277	3-652-741-00	BRACKET (A), tape	
262	3-659-345-00	NUT, guide, No. 1		278	3-652-728-00	BRACKET (B), tape	
263	3-659-716-00	FLANGE, guide		279	X-3652-713-0	CASE ASS'Y, shield	
264	8-825-687-30	HEAD, full erase EF182-21		280	X-2619-403-0	STATOR ASS'Y	
265	X-3659-376-0	SHIELD ASS'Y, drum		281	X-2619-402-0	ROTOR ASS'Y	
266	3-658-122-00	FAN					

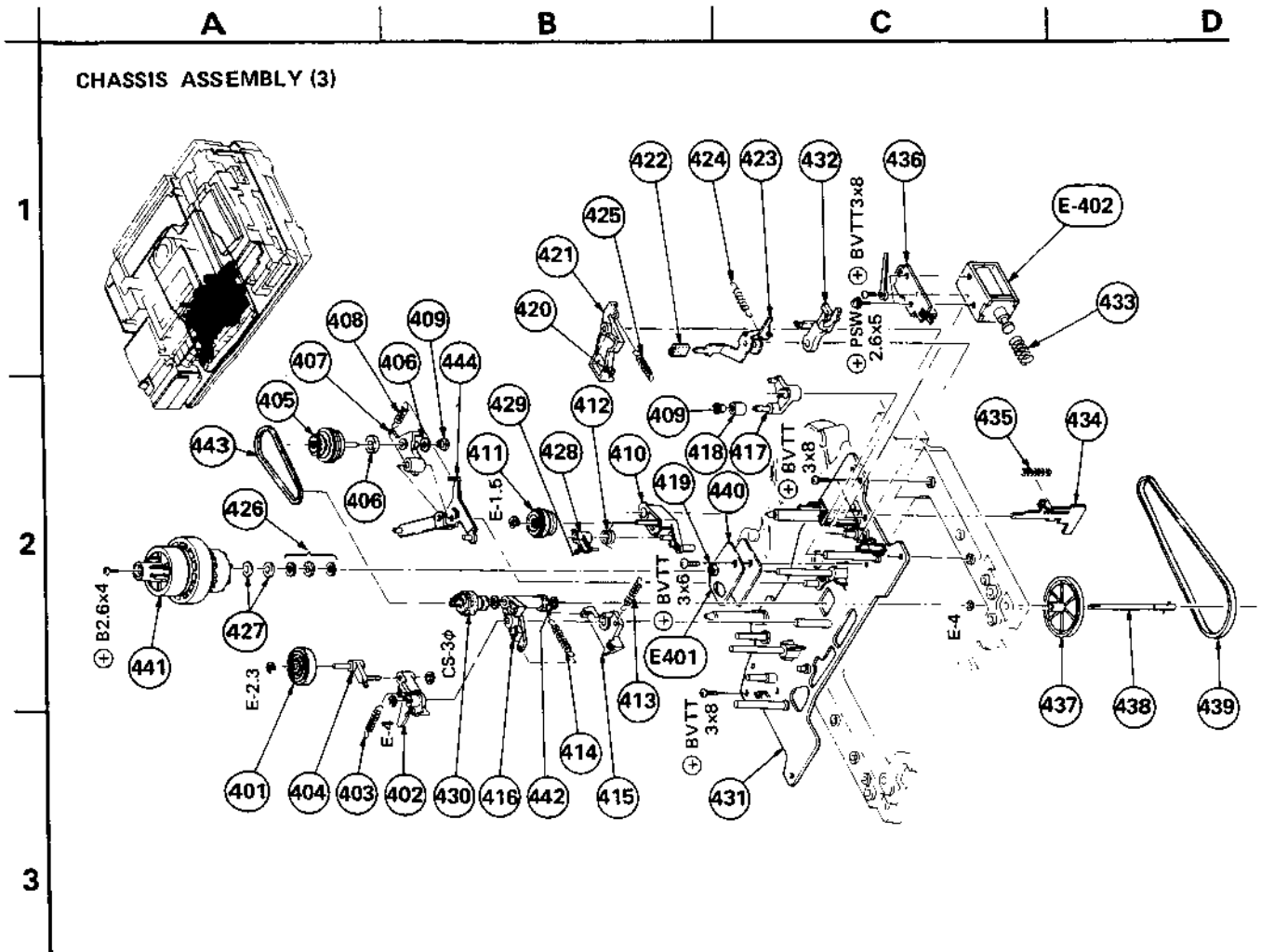


No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
301	◆X-3659-339-0	CASE (A) MAIN ASS'Y, shield		316	3-703-075-00	CAP 2, shaft	
302	◆3-659-661-00	LID, upper, shield case (A)		317	◆3-661-615-00	HOLDER, interception	
303	◆4-857-472-00	CLAMP		318	◆3-661-747-00	HOLDER, ID-2	
304	◆X-3661-510-3	HOLDER ASS'Y, shield case		319	3-646-090-00	RIVET, nylon	
305	◆X-3661-567-0	OPENER ASS'Y, lid		320	3-661-703-02	HOLDER, DS-3 board	
306	◆3-659-548-00	HOLDER, T sensor		321	◆3-661-755-00	LEG, rear (right)	
307	3-659-762-02	ARM, ejector static		322	◆3-659-681-00	HOLDER, PC board	
308	◆3-661-764-00	HOLDER, PCB		323	◆3-659-682-00	HOLDER, PC board	
309	X-3665-819-0	COVER ASS'Y, counter		324	◆3-661-756-00	LEG, rear (left)	
310	◆X-3661-513-0	BRACKET ASS'Y, counter		325	◆3-663-009-00	SPACER, ID-2	
312	3-659-484-00	PULLEY, midway counter		326	◆3-659-303-00	RETAINER (SMALL), harness	
314	◆3-659-682-00	HOLDER, PC board		327	3-661-565-00	BELT, counter	
315	◆3-661-670-00	BRACKET (1), cassette right		328	◆3-659-549-00	LID, bottom, shield case (A)	
				329	◆3-661-646-00	BRACKET, cassette-up (left)	

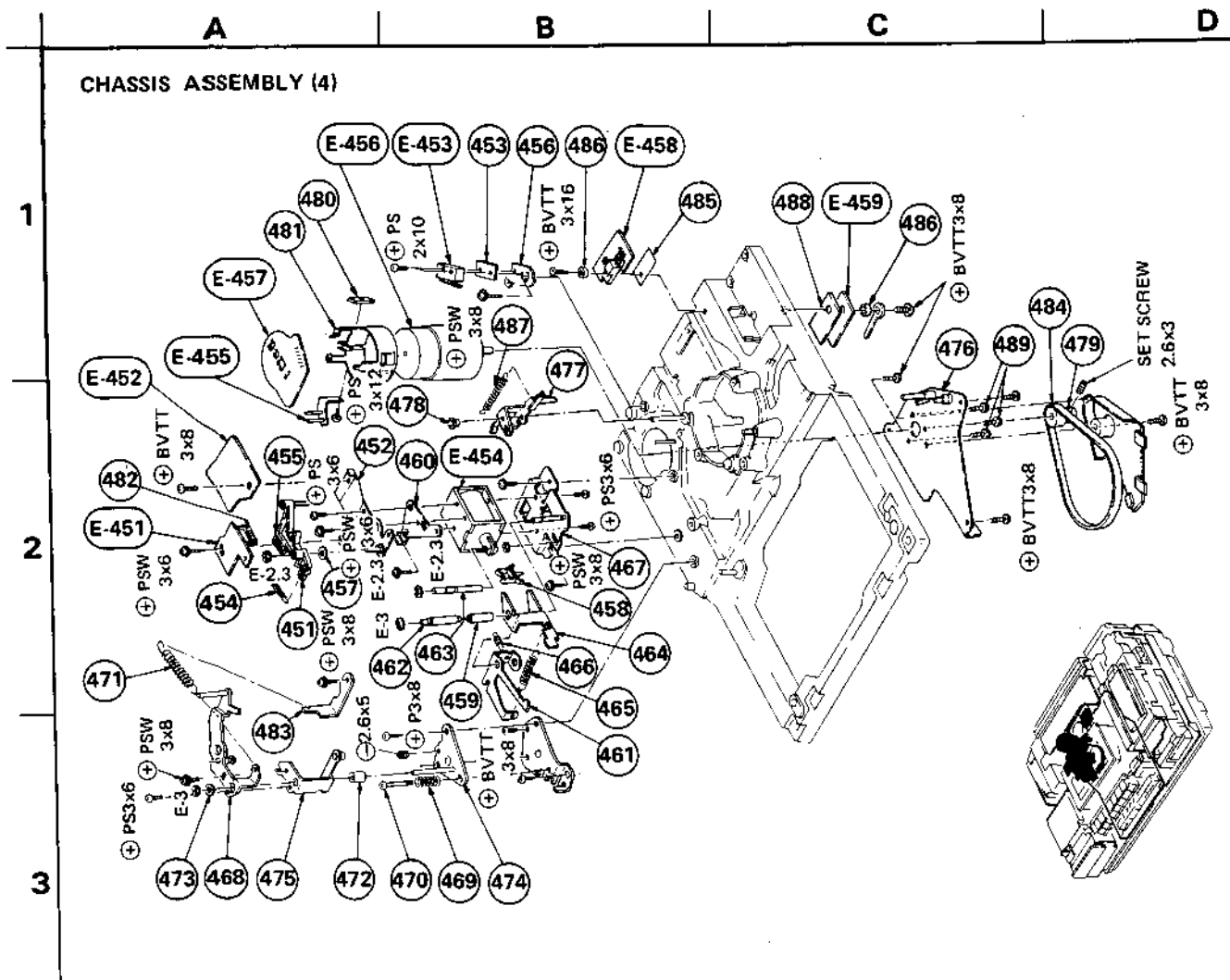
CHASSIS ASSEMBLY (2)



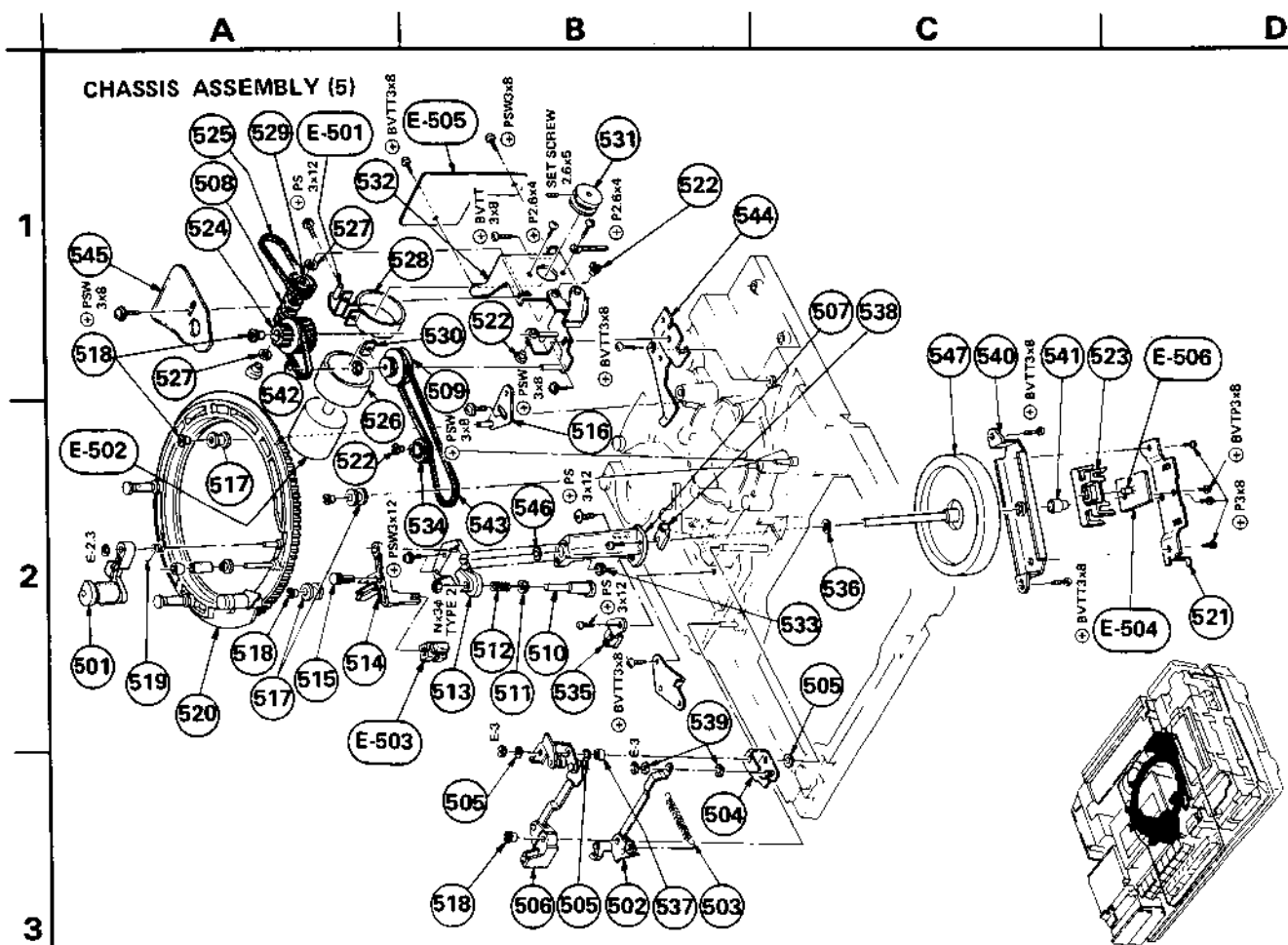
No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
351	X-3659-315-3	REEL ASS'Y, S		364	3-659-455-00	SPRING	
352	3-646-184-00	SPACER 0.2mm		365	3-659-457-00	PLATE, slide, MS	
	3-646-184-11	SPACER 0.1mm		366	3-659-458-00	DETECTION, cassette	
353	3-646-185-00	BEARING		367	3-659-624-00	LOCK, cassette compartment	
354	X-3659-326-0	ARM ASS'Y, cassette compartment		368	3-703-074-00	CAP 3, shaft	
355	3-537-205-00	SPRING, tension		369	3-648-626-00	SPRING, tension	
356	3-659-562-00	ARM (1), cassette compartment		370	3-659-567-00	BRAKE, soft	
357	X-3659-323-0	PLATE ASS'Y, adjustment, R		371	3-534-217-00	SPRING, tension	
358	3-143-060-00	SPRING, tension		372	3-659-445-00	BRAKE, S	
359	3-659-322-0	ARM ASS'Y, ring		373	3-659-446-00	LINING, brake	
360	3-659-317-0	BRACKET ASS'Y, lock		374	3-536-006-02	SPRING, tension	
361	3-492-150-00	SPRING, tension		375	3-661-564-00	LEVER, press, REW	
362	3-532-725-00	SPRING, tension		376	X-3659-328-2	BAND ASS'Y, tension regulator	
363	3-659-454-00	ARM, ring lock		377	3-660-916-00	STOPPER, END	



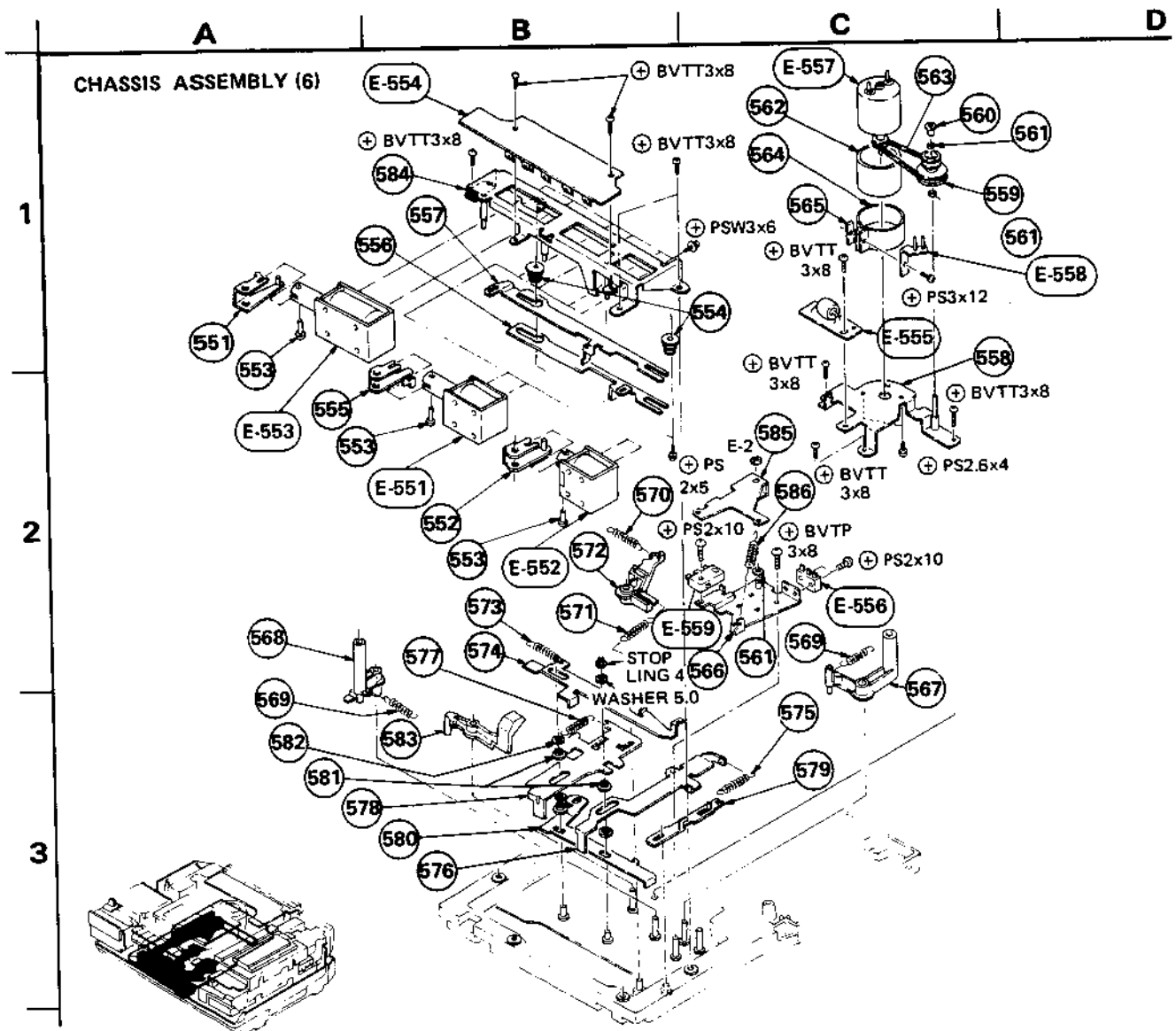
<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
401	X-3653-315-0	IDLER ASS'Y		423	3-660-983-00	BRAKE, P	
402	3-X-3659-318-0	BRACKET ASS'Y, adjustment		424	3-660-984-00	SPRING, tension	
403	3-642-483-00	SPRING, tension		425	3-534-217-00	SPRING, tension	
404	3-659-416-00	LEVER, REW		426	3-646-185-00	BEARING	
405	X-3653-310-0	LIMITER ASS'Y, forward		427	3-646-184-00	SPACER	
406	3-701-437-21	WASHER		428	3-659-431-00	CLAW, ratchet	
407	X-3659-410-0	ARM ASS'Y, FWD		429	3-553-038-00	SPACER, EBF	
408	3-642-483-00	SPRING, tension		430	X-3661-520-0	PULLEY ASS'Y, midway	
409	3-703-075-00	CAP 2, shaft		431	3-X-3659-347-0	CHASSIS ASS'Y, mechanism	
410	3-X-3659-325-0	ARM ASS'Y, E idler		432	3-660-982-00	ARM, PB press	
411	X-3664-319-0	IDLER ASS'Y, E		433	3-660-985-00	SPRING, compression	
412	3-659-432-00	SPRING		434	3-659-456-00	PLATE, erasing protection	
413	3-642-483-00	SPRING, tension		435	3-646-312-00	SPRING	
414	3-645-168-00	SPRING, tension		436	3-659-470-00	BASE, PB, solenoid	
415	3-659-564-00	LEVER, FF press		437	3-664-372-00	PULLEY, mechanism	
416	X-3659-309-3	ARM ASS'Y, FF		438	X-3664-302-0	SHAFT ASS'Y, pulley, mechanism	
417	3-X-3659-311-0	ARM ASS'Y, TB		439	3-664-306-00	BELT, relay	
418	3-659-464-00	ROLLER, TB arm		440	3-665-826-00	SHEET, insulating RL	
419	3-665-825-01	HOLDER, photo		441	X-3665-816-0	TABLE ASS'Y, reel, T	
420	3-659-446-00	LINING, brake		442	3-701-439-21	WASHER	
421	3-659-791-02	BRAKE, T		443	3-653-324-00	BELT, FWD	
422	3-538-051-11	RUBBER, brake		444	X-3659-319-0	LEVER ASS'Y, FWD	



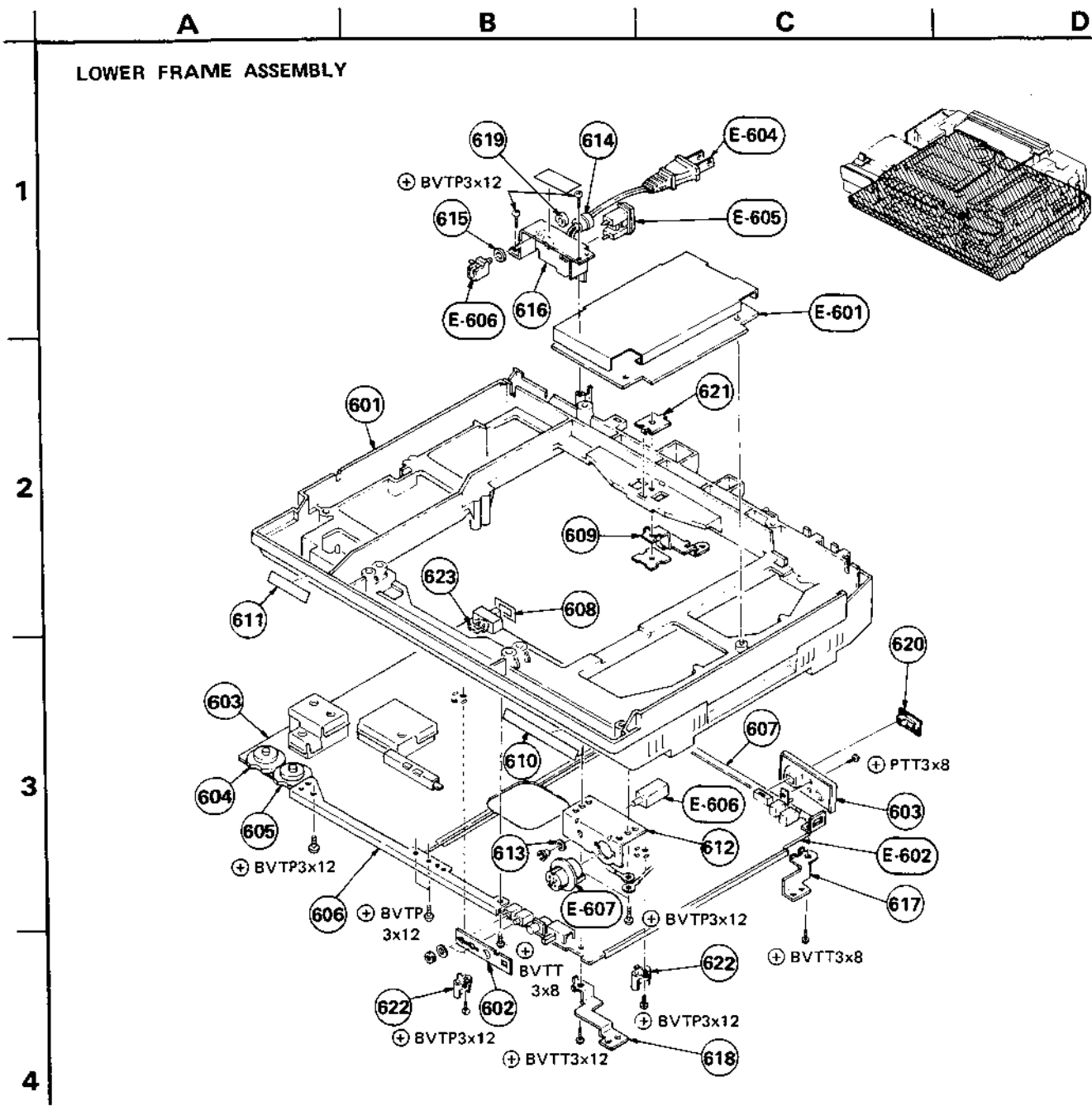
<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
451	X-3659-310-0	ARM ASS'Y, detection, slack		471	3-659-378-02	SPRING, tension	
452	◆X-3659-380-0	BASE ASS'Y		472	3-659-757-00	SPACER	
453	3-534-263-00	INSULATOR		473	3-659-758-00	WASHER	
454	3-542-476-00	SPRING, tension		474	◆X-3659-305-0	PLATE ASS'Y, adjustment	
455	3-646-571-00	MAGNET		475	◆X-3659-369-0	ARM ASS'Y, tension regulator	
456	◆3-659-360-00	BRACKET, threading end MS		476	◆X-3664-303-0	BRACKET ASS'Y, motor, capstan	
457	3-701-439-11	WASHER		477	◆3-659-557-05	ARM, lock, keep	
458	◆3-644-407-00	CLIP, AC, wire		478	3-703-074-00	CAP 3, shaft	
459	◆3-658-194-00	SPACER (4-25)		479	3-664-311-00	PULLEY, motor	
460	◆3-659-775-00	PLATE, adjustment, lever shaft		480	◆3-664-338-00	PLATE, nut, M3	
461	◆3-659-777-00	LEVER (B), pinch press		481	◆3-664-422-00	HOLDER, NF-1	
462	◆3-659-778-00	SHAFT, pinch press lever		482	◆3-659-359-00	PLATE, boost, reed switch	
463	◆3-659-780-00	PIN, lever, pinch press		483	◆3-659-319-00	PLATE, adjustment, BT	
464	◆3-659-781-00	LEVER (A), pinch press		484	3-664-310-00	BELT, capstan	
465	3-659-784-00	SPRING, tension		485	3-701-754-00	PLATE, insulating	
466	3-659-785-00	SPRING, tension		486	4-857-425-00	BUSHING, 03P insulating	
467	◆3-659-789-00	BASE, pinch plunger		487	3-530-255-01	SPRING, tension	
468	◆X-3659-370-2	PLATE ASS'Y, arm		488	3-701-754-00	PLATE, insulating	
469	3-652-413-00	SPRING, compression		489	3-701-468-00	SCREW, + PS2x4	
470	◆3-437-173-02	SCREW, head adjusting					



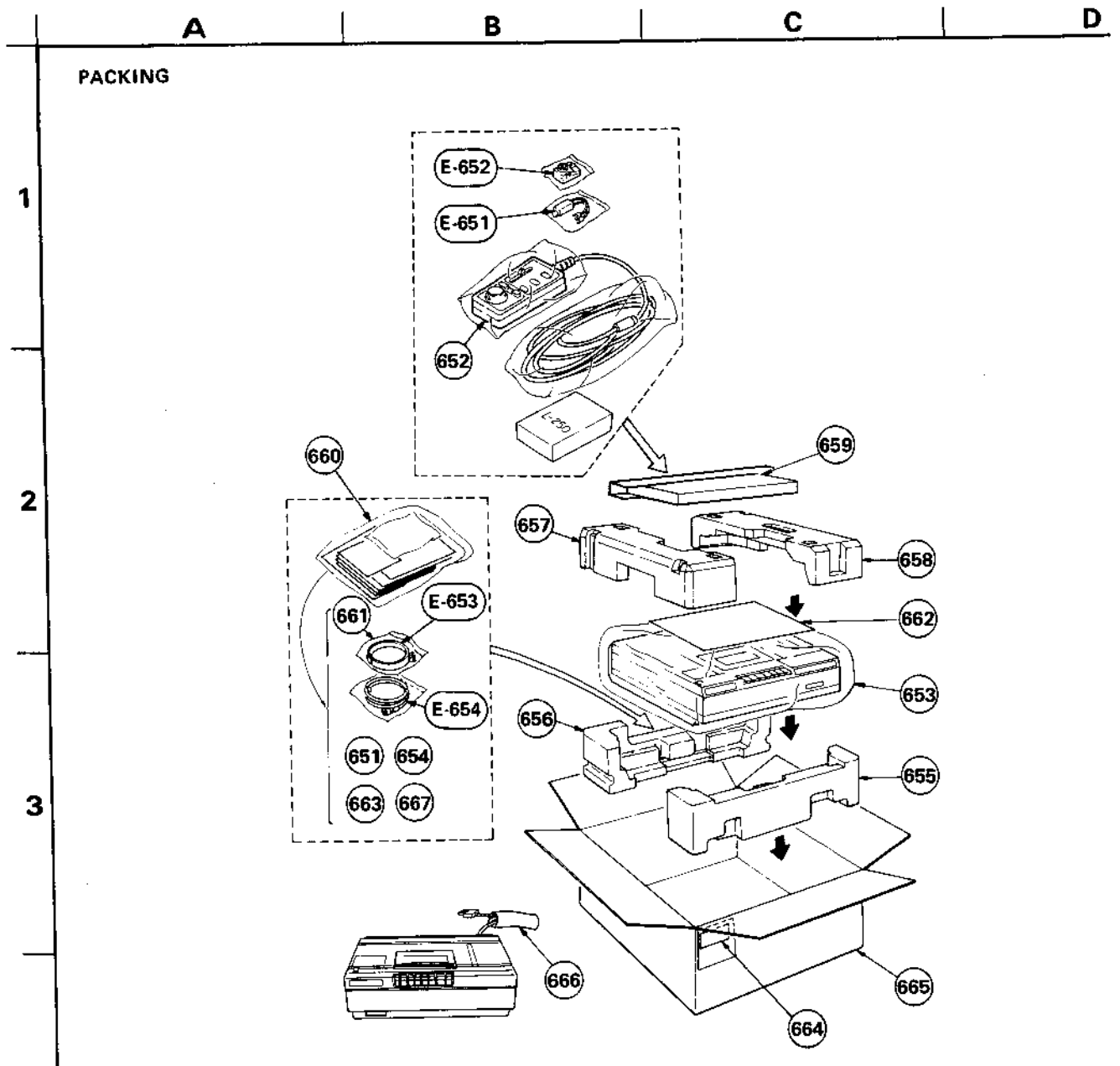
No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
501	X-3659-337-0	ARM ASS'Y, pinch roller		525	3-664-327-03	BELT, LM	
502	X-3659-335-5	LINK ASS'Y (1), release		526	3-664-333-00	PLATE, shield, motor	
503	3-660-911-00	SPRING, tension		527	3-701-437-11	WASHER	
504	X-3659-386-3	LINK ASS'Y (2), release		528	3-664-337-00	HOLDER, motor	
505	3-701-441-21	WASHER		529	3-664-358-00	SHAFT, gear, worm	
506	X-3659-333-0	STOPPER ASS'Y, tension regulator		530	3-664-338-00	PLATE, nut, M3	
507	X-3659-334-0	HOUSING ASS'Y, capstan		531	3-664-357-02	PULLEY, LM	
508	X-3664-318-0	GEAR ASS'Y, worm		532	X-3664-322-2	DECK ASS'Y, loading	
509	X-3664-317-2	LIMITER ASS'Y, E		533	3-646-182-00	CAP, oil	
510	X-3659-308-2	GUIDE ASS'Y, No. 0		534	3-659-302-00	PULLEY, idle	
511	3-659-337-00	FLANGE, No. 0 guide upper		535	3-659-320-00	HOOK, spring, release	
512	3-659-338-00	SPRING, compression		536	3-659-350-00	POLY-SLIDER (3.4, DIA.)	
513	3-659-551-00	FRAME, guide, No. 0		537	3-659-365-00	SPACER (4-3)	
514	3-659-632-00	HOLDER, S sensor		538	3-659-759-11	SPACER, capstan	
515	4-829-039-00	RIVET, nylon		539	3-701-441-11	WASHER	
516	X-3659-307-0	SUPPORT ASS'Y, ring roller		540	3-659-312-00	RETAINER, capstan	
517	3-659-391-00	ROLLER, ring		541	3-659-314-00	RETAINER, thrust	
518	3-703-074-00	CAP 3, shaft		542	3-664-328-03	BELT, limiter, E	
519	3-659-388-00	SPRING		543	3-664-329-00	BELT, idler, E	
520	A-6750-087-A	RING BLOCK ASS'Y, threading		544	3-664-379-00	BRACKET, deck, threading	
521	3-659-313-00	PLATE, adjustment, D.M.E.		545	3-664-450-00	PLATE, readjustment, pinch arm	
522	3-703-075-00	CAP 2, shaft		546	3-646-183-00	ABSORBER, capstan oil	
523	3-658-161-00	HOLDER, D.M.E.		547	A-6735-035-A	CAPSTAN BLOCK ASS'Y	
524	3-664-323-00	GEAR, threading					



<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
551	♣X-3661-515-0	LEVER ASS'Y, F		569	3-661-712-00	SPRING, tension	
552	♣X-3661-516-0	LEVER ASS'Y, R		570	2-101-155-00	SPRING, tension	
553	3-659-481-00	PIN, solenoid		571	3-532-125-00	SPRING, tension	
554	3-661-601-00	GUIDE (1.6), 2 stap slide		572	3-659-560-00	ARM, E	
555	♣3-661-602-00	LEVER, FF		573	3-535-411-00	SPRING, tension	
556	♣3-661-672-00	PLATE, slide, R		574	♣3-661-599-00	PLATE, slide, REC	
557	♣3-661-673-00	PLATE, slide, F		575	3-645-135-00	SPRING, tension	
558	♣X-3664-305-0	BRACKET ASS'Y, motor reel		576	♣3-661-608-00	PLATE, slide, FWD	
559	X-3664-301-0	PULLEY ASS'Y, relay		577	3-639-371-00	SPRING, tension	
560	3-703-074-00	CAP 3, shaft		578	♣3-663-033-00	PLATE, slide, DUB	
561	3-701-439-21	WASHER		579	3-659-460-00	PLATE, release, lock	
562	♣3-664-333-00	PLATE, shield, motor		580	♣3-663-029-00	JOINT	
563	3-664-304-00	BELT, motor		581	3-646-271-00	BOSS	
564	♣3-664-337-00	HOLDER, motor		582	3-701-444-01	WASHER, 6	
565	♣3-664-338-00	PLATE, nut, M3		583	♣3-661-590-00	LEVER, release, slide switch	
566	♣X-3665-815-0	BRACKET ASS'Y, C.SW		584	♣X-3661-527-0	FRAME ASS'Y, solenoid	
567	♣3-661-597-00	LEVER (A), slide switch		585	♣3-665-832-00	LEVER, change	
568	♣3-661-598-00	LEVER (R), slide switch		586	3-665-830-00	SPRING, tension	



<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
601	X-3665-814-0	FRAME ASS'Y (W), lower --	609-611	613	3-665-803-00	WASHER	
602	3-661-620-00	COVER, input		614	2-231-019-00	CLAMPER, cord	
603	3-661-707-00	COVER, output		615	3-661-733-00	COLLAR, power panel	
604	3-664-332-00	KNOB, track control		616	3-661-748-00	PANEL, power	
605	3-664-453-00	KNOB, slow track control		617	3-661-571-00	PLATE (A), ground, bottom plate	
606	3-665-809-00	REINFORCEMENT (A), PC board		618	3-661-572-00	PLATE (B), ground, bottom plate	
607	3-665-810-00	REINFORCEMENT (B), PC board		619	3-663-011-00	CAP, CC terminal	
608	3-663-701-00	CLOTH, mask, speed selection		620	3-659-720-00	STOPPER, slide switch	
609	3-661-622-00	JOINT, ground		621	3-659-529-00	SPACER, plate	
610	3-661-628-00	LABEL, input		622	3-659-530-02	BLOCK, support, bottom plate	
611	3-665-839-00	LABEL (W), track control		623	4-309-378-00	SPACER	
612	3-665-802-00	BRACKET, connector					



<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
651	3-783-403-21	MANUAL, instruction		663	4-491-336-21	REGISTRATION (US model)	
	3-783-403-31	MANUAL, instruction (CND model only)			4-491-298-32	REGISTRATION (CND model)	
652	A-6701-116-A	COMMANDER ASS'Y, remote		664	3-703-157-01	LABEL, destination	
653	3-656-390-00	BAG, protection		665	X-3665-817-0	INDIVIDUAL CARTON ASS'Y	
654	3-661-648-00	INDICATOR (W), accessory		666	3-660-986-00	SHEET, protection	
655	3-663-046-00	CUSHION, (front lower)		667	4-491-335-21	CARD, warranty (US model)	
656	3-663-047-00	CUSHION, (rear lower)			4-491-335-33	CARD, warranty (CND model)	
657	3-663-048-00	CUSHION, (left upper)		E-651	1-417-063-00	TRANSFORMER, antenna (EAC-24)	
658	3-663-049-00	CUSHION, (right upper)		E-652	1-513-379-00	CONVERTER (EAC-25)	
659	3-663-050-00	CASE, accessory		E-653	1-551-139-00	CORD, connection	
660	3-701-630-00	BAG, polyethylene		E-654	1-551-644-41	CORD, connection	
661	3-701-625-00	BAG, polyethylene					
662	3-793-962-21	CARD, caution (US model)					
	3-793-962-31	CARD, caution (CND model)					

A

B

C

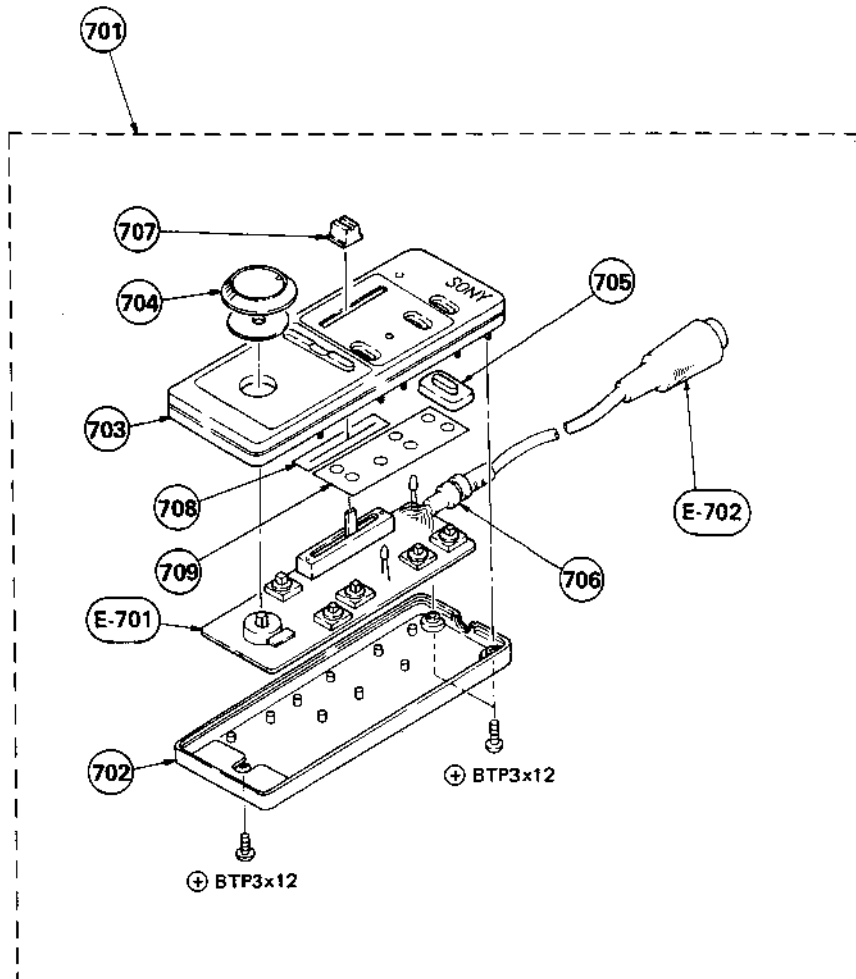
D

COMMANDER BLOCK ASSEMBLY

1

2

3



<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
701	A-6701-116-A	COMMANDER ASS'Y, remote		707	3-665-816-00	KNOB, slow	
702	X-3665-804-0	CASE ASS'Y, commander		708	3-665-818-00	CLOTH, mask commander	
703	X-3665-812-0	CASE ASS'Y, commander (upper)		709	3-665-846-00	CUSHION, commander	
704	X-3665-803-0	KNOB ASS'Y, VCR		E-701	1-603-567-00	PC BOARD, RC-11	
705	3-659-728-11	PAUSE, key top		E-702	1-555-454-00	CORD, with plug 13P	
706	3-664-401-00	BUSHING, cord					

SECTION 4 ELECTRICAL PART LIST

NOTE:

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

• ->: 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
• A-6711-254-A CR-9 BOARD, COMPLETE				E-501	C461	1-123-320-00 ELECT	100MF 20% 16V
					C462	1-123-307-00 ELECT	100MF 20% 10V
<u>CAPACITOR</u>				<u>COMPOSITION</u>			
C401	1-161-013-00	CERAMIC	0.01MF 10% 25V	CP401	1-231-618-00	COMPOSITION CIRCUIT	100KX3
C402	1-161-021-00	CERAMIC	0.047MF 10% 25V	CP403	1-231-839-00	COMPOSITION CIRCUIT	BLOCK
C403	1-123-306-00	ELECT	47MF 20% 10V	CP404	1-231-840-00	COMPOSITION CIRCUIT	BLOCK
C404	1-102-978-00	CERAMIC	220PF 5% 50V	CP405	1-231-841-00	COMPOSITION CIRCUIT	BLOCK
C405	1-161-013-00	CERAMIC	0.01MF 10% 25V	<u>DIODE</u>			
C406	1-102-074-00	CERAMIC	0.001MF 10% 50V	D401	8-719-815-55	DIODE	1S1555
C407	1-123-319-00	ELECT	47MF 20% 16V	D402	8-719-815-55	DIODE	1S1555
C409	1-123-307-00	ELECT	100MF 20% 10V	D403	8-719-815-55	DIODE	1S1555
C410	1-123-307-00	ELECT	100MF 20% 10V	D404	8-719-815-55	DIODE	1S1555
C411	1-123-320-00	ELECT	100MF 20% 16V	D405	8-719-815-55	DIODE	1S1555
C412	1-161-021-00	CERAMIC	0.047MF 10% 25V	D406	8-719-815-55	DIODE	1S1555
C413	1-161-017-00	CERAMIC	0.022MF 10% 25V	D407	8-719-815-55	DIODE	1S1555
C414	1-161-013-00	CERAMIC	0.01MF 10% 25V	D408	8-719-815-55	DIODE	1S1555
C415	1-123-308-00	ELECT	220MF 20% 10V	D409	8-719-815-55	DIODE	1S1555
C416	1-161-017-00	CERAMIC	0.022MF 10% 25V	D410	8-719-815-55	DIODE	1S1555
C417	1-102-962-00	CERAMIC	30PF 5% 50V	D411	8-719-815-55	DIODE	1S1555
C418	1-102-962-00	CERAMIC	30PF 5% 50V	D412	8-719-815-55	DIODE	1S1555
C419	1-161-013-00	CERAMIC	0.01MF 10% 25V	D413	8-719-815-55	DIODE	1S1555
C420	1-161-017-00	CERAMIC	0.022MF 10% 25V	D416	8-719-815-55	DIODE	1S1555
C421	1-161-017-00	CERAMIC	0.022MF 10% 25V	D417	8-719-815-55	DIODE	1S1555
C422	1-161-017-00	CERAMIC	0.022MF 10% 25V	D420	8-719-815-55	DIODE	1S1555
C423	1-102-959-00	CERAMIC	22PF 5% 50V	<u>DELAY LINE</u>			
C424	1-161-021-00	CERAMIC	0.047MF 10% 25V	DL401	1-415-215-00	DELAY LINE	(0.5H)
C425	1-123-306-00	ELECT	47MF 20% 10V	DL402	1-415-216-00	DELAY LINE	1/4H
C426	1-102-963-00	CERAMIC	33PF 5% 50V	<u>IC</u>			
C427	1-102-963-00	CERAMIC	33PF 5% 50V	IC401	8-751-360-00	IC	CX-136A
C428	1-102-074-00	CERAMIC	0.001MF 10% 50V	IC402	8-751-360-00	IC	CX-136A
C429	1-102-074-00	CERAMIC	0.001MF 10% 50V	IC403	8-751-300-00	IC	CX-130
C430	1-102-074-00	CERAMIC	0.001MF 10% 50V	IC404	8-743-600-00	IC	BX-360
C431	1-123-306-00	ELECT	47MF 20% 10V	IC405	8-743-610-00	IC	BX-361
C432	1-161-021-00	CERAMIC	0.047MF 10% 25V	IC406	8-759-240-11	IC	TC4011BP
C433	1-161-017-00	CERAMIC	0.022MF 10% 25V	IC407	8-759-618-48	IC	M51848L
C434	1-161-021-00	CERAMIC	0.047MF 10% 25V	<u>COIL</u>			
C435	1-161-017-00	CERAMIC	0.022MF 10% 25V	L401	1-407-167-XX	MICRO INDUCTOR	68UH
C438	1-123-320-00	ELECT	100MF 20% 16V	L402	1-407-167-XX	MICRO INDUCTOR	68UH
C439	1-123-320-00	ELECT	100MF 20% 16V	L403	1-407-686-00	MICRO INDUCTOR	2.7UH
C440	1-102-121-00	CERAMIC	0.0022MF 10% 50V	L404	1-407-183-XX	MICRO INDUCTOR	2.7UH
C441	1-102-125-00	CERAMIC	0.0047MF 10% 50V	L405	1-407-685-00	MICRO INDUCTOR	2.2UH
C442	1-102-125-00	CERAMIC	0.0047MF 10% 50V	L406	1-407-685-00	MICRO INDUCTOR	2.2UH
C444	1-161-013-00	CERAMIC	0.01MF 10% 25V	<u>VARIABLE COIL</u>			
C449	1-123-352-00	ELECT	1MF 20% 50V	LV401	1-407-569-00	COIL, VARIABLE	10.0MH
C450	1-102-074-00	CERAMIC	0.001MF 10% 50V	LV402	1-407-569-00	COIL, VARIABLE	10.0MH
C453	1-130-022-00	FILM	0.0022MF 5% 50V				
C454	1-102-074-00	CERAMIC	0.001MF 10% 50V				
C455	1-130-224-00	FILM	0.015MF 5% 50V				
C456	1-123-320-00	ELECT	100MF 20% 16V				
C457	1-123-318-00	ELECT	33MF 20% 16V				
C458	1-123-319-00	ELECT	47MF 20% 16V				
C460	1-123-316-00	ELECT	10MF 20% 16V				

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
<u>TRANSISTOR</u>				R432	1-246-834-00	CARBON	160 5% 1/8W
Q401	8-729-245-83	TRANSISTOR 2SC2458		R433	1-246-834-00	CARBON	160 5% 1/8W
Q402	8-729-245-83	TRANSISTOR 2SC2458		R434	1-246-852-00	CARBON	5.1K 5% 1/8W
Q403	8-729-245-83	TRANSISTOR 2SC2458		R435	1-246-850-00	CARBON	36K 5% 1/8W
Q404	8-729-245-83	TRANSISTOR 2SC2458		R436	1-246-777-00	CARBON	330 5% 1/8W
Q405	8-729-245-83	TRANSISTOR 2SC2458		R437	1-246-777-00	CARBON	330 5% 1/8W
Q406 =>	8-729-117-54	TRANSISTOR 2SA1175		R438	1-246-852-00	CARBON	5.1K 5% 1/8W
Q407 =>	8-729-117-54	TRANSISTOR 2SA1175		R439	1-246-479-00	CARBON	1.8K 5% 1/4W
Q408	8-729-245-83	TRANSISTOR 2SC2458		R440	1-246-492-00	CARBON	6.2K 5% 1/4W
Q409 =>	8-729-117-54	TRANSISTOR 2SA1175		R441	1-246-513-00	CARBON	47K 5% 1/4W
Q410 =>	8-729-117-54	TRANSISTOR 2SA1175		R442	1-246-513-00	CARBON	47K 5% 1/4W
Q411 =>	8-729-117-54	TRANSISTOR 2SA1175		R443	1-214-174-00	METAL	56K 1% 1/4W
Q412 =>	8-729-117-54	TRANSISTOR 2SA1175		R444	1-246-807-00	CARBON	100K 5% 1/8W
Q413 =>	8-729-117-54	TRANSISTOR 2SA1175		R445	1-246-513-00	CARBON	47K 5% 1/4W
Q414	8-729-178-54	TRANSISTOR 2SC2785		R446	1-214-156-00	METAL	10K 1% 1/4W
Q417 =>	8-729-902-11	TRANSISTOR 2SC2021		R447	1-246-807-00	CARBON	100K 5% 1/8W
Q418 =>	8-729-902-11	TRANSISTOR 2SC2021		R448	1-214-180-00	METAL	100K 1% 1/4W
Q419 =>	8-729-902-11	TRANSISTOR 2SC2021		R450	1-246-803-00	CARBON	47K 5% 1/8W
Q420 =>	8-729-902-11	TRANSISTOR 2SC2021		R451	1-246-804-00	CARBON	56K 5% 1/8W
Q421 =>	8-729-902-11	TRANSISTOR 2SC2021		R452	1-246-803-00	CARBON	47K 5% 1/8W
<u>RESISTOR</u>				R453	1-246-804-00	CARBON	56K 5% 1/8W
R401	1-246-467-00	CARBON	560 5% 1/4W	R454	1-246-521-00	CARBON	100K 5% 1/4W
R402	1-246-469-00	CARBON	680 5% 1/4W	R457	1-246-807-00	CARBON	100K 5% 1/8W
R403	1-246-514-00	CARBON	51K 5% 1/4W	R459	1-246-492-00	CARBON	6.2K 5% 1/4W
R404	1-246-505-00	CARBON	22K 5% 1/4W	R460	1-246-488-00	CARBON	4.3K 5% 1/4W
R405	1-246-490-00	CARBON	5.1K 5% 1/4W	R461	1-246-789-00	CARBON	3.3K 5% 1/8W
R407	1-246-790-00	CARBON	3.9K 5% 1/8W	R462	1-246-789-00	CARBON	3.3K 5% 1/8W
R408	1-246-449-00	CARBON	100 5% 1/4W	R463	1-246-800-00	CARBON	27K 5% 1/8W
R409	1-246-782-00	CARBON	820 5% 1/8W	R464	1-246-810-00	CARBON	180K 5% 1/8W
R410	1-246-840-00	CARBON	510 5% 1/8W	R465	1-246-505-00	CARBON	22K 5% 1/4W
R411	1-246-789-00	CARBON	3.3K 5% 1/8W	R466	1-246-799-00	CARBON	22K 5% 1/8W
R412	1-246-492-00	CARBON	6.2K 5% 1/4W	R467	1-246-515-00	CARBON	56K 5% 1/4W
R413	1-246-841-00	CARBON	620 5% 1/8W	R468	1-246-515-00	CARBON	56K 5% 1/4W
R414	1-246-440-00	CARBON	43 5% 1/4W	R469	1-246-509-00	CARBON	33K 5% 1/4W
R415	1-246-473-00	CARBON	1K 5% 1/4W	R470	1-246-505-00	CARBON	22K 5% 1/4W
R416	1-246-793-00	CARBON	6.8K 5% 1/8W	R471	1-246-515-00	CARBON	56K 5% 1/4W
R417	1-246-777-00	CARBON	330 5% 1/8W	R472	1-246-804-00	CARBON	56K 5% 1/8W
R418	1-246-793-00	CARBON	6.8K 5% 1/8W	R473	1-246-804-00	CARBON	56K 5% 1/8W
R419	1-246-852-00	CARBON	5.1K 5% 1/8W	R474	1-246-521-00	CARBON	100K 5% 1/4W
R420	1-246-852-00	CARBON	5.1K 5% 1/8W	R475	1-246-799-00	CARBON	22K 5% 1/8W
R421	1-246-484-00	CARBON	3K 5% 1/4W	R476	1-246-505-00	CARBON	22K 5% 1/4W
R422	1-246-852-00	CARBON	5.1K 5% 1/8W	R477	1-246-795-00	CARBON	10K 5% 1/8W
R423	1-246-852-00	CARBON	5.1K 5% 1/8W	R478	1-246-804-00	CARBON	56K 5% 1/8W
R424	1-246-484-00	CARBON	3K 5% 1/4W	R479	1-246-791-00	CARBON	4.7K 5% 1/8W
R425	1-246-473-00	CARBON	1K 5% 1/4W	R480	1-246-839-00	CARBON	430 5% 1/8W
R426	1-246-783-00	CARBON	1K 5% 1/8W	R481	1-246-449-00	CARBON	100 5% 1/4W
R427	1-246-478-00	CARBON	1.6K 5% 1/4W	R482	1-246-787-00	CARBON	2.2K 5% 1/8W
R428	1-246-485-00	CARBON	3.3K 5% 1/4W	R483	1-246-787-00	CARBON	2.2K 5% 1/8W
R429	1-246-485-00	CARBON	3.3K 5% 1/4W	<u>VARIABLE RESISTOR</u>			
R430	1-246-787-00	CARBON	2.2K 5% 1/8W	RV401	1-224-250-XX	RES, ADJ, METAL GLAZE 2.2K	
R431	1-246-771-00	CARBON	100 5% 1/8W	RV402	1-224-250-XX	RES, ADJ, METAL GLAZE 2.2K	
				RV403	1-224-253-XX	RES, ADJ, SOLID 22K	

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

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
RV404	1-224-253-XX	RES, ADJ, SOLID 22K		C031	1-161-039-00	CERAMIC 0.001MF	10% 25V
RV405	1-224-251-XX	RES, ADJ, SOLID 4.7K		C032	1-123-295-00	ELECT 100MF	20% 6.3V
RV406	1-224-255-XX	RES, ADJ, METAL GLAZE 100K		C033	1-123-296-00	ELECT 220MF	20% 6.3V
RV408	1-224-254-XX	RES, ADJ, SOLID 47K		C034	1-102-816-00	CERAMIC 120PF	5% 50V
		<u>TRANSFORMER</u>		C035	1-102-973-00	CERAMIC 100PF	5% 50V
T401	1-433-215-00	TRANSFORMER, OSCILLATOR		C036	1-123-352-00	ELECT 1MF	20% 50V
		<u>THERMISTOR</u>		C037	1-123-307-00	ELECT 100MF	20% 10V
TH401	1-800-198-XX	THERMISTOR		C038	1-123-316-00	ELECT 10MF	20% 16V
		<u>CRYSTAL</u>		C039	1-161-013-00	CERAMIC 0.01MF	10% 25V
X401	1-527-293-00	CRYSTAL		C040	1-123-319-00	ELECT 47MF	20% 16V

	▲:A-6711-255-A	YC-14 BOARD, COMPLETE	E-802	C041	1-161-017-00	CERAMIC 0.022MF	10% 25V
	▲:3-661-626-00	PLATE, REAR, SHIELD CASE		C042	1-123-319-00	ELECT 47MF	20% 16V
	▲:3-661-659-00	CASE (MAIN), SHIELD		C043	1-161-013-00	CERAMIC 0.01MF	10% 25V
	▲:3-701-748-00	CLAMP		C044	1-102-529-00	CERAMIC 100PF	5% 50V
		<u>CAPACITOR</u>		C045	1-161-006-00	CERAMIC 0.0027MF	10% 25V
C001	1-161-009-00	CERAMIC 0.0047MF	10% 25V	C046	1-161-004-00	CERAMIC 0.0018MF	10% 25V
C002	1-102-074-00	CERAMIC 0.001MF	10% 50V	C047	1-123-296-00	ELECT 220MF	20% 6.3V
C003	1-123-328-00	ELECT 4.7MF	20% 25V	C048	1-123-316-00	ELECT 10MF	20% 16V
C004	1-123-319-00	ELECT 47MF	20% 16V	C049	1-161-013-00	CERAMIC 0.01MF	10% 25V
C005	1-123-307-00	ELECT 100MF	20% 10V	C050	1-161-021-00	CERAMIC 0.047MF	10% 25V
C006	1-123-354-00	ELECT 3.3MF	20% 50V	C051	1-161-013-00	CERAMIC 0.01MF	10% 25V
C007	1-161-013-00	CERAMIC 0.01MF	10% 25V	C052	1-161-013-00	CERAMIC 0.01MF	10% 25V
C008	1-102-529-00	CERAMIC 100PF	5% 50V	C053	1-161-021-00	CERAMIC 0.047MF	10% 25V
C009	1-102-945-00	CERAMIC 8PF	1PF 50V	C054	1-161-013-00	CERAMIC 0.01MF	10% 25V
C010	1-161-013-00	CERAMIC 0.01MF	10% 25V	C055	1-102-959-00	CERAMIC 22PF	5% 50V
C011	1-102-499-00	CERAMIC 120PF	5% 50V	C056	1-161-013-00	CERAMIC 0.01MF	10% 25V
C012	1-102-973-00	CERAMIC 100PF	5% 50V	C057	1-123-311-00	ELECT 1000MF	20% 10V
C013	1-102-820-00	CERAMIC 330PF	5% 50V	C058	1-123-318-00	ELECT 33MF	20% 16V
C014	1-123-316-00	ELECT 10MF	20% 16V	C059	1-130-224-00	FILM 0.015MF	5% 50V
C015	1-161-010-00	CERAMIC 0.0056MF	10% 25V	C060	1-161-013-00	CERAMIC 0.01MF	10% 25V
C016	1-123-351-00	ELECT 0.47MF	20% 50V	C061	1-102-112-00	CERAMIC 330PF	10% 50V
C017	1-102-116-00	CERAMIC 680PF	10% 50V	C062	1-123-351-00	ELECT 0.47MF	20% 50V
C018	1-108-375-00	MYLAR 0.0068MF	10% 100V	C063	1-161-013-00	CERAMIC 0.01MF	10% 25V
C019	1-123-319-00	ELECT 47MF	20% 16V	C064	1-123-307-00	ELECT 100MF	20% 10V
C020	1-161-013-00	CERAMIC 0.01MF	10% 25V	C065	1-161-025-00	CERAMIC 0.1MF	10% 25V
C021	1-108-369-00	MYLAR 0.0022MF	10% 100V	C066	1-123-319-00	ELECT 47MF	20% 16V
C022	1-161-013-00	CERAMIC 0.01MF	10% 25V	C067	1-123-316-00	ELECT 10MF	20% 16V
C023	1-123-307-00	ELECT 100MF	20% 10V	C068	1-123-318-00	ELECT 33MF	20% 16V
C024	1-161-017-00	CERAMIC 0.022MF	10% 25V	C069	1-123-305-00	ELECT 33MF	20% 10V
C025	1-161-021-00	CERAMIC 0.047MF	10% 25V	C070	1-102-961-00	CERAMIC 27PF	5% 50V
C026	1-131-343-00	TANTALUM 0.22MF	10% 35V	C071	1-102-530-00	CERAMIC 120PF	5% 50V
C027	1-102-808-00	CERAMIC 6PF	1PF 50V	C072	1-102-947-00	CERAMIC 10PF	5% 50V
C028	1-102-953-00	CERAMIC 18PF	5% 50V	C073	1-102-965-00	CERAMIC 39PF	5% 50V
C029	1-102-953-00	CERAMIC 18PF	5% 50V	C074	1-102-965-00	CERAMIC 39PF	5% 50V
C030	1-102-942-00	CERAMIC 5PF	0.5PF 50V	C075	1-102-943-00	CERAMIC 6PF	0.5PF 50V
				C076	1-161-013-00	CERAMIC 0.01MF	10% 25V
				C077	1-102-116-00	CERAMIC 680PF	10% 50V
				C078	1-102-116-00	CERAMIC 680PF	10% 50V
				C079	1-161-013-00	CERAMIC 0.01MF	10% 25V
				C080	1-161-013-00	CERAMIC 0.01MF	10% 25V
				C081	1-102-973-00	CERAMIC 100PF	5% 50V
				C082	1-102-973-00	CERAMIC 100PF	5% 50V
				C083	1-102-117-00	CERAMIC 820PF	10% 50V

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

Ref.No	Part No	Description			Remark	Ref.No	Part No	Description			Remark
C084	1-161-013-00	CERAMIC	0.01MF	10%	25V	C137	1-123-306-00	ELECT	47MF	20%	10V
C085	1-123-306-00	ELECT	47MF	20%	10V	C138	1-123-319-00	ELECT	47MF	20%	16V
C086	1-123-306-00	ELECT	47MF	20%	10V	C139	1-161-013-00	CERAMIC	0.01MF	10%	25V
C087	1-123-351-00	ELECT	0.47MF	20%	50V	C140	1-123-307-00	ELECT	100MF	20%	10V
C088	1-123-351-00	ELECT	0.47MF	20%	50V	C141	1-102-962-00	CERAMIC	30PF	5%	50V
C089	1-123-306-00	ELECT	47MF	20%	10V	C142	1-102-959-00	CERAMIC	22PF	5%	50V
C090	1-123-306-00	ELECT	47MF	20%	10V	C143	1-161-013-00	CERAMIC	0.01MF	10%	25V
C091	1-102-824-00	CERAMIC	430PF	5%	50V	C144	1-161-021-00	CERAMIC	0.047MF	10%	25V
C092	1-123-328-00	ELECT	4.7MF	20%	25V	C145	1-123-319-00	ELECT	47MF	20%	16V
C093	1-102-117-00	CERAMIC	820PF	10%	50V	C146	1-161-013-00	CERAMIC	0.01MF	10%	25V
C094	1-131-343-00	TANTALUM	0.22MF	10%	35V	C147	1-123-322-00	ELECT	330MF	20%	16V
C095	1-161-017-00	CERAMIC	0.022MF	10%	25V	C148	1-123-306-00	ELECT	47MF	20%	10V
C096	1-123-353-00	ELECT	2.2MF	20%	50V	C149	1-123-316-00	ELECT	10MF	20%	16V
C097	1-102-935-00	CERAMIC	2PF	0.25PF	50V	C150	1-123-352-00	ELECT	1MF	20%	50V
C098	1-102-509-00	CERAMIC	11PF	5%	50V	C151	1-102-972-00	CERAMIC	91PF	5%	50V
C099	1-161-013-00	CERAMIC	0.01MF	10%	25V	C152	1-102-966-00	CERAMIC	43PF	5%	50V
C100	1-161-013-00	CERAMIC	0.01MF	10%	25V	C153	1-102-816-00	CERAMIC	120PF	5%	50V
C101	1-161-013-00	CERAMIC	0.01MF	10%	25V	C154	1-123-316-00	ELECT	10MF	20%	16V
C102	1-102-962-00	CERAMIC	30PF	5%	50V	C155	1-123-316-00	ELECT	10MF	20%	16V
C103	1-161-013-00	CERAMIC	0.01MF	10%	25V	C156	1-161-021-00	CERAMIC	0.047MF	10%	25V
C104	1-123-320-00	ELECT	100MF	20%	16V	C157	1-161-021-00	CERAMIC	0.047MF	10%	25V
C105	1-161-013-00	CERAMIC	0.01MF	10%	25V	C158	1-123-307-00	ELECT	100MF	20%	10V
C106	1-123-319-00	ELECT	47MF	20%	16V	C159	1-123-316-00	ELECT	10MF	20%	16V
C107	1-123-316-00	ELECT	10MF	20%	16V	C160	1-161-013-00	CERAMIC	0.01MF	10%	25V
C108	1-161-021-00	CERAMIC	0.047MF	10%	25V	C161	1-123-316-00	ELECT	10MF	20%	16V
C109	1-123-319-00	ELECT	47MF	20%	16V	C162	1-123-307-00	ELECT	100MF	20%	10V
C110	1-161-013-00	CERAMIC	0.01MF	10%	25V	C163	1-123-307-00	ELECT	100MF	20%	10V
C111	1-161-013-00	CERAMIC	0.01MF	10%	25V	C164	1-123-351-00	ELECT	0.47MF	20%	50V
C112	1-161-021-00	CERAMIC	0.047MF	10%	25V	C165	1-123-316-00	ELECT	10MF	20%	16V
C113	1-123-318-00	ELECT	33MF	20%	16V	C166	1-161-013-00	CERAMIC	0.01MF	10%	25V
C114	1-123-318-00	ELECT	33MF	20%	16V	C167	1-123-307-00	ELECT	100MF	20%	10V
C115	1-102-960-00	CERAMIC	24PF	5%	50V	C168	1-161-005-00	CERAMIC	0.0022MF	10%	25V
C116	1-101-888-00	CERAMIC	68PF	5%	50V	C170	1-123-316-00	ELECT	10MF	20%	16V
C117	1-101-884-00	CERAMIC	56PF	5%	50V	C171	1-123-352-00	ELECT	1MF	20%	50V
C118	1-102-110-00	CERAMIC	220PF	10%	50V	C172	1-102-127-00	CERAMIC	0.0058MF	10%	50V
C119	1-101-884-00	CERAMIC	56PF	5%	50V	C173	1-102-973-00	CERAMIC	100PF	5%	50V
C120	1-123-352-00	ELECT	1MF	20%	50V	C174	1-161-025-00	CERAMIC	0.1MF	10%	25V
C121	1-131-344-00	TANTALUM	0.33MF	10%	35V	C177	1-161-013-00	CERAMIC	0.01MF	10%	25V
C122	1-161-013-00	CERAMIC	0.01MF	10%	25V	C178	1-161-013-00	CERAMIC	0.01MF	10%	25V
C123	1-102-966-00	CERAMIC	43PF	5%	50V	C179	1-161-013-00	CERAMIC	0.01MF	10%	25V
C124	1-102-944-00	CERAMIC	7PF	0.5PF	50V	C180	1-161-013-00	CERAMIC	0.01MF	10%	25V
C125	1-161-013-00	CERAMIC	0.01MF	10%	25V						
C126	1-102-112-00	CERAMIC	330PF	10%	50V			CONNECTOR			
C127	1-161-013-00	CERAMIC	0.01MF	10%	25V						
C128	1-123-319-00	ELECT	47MF	20%	16V	CN001*	1-508-744-00	PIN, CONNECTOR	10P		
C129	1-123-295-00	ELECT	100MF	20%	6.3V	CN002*	1-508-743-00	PIN, CONNECTOR	5P		
C130	1-161-013-00	CERAMIC	0.01MF	10%	25V	CN003*	1-508-743-00	PIN, CONNECTOR	5P		
C131	1-161-013-00	CERAMIC	0.01MF	10%	25V	CN004*	1-508-845-00	PIN, CONNECTOR	6P		
C132	1-123-296-00	ELECT	220MF	20%	6.3V	CN005*	1-508-743-00	PIN, CONNECTOR	5P		
C133	1-102-820-00	CERAMIC	330PF	5%	50V	CN006*	1-508-744-00	PIN, CONNECTOR	10P		
C134	1-102-980-00	CERAMIC	270PF	5%	50V	CN007*	1-508-742-00	PIN, CONNECTOR	3P		
C135	1-101-059-00	CERAMIC	510PF	5%	50V	CN008*	1-508-736-00	PIN, CONNECTOR	10P		
C136	1-102-980-00	CERAMIC	270PF	5%	50V	CN009*	1-508-736-00	PIN, CONNECTOR	10P		
						CN010*	1-508-734-00	PIN, CONNECTOR	3P		

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

<u>Ref.No</u>	<u>Part No</u>	<u>Description</u>	<u>Remark</u>	<u>Ref.No</u>	<u>Part No</u>	<u>Description</u>	<u>Remark</u>
<u>DIODE</u>							
D001	8-719-815-55	DIODE 1S1555		L008	1-407-167-XX	MICRO INDUCTOR 68UH	
D002	8-719-815-55	DIODE 1S1555		L009	1-407-169-XX	MICRO INDUCTOR 100UH	
D003	8-719-815-55	DIODE 1S1555		L010	1-407-171-XX	MICRO INDUCTOR 150UH	
D004	8-719-815-55	DIODE 1S1555		L011	1-407-503-00	MICRO INDUCTOR 8.2MMH	
D006	8-719-815-55	DIODE 1S1555		L012	1-407-709-00	MICRO INDUCTOR 220UH	
D007	8-719-815-55	DIODE 1S1555		L013	1-407-165-XX	MICRO INDUCTOR 47UH	
D008	8-719-815-55	DIODE 1S1555		L014	1-407-747-11	MICRO INDUCTOR 56UH	
D009	8-719-815-55	DIODE 1S1555		L015	1-407-569-00	COIL,VARIABLE 10.0MH	
D010	8-719-815-55	DIODE 1S1555		L016	1-407-189-XX	MICRO INDUCTOR 8.2UH	
D011	8-719-815-55	DIODE 1S1555		L017	1-407-171-XX	MICRO INDUCTOR 150UH	
D012	8-719-815-55	DIODE 1S1555		L018	1-407-162-XX	MICRO INDUCTOR 27UH	
D013	8-719-815-55	DIODE 1S1555		L019	1-407-158-XX	MICRO INDUCTOR 12UH	
D014	8-719-815-55	DIODE 1S1555		L020	1-407-189-XX	MICRO INDUCTOR 8.2UH	
D015	8-719-815-55	DIODE 1S1555		L021	1-407-159-XX	MICRO INDUCTOR 15UH	
D016	8-719-815-55	DIODE 1S1555		L022	1-407-169-XX	MICRO INDUCTOR 100UH	
D017	8-719-815-55	DIODE 1S1555		L023	1-407-706-00	MICRO INDUCTOR 120UH	
<u>DELAY LINE</u>							
DL001	1-415-065-00	DELAY LINE		L024	1-407-169-XX	MICRO INDUCTOR 100UH	
DL002	1-415-159-00	DELAY LINE (1H)		L025	1-407-164-XX	MICRO INDUCTOR 39UH	
<u>IC</u>							
IC001	8-751-960-00	IC CX-196		L026	1-407-164-XX	MICRO INDUCTOR 39UH	
IC002	8-743-904-00	IC BX-3904		L027	1-407-172-XX	MICRO INDUCTOR 180UH	
IC003	8-759-684-78	IC M58478P		L028	1-407-709-00	MICRO INDUCTOR 220UH	
IC004	8-751-350-00	IC CX-135		L029	1-407-172-XX	MICRO INDUCTOR 180UH	
IC005	8-743-640-00	IC BX-364		L030	1-407-163-XX	MICRO INDUCTOR 33UH	
IC006	8-751-880-00	IC CX-188		<u>TRANSISTOR</u>			
IC007	8-751-870-00	IC CX-187		Q001	8-729-902-11	TRANSISTOR 2SC2021	
IC008	8-743-912-00	IC BX-3912		Q002	8-729-902-11	TRANSISTOR 2SC2021	
IC009	8-759-908-25	IC CX-825		Q003	8-729-902-11	TRANSISTOR 2SC2021	
IC010	8-743-901-00	IC BX-3901		Q004 =>	8-729-117-54	TRANSISTOR 2SA1175	
IC011	8-743-903-00	IC BX-3903		Q005	8-729-384-48	TRANSISTOR 2SA844	
IC012	8-743-840-00	IC BX-384		Q006	8-729-902-11	TRANSISTOR 2SC2021	
IC013	8-743-830-00	IC BX-383		Q007	8-729-902-11	TRANSISTOR 2SC2021	
<u>JACK</u>							
J001	1-507-588-11	PIN JACK, 1P		Q008	8-724-375-01	TRANSISTOR 2SC403C	
J002	1-507-588-11	PIN JACK, 1P		Q009	8-724-375-01	TRANSISTOR 2SC403C	
J003	1-507-251-XX	JACK		Q010	8-729-902-11	TRANSISTOR 2SC2021	
J004	1-507-251-XX	JACK		Q011 =>	8-729-178-54	TRANSISTOR 2SC2785	
J005	1-507-251-XX	JACK		Q012	8-729-902-11	TRANSISTOR 2SC2021	
<u>COIL</u>							
L001	1-407-191-XX	MICRO INDUCTOR 470UH		Q013	8-729-902-11	TRANSISTOR 2SC2021	
L002	1-407-168-XX	MICRO INDUCTOR 82UH		Q014	8-729-902-11	TRANSISTOR 2SC2021	
L003	1-407-718-00	MICRO INDUCTOR 1.2MMH		Q015	8-729-902-11	TRANSISTOR 2SC2021	
L004	1-407-171-XX	MICRO INDUCTOR 150UH		Q016	8-729-902-11	TRANSISTOR 2SC2021	
L005	1-407-696-00	MICRO INDUCTOR 18UH		Q017	8-729-902-11	TRANSISTOR 2SC2021	
L006	1-407-696-00	MICRO INDUCTOR 18UH		Q018	8-724-375-01	TRANSISTOR 2SC403C	
L007	1-407-168-XX	MICRO INDUCTOR 82UH		Q019	8-729-902-11	TRANSISTOR 2SC2021	
				Q020 =>	8-729-117-54	TRANSISTOR 2SA1175	
				Q021	8-729-902-11	TRANSISTOR 2SC2021	
				Q022	8-729-902-11	TRANSISTOR 2SC2021	
				Q023	8-724-375-01	TRANSISTOR 2SC403C	
				Q024	8-729-384-48	TRANSISTOR 2SA844	
				Q025	8-724-375-01	TRANSISTOR 2SC403C	
				Q026	8-729-902-11	TRANSISTOR 2SC2021	
				Q027	8-729-902-11	TRANSISTOR 2SC2021	
				Q028	8-724-375-01	TRANSISTOR 2SC403C	

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

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
Q029	8-724-375-01	TRANSISTOR 2SC403C		R039	1-246-469-00	CARBON 680 5% 1/4W	
Q030	8-729-384-48	TRANSISTOR 2SA844		R040	1-246-441-00	CARBON 47 5% 1/4W	
Q031	8-729-902-11	TRANSISTOR 2SC2021		R043	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q032	8-724-375-01	TRANSISTOR 2SC403C		R044	1-246-465-00	CARBON 470 5% 1/4W	
Q033	8-729-902-11	TRANSISTOR 2SC2021		R045	1-246-776-00	CARBON 270 5% 1/8W	
Q034	8-729-902-11	TRANSISTOR 2SC2021		R046	1-246-449-00	CARBON 100 5% 1/4W	
Q035	8-729-902-11	TRANSISTOR 2SC2021		R047	1-246-467-00	CARBON 560 5% 1/4W	
Q036	8-729-902-11	TRANSISTOR 2SC2021		R048	1-246-459-00	CARBON 270 5% 1/4W	
Q037	8-724-375-01	TRANSISTOR 2SC403C		R049	1-246-441-00	CARBON 47 5% 1/4W	
Q038	8-724-375-01	TRANSISTOR 2SC403C		R050	1-246-453-00	CARBON 150 5% 1/4W	
Q039	8-729-384-48	TRANSISTOR 2SA844		R051	1-246-465-00	CARBON 470 5% 1/4W	
Q040	8-729-384-48	TRANSISTOR 2SA844		R052	1-246-449-00	CARBON 100 5% 1/4W	
Q041	8-729-902-11	TRANSISTOR 2SC2021		R053	1-246-501-00	CARBON 15K 5% 1/4W	
		<u>RESISTOR</u>		R054	1-246-503-00	CARBON 18K 5% 1/4W	
R001	1-246-511-00	CARBON 39K 5% 1/4W		R055	1-246-477-00	CARBON 1.5K 5% 1/4W	
R002	1-246-497-00	CARBON 10K 5% 1/4W		R056	1-246-485-00	CARBON 3.3K 5% 1/4W	
R003	1-246-461-00	CARBON 330 5% 1/4W		R057	1-246-487-00	CARBON 3.9K 5% 1/4W	
R004	1-246-491-00	CARBON 5.6K 5% 1/4W		R058	1-246-491-00	CARBON 5.6K 5% 1/4W	
R005	1-246-451-00	CARBON 120 5% 1/4W		R059	1-246-480-00	CARBON 2K 5% 1/4W	
R006	1-246-490-00	CARBON 5.1K 5% 1/4W		R060	1-246-470-00	CARBON 750 5% 1/4W	
R007	1-246-523-00	CARBON 120K 5% 1/4W		R061	1-246-473-00	CARBON 1K 5% 1/4W	
R008	1-246-478-00	CARBON 1.6K 5% 1/4W		R062	1-246-512-00	CARBON 43K 5% 1/4W	
R009	1-246-480-00	CARBON 2K 5% 1/4W		R063	1-246-457-00	CARBON 220 5% 1/4W	
R010	1-246-505-00	CARBON 22K 5% 1/4W		R064	1-246-505-00	CARBON 22K 5% 1/4W	
R011	1-246-513-00	CARBON 47K 5% 1/4W		R065	1-246-521-00	CARBON 100K 5% 1/4W	
R012	1-246-475-00	CARBON 1.2K 5% 1/4W		R066	1-246-509-00	CARBON 33K 5% 1/4W	
R013	1-246-521-00	CARBON 100K 5% 1/4W		R067	1-246-497-00	CARBON 10K 5% 1/4W	
R014	1-246-531-00	CARBON 270K 5% 1/4W		R068	1-246-471-00	CARBON 820 5% 1/4W	
R015	1-246-501-00	CARBON 15K 5% 1/4W		R069	1-246-445-00	CARBON 68 5% 1/4W	
R016	1-246-461-00	CARBON 330 5% 1/4W		R070	1-244-860-00	CARBON 300 5% 1/2W	
R017	1-246-472-00	CARBON 910 5% 1/4W		R071	1-246-481-00	CARBON 2.2K 5% 1/4W	
R018	1-246-521-00	CARBON 100K 5% 1/4W		R072	1-246-481-00	CARBON 2.2K 5% 1/4W	
R019	1-246-485-00	CARBON 3.3K 5% 1/4W		R073	1-246-501-00	CARBON 15K 5% 1/4W	
R020	1-246-513-00	CARBON 47K 5% 1/4W		R074	1-246-509-00	CARBON 33K 5% 1/4W	
R021	1-246-489-00	CARBON 4.7K 5% 1/4W		R075	1-246-485-00	CARBON 3.3K 5% 1/4W	
R022	1-246-481-00	CARBON 2.2K 5% 1/4W		R076	1-246-446-00	CARBON 75 5% 1/4W	
R023	1-210-829-00	COMPOSITION 4.7M 5% 1/4W		R077	1-246-446-00	CARBON 75 5% 1/4W	
R024	1-246-465-00	CARBON 470 5% 1/4W		R078	1-246-497-00	CARBON 10K 5% 1/4W	
R025	1-246-477-00	CARBON 1.5K 5% 1/4W		R079	1-246-513-00	CARBON 47K 5% 1/4W	
R026	1-246-491-00	CARBON 5.6K 5% 1/4W		R080	1-246-489-00	CARBON 4.7K 5% 1/4W	
R027	1-246-513-00	CARBON 47K 5% 1/4W		R081	1-246-513-00	CARBON 47K 5% 1/4W	
R028	1-246-495-00	CARBON 8.2K 5% 1/4W		R082	1-246-497-00	CARBON 10K 5% 1/4W	
R029	1-246-497-00	CARBON 10K 5% 1/4W		R083	1-246-473-00	CARBON 1K 5% 1/4W	
R030	1-246-485-00	CARBON 3.3K 5% 1/4W		R084	1-246-456-00	CARBON 200 5% 1/4W	
R031	1-246-473-00	CARBON 1K 5% 1/4W		R085	1-246-481-00	CARBON 2.2K 5% 1/4W	
R032	1-246-475-00	CARBON 1.2K 5% 1/4W		R086	1-246-452-00	CARBON 130 5% 1/4W	
R033	1-246-513-00	CARBON 47K 5% 1/4W		R087	1-246-473-00	CARBON 1K 5% 1/4W	
R034	1-246-799-00	CARBON 22K 5% 1/8W		R088	1-246-497-00	CARBON 10K 5% 1/4W	
R035	1-246-521-00	CARBON 100K 5% 1/4W		R089	1-246-488-00	CARBON 4.3K 5% 1/4W	
R036	1-246-496-00	CARBON 9.1K 5% 1/4W		R090	1-246-507-00	CARBON 27K 5% 1/4W	
R037	1-246-857-00	CARBON 13K 5% 1/8W		R091	1-246-473-00	CARBON 1K 5% 1/4W	
R038	1-246-473-00	CARBON 1K 5% 1/4W		R092	1-246-475-00	CARBON 1.2K 5% 1/4W	
				R093	1-246-471-00	CARBON 820 5% 1/4W	

Ref.No	Part No	Description				Remark	Ref.No	Part No	Description				Remark
R094	1-246-497-00	CARBON	10K	5%	1/4W		R147	1-246-783-00	CARBON	1K	5%	1/8W	
R095	1-246-488-00	CARBON	4.3K	5%	1/4W		R148	1-246-465-00	CARBON	470	5%	1/4W	
R096	1-246-521-00	CARBON	100K	5%	1/4W		R149	1-246-473-00	CARBON	1K	5%	1/4W	
R097	1-246-481-00	CARBON	2.2K	5%	1/4W		R150	1-246-475-00	CARBON	1.2K	5%	1/4W	
R098	1-246-780-00	CARBON	560	5%	1/8W		R151	1-246-481-00	CARBON	2.2K	5%	1/4W	
R099	1-246-515-00	CARBON	56K	5%	1/4W		R152	1-246-473-00	CARBON	1K	5%	1/4W	
R100	1-246-515-00	CARBON	56K	5%	1/4W		R153	1-246-501-00	CARBON	15K	5%	1/4W	
R101	1-210-819-00	COMPOSITION	1.8M	5%	1/4W		R154	1-246-473-00	CARBON	1K	5%	1/4W	
R102	1-246-542-00	CARBON	750K	5%	1/4W		R155	1-246-497-00	CARBON	10K	5%	1/4W	
R103	1-246-485-00	CARBON	3.3K	5%	1/4W		R156	1-246-482-00	CARBON	2.4K	5%	1/4W	
R104	1-246-481-00	CARBON	2.2K	5%	1/4W		R157	1-246-470-00	CARBON	750	5%	1/4W	
R105	1-246-493-00	CARBON	6.8K	5%	1/4W		R158	1-246-489-00	CARBON	4.7K	5%	1/4W	
R106	1-246-513-00	CARBON	47K	5%	1/4W		R159	1-246-481-00	CARBON	2.2K	5%	1/4W	
R107	1-246-497-00	CARBON	10K	5%	1/4W		R160	1-246-470-00	CARBON	750	5%	1/4W	
R108	1-246-795-00	CARBON	10K	5%	1/8W		R161	1-246-509-00	CARBON	33K	5%	1/4W	
R109	1-246-791-00	CARBON	4.7K	5%	1/8W		R162	1-246-503-00	CARBON	18K	5%	1/4W	
R110	1-246-491-00	CARBON	5.6K	5%	1/4W		R163	1-246-469-00	CARBON	680	5%	1/4W	
R111	1-246-852-00	CARBON	5.1K	5%	1/8W		R164	1-246-491-00	CARBON	5.6K	5%	1/4W	
R112	1-246-477-00	CARBON	1.5K	5%	1/4W		R165	1-246-479-00	CARBON	1.8K	5%	1/4W	
R113	1-246-473-00	CARBON	1K	5%	1/4W		R166	1-246-797-00	CARBON	15K	5%	1/8W	
R114	1-246-481-00	CARBON	2.2K	5%	1/4W		R167	1-246-491-00	CARBON	5.6K	5%	1/4W	
R115	1-246-505-00	CARBON	22K	5%	1/4W		R168	1-246-467-00	CARBON	560	5%	1/4W	
R116	1-246-449-00	CARBON	100	5%	1/4W		R169	1-246-797-00	CARBON	15K	5%	1/8W	
R117	1-246-466-00	CARBON	510	5%	1/4W		R170	1-246-485-00	CARBON	3.3K	5%	1/4W	
R118	1-246-479-00	CARBON	1.8K	5%	1/4W		R171	1-246-467-00	CARBON	560	5%	1/4W	
R119	1-246-441-00	CARBON	47	5%	1/4W		R172	1-246-465-00	CARBON	470	5%	1/4W	
R120	1-246-465-00	CARBON	470	5%	1/4W		R173	1-246-480-00	CARBON	2K	5%	1/4W	
R121	1-246-465-00	CARBON	470	5%	1/4W		R174	1-246-505-00	CARBON	22K	5%	1/4W	
R122	1-246-465-00	CARBON	470	5%	1/4W		R175	1-246-797-00	CARBON	15K	5%	1/8W	
R123	1-246-475-00	CARBON	1.2K	5%	1/4W		R176	1-246-490-00	CARBON	5.1K	5%	1/4W	
R124	1-246-473-00	CARBON	1K	5%	1/4W		R177	1-246-495-00	CARBON	8.2K	5%	1/4W	
R125	1-246-505-00	CARBON	22K	5%	1/4W		R178	1-246-471-00	CARBON	320	5%	1/4W	
R126	1-246-803-00	CARBON	47K	5%	1/8W		R179	1-246-795-00	CARBON	10K	5%	1/8W	
R127	1-246-497-00	CARBON	10K	5%	1/4W		R180	1-246-479-00	CARBON	1.8K	5%	1/4W	
R128	1-246-473-00	CARBON	1K	5%	1/4W		R181	1-246-485-00	CARBON	3.3K	5%	1/4W	
R129	1-246-489-00	CARBON	4.7K	5%	1/4W		R182	1-246-467-00	CARBON	560	5%	1/4W	
R130	1-246-505-00	CARBON	22K	5%	1/4W		R183	1-246-484-00	CARBON	3K	5%	1/4W	
R131	1-246-481-00	CARBON	2.2K	5%	1/4W		R184	1-246-505-00	CARBON	22K	5%	1/4W	
R132	1-246-854-00	CARBON	7.5K	5%	1/8W		R185	1-246-505-00	CARBON	22K	5%	1/4W	
R133	1-246-503-00	CARBON	18K	5%	1/4W		R186	1-212-705-00	METAL	130K	1%	1/2W	
R134	1-246-469-00	CARBON	680	5%	1/4W		R187	1-246-513-00	CARBON	47K	5%	1/4W	
R135	1-246-850-00	CARBON	36K	5%	1/8W		R188	1-246-489-00	CARBON	4.7K	5%	1/4W	
R136	1-246-792-00	CARBON	5.6K	5%	1/8W		R189	1-246-453-00	CARBON	150	5%	1/4W	
R137	1-246-781-00	CARBON	680	5%	1/8W		R190	1-246-490-00	CARBON	5.1K	5%	1/4W	
R138	1-246-781-00	CARBON	680	5%	1/8W		R191	1-246-803-00	CARBON	47K	5%	1/8W	
R139	1-246-781-00	CARBON	680	5%	1/8W		R192	1-246-497-00	CARBON	10K	5%	1/4W	
R140	1-246-469-00	CARBON	680	5%	1/4W		R193	1-246-799-00	CARBON	22K	5%	1/8W	
R141	1-246-463-00	CARBON	390	5%	1/4W								
R142	1-246-481-00	CARBON	2.2K	5%	1/4W				VARIABLE RESISTOR				
R143	1-246-452-00	CARBON	130	5%	1/4W		RV001	1-224-250-XX	RES, ADJ, SOLID	2.2K			
R144	1-246-469-00	CARBON	680	5%	1/4W		RV002	1-224-249-XX	RES, ADJ, SOLID	1K			
R145	1-246-465-00	CARBON	470	5%	1/4W		RV003	1-224-250-XX	RES, ADJ, SOLID	2.2K			
R146	1-246-475-00	CARBON	1.2K	5%	1/4W		RV004	1-224-252-XX	RES, ADJ, SOLID	10K			

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
RV005	1-224-249-XX	RES, ADJ, SOLID 1K		C016	1-101-005-00	CERAMIC 0.022MF	50V
RV006	1-224-248-XX	RES, ADJ, SOLID 470		C017	1-161-494-00	CERAMIC 0.022MF	30% 25V
RV007	1-224-249-XX	RES, ADJ, SOLID 1K		C019	1-123-352-00	ELECT 1MF	20% 50V
RV008	1-224-250-XX	RES, ADJ, SOLID 2.2K		C020	1-101-005-00	CERAMIC 0.022MF	50V
RV009	1-224-250-XX	RES, ADJ, SOLID 2.2K		C021	1-123-352-00	ELECT 1MF	20% 50V
RV010	1-224-249-XX	RES, ADJ, SOLID 1K		C022	1-101-006-00	CERAMIC 0.047MF	50V
RV011	1-224-249-XX	RES, ADJ, SOLID 1K		C023	1-101-004-00	CERAMIC 0.01MF	50V
RV012	1-224-248-XX	RES, ADJ, SOLID 470		C024	1-131-371-00	TANTALUM 10MF	20% 16V
RV013	1-224-255-XX	RES, ADJ, SOLID 100K		C025	1-123-353-00	ELECT 2.2MF	20% 50V
RV014	1-224-254-XX	RES, ADJ, SOLID 47K		C026	1-161-047-00	CERAMIC 0.0047MF	30% 50V
RV015	1-224-252-XX	RES, ADJ, SOLID 10K		C029	1-101-886-00	CERAMIC 62PF	5% 50V
RV016	1-224-253-XX	RES, ADJ, SOLID 22K		C030	1-101-886-00	CERAMIC 62PF	5% 50V
<u>SWITCH</u>				C031	1-101-005-00	CERAMIC 0.022MF	50V
S001	1-552-821-00	SWITCH, SLIDE		C032	1-123-316-00	ELECT 10MF	20% 16V
S002	1-553-034-00	SWITCH, SLIDE		C033	1-108-370-00	MYLAR 0.0027MF	10% 100V
<u>TRANSFORMER</u>				C034	1-161-319-00	CERAMIC 470PF	10% 50V
T001	1-231-728-00	FILTER, BANDPASS (2)		C035	1-161-271-00	CERAMIC 100PF	5% 50V
T002	1-415-083-00	COIL, EQT-1		C036	1-161-319-00	CERAMIC 470PF	10% 50V
T003	1-231-412-00	FILTER BLOCK		C037	1-161-051-00	CERAMIC 0.01MF	30% 25V
T004	1-425-785-31	TRANSFORMER, BURST AMP(BAT)		C038	1-108-370-00	MYLAR 0.0027MF	10% 100V
T005	1-231-727-00	FILTER, BANDPASS (1)		C039	1-131-371-00	TANTALUM 1UMF	20% 16V
T006	1-411-104-00	COIL, BPT-5		C040	1-161-317-00	CERAMIC 330PF	10% 50V
T007	1-425-993-00	TRANSFORMER, BANDPASS		C041	1-161-494-00	CERAMIC 0.022MF	30% 25V
T008	1-425-992-00	COIL, EQUALIZER		C042	1-161-494-00	CERAMIC 0.022MF	30% 25V
<u>CRYSTAL</u>				<u>CONNECTOR</u>			
X001	1-527-154-00	CRYSTAL OSCILLATOR 3.57954MHZ		CN001	1-508-743-00	PIN, CONNECTOR 5P	
*****				CN002	1-508-845-00	PIN, CONNECTOR 6P	
				CN003	1-508-744-00	PIN, CONNECTOR 10P	
				CN004	1-508-847-00	PIN, CONNECTOR 4P	
				<u>DIODE</u>			
♣:A-6711-256-A RP-4 BOARD, COMPLETE E-301				D001	8-719-815-55	DIODE 1S1555	
♣:3-664-420-00 LID, REAR, SHIELD CASE (B)				D002	8-719-815-55	DIODE 1S1555	
♣:3-664-421-00 CASE (B) (MAIN), SHIELD				D003	8-719-815-55	DIODE 1S1555	
<u>CAPACITOR</u>				D004	8-719-815-55	DIODE 1S1555	
C001	1-161-051-00	CERAMIC 0.01MF	30% 25V	D005	8-719-815-55	DIODE 1S1555	
C002	1-161-051-00	CERAMIC 0.01MF	30% 25V	D006	8-719-815-55	DIODE 1S1555	
C003	1-101-005-00	CERAMIC 0.022MF	50V	D007	8-719-815-55	DIODE 1S1555	
C004	1-123-318-00	ELECT 33MF	20% 16V	D008	8-719-815-55	DIODE 1S1555	
C005	1-123-351-00	ELECT 0.47MF	20% 50V	<u>IC</u>			
C006	1-161-051-00	CERAMIC 0.01MF	30% 25V	IC001	8-751-340-00	IC CX-134A	
C007	1-123-352-00	ELECT 1MF	20% 50V	<u>COIL</u>			
C008	1-101-006-00	CERAMIC 0.047MF	50V	L001	1-407-157-XX	MICRO INDUCTOR 10UH	
C009	1-161-051-00	CERAMIC 0.01MF	30% 25V	L002	1-408-029-00	MICRO INDUCTOR 0.56UH	
C010	1-123-352-00	ELECT 1MF	20% 50V	L003	1-408-029-00	MICRO INDUCTOR 0.56UH	
C011	1-123-352-00	ELECT 1MF	20% 50V	L004	1-408-029-00	MICRO INDUCTOR 0.56UH	
C012	1-101-006-00	CERAMIC 0.047MF	50V	L005	1-408-158-00	MICRO INDUCTOR 6.8MMH	
C013	1-101-004-00	CERAMIC 0.01MF	50V	L006	1-408-158-00	MICRO INDUCTOR 6.8MMH	
C014	1-101-005-00	CERAMIC 0.022MF	50V	L007	1-407-158-XX	MICRO INDUCTOR 12UH	
C015	1-161-494-00	CERAMIC 0.022MF	30% 25V	L008	1-407-158-XX	MICRO INDUCTOR 12UH	

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

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
L009	1-407-706-00	MICRO INDUCTOR 1200H		R029	1-246-497-00	CARBON 10K 5%	1/4W
L010	1-407-496-00	MICRO INDUCTOR 2.2MMH		R030	1-246-490-00	CARBON 5.1K 5%	1/4W
L011	1-407-195-XX	MICRO INDUCTOR 1MMH		R031	1-246-513-00	CARBON 47K 5%	1/4W
<u>VARIABLE COIL</u>				R032	1-246-485-00	CARBON 3.3K 5%	1/4W
LV001	1-407-286-00	MICRO INDUCTOR 2.2MMH		R033	1-246-484-00	CARBON 3K 5%	1/4W
<u>TRANSISTOR</u>				R034	1-246-468-00	CARBON 620 5%	1/4W
Q001	=>8-729-663-47	TRANSISTOR 2SC1364		R035	1-246-463-00	CARBON 390 5%	1/4W
Q002	8-729-384-48	TRANSISTOR 2SA844		R036	1-246-468-00	CARBON 620 5%	1/4W
Q003	=>8-729-612-77	TRANSISTOR 2SA1027R		R037	1-246-449-00	CARBON 100 5%	1/4W
Q004	=>8-729-663-47	TRANSISTOR 2SC1364		R038	1-246-464-00	CARBON 430 5%	1/4W
Q005	8-724-375-01	TRANSISTOR 2SC403C		R039	1-246-421-00	CARBON 6.8 5%	1/4W
Q006	8-729-178-54	TRANSISTOR 2SC2785		R040	▲1-247-028-00	CARBON 8.2 5%	1/8W F
Q007	8-765-423-00	TRANSISTOR 2SK152-3		R041	1-246-481-00	CARBON 2.2K 5%	1/4W
Q008	8-765-423-00	TRANSISTOR 2SK152-3		R042	1-246-481-00	CARBON 2.2K 5%	1/4W
Q009	8-729-178-54	TRANSISTOR 2SC2785		R043	1-246-481-00	CARBON 2.2K 5%	1/4W
Q010	8-729-178-54	TRANSISTOR 2SC2785		R044	1-246-481-00	CARBON 2.2K 5%	1/4W
Q011	8-729-178-54	TRANSISTOR 2SC2785		R045	1-246-473-00	CARBON 1K 5%	1/4W
Q012	8-724-375-01	TRANSISTOR 2SC403C		R046	1-246-473-00	CARBON 1K 5%	1/4W
Q013	8-765-423-00	TRANSISTOR 2SK152-3		R047	1-246-467-00	CARBON 560 5%	1/4W
Q014	8-724-375-01	TRANSISTOR 2SC403C		R048	1-246-475-00	CARBON 1.2K 5%	1/4W
Q015	8-729-178-54	TRANSISTOR 2SC2785		R049	1-246-491-00	CARBON 5.6K 5%	1/4W
<u>RESISTOR</u>				R050	1-246-497-00	CARBON 10K 5%	1/4W
R001	▲1-247-028-00	CARBON 8.2 5%	1/8W F	R051	1-246-783-00	CARBON 1K 5%	1/8W
R002	1-246-502-00	CARBON 16K 5%	1/4W	R052	1-246-468-00	CARBON 620 5%	1/4W
R003	1-246-485-00	CARBON 3.3K 5%	1/4W	R053	1-246-491-00	CARBON 5.6K 5%	1/4W
R004	1-246-473-00	CARBON 1K 5%	1/4W	R054	1-246-497-00	CARBON 10K 5%	1/4W
R005	1-246-781-00	CARBON 680 5%	1/8W	R055	1-246-481-00	CARBON 2.2K 5%	1/4W
R006	1-246-463-00	CARBON 390 5%	1/4W	R056	1-246-451-00	CARBON 120 5%	1/4W
R007	1-246-519-00	CARBON 82K 5%	1/4W	R057	1-246-489-00	CARBON 4.7K 5%	1/4W
R008	1-246-795-00	CARBON 10K 5%	1/8W	R058	1-246-509-00	CARBON 33K 5%	1/4W
R009	1-246-464-00	CARBON 430 5%	1/4W	R059	▲1-247-028-00	CARBON 8.2 5%	1/8W F
R010	1-246-422-00	CARBON 7.5 5%	1/4W	R060	1-246-457-00	CARBON 220 5%	1/4W
R011	1-246-477-00	CARBON 1.5K 5%	1/4W	R061	1-246-489-00	CARBON 4.7K 5%	1/4W
R012	1-246-477-00	CARBON 1.5K 5%	1/4W	<u>VARIABLE RESISTOR</u>			
R013	▲1-211-929-00	CARBON 82 5%	1/8W F	RV001	1-224-642-XX	RES, ADJ, CARBON 1K	
R014	1-246-449-00	CARBON 100 5%	1/4W	RV002	1-224-644-XX	RES, ADJ, CARBON 3.3K	
R015	1-246-515-00	CARBON 56K 5%	1/4W	RV003	1-224-642-XX	RES, ADJ, CARBON 1K	
R016	1-246-497-00	CARBON 10K 5%	1/4W	RV004	1-224-642-XX	RES, ADJ, CARBON 1K	
R017	▲1-211-421-00	CARBON 39 5%	1/8W F	RV005	1-224-643-XX	RES, ADJ, CARBON 2.2K	
R018	1-246-463-00	CARBON 390 5%	1/4W	RV006	1-224-644-XX	RES, ADJ, CARBON 4.7K	
R019	1-246-485-00	CARBON 3.3K 5%	1/4W	<u>TRANSFORMER</u>			
R020	1-246-497-00	CARBON 10K 5%	1/4W	T001	1-427-455-00	TRANSFORMER, 1/0 PUT	
R021	1-246-463-00	CARBON 390 5%	1/4W	T002	1-427-455-00	TRANSFORMER, 1/0 PUT	
R022	1-246-468-00	CARBON 620 5%	1/4W	T003	1-427-455-00	TRANSFORMER, 1/0 PUT	
R023	1-246-795-00	CARBON 10K 5%	1/8W	*****			
R024	1-246-792-00	CARBON 5.6K 5%	1/8W	▲:A-6713-102-A	SA-7 BOARD, COMPLETE	E-603	
R025	1-246-463-00	CARBON 390 5%	1/4W	▲:3-661-687-00	CASE, SHIELD, (B) BOTTOM PLATE		
R026	1-246-485-00	CARBON 3.3K 5%	1/4W	▲:3-661-688-00	CASE, SHIELD, (A) MAIN		
R027	1-246-463-00	CARBON 390 5%	1/4W	▲:3-661-689-00	CASE, SHIELD, (A) LID		
R028	1-246-468-00	CARBON 620 5%	1/4W				

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

• =>: 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.

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
◆:3-661-690-00		CASE, SHIELD, (A) BOTTOM PLATE		C051	1-123-316-00	ELECT	10MF 20% 16V
◆:3-661-691-00		CASE, SHIELD, (B) LID		C061	1-131-361-00	TANTALUM	2.2MF 10% 20V
◆:3-661-692-00		CASE, SHIELD, (B) MAIN		C062	1-131-361-00	TANTALUM	2.2MF 10% 20V
◆:3-665-842-00		REINFORCEMENT, SA-7 PC BOARD		C063	1-101-006-00	CERAMIC	0.047MF 50V
◆:3-701-748-00		CLAMP		C064	1-123-320-00	ELECT	100MF 20% 16V
<u>CAPACITOR</u>				C065	1-123-317-00	ELECT	22MF 20% 16V
C001	1-123-316-00	ELECT	10MF 20% 16V	C066	1-131-345-00	TANTALUM	0.47MF 10% 35V
C002	1-108-381-00	MYLAR	0.022MF 10% 100V	C067	1-123-352-00	ELECT	1MF 20% 50V
C003	1-108-381-00	MYLAR	0.022MF 10% 100V	C068	1-130-224-00	FILM	0.015MF 5% 50V
C004	1-108-385-00	MYLAR	0.047MF 10% 100V	C069	1-130-026-00	FILM	0.0047MF 5% 50V
C005	1-102-074-00	CERAMIC	0.001MF 10% 50V	C074	1-123-329-00	ELECT	10MF 20% 25V
C006	1-101-006-00	CERAMIC	0.047MF 50V	C075	1-101-006-00	CERAMIC	0.047MF 50V
C007	1-131-369-00	TANTALUM	4.7MF 10% 16V	C076	1-161-494-00	CERAMIC	0.022MF 30% 25V
C008	1-131-369-00	TANTALUM	4.7MF 10% 16V	C078	1-123-353-00	ELECT	2.2MF 20% 50V
C009	1-161-021-00	CERAMIC	0.047MF 10% 25V	C079	1-123-328-00	ELECT	4.7MF 20% 25V
C010	1-131-345-00	TANTALUM	0.47MF 10% 35V	C080	1-131-361-00	TANTALUM	2.2MF 10% 20V
C011	1-130-224-00	FILM	0.015MF 5% 50V	C082	1-123-317-00	ELECT	22MF 20% 16V
C012	1-101-059-00	CERAMIC	510PF 5% 50V	C083	1-123-328-00	ELECT	4.7MF 20% 25V
C013	1-130-224-00	FILM	0.015MF 5% 50V	C084	1-123-316-00	ELECT	10MF 20% 16V
C014	1-130-224-00	FILM	0.015MF 5% 50V	C086	1-123-316-00	ELECT	10MF 20% 16V
C015	1-130-023-00	FILM	0.0027MF 5% 50V	C087	1-123-316-00	ELECT	10MF 20% 16V
C016	1-102-129-00	CERAMIC	0.01MF 10% 50V	C088	1-101-006-00	CERAMIC	0.047MF 50V
C017	1-108-385-00	MYLAR	0.047MF 10% 100V	C089	1-123-316-00	ELECT	10MF 20% 16V
C018	1-102-824-00	CERAMIC	430PF 5% 50V	C090	1-101-004-00	CERAMIC	0.01MF 50V
C019	1-131-369-00	TANTALUM	4.7MF 10% 16V	C092	1-123-316-00	ELECT	10MF 20% 16V
C020	1-131-369-00	TANTALUM	4.7MF 10% 16V	C093	1-161-013-00	CERAMIC	0.01MF 10% 25V
C021	1-101-006-00	CERAMIC	0.047MF 50V	C094	1-161-013-00	CERAMIC	0.01MF 10% 25V
C022	1-123-307-00	ELECT	100MF 20% 10V	C300	1-101-059-00	CERAMIC	510PF 5% 50V
C024	1-101-006-00	CERAMIC	0.047MF 50V	C301	1-102-820-00	CERAMIC	330PF 5% 50V
C025	1-131-369-00	TANTALUM	4.7MF 10% 16V	C302	1-108-555-00	MYLAR	0.001MF 5% 50V
C026	1-131-369-00	TANTALUM	4.7MF 10% 16V	C303	1-123-318-00	ELECT	33MF 20% 16V
C027	1-123-328-00	ELECT	4.7MF 20% 25V	C304	1-123-352-00	ELECT	1MF 20% 50V
C028	1-131-347-00	TANTALUM	1MF 10% 35V	C306	1-123-295-00	ELECT	100MF 20% 6.3V
C029	1-101-006-00	CERAMIC	0.047MF 50V	C307	1-123-316-00	ELECT	10MF 20% 16V
C030	1-131-345-00	TANTALUM	0.47MF 10% 35V	C308	1-123-319-00	ELECT	47MF 20% 16V
C032	1-161-494-00	CERAMIC	0.022MF 30% 25V	C309	1-102-973-00	CERAMIC	100PF 5% 50V
C033	1-123-352-00	ELECT	1MF 20% 50V	C310	1-102-074-00	CERAMIC	0.001MF 10% 50V
C034	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C311	1-123-316-00	ELECT	10MF 20% 16V
C035	1-102-074-00	CERAMIC	0.001MF 10% 50V	C312	1-123-320-00	ELECT	100MF 20% 16V
C036	1-123-305-00	ELECT	33MF 20% 10V	C313	1-123-328-00	ELECT	4.7MF 20% 25V
C038	1-131-345-00	TANTALUM	0.47MF 10% 35V	C314	1-123-311-00	ELECT	1000MF 20% 10V
C039	1-131-346-00	TANTALUM	0.68MF 10% 35V	C315	1-108-375-00	MYLAR	0.0068MF 10% 100V
C040	1-131-344-00	TANTALUM	0.33MF 10% 35V	C316	1-108-383-00	MYLAR	0.033MF 10% 100V
C041	1-161-025-00	CERAMIC	0.1MF 10% 25V	C317	1-108-387-00	MYLAR	0.068MF 10% 100V
C042	1-102-129-00	CERAMIC	0.01MF 10% 50V	C318	1-108-365-00	MYLAR	0.001MF 10% 100V
C043	1-123-320-00	ELECT	100MF 20% 16V	C319	1-108-579-00	MYLAR	0.01MF 5% 50V
C044	1-101-006-00	CERAMIC	0.047MF 50V	C320	1-108-589-00	MYLAR	0.027MF 5% 50V
C045	1-123-351-00	ELECT	0.47MF 20% 50V	C321	1-161-013-00	CERAMIC	0.01MF 10% 25V
C046	1-130-535-00	FILM	0.15MF 5% 50V	C322	1-123-352-00	ELECT	1MF 20% 50V
C047	1-102-074-00	CERAMIC	0.001MF 10% 50V	C323	1-108-377-00	MYLAR	0.01MF 10% 100V
C048	1-130-201-00	FILM	0.068MF 5% 50V	C324	1-123-319-00	ELECT	47MF 20% 16V
C049	1-123-320-00	ELECT	100MF 20% 16V	C325	1-123-319-00	ELECT	47MF 20% 16V
				C326	1-102-959-00	CERAMIC	22PF 5% 50V

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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C327	1-123-316-00	ELECT	10MF 20% 16V	C528	1-101-006-00	CERAMIC	0.047MF 50V
C328	1-123-316-00	ELECT	10MF 20% 16V	C529	1-101-004-00	CERAMIC	0.01MF 50V
C329	1-108-374-00	MYLAR	0.0056MF 10% 100V	C530	1-102-129-00	CERAMIC	0.01MF 10% 50V
C330	1-123-316-00	ELECT	10MF 20% 16V	C531	1-161-013-00	CERAMIC	0.01MF 10% 25V
C331	1-101-888-00	CERAMIC	68PF 5% 50V	C601	1-130-048-00	FILM	220PF 5% 50V
C332	1-123-328-00	ELECT	4.7MF 20% 25V	C602	1-130-014-00	FILM	470PF 5% 50V
C333	1-161-007-00	CERAMIC	0.0033MF 10% 25V	C603	1-102-973-00	CERAMIC	100PF 5% 50V
C334	1-123-319-00	ELECT	47MF 20% 16V	C604	1-102-978-00	CERAMIC	220PF 5% 50V
C335	1-123-320-00	ELECT	100MF 20% 16V	C605	1-101-059-00	CERAMIC	510PF 5% 50V
C336	1-123-317-00	ELECT	22MF 20% 16V	C606	1-102-973-00	CERAMIC	100PF 5% 50V
C337	1-101-004-00	CERAMIC	0.01MF 50V	C607	1-123-319-00	ELECT	47MF 20% 16V
C338	1-123-318-00	ELECT	33MF 20% 16V	C608	1-102-973-00	CERAMIC	100PF 5% 50V
C339	1-123-316-00	ELECT	10MF 20% 16V	C609	1-130-018-00	FILM	0.001MF 5% 50V
C340	1-102-816-00	CERAMIC	120PF 5% 50V	C610	1-108-365-00	MYLAR	0.001MF 10% 100V
C341	1-123-316-00	ELECT	10MF 20% 16V	C611	1-131-361-00	TANTALUM	2.2MF 10% 20V
C342	1-108-365-00	MYLAR	0.001MF 10% 100V	C612	1-131-361-00	TANTALUM	2.2MF 10% 20V
C343	1-102-980-00	CERAMIC	270PF 5% 50V	C701	1-123-320-00	ELECT	100MF 20% 16V
C345	1-108-583-00	MYLAR	0.015MF 5% 50V	C702	1-131-341-00	TANTALUM	0.1MF 10% 35V
C346	1-108-591-00	MYLAR	0.033MF 5% 50V	C703	1-123-317-00	ELECT	22MF 10% 16V
C347	1-130-062-00	FILM	0.0056MF 10% 630V	C704	1-123-316-00	ELECT	10MF 20% 16V
C348	1-108-373-00	MYLAR	0.0047MF 10% 100V	C705	1-123-320-00	ELECT	100MF 20% 16V
C349	1-108-369-00	MYLAR	0.0022MF 10% 100V	C706	1-123-307-00	ELECT	100MF 20% 10V
C350	1-123-319-00	ELECT	47MF 20% 16V	C707	1-102-973-00	CERAMIC	100PF 5% 50V
C351	1-123-320-00	ELECT	100MF 20% 16V	C708	1-161-271-00	CERAMIC	100PF 5% 50V
C352	1-102-973-00	CERAMIC	100PF 5% 50V	C709	1-123-320-00	ELECT	100MF 20% 16V
C400	1-123-354-00	ELECT	3.3MF 20% 50V	C710	1-161-016-00	CERAMIC	0.018MF 10% 25V
C401	1-161-021-00	CERAMIC	0.047MF 10% 25V	C711	1-123-316-00	ELECT	10MF 20% 16V
C402	1-123-319-00	ELECT	47MF 20% 16V	C712	1-102-129-00	CERAMIC	0.01MF 10% 50V
C403	1-123-319-00	ELECT	47MF 20% 16V	C713	1-102-963-00	CERAMIC	33PF 5% 50V
C502	1-131-346-00	TANTALUM	0.68MF 10% 35V	C714	1-123-298-00	ELECT	470MF 20% 6.3V
C503	1-101-006-00	CERAMIC	0.047MF 50V	C715	1-123-316-00	ELECT	10MF 20% 16V
C504	1-102-129-00	CERAMIC	0.01MF 10% 50V	C716	1-123-296-00	ELECT	220MF 20% 6.3V
C505	1-131-346-00	TANTALUM	0.68MF 10% 35V	C717	1-123-319-00	ELECT	47MF 20% 16V
C506	1-101-006-00	CERAMIC	0.047MF 50V	C718	1-161-017-00	CERAMIC	0.022MF 10% 25V
C507	1-131-346-00	TANTALUM	0.68MF 10% 35V	C719	1-161-017-00	CERAMIC	0.022MF 10% 25V
C508	1-101-006-00	CERAMIC	0.047MF 50V	C720	1-131-343-00	TANTALUM	0.22MF 10% 35V
C509	1-123-328-00	ELECT	4.7MF 20% 25V	C721	1-161-323-00	CERAMIC	0.001MF 10% 50V
C510	1-123-316-00	ELECT	10MF 20% 16V	C722	1-161-021-00	CERAMIC	0.047MF 10% 25V
C511	1-108-387-00	MYLAR	0.068MF 10% 100V	C723	1-131-341-00	TANTALUM	0.1MF 10% 35V
C512	1-161-021-00	CERAMIC	0.047MF 10% 25V	C724	1-123-317-00	ELECT	22MF 20% 16V
C514	1-131-346-00	TANTALUM	0.68MF 10% 35V	<u>CONNECTOR</u>			
C516	1-131-346-00	TANTALUM	0.68MF 10% 35V	CN001*	1-508-849-00	PIN, CONNECTOR	8P
C517	1-161-021-00	CERAMIC	0.047MF 10% 25V	CN002*	1-508-846-00	PIN, CONNECTOR	8P
C518	1-123-320-00	ELECT	100MF 20% 16V	CN003*	1-508-846-00	PIN, CONNECTOR	8P
C519	1-102-973-00	CERAMIC	100PF 5% 50V	CN004*	1-508-744-00	PIN, CONNECTOR	10P
C520	1-101-004-00	CERAMIC	0.01MF 50V	CN005*	1-508-742-00	PIN, CONNECTOR	3P
C521	1-161-013-00	CERAMIC	0.01MF 10% 25V	CN006*	1-508-742-00	PIN, CONNECTOR	3P
C522	1-123-316-00	ELECT	10MF 20% 16V	CN007*	1-508-742-00	PIN, CONNECTOR	3P
C523	1-101-004-00	CERAMIC	0.01MF 50V	CN008*	1-508-846-00	PIN, CONNECTOR	8P
C524	1-101-004-00	CERAMIC	0.01MF 50V	CN009*	1-508-742-00	PIN, CONNECTOR	3P
C525	1-101-004-00	CERAMIC	0.01MF 50V				
C526	1-101-004-00	CERAMIC	0.01MF 50V				
C527	1-101-004-00	CERAMIC	0.01MF 50V				

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

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
<u>COMPOSITION</u>							
CP001	1-231-893-00	COMPOSITION CIRCUIT BLOCK		CP053	1-231-927-00	COMPOSITION CIRCUIT BLOCK	
CP002	1-231-965-00	COMPOSITION CIRCUIT BLOCK		CP054	1-231-953-00	COMPOSITION CIRCUIT BLOCK	
CP003	1-231-909-00	COMPOSITION CIRCUIT BLOCK		CP055	1-231-928-00	COMPOSITION CIRCUIT BLOCK	
CP004	1-231-894-00	COMPOSITION CIRCUIT BLOCK		CP056	1-231-929-00	COMPOSITION CIRCUIT BLOCK	
CP005	1-231-910-00	COMPOSITION CIRCUIT BLOCK		CP057	1-231-954-00	COMPOSITION CIRCUIT BLOCK	
CP006	1-231-914-00	COMPOSITION CIRCUIT BLOCK		CP058	1-231-955-00	COMPOSITION CIRCUIT BLOCK	
CP007	1-231-911-00	COMPOSITION CIRCUIT BLOCK		CP059	1-231-930-00	COMPOSITION CIRCUIT BLOCK	
CP008	1-231-907-00	COMPOSITION CIRCUIT BLOCK		CP060	1-231-931-00	COMPOSITION CIRCUIT BLOCK	
CP009	1-231-907-00	COMPOSITION CIRCUIT BLOCK		CP061	1-231-932-00	COMPOSITION CIRCUIT BLOCK	
CP010	1-231-912-00	COMPOSITION CIRCUIT BLOCK		CP062	1-231-933-00	COMPOSITION CIRCUIT BLOCK	
CP011	1-231-913-00	COMPOSITION CIRCUIT BLOCK		CP063	1-231-956-00	COMPOSITION CIRCUIT BLOCK	
CP012	1-231-948-00	COMPOSITION CIRCUIT BLOCK		CP064	1-231-906-00	COMPOSITION CIRCUIT BLOCK	
CP013	1-231-949-00	COMPOSITION CIRCUIT BLOCK		CP065	1-231-980-00	COMPOSITION CIRCUIT BLOCK	
CP015	1-231-914-00	COMPOSITION CIRCUIT BLOCK		CP066	1-231-981-00	COMPOSITION CIRCUIT BLOCK	
CP016	1-231-915-00	COMPOSITION CIRCUIT BLOCK		CP067	1-231-982-00	COMPOSITION CIRCUIT BLOCK	
CP017	1-231-895-00	COMPOSITION CIRCUIT BLOCK		CP068	1-231-983-00	COMPOSITION CIRCUIT BLOCK	
CP018	1-231-896-00	COMPOSITION CIRCUIT BLOCK		CP069	1-231-922-00	COMPOSITION CIRCUIT BLOCK	
CP019	1-231-897-00	COMPOSITION CIRCUIT BLOCK		<u>TRIMMER</u>			
CP020	1-231-907-00	COMPOSITION CIRCUIT BLOCK		CV001	1-141-215-00	CAP, TRIMMER	
CP021	1-231-897-00	COMPOSITION CIRCUIT BLOCK		<u>DIODE</u>			
CP022	1-231-915-00	COMPOSITION CIRCUIT BLOCK		D003	8-719-815-55	DIODE 1S1555	
CP023	1-231-771-00	COMPOSITION CIRCUIT BLOCK		D004	8-719-815-55	DIODE 1S1555	
CP024	1-231-917-00	COMPOSITION CIRCUIT BLOCK		D005	8-719-162-07	DIODE RD6.2E-B	
CP025	1-231-951-00	COMPOSITION CIRCUIT BLOCK		D012	8-719-815-55	DIODE 1S1555	
CP026	1-231-918-00	COMPOSITION CIRCUIT BLOCK		D013	8-719-815-55	DIODE 1S1555	
CP027	1-231-919-00	COMPOSITION CIRCUIT BLOCK		D014	8-719-815-55	DIODE 1S1555	
CP028	1-231-898-00	COMPOSITION CIRCUIT BLOCK		D015	8-719-815-55	DIODE 1S1555	
CP029	1-231-907-00	COMPOSITION CIRCUIT BLOCK		D016	8-719-815-55	DIODE 1S1555	
CP030	1-231-899-00	COMPOSITION CIRCUIT BLOCK		D017	8-719-815-55	DIODE 1S1555	
CP031	1-231-900-00	COMPOSITION CIRCUIT BLOCK		D018	8-719-815-55	DIODE 1S1555	
CP032	1-231-920-00	COMPOSITION CIRCUIT BLOCK		D019	8-719-815-55	DIODE 1S1555	
CP033	1-231-966-00	COMPOSITION CIRCUIT BLOCK		D021	8-719-815-55	DIODE 1S1555	
CP034	1-231-921-00	COMPOSITION CIRCUIT BLOCK		D022	8-719-815-55	DIODE 1S1555	
CP035	1-231-901-00	COMPOSITION CIRCUIT BLOCK		D026	8-719-815-55	DIODE 1S1555	
CP036	1-231-952-00	COMPOSITION CIRCUIT BLOCK		D028	8-719-815-55	DIODE 1S1555	
CP037	1-231-902-00	COMPOSITION CIRCUIT BLOCK		D030	8-719-815-55	DIODE 1S1555	
CP038	1-231-922-00	COMPOSITION CIRCUIT BLOCK		D031	8-719-815-55	DIODE 1S1555	
CP039	1-231-923-00	COMPOSITION CIRCUIT BLOCK		D032	8-719-815-55	DIODE 1S1555	
CP040	1-231-810-00	COMPOSITION CIRCUIT BLOCK		D033	8-719-113-07	DIODE RD13E-B	
CP041	1-231-771-00	COMPOSITION CIRCUIT BLOCK		D061	8-719-815-80	DIODE 1S1587	
CP042	1-231-903-00	COMPOSITION CIRCUIT BLOCK		D062	8-719-815-55	DIODE 1S1555	
CP043	1-231-810-00	COMPOSITION CIRCUIT BLOCK		D063	8-719-815-55	DIODE 1S1555	
CP044	1-231-904-00	COMPOSITION CIRCUIT BLOCK		D064	8-719-815-55	DIODE 1S1555	
CP045	1-231-967-00	COMPOSITION CIRCUIT BLOCK		D065	8-719-815-55	DIODE 1S1555	
CP046	1-231-924-00	COMPOSITION CIRCUIT BLOCK		D066	8-719-815-55	DIODE 1S1555	
CP047	1-231-972-00	COMPOSITION CIRCUIT BLOCK		D067	8-719-815-55	DIODE 1S1555	
CP048	1-231-905-00	COMPOSITION CIRCUIT BLOCK		D069	8-719-815-55	DIODE 1S1555	
CP049	1-231-968-00	COMPOSITION CIRCUIT BLOCK		D070	8-719-815-55	DIODE 1S1555	
CP050	1-231-925-00	COMPOSITION CIRCUIT BLOCK		D100	8-719-815-55	DIODE 1S1555	
CP051	1-231-926-00	COMPOSITION CIRCUIT BLOCK		D102	8-719-815-55	DIODE 1S1555	
CP052	1-231-969-00	COMPOSITION CIRCUIT BLOCK					

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R047	1-214-168-00	METAL	33K 1% 1/4W	R194	1-246-513-00	CARBON	47K 5% 1/4W
R048	1-246-473-00	CARBON	1K 5% 1/4W	R196	1-246-513-00	CARBON	47K 5% 1/4W
R049	1-214-166-00	METAL	27K 1% 1/4W	R197	1-246-515-00	CARBON	56K 5% 1/4W
R058	1-246-473-00	CARBON	1K 5% 1/4W	R198	1-246-513-00	CARBON	47K 5% 1/4W
R062	1-246-489-00	CARBON	4.7K 5% 1/4W	R207	1-246-505-00	CARBON	22K 5% 1/4W
R063	1-246-518-00	CARBON	75K 5% 1/4W	R210	1-246-789-00	CARBON	3.3K 5% 1/8W
R064	1-246-509-00	CARBON	33K 5% 1/4W	R211	1-246-513-00	CARBON	47K 5% 1/4W
R066	1-246-505-00	CARBON	22K 5% 1/4W	R214	1-246-494-00	CARBON	7.5K 5% 1/4W
R073	1-202-472-00	COMPOSITION	5.1M 5% 1/4W	R215	1-246-521-00	CARBON	100K 5% 1/4W
R074	1-246-459-00	CARBON	270 5% 1/4W	R224	1-246-521-00	CARBON	100K 5% 1/4W
R075	1-246-485-00	CARBON	3.3K 5% 1/4W	R225	1-246-521-00	CARBON	100K 5% 1/4W
R076	1-214-170-00	METAL	39K 1% 1/4W	R226	1-246-495-00	CARBON	8.2K 5% 1/4W
R077	1-214-172-00	METAL	47K 1% 1/4W	R227	1-246-521-00	CARBON	100K 5% 1/4W
R079	1-246-495-00	CARBON	8.2K 5% 1/4W	R228	1-214-149-00	METAL	5.1K 1% 1/4W
R083	1-246-513-00	CARBON	47K 5% 1/4W	R229	1-246-521-00	CARBON	100K 5% 1/4W
R095	1-246-514-00	CARBON	51K 5% 1/4W	R250	1-246-489-00	CARBON	4.7K 5% 1/4W
R102	1-246-489-00	CARBON	4.7K 5% 1/4W	R251	1-246-508-00	CARBON	30K 5% 1/4W
R103	1-214-176-00	METAL	68K 1% 1/4W	R252	1-246-807-00	CARBON	100K 5% 1/8W
R104	1-246-521-00	CARBON	100K 5% 1/4W	R253	1-246-497-00	CARBON	10K 5% 1/4W
R105	1-246-521-00	CARBON	100K 5% 1/4W	R301	1-246-792-00	CARBON	5.6K 5% 1/8W
R110	1-214-173-00	METAL	51K 1% 1/4W	R302	1-246-509-00	CARBON	33K 5% 1/4W
R111	1-246-513-00	CARBON	47K 5% 1/4W	R303	1-246-425-00	CARBON	10 5% 1/4W
R114	1-246-513-00	CARBON	47K 5% 1/4W	R305	1-246-545-00	CARBON	1M 5% 1/4W
R116	1-246-521-00	CARBON	100K 5% 1/4W	R307	1-246-443-00	CARBON	56 5% 1/4W
R118	1-246-513-00	CARBON	47K 5% 1/4W	R308	1-246-521-00	CARBON	100K 5% 1/4W
R120	1-246-505-00	CARBON	22K 5% 1/4W	R309	1-246-519-00	CARBON	82K 5% 1/4W
R123	1-246-495-00	CARBON	8.2K 5% 1/4W	R311	1-246-486-00	CARBON	3.6K 5% 1/4W
R124	1-246-520-00	CARBON	91K 5% 1/4W	R312	1-246-521-00	CARBON	100K 5% 1/4W
R131	1-246-507-00	CARBON	27K 5% 1/4W	R313	1-246-481-00	CARBON	2.2K 5% 1/4W
R137	1-246-509-00	CARBON	33K 5% 1/4W	R314	1-246-497-00	CARBON	10K 5% 1/4W
R139	1-246-521-00	CARBON	100K 5% 1/4W	R316	1-246-511-00	CARBON	39K 5% 1/4W
R140	1-246-489-00	CARBON	4.7K 5% 1/4W	R320	1-246-795-00	CARBON	10K 5% 1/8W
R141	1-246-521-00	CARBON	100K 5% 1/4W	R321	1-246-800-00	CARBON	27K 5% 1/8W
R142	1-246-497-00	CARBON	10K 5% 1/4W	R322	1-246-789-00	CARBON	3.3K 5% 1/8W
R143	1-246-497-00	CARBON	10K 5% 1/4W	R323	1-246-509-00	CARBON	33K 5% 1/4W
R147	1-246-505-00	CARBON	22K 5% 1/4W	R324	1-246-509-00	CARBON	33K 5% 1/4W
R149	1-246-497-00	CARBON	10K 5% 1/4W	R325	1-246-502-00	CARBON	16K 5% 1/4W
R153	1-246-497-00	CARBON	10K 5% 1/4W	R326	1-246-845-00	CARBON	1.3K 5% 1/8W
R156	1-246-507-00	CARBON	27K 5% 1/4W	R327	1-246-456-00	CARBON	200 5% 1/4W
R160	1-246-505-00	CARBON	22K 5% 1/4W	R328	1-246-488-00	CARBON	4.3K 5% 1/4W
R170	1-246-493-00	CARBON	6.8K 5% 1/4W	R329	1-246-473-00	CARBON	1K 5% 1/4W
R171	1-246-493-00	CARBON	6.8K 5% 1/4W	R331	1-246-525-00	CARBON	150K 5% 1/4W
R172	1-246-477-00	CARBON	1.5K 5% 1/4W	R332	1-246-541-00	CARBON	680K 5% 1/4W
R173	1-246-497-00	CARBON	10K 5% 1/4W	R333	1-246-513-00	CARBON	47K 5% 1/4W
R174	1-214-150-00	METAL	5.6K 1% 1/4W	R334	1-246-495-00	CARBON	8.2K 5% 1/4W
R175	1-246-481-00	CARBON	2.2K 5% 1/4W	R335	1-246-471-00	CARBON	820 5% 1/4W
R185	1-214-158-00	METAL	12K 1% 1/4W	R336	1-246-517-00	CARBON	68K 5% 1/4W
R186	1-214-160-00	METAL	15K 1% 1/4W	R337	1-246-477-00	CARBON	1.5K 5% 1/4W
R187	1-246-515-00	CARBON	56K 5% 1/4W	R338	1-246-472-00	CARBON	910 5% 1/4W
R189	1-246-499-00	CARBON	12K 5% 1/4W	R339	1-246-497-00	CARBON	10K 5% 1/4W
R191	1-246-489-00	CARBON	4.7K 5% 1/4W	R340	1-246-509-00	CARBON	33K 5% 1/4W
R192	1-246-497-00	CARBON	10K 5% 1/4W	R341	1-246-475-00	CARBON	1.2K 5% 1/4W
R193	1-246-516-00	CARBON	62K 5% 1/4W	R342	1-246-787-00	CARBON	2.2K 5% 1/8W

Ref.No	Part No	Description				Remark	Ref.No	Part No	Description				Remark
R343	1-246-481-00	CARBON	2.2K	5%	1/4W		R542	1-246-473-00	CARBON	1K	5%	1/4W	
R344	1-246-472-00	CARBON	910	5%	1/4W		R544	1-246-497-00	CARBON	10K	5%	1/4W	
R345	1-246-505-00	CARBON	22K	5%	1/4W		R545	1-246-783-00	CARBON	1K	5%	1/8W	
R346	1-246-483-00	CARBON	2.7K	5%	1/4W		R546	1-246-485-00	CARBON	3.3K	5%	1/4W	
R347	1-246-485-00	CARBON	3.3K	5%	1/4W		R548	1-246-473-00	CARBON	1K	5%	1/4W	
R348	1-246-443-00	CARBON	56	5%	1/4W		R557	1-246-473-00	CARBON	1K	5%	1/4W	
R355	1-246-463-00	CARBON	390	5%	1/4W		R558	1-246-510-00	CARBON	36K	5%	1/4W	
R356	1-246-801-00	CARBON	33K	5%	1/8W		R559	1-246-509-00	CARBON	33K	5%	1/4W	
R357	1-246-497-00	CARBON	10K	5%	1/4W		R562	1-246-491-00	CARBON	5.6K	5%	1/4W	
R359	1-246-463-00	CARBON	390	5%	1/4W		R563	1-246-473-00	CARBON	1K	5%	1/4W	
R360	1-246-501-00	CARBON	15K	5%	1/4W		R564	1-246-521-00	CARBON	100K	5%	1/4W	
R361	1-246-981-00	CARBON	4.7	5%	1/8W	F	R567	1-246-509-00	CARBON	33K	5%	1/4W	
R362	1-246-509-00	CARBON	33K	5%	1/4W		R572	1-246-521-00	CARBON	100K	5%	1/4W	
R363	1-246-789-00	CARBON	3.3K	5%	1/8W		R573	1-246-515-00	CARBON	56K	5%	1/4W	
R364	1-246-801-00	CARBON	33K	5%	1/8W		R576	1-246-497-00	CARBON	10K	5%	1/4W	
R365	1-246-801-00	CARBON	33K	5%	1/8W		R580	1-246-475-00	CARBON	1.2K	5%	1/4W	
R370	1-246-457-00	CARBON	220	5%	1/4W		R581	1-246-499-00	CARBON	12K	5%	1/4W	
R400	1-246-485-00	CARBON	3.3K	5%	1/4W		R582	1-246-521-00	CARBON	100K	5%	1/4W	
R403	1-246-497-00	CARBON	10K	5%	1/4W		R583	1-246-513-00	CARBON	47K	5%	1/4W	
R404	1-246-513-00	CARBON	47K	5%	1/4W		R584	1-246-497-00	CARBON	10K	5%	1/4W	
R405	1-246-529-00	CARBON	220K	5%	1/4W		R601	1-246-513-00	CARBON	47K	5%	1/4W	
R408	1-246-513-00	CARBON	47K	5%	1/4W		R602	1-246-505-00	CARBON	22K	5%	1/4W	
R409	1-246-465-00	CARBON	470	5%	1/4W		R603	1-246-497-00	CARBON	10K	5%	1/4W	
R410	1-246-465-00	CARBON	470	5%	1/4W		R604	1-246-499-00	CARBON	12K	5%	1/4W	
R411	1-246-497-00	CARBON	10K	5%	1/4W		R605	1-246-497-00	CARBON	10K	5%	1/4W	
R412	1-212-356-00	METAL	0.47	5%	1W	F	R606	1-246-497-00	CARBON	10K	5%	1/4W	
R413	1-246-513-00	CARBON	47K	5%	1/4W		R607	1-214-180-00	METAL	100K	1%	1/4W	
R415	1-246-521-00	CARBON	100K	5%	1/4W		R608	1-246-497-00	CARBON	10K	5%	1/4W	
R416	1-246-425-00	CARBON	10	5%	1/4W		R609	1-246-521-00	CARBON	100K	5%	1/4W	
R417	1-246-449-00	CARBON	100	5%	1/4W		R610	1-246-497-00	CARBON	10K	5%	1/4W	
R418	1-246-981-00	CARBON	4.7	5%	1/8W	F	R611	1-246-497-00	CARBON	10K	5%	1/4W	
R501	1-246-521-00	CARBON	100K	5%	1/4W		R612	1-246-525-00	CARBON	150K	5%	1/4W	
R502	1-246-513-00	CARBON	47K	5%	1/4W		R613	1-246-497-00	CARBON	10K	5%	1/4W	
R503	1-246-497-00	CARBON	10K	5%	1/4W		R614	1-246-521-00	CARBON	100K	5%	1/4W	
R504	1-246-497-00	CARBON	10K	5%	1/4W		R615	1-246-511-00	CARBON	39K	5%	1/4W	
R506	1-246-497-00	CARBON	10K	5%	1/4W		R617	1-246-489-00	CARBON	4.7K	5%	1/4W	
R507	1-246-513-00	CARBON	47K	5%	1/4W		R618	1-246-501-00	CARBON	15K	5%	1/4W	
R508	1-246-497-00	CARBON	10K	5%	1/4W		R619	1-246-489-00	CARBON	4.7K	5%	1/4W	
R509	1-246-513-00	CARBON	47K	5%	1/4W		R620	1-214-151-00	METAL	6.2K	1%	1/4W	
R510	1-246-783-00	CARBON	1K	5%	1/8W		R621	1-246-497-00	CARBON	10K	5%	1/4W	
R515	1-246-513-00	CARBON	47K	5%	1/4W		R622	1-246-513-00	CARBON	47K	5%	1/4W	
R516	1-246-513-00	CARBON	47K	5%	1/4W		R623	1-246-473-00	CARBON	1K	5%	1/4W	
R517	1-246-521-00	CARBON	100K	5%	1/4W		R624	1-246-473-00	CARBON	1K	5%	1/4W	
R518	1-246-497-00	CARBON	10K	5%	1/4W		R625	1-246-481-00	CARBON	2.2K	5%	1/4W	
R519	1-246-513-00	CARBON	47K	5%	1/4W		R626	1-246-449-00	CARBON	100	5%	1/4W	
R520	1-246-516-00	CARBON	62K	5%	1/4W		R627	1-246-489-00	CARBON	4.7K	5%	1/4W	
R523	1-246-513-00	CARBON	47K	5%	1/4W		R628	1-246-497-00	CARBON	10K	5%	1/4W	
R526	1-246-509-00	CARBON	33K	5%	1/4W		R629	1-246-497-00	CARBON	10K	5%	1/4W	
R527	1-246-515-00	CARBON	56K	5%	1/4W		R630	1-246-513-00	CARBON	47K	5%	1/4W	
R528	1-246-507-00	CARBON	27K	5%	1/4W		R631	1-246-538-00	CARBON	510K	5%	1/4W	
R531	1-246-505-00	CARBON	22K	5%	1/4W		R632	1-246-497-00	CARBON	10K	5%	1/4W	
R538	1-246-497-00	CARBON	10K	5%	1/4W		R633	1-246-509-00	CARBON	33K	5%	1/4W	
R541	1-246-473-00	CARBON	1K	5%	1/4W		R636	1-246-513-00	CARBON	47K	5%	1/4W	

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

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R638	1-246-509-00	CARBON	33K 5% 1/4W	R747	1-246-803-00	CARBON	47K 5% 1/8W
R639	1-246-513-00	CARBON	47K 5% 1/4W	R748	1-246-521-00	CARBON	100K 5% 1/4W
R640	1-246-501-00	CARBON	15K 5% 1/4W	R749	1-246-513-00	CARBON	47K 5% 1/4W
R641	1-246-521-00	CARBON	100K 5% 1/4W	R750	1-246-509-00	CARBON	33K 5% 1/4W
R642	1-246-513-00	CARBON	47K 5% 1/4W	R751	1-246-507-00	CARBON	27K 5% 1/4W
R643	1-246-524-00	CARBON	130K 5% 1/4W	R752	1-246-521-00	CARBON	100K 5% 1/4W
R644	1-246-497-00	CARBON	10K 5% 1/4W	R753	1-246-521-00	CARBON	100K 5% 1/4W
R645	1-246-513-00	CARBON	47K 5% 1/4W	R754	1-246-509-00	CARBON	33K 5% 1/4W
R646	1-246-503-00	CARBON	18K 5% 1/4W	R756	1-246-521-00	CARBON	100K 5% 1/4W
R647	1-246-517-00	CARBON	68K 5% 1/4W	R757	1-246-521-00	CARBON	100K 5% 1/4W
R648	1-214-172-00	METAL	47K 1% 1/4W	R758	1-246-521-00	CARBON	100K 5% 1/4W
R701	1-246-491-00	CARBON	5.6K 5% 1/4W	R759	1-246-521-00	CARBON	100K 5% 1/4W
R702	1-246-521-00	CARBON	100K 5% 1/4W	R760	1-246-501-00	CARBON	15K 5% 1/4W
R703	1-246-501-00	CARBON	15K 5% 1/4W				
R704	1-246-515-00	CARBON	56K 5% 1/4W	<u>VARIABLE RESISTOR</u>			
R707	1-246-497-00	CARBON	10K 5% 1/4W	RV001	1-224-254-XX	RES, ADJ, SOLID	47K
R709	1-246-527-00	CARBON	180K 5% 1/4W	RV002	1-224-254-XX	RES, ADJ, SOLID	47K
R710	1-246-497-00	CARBON	10K 5% 1/4W	RV003	1-224-254-XX	RES, ADJ, SOLID	47K
R711	1-246-505-00	CARBON	22K 5% 1/4W	RV004	1-224-253-XX	RES, ADJ, METAL GLAZE	22K
R712	1-246-484-00	CARBON	3K 5% 1/4W	RV005	1-224-253-XX	RES, ADJ, METAL GLAZE	22K
R713	1-246-490-00	CARBON	5.1K 5% 1/4W	RV006	1-224-254-XX	RES, ADJ, METAL GLAZE	47K
R714	1-246-480-00	CARBON	2K 5% 1/4W	RV007	1-224-251-XX	RES, ADJ, SOLID	4.7K
R715	1-246-516-00	CARBON	62K 5% 1/4W	RV008	1-224-644-XX	RES, ADJ, CARBON	3.3K
R716	1-246-497-00	CARBON	10K 5% 1/4W	RV009	1-224-254-XX	RES, ADJ, METAL GLAZE	47K
R717	1-246-516-00	CARBON	62K 5% 1/4W	RV010	1-224-254-XX	RES, ADJ, METAL GLAZE	47K
R718	1-246-490-00	CARBON	5.1K 5% 1/4W	RV011	1-224-254-XX	RES, ADJ, METAL GLAZE	47K
R719	1-246-505-00	CARBON	22K 5% 1/4W	RV061	1-224-646-XX	RES, ADJ, CARBON	22K
R720	1-246-495-00	CARBON	8.2K 5% 1/4W	RV062	1-224-646-XX	RES, ADJ, CARBON	22K
R721	1-246-472-00	CARBON	910 5% 1/4W	RV063	1-224-646-XX	RES, ADJ, CARBON	22K
R722	1-246-473-00	CARBON	1K 5% 1/4W	RV064	1-226-910-00	RES, VAR, CARBON	100K
R723	1-246-513-00	CARBON	47K 5% 1/4W	RV501	1-224-254-XX	RES, ADJ, METAL GLAZE	47K
R724	1-246-515-00	CARBON	56K 5% 1/4W	RV502	1-224-254-XX	RES, ADJ, METAL GLAZE	47K
R725	1-246-527-00	CARBON	180K 5% 1/4W	RV503	1-224-254-XX	RES, ADJ, METAL GLAZE	47K
R727	1-246-500-00	CARBON	13K 5% 1/4W	RV504	1-224-254-XX	RES, ADJ, METAL GLAZE	47K
R728	1-246-521-00	CARBON	100K 5% 1/4W	RV505	1-224-254-XX	RES, ADJ, METAL GLAZE	47K
R729	1-246-507-00	CARBON	27K 5% 1/4W	RV506	1-224-254-XX	RES, ADJ, METAL GLAZE	47K
R730	1-246-521-00	CARBON	100K 5% 1/4W	RV507	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K
R731	1-246-501-00	CARBON	15K 5% 1/4W	RV508	1-224-252-XX	RES, ADJ, METAL GLAZE	10K
R732	1-246-498-00	CARBON	11K 5% 1/4W	RV509	1-226-934-00	RES, VAR, CARBON	100K
R733	1-246-489-00	CARBON	4.7K 5% 1/4W	RV601	1-224-255-XX	RES, ADJ, METAL GLAZE	100K
R734	1-246-477-00	CARBON	1.5K 5% 1/4W	RV602	1-224-255-XX	RES, ADJ, METAL GLAZE	100K
R735	1-246-481-00	CARBON	2.2K 5% 1/4W				
R736	1-246-447-00	CARBON	82 5% 1/4W	<u>SWITCH</u>			
R737	1-246-489-00	CARBON	4.7K 5% 1/4W	S001	1-552-836-00	SWITCH, SLIDE	
R738	1-246-457-00	CARBON	220 5% 1/4W	S002	1-552-835-21	SWITCH, SLIDE	
R739	1-246-471-00	CARBON	820 5% 1/4W	S004	1-552-821-00	SWITCH, SLIDE	
R740	1-246-807-00	CARBON	100K 5% 1/8W	<u>TRANSFORMER</u>			
R741	1-246-807-00	CARBON	100K 5% 1/8W	T061	1-433-230-00	TRANSFORMER, OSCILLATOR	
R742	1-246-807-00	CARBON	100K 5% 1/8W				
R743	1-246-521-00	CARBON	100K 5% 1/4W				
R744	1-246-501-00	CARBON	15K 5% 1/4W				
R745	1-246-521-00	CARBON	100K 5% 1/4W				
R746	1-246-792-00	CARBON	5.6K 5% 1/8W				

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
*A-6717-193-A		SY-21 BOARD, COMPLETE	E-310	Q614	8-729-178-54	TRANSISTOR 2SC2785	
*3-661-747-00		HOLDER, ID-2		Q615	8-729-663-47	TRANSISTOR 2SC1364	
				Q616	8-729-316-16	TRANSISTOR 2SC1061-C	
<u>CAPACITOR</u>				<u>RESISTOR</u>			
C601	1-161-013-00	CERAMIC 0.01MF	10% 25V	R025	1-246-513-00	CARBON 47K 5% 1/4W	
C602	1-161-013-00	CERAMIC 0.01MF	10% 25V	R026	1-246-513-00	CARBON 47K 5% 1/4W	
C603	1-108-377-00	MYLAR 0.01MF	10% 100V	R601	1-246-508-00	CARBON 30K 5% 1/4W	
C604	1-123-318-00	ELECT 33MF	20% 16V	R602	1-246-510-00	CARBON 36K 5% 1/4W	
C605	1-123-316-00	ELECT 10MF	20% 16V	R603	1-246-521-00	CARBON 100K 5% 1/4W	
C606	1-108-377-00	MYLAR 0.01MF	10% 100V	R604	1-246-489-00	CARBON 4.7K 5% 1/4W	
C607	1-123-328-00	ELECT 4.7MF	20% 25V	R605	1-246-495-00	CARBON 8.2K 5% 1/4W	
C608	1-131-415-00	ELECT(SOLID) 0.68MF	10% 16V	R606	1-246-513-00	CARBON 47K 5% 1/4W	
C609	1-123-328-00	ELECT 4.7MF	20% 25V	R607	1-246-521-00	CARBON 100K 5% 1/4W	
C610	1-123-328-00	ELECT 4.7MF	20% 25V	R608	1-246-521-00	CARBON 100K 5% 1/4W	
C611	1-161-013-00	CERAMIC 0.01MF	10% 25V	R609	1-246-513-00	CARBON 47K 5% 1/4W	
C612	1-161-013-00	CERAMIC 0.01MF	10% 25V	R610	1-246-513-00	CARBON 47K 5% 1/4W	
<u>CONNECTOR</u>				R611	1-246-521-00	CARBON 100K 5% 1/4W	
CN601*	1-508-744-00	PIN, CONNECTOR 10P		R612	1-246-513-00	CARBON 47K 5% 1/4W	
CN602*	1-508-742-00	PIN, CONNECTOR 3P		R613	1-246-505-00	CARBON 22K 5% 1/4W	
CN603*	1-508-742-00	PIN, CONNECTOR 3P		R614	1-246-487-00	CARBON 3.9K 5% 1/4W	
<u>DIODE</u>				R615	1-246-513-00	CARBON 47K 5% 1/4W	
D601	8-719-815-55	DIODE 1S1555		R616	1-246-513-00	CARBON 47K 5% 1/4W	
D602	8-719-815-55	DIODE 1S1555		R617	1-246-460-00	CARBON 300 5% 1/4W	
D603	8-719-815-55	DIODE 1S1555		R618	1-246-513-00	CARBON 47K 5% 1/4W	
D604	8-719-815-55	DIODE 1S1555		R619	1-246-528-00	CARBON 200K 5% 1/4W	
D605	8-719-815-55	DIODE 1S1555		R620	1-246-528-00	CARBON 200K 5% 1/4W	
D606	8-719-815-55	DIODE 1S1555		R621	1-246-497-00	CARBON 10K 5% 1/4W	
D607	8-719-815-55	DIODE 1S1555		R622	1-246-521-00	CARBON 100K 5% 1/4W	
D608	8-719-200-02	DIODE 10E-2		R623	1-246-521-00	CARBON 100K 5% 1/4W	
D609	8-719-911-19	DIODE 1S5119		R624	1-246-865-00	CARBON 62K 5% 1/8W	
<u>IC</u>				R627	1-246-497-00	CARBON 10K 5% 1/4W	
IC 601	8-759-618-48	IC M51848L		R628	1-246-481-00	CARBON 2.2K 5% 1/4W	
IC 602	8-759-240-11	IC TC 4011BP		R629	1-246-513-00	CARBON 47K 5% 1/4W	
IC 603	8-759-145-58	IC UPC 4558C		R630	1-246-521-00	CARBON 100K 5% 1/4W	
<u>TRANSISTOR</u>				R631	1-246-513-00	CARBON 47K 5% 1/4W	
Q601	8-729-178-54	TRANSISTOR 2SC2785		R632	1-246-449-00	CARBON 100 5% 1/4W	
Q602	8-729-178-54	TRANSISTOR 2SC2785		R633	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q603	8-729-117-54	TRANSISTOR 2SA1175		R634	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q604	8-729-178-54	TRANSISTOR 2SC2785		R635	1-246-521-00	CARBON 100K 5% 1/4W	
Q605	8-729-178-54	TRANSISTOR 2SC2785		R636	1-246-521-00	CARBON 100K 5% 1/4W	
Q606	8-729-178-54	TRANSISTOR 2SC2785		R637	1-246-521-00	CARBON 100K 5% 1/4W	
Q607	8-729-178-54	TRANSISTOR 2SC2785		R638	1-246-513-00	CARBON 47K 5% 1/4W	
Q608	8-729-117-54	TRANSISTOR 2SA1175		R639	1-246-521-00	CARBON 100K 5% 1/4W	
Q609	8-729-178-54	TRANSISTOR 2SC2785		R640	1-246-497-00	CARBON 10K 5% 1/4W	
Q610	8-729-178-54	TRANSISTOR 2SC2785		R641	1-246-513-00	CARBON 47K 5% 1/4W	
Q611	8-729-178-54	TRANSISTOR 2SC2785		R642	1-246-505-00	CARBON 22K 5% 1/4W	
Q612	8-729-178-54	TRANSISTOR 2SC2785		R643	1-246-449-00	CARBON 100 5% 1/4W	
Q613	8-729-117-54	TRANSISTOR 2SA1175		R644	1-246-538-00	CARBON 510K 5% 1/4W	
				R645	1-246-513-00	CARBON 47K 5% 1/4W	
				R646	1-246-505-00	CARBON 22K 5% 1/4W	
				R647	1-246-481-00	CARBON 2.2K 5% 1/4W	
				R648	1-246-484-00	CARBON 3K 5% 1/4W	

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

Ref.No	Part No	Description	Remark
R649A	1-212-360-00	METAL	1 5% 1W F
R650	1-246-481-00	CARBON	2.2K 5% 1/4W
R651	1-246-449-00	CARBON	100 5% 1/4W

▲:A-6717-195-A SY-20 BOARD, COMPLETE E-303

CAPACITOR

C501	1-123-319-00	ELECT	47MF	20%	16V
C502	1-123-351-00	ELECT	0.47MF	20%	50V
C503	1-161-185-00	CERAMIC	0.01MF	5%	25V
C504	1-123-353-00	ELECT	2.2MF	20%	50V
C505	1-123-353-00	ELECT	2.2MF	20%	50V
C506	1-102-824-00	CERAMIC	430PF	5%	50V
C507	1-161-181-00	CERAMIC	0.0047MF	5%	25V
C508	1-123-353-00	ELECT	2.2MF	20%	50V
C509	1-102-824-00	CERAMIC	430PF	5%	50V
C510	1-123-354-00	ELECT	3.3MF	20%	50V
C511	1-123-319-00	ELECT	47MF	20%	16V
C513	1-161-379-00	CERAMIC	0.01MF	20%	25V
C514	1-161-379-00	CERAMIC	0.01MF	20%	25V

CONNECTOR

CN501▲	1-508-850-00	PIN, CONNECTOR	12P
CN502▲	1-508-735-21	PIN, CONNECTOR	5P
CN503▲	1-508-847-00	PIN, CONNECTOR	4P
CN504▲	1-508-734-00	CONNECTOR PIN	
CN505▲	1-508-734-00	PIN, CONNECTOR	3P
CN506▲	1-508-848-00	PIN, CONNECTOR	6P
CN507▲	1-508-734-00	PIN, CONNECTOR	3P

DIODE

D501	8-719-815-55	DIODE	1S1555
D502	8-719-815-55	DIODE	1S1555
D503	8-719-815-55	DIODE	1S1555
D504	8-719-815-55	DIODE	1S1555
D505	8-719-815-55	DIODE	1S1555
D506	8-719-815-55	DIODE	1S1555
D507	8-719-815-55	DIODE	1S1555
D508	8-719-815-55	DIODE	1S1555

IC

IC 501	8-759-240-13	IC TC4013BP
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TRANSISTOR

Q501	8-729-178-54	TRANSISTOR	2SC2785F
Q502	8-729-178-54	TRANSISTOR	2SC2785F
Q503	8-729-663-47	TRANSISTOR	2SC1364
Q504	8-729-902-11	TRANSISTOR	2SC2021
Q505	8-729-902-11	TRANSISTOR	2SC2021
Q506	8-729-178-54	TRANSISTOR	2SC2785F
Q507	8-729-178-54	TRANSISTOR	2SC2785F

Ref.No	Part No	Description	Remark
Q508	8-729-663-47	TRANSISTOR	2SC1364
Q509	8-729-902-11	TRANSISTOR	2SC2021
Q510	8-729-902-11	TRANSISTOR	2SC2021
Q511	8-729-902-11	TRANSISTOR	2SC2021
Q512	8-729-902-11	TRANSISTOR	2SC2021

Q513	8-729-108-54	TRANSISTOR	2SC2785F
Q514	8-729-117-54	TRANSISTOR	2SA1175F
Q515	8-729-117-54	TRANSISTOR	2SA1175F
Q516	8-729-108-54	TRANSISTOR	2SC2785F
Q517	8-729-108-54	TRANSISTOR	2SC2785F
Q518	8-729-982-22	TRANSISTOR	2SB822-Q
Q519	8-729-198-52	TRANSISTOR	2SD985-L
Q520	8-729-982-22	TRANSISTOR	2SB822-Q
Q521	8-729-198-52	TRANSISTOR	2SD985-L

RESISTOR

R503	1-246-862-00	CARBON	36K	5%	1/8W
R504	1-246-477-00	CARBON	1.5K	5%	1/4W
R505	1-246-477-00	CARBON	1.5K	5%	1/4W
R506	1-246-866-00	CARBON	75K	5%	1/8W
R507	1-246-859-00	CARBON	20K	5%	1/8W
R508	1-246-521-00	CARBON	100K	5%	1/4W
R509	1-246-473-00	CARBON	1K	5%	1/4W
R510	1-246-804-00	CARBON	56K	5%	1/8W
R511	1-246-799-00	CARBON	22K	5%	1/8W
R512	1-246-807-00	CARBON	100K	5%	1/8W
R513	1-246-456-00	CARBON	200	5%	1/4W
R514	1-246-795-00	CARBON	10K	5%	1/8W
R515	1-246-795-00	CARBON	10K	5%	1/8W
R516	1-246-807-00	CARBON	100K	5%	1/8W
R517	1-246-795-00	CARBON	10K	5%	1/8W
R518	1-246-465-00	CARBON	470	5%	1/4W
R519	1-246-795-00	CARBON	10K	5%	1/8W
R520	1-246-799-00	CARBON	22K	5%	1/8W
R521	1-246-452-00	CARBON	130	5%	1/4W
R522	1-246-472-00	CARBON	910	5%	1/4W
R523	1-246-484-00	CARBON	3K	5%	1/4W
R524	1-246-792-00	CARBON	5.6K	5%	1/8W
R525	1-246-807-00	CARBON	100K	5%	1/8W
R526	1-246-791-00	CARBON	4.7K	5%	1/8W
R527	1-246-456-00	CARBON	200	5%	1/4W
R528	1-246-807-00	CARBON	100K	5%	1/8W
R529	1-246-795-00	CARBON	10K	5%	1/8W
R530	1-246-795-00	CARBON	10K	5%	1/8W
R531	1-246-807-00	CARBON	100K	5%	1/8W
R532	1-246-795-00	CARBON	10K	5%	1/8W

R533	1-246-465-00	CARBON	470	5%	1/4W
R534	1-246-795-00	CARBON	10K	5%	1/8W
R535	1-246-804-00	CARBON	56K	5%	1/8W
R536	1-246-804-00	CARBON	56K	5%	1/8W
R537	1-246-795-00	CARBON	10K	5%	1/8W
R538	1-246-803-00	CARBON	47K	5%	1/8W
R539	1-246-473-00	CARBON	1K	5%	1/4W

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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R540	1-246-433-00	CARBON	22 5% 1/4W	C027	1-123-352-00	ELECT	1MF 20% 50V
R541	1-246-807-00	CARBON	100K 5% 1/8W	C028	1-123-328-00	ELECT	4.7MF 20% 25V
R542	1-246-807-00	CARBON	100K 5% 1/8W	C029	1-161-185-00	CERAMIC	0.01MF 5% 25V
R543	1-246-497-00	CARBON	10K 5% 1/4W	C030	1-123-319-00	ELECT	47MF 20% 16V
R544	1-246-852-00	CARBON	5.1K 5% 1/8W	C031	1-123-351-00	ELECT	0.47MF 20% 50V
R545	1-246-807-00	CARBON	100K 5% 1/8W	C032	1-123-305-00	ELECT	33MF 20% 10V
R546	1-246-795-00	CARBON	10K 5% 1/8W	C033	1-123-316-00	ELECT	10MF 20% 16V
R547	1-246-799-00	CARBON	22K 5% 1/8W	C034	1-123-351-00	ELECT	0.47MF 20% 50V
R548	1-246-800-00	CARBON	27K 5% 1/8W	C035	1-123-354-00	ELECT	3.3MF 20% 50V
R549	1-246-803-00	CARBON	47K 5% 1/8W	<u>CONNECTOR</u>			
R550	1-246-497-00	CARBON	10K 5% 1/4W	CN001	1-508-744-00	PIN, CONNECTOR	10P
R551	1-246-490-00	CARBON	5.1K 5% 1/4W	CN002	1-508-846-00	PIN, CONNECTOR	8P
R552	1-246-852-00	CARBON	5.1K 5% 1/8W	CN003	1-508-744-00	PIN, CONNECTOR	10P
R554	1-246-807-00	CARBON	100K 5% 1/8W	CN004	1-508-744-00	PIN, CONNECTOR	10P
R555	1-246-805-00	CARBON	68K 5% 1/8W	CN005	1-508-846-00	PIN, CONNECTOR	8P
R556	1-246-803-00	CARBON	47K 5% 1/8W	CN006	1-508-742-00	PIN, CONNECTOR	3P
R557	1-246-803-00	CARBON	47K 5% 1/8W	CN007	1-508-742-00	PIN, CONNECTOR	3P
R558	1-206-439-00	METAL	1 5% 2W	CN008	1-508-850-00	PIN, CONNECTOR	12P
R559	1-246-473-00	CARBON	1K 5% 1/4W	CN009	1-508-736-00	PIN, CONNECTOR	10P
R560	1-244-856-00	CARBON	200 5% 1/2W	CN010	1-508-734-21	PIN, CONNECTOR	3P
R561	1-246-797-00	CARBON	15K 5% 1/8W	CN012	1-508-847-00	PIN, CONNECTOR	4P
R562	1-246-473-00	CARBON	1K 5% 1/4W	CN013	1-508-734-00	PIN, CONNECTOR	3P
R563	1-244-856-00	CARBON	200 5% 1/2W	CN014	1-508-744-00	PIN, CONNECTOR	10P
R564	1-246-797-00	CARBON	15K 5% 1/8W	<u>COMPOSITION</u>			
*****				*****			
A-6717-196-A SY-19 BOARD, COMPLETE				E-304			
<u>CAPACITOR</u>							
C001	1-108-377-00	MYLAR	0.01MF 10% 100V	CPO01	1-231-957-00	COMPOSITION CIRCUIT BLOCK	
C002	1-108-377-00	MYLAR	0.01MF 10% 100V	CPO02	1-232-002-00	COMPOSITION CIRCUIT BLOCK	
C003	1-123-318-00	ELECT	33MF 20% 16V	CPO03	1-231-934-00	COMPOSITION CIRCUIT BLOCK	
C004	1-161-185-00	CERAMIC	0.01MF 5% 25V	CPO04	1-231-935-00	COMPOSITION CIRCUIT BLOCK	
C005	1-123-354-00	ELECT	3.3MF 20% 50V	CPO05	1-231-974-00	COMPOSITION CIRCUIT BLOCK	
C006	1-123-354-00	ELECT	3.3MF 20% 50V	CPO06	1-231-979-00	COMPOSITION CIRCUIT BLOCK	
C007	1-161-185-00	CERAMIC	0.01MF 5% 25V	CPO07	1-231-970-00	COMPOSITION CIRCUIT BLOCK	
C008	1-123-320-00	ELECT	100MF 20% 16V	CPO08	1-231-760-00	COMPOSITION CIRCUIT BLOCK	
C009	1-161-189-00	CERAMIC	0.022MF 5% 25V	CPO09	1-231-937-00	COMPOSITION CIRCUIT BLOCK	
C010	1-123-328-00	ELECT	4.7MF 20% 25V	CPO10	1-231-940-00	COMPOSITION CIRCUIT BLOCK	
C011	1-123-328-00	ELECT	4.7MF 20% 25V	CPO11	1-231-941-00	COMPOSITION CIRCUIT BLOCK	
C012	1-123-307-00	ELECT	100MF 20% 10V	CPO12	1-231-958-00	COMPOSITION CIRCUIT BLOCK	
C013	1-161-189-00	CERAMIC	0.022MF 5% 25V	CPO13	1-231-942-00	COMPOSITION CIRCUIT BLOCK	
C014	1-161-189-00	CERAMIC	0.022MF 5% 25V	CPO14	1-231-959-00	COMPOSITION CIRCUIT BLOCK	
C015	1-123-318-00	ELECT	33MF 20% 16V	CPO15	1-231-975-00	COMPOSITION CIRCUIT BLOCK	
C016	1-123-317-00	ELECT	22MF 20% 16V	CPO16	1-231-943-00	COMPOSITION CIRCUIT BLOCK	
C018	1-123-352-00	ELECT	1MF 20% 50V	CPO17	1-231-960-00	COMPOSITION CIRCUIT BLOCK	
C019	1-123-317-00	ELECT	22MF 20% 16V	CPO18	1-231-961-00	COMPOSITION CIRCUIT BLOCK	
C020	1-123-351-00	ELECT	0.47MF 20% 50V	CPO19	1-231-962-00	COMPOSITION CIRCUIT BLOCK	
C022	1-123-351-00	ELECT	0.47MF 20% 50V	CPO20	1-231-971-00	COMPOSITION CIRCUIT BLOCK	
C023	1-102-824-00	CERAMIC	430PF 5% 50V	CPO21	1-231-938-00	COMPOSITION CIRCUIT BLOCK	
C024	1-129-794-00	FILM	0.0033MF 5% 100V	CPO22	1-231-976-00	COMPOSITION CIRCUIT BLOCK	
C025	1-123-353-00	ELECT	2.2MF 20% 50V	CPO23	1-231-963-00	COMPOSITION CIRCUIT BLOCK	
C026	1-123-352-00	ELECT	1MF 20% 50V	CPO24	1-231-964-00	COMPOSITION CIRCUIT BLOCK	
				CPO25	1-231-977-00	COMPOSITION CIRCUIT BLOCK	
				CPO26	1-231-978-00	COMPOSITION CIRCUIT BLOCK	
				CPO27	1-231-944-00	COMPOSITION CIRCUIT BLOCK	

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

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
CPO28	1-231-945-00	COMPOSITION CIRCUIT BLOCK		IC006	8-759-618-48	IC M51848L	
CPO29	1-231-946-00	COMPOSITION CIRCUIT BLOCK		IC007	8-743-420-00	IC BX-342	
CPO30	1-231-908-00	COMPOSITION CIRCUIT BLOCK				<u>COIL</u>	
CPO31	1-232-001-00	COMPOSITION CIRCUIT BLOCK		L001	1-405-876-00	COIL, OSCILLATOR	
CPO32	1-231-947-00	COMPOSITION CIRCUIT BLOCK		L002	1-407-510-00	MICRO INDUCTOR 33MMH	
		<u>DIODE</u>				<u>TRANSISTOR</u>	
D001	8-719-200-02	DIODE 10E-2		Q001	8-729-117-54	TRANSISTOR 2SA1175	
D003	8-719-815-55	DIODE 1S1555		Q002	8-729-117-54	TRANSISTOR 2SA1175	
D004	8-719-815-55	DIODE 1S1555		Q003	8-729-117-54	TRANSISTOR 2SA1175	
D005	8-719-815-55	DIODE 1S1555		Q004	8-729-663-47	TRANSISTOR 2SC1364	
D006	8-719-815-55	DIODE 1S1555		Q005	8-729-316-16	TRANSISTOR 2SC1061	
D007	8-719-182-07	DIODE RD8.2E-B		Q006 A 8-729-177-32	TRANSISTOR 2SD773		
D008	8-719-815-55	DIODE 1S1555		Q007	8-729-663-47	TRANSISTOR 2SC1364	
D009	8-719-815-55	DIODE 1S1555		Q008	8-729-177-32	TRANSISTOR 2SD773	
D010	8-719-815-55	DIODE 1S1555		Q009 A 8-729-177-32	TRANSISTOR 2SD773		
D011	8-719-200-02	DIODE 10E-2		Q010	8-729-663-47	TRANSISTOR 2SC1364	
D012	8-719-200-02	DIODE 10E-2		Q011	8-729-177-32	TRANSISTOR 2SD773	
D013	8-719-200-02	DIODE 10E-2		Q012 A 8-729-177-32	TRANSISTOR 2SD773		
D014	8-719-200-02	DIODE 10E-2		Q013	8-729-663-47	TRANSISTOR 2SC1364	
D015	8-719-200-02	DIODE 10E-2		Q014	8-729-177-32	TRANSISTOR 2SD773	
D016	8-719-200-02	DIODE 10E-2		Q015	8-729-177-32	TRANSISTOR 2SD773	
D017	8-719-200-02	DIODE 10E-2		Q016	8-729-663-47	TRANSISTOR 2SC1364	
D018	8-719-200-02	DIODE 10E-2		Q017	8-729-177-32	TRANSISTOR 2SD773	
D019	8-719-815-55	DIODE 1S1555		Q018 A 8-729-177-32	TRANSISTOR 2SD773		
D020	8-719-815-55	DIODE 1S1555		Q019	8-729-178-54	TRANSISTOR 2SC2785F	
D021	8-719-815-55	DIODE 1S1555		Q020	8-729-178-54	TRANSISTOR 2SC2785F	
D022	8-719-815-55	DIODE 1S1555		Q021	8-729-178-54	TRANSISTOR 2SC2785F	
D023	8-719-815-55	DIODE 1S1555		Q024 A 8-729-177-32	TRANSISTOR 2SD773		
D024	8-719-815-55	DIODE 1S1555		Q025	8-729-178-54	TRANSISTOR 2SC2785F	
D025	8-719-815-55	DIODE 1S1555		Q026	8-729-117-54	TRANSISTOR 2SA1175F	
D026	8-719-200-10	DIODE 10E10P		Q027	8-729-178-54	TRANSISTOR 2SC2785F	
D027	8-719-815-55	DIODE 1S1555		Q028	8-729-178-54	TRANSISTOR 2SC2785F	
D028	8-719-815-55	DIODE 1S1555		Q029	8-729-178-54	TRANSISTOR 2SC2785F	
D029	8-719-911-19	DIODE 1SS119		Q030	8-729-178-54	TRANSISTOR 2SC2785F	
D030	8-719-815-55	DIODE 1S1555		Q031	8-729-178-54	TRANSISTOR 2SC2785F	
D031	8-719-815-55	DIODE 1S1555		Q032	8-729-178-54	TRANSISTOR 2SC2785F	
D032	8-719-113-07	DIODE RD13E-B		Q033	8-729-178-54	TRANSISTOR 2SC2785F	
D033	8-719-113-07	DIODE RD13E-B		Q034	8-729-178-54	TRANSISTOR 2SC2785F	
D034	8-719-113-07	DIODE RD13E-B		Q035	8-729-117-54	TRANSISTOR 2SA1175F	
D035	8-719-113-07	DIODE RD13E-B		Q036	8-729-178-54	TRANSISTOR 2SC2785F	
D036	8-719-113-07	DIODE RD13E-B		Q037	8-729-178-54	TRANSISTOR 2SC2785F	
D037	8-719-113-07	DIODE RD13E-B		Q038	8-729-178-54	TRANSISTOR 2SC2785F	
D038	8-719-113-07	DIODE RD13E-B		Q042	8-729-178-54	TRANSISTOR 2SC2785F	
D039	8-719-815-55	DIODE 1S1555		Q043	8-729-178-54	TRANSISTOR 2SC2785F	
D040	8-719-815-55	DIODE 1S1555		Q044	8-729-117-54	TRANSISTOR 2SA1175F	
D041	8-719-815-55	DIODE 1S1555		Q045	8-729-117-54	TRANSISTOR 2SA1175F	
		<u>IC</u>		Q046	8-729-178-54	TRANSISTOR 2SC2785F	
IC 001	8-759-146-37	IC UPD546C037		Q047	8-729-178-54	TRANSISTOR 2SC2785F	
IC 002	8-759-240-11	IC TC4011BP		Q048	8-729-178-54	TRANSISTOR 2SC2785F	
IC 003	8-759-240-11	IC TC4011BP		Q049	8-729-117-54	TRANSISTOR 2SA1175F	
IC 004	8-759-240-81	IC TC4081BP		Q050	8-729-178-54	TRANSISTOR 2SC2785F	
IC 005	8-759-240-69	IC TC4069UBP					

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

Part No	Description	Quantity	Value	Power	Temp	Material	Part No	Description	Quantity	Value	Power	Temp	Material	Remark
<u>RESISTOR</u>														
R001	1-246-981-00	CARBON	4.7K	5%	1/8W	F								
R002	1-246-795-00	CARBON	10K	5%	1/8W									
R003	1-246-803-00	CARBON	47K	5%	1/8W									
R004	1-246-795-00	CARBON	10K	5%	1/8W									
R005	1-211-929-00	CARBON	82	5%	1/8W	F								
R006	1-211-929-00	CARBON	82	5%	1/8W	F								
R007	1-211-929-00	CARBON	82	5%	1/8W	F								
R008	1-211-929-00	CARBON	82	5%	1/8W	F								
R009	1-211-929-00	CARBON	82	5%	1/8W	F								
R011	1-246-481-00	CARBON	2.2K	5%	1/4W									
R012	1-246-521-00	CARBON	100K	5%	1/4W									
R013	1-246-521-00	CARBON	100K	5%	1/4W									
R014	1-246-521-00	CARBON	100K	5%	1/4W									
R015	1-246-521-00	CARBON	100K	5%	1/4W									
R016	1-246-513-00	CARBON	47K	5%	1/4W									
R017	1-246-521-00	CARBON	100K	5%	1/4W									
R018	1-246-473-00	CARBON	1K	5%	1/4W									
R020	1-246-521-00	CARBON	100K	5%	1/4W									
R021	1-246-807-00	CARBON	100K	5%	1/8W									
R022	1-246-473-00	CARBON	1K	5%	1/4W									
R023	1-246-521-00	CARBON	100K	5%	1/4W									
R024	1-246-490-00	CARBON	5.1K	5%	1/4W									
R025	1-246-513-00	CARBON	47K	5%	1/4W									
R026	1-246-521-00	CARBON	100K	5%	1/4W									
R029	1-246-521-00	CARBON	100K	5%	1/4W									
R031	1-246-485-00	CARBON	3.3K	5%	1/4W									
R032	1-246-517-00	CARBON	68K	5%	1/4W									
R033	1-246-517-00	CARBON	68K	5%	1/4W									
R034	1-246-473-00	CARBON	1K	5%	1/4W									
R035	1-246-481-00	CARBON	2.2K	5%	1/4W									
R036	1-246-473-00	CARBON	1K	5%	1/4W									
R037	1-231-433-00	RES, ARRAY												
R038	1-231-433-00	RES, ARRAY												
R039	1-231-434-00	RES, ARRAY												
R040	1-231-434-00	RES, ARRAY												
R041	1-246-607-00	CARBON	100K	5%	1/8W									
R042	1-246-694-00	CARBON	7.5K	5%	1/4W									
R043	1-246-526-00	CARBON	200K	5%	1/4W									
R044	1-246-613-00	CARBON	10K	5%	1/4W									
R045	1-246-440-00	CARBON	50K	5%	1/4W									
R046	1-246-131-00	CARBON	5.1K	5%	1/8W									
R047	1-246-608-00	CARBON	47K	5%	1/8W									
R048	1-246-195-00	CARBON	10K	5%	1/8W									
R049	1-246-782-00	CARBON	1K	5%	1/8W									
R050	1-246-481-00	CARBON	2.2K	5%	1/4W									
<u>TRANSISTOR</u>														
Q001	1-123-329-00	ELECT	10MF		20%	25V								
<u>DIODE</u>														
D001	8-719-815-55	DIODE	1S1555											
<u>COIL</u>														
L001	1-407-166-XX	MICRO INDUCTOR	470H											
<u>TRANSISTOR</u>														
Q001	8-729-612-77	TRANSISTOR	2SA1027R											
Q002	8-729-612-77	TRANSISTOR	2SA1027R											
Q003	8-729-612-77	TRANSISTOR	2SA1027R											
Q004	8-729-663-47	TRANSISTOR	2SC1363											
Q005	8-729-663-47	TRANSISTOR	2SC1363											
Q006	8-729-663-47	TRANSISTOR	2SC1364											
Q007	8-729-663-47	TRANSISTOR	2SC1364											
Q008	8-729-663-47	TRANSISTOR	2SC1364											
Q009	8-729-612-77	TRANSISTOR	2SA1027R											
<u>RESISTOR</u>														
R001	1-246-497-00	CARBON	10K	5%	1/4W									
R002	1-246-497-00	CARBON	10K	5%	1/4W									
R003	1-246-497-00	CARBON	10K	5%	1/4W									
R004	1-246-497-00	CARBON	10K	5%	1/4W									
R005	1-246-439-00	CARBON	39	5%	1/4W									
R006	1-246-497-00	CARBON	10K	5%	1/4W									
R007	1-246-497-00	CARBON	10K	5%	1/4W									
R008	1-246-521-00	CARBON	100K	5%	1/4W									
R009	1-246-494-00	CARBON	7.5K	5%	1/4W									
R010	1-246-536-00	CARBON	24K	5%	1/4W									
R011	1-246-497-00	CARBON	10K	5%	1/4W									
R012	1-246-497-00	CARBON	10K	5%	1/4W									
R013	1-246-497-00	CARBON	10K	5%	1/4W									
R014	1-246-497-00	CARBON	10K	5%	1/4W									
R015	1-246-497-00	CARBON	10K	5%	1/4W									
R016	1-246-497-00	CARBON	10K	5%	1/4W									
R017	1-246-497-00	CARBON	10K	5%	1/4W									
R018	1-246-497-00	CARBON	10K	5%	1/4W									
<u>VARIABLE RESISTOR</u>														
RV001	1-246-642-00	RES, ADJ	CARBON											
RV002	1-246-642-00	RES, ADJ	CARBON											
<u>CONDENSER</u>														
C001	1-123-329-00	ELECT	10MF		20%	25V								
C002	1-123-329-00	ELECT	10MF		20%	25V								
C003	1-123-329-00	ELECT	10MF		20%	25V								
C004	1-123-318-00	ELECT	33MF		20%	25V								
C005	1-123-329-00	ELECT	10MF		20%	25V								
C006	1-105-389-00	MYLAR	0.1MF		1%	100V								
<u>TO-18 BOARD</u>														
<u>CAPACITOR</u>														

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

Due to standardization, interchangeable replacements may be substituted for parts specified on the diagrams.

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

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C107	1-108-371-00	MYLAR 0.0033MF 10%	100V	D121	8-719-815-55	DIODE 1S1555	
<u>CONNECTOR</u>				D122	8-719-815-55	DIODE 1S1555	
CN101	1-508-734-00	PIN, CONNECTOR 3P		D123	8-719-815-55	DIODE 1S1555	
<u>DIODE</u>				D124	8-719-815-55	DIODE 1S1555	
D101	8-719-815-55	DIODE 1S1555		D125	8-719-815-55	DIODE 1S1555	
<u>COIL</u>				D126	8-719-815-55	DIODE 1S1555	
L101	1-407-510-00	MICRO INDUCTOR 33MMH		D127	8-719-815-55	DIODE 1S1555	
<u>TRANSISTOR</u>				D128	8-719-815-55	DIODE 1S1555	
Q101	=>8-729-663-47	TRANSISTOR 2SC1364		<u>NEON LAMP</u>			
<u>RESISTOR</u>				NE101	1-519-204-00	LAMP, NEON	
R101	1-246-509-00	CARBON 33K 5% 1/4W		NE102	1-519-204-00	LAMP, NEON	
R102	1-246-513-00	CARBON 47K 5% 1/4W		NE103	1-519-204-00	LAMP, NEON	
R103	1-246-497-00	CARBON 10K 5% 1/4W		NE104	1-519-204-00	LAMP, NEON	
R104	1-246-506-00	CARBON 24K 5% 1/4W		NE105	1-519-204-00	LAMP, NEON	
*****				NE106	1-519-204-00	LAMP, NEON	
▲:A-6728-206-A	<u>TS-13 BOARD, COMPLETE</u>		E-155	NE107	1-519-204-00	LAMP, NEON	
▲:1-226-760-12	PRESET UNIT			NE108	1-519-204-00	LAMP, NEON	
<u>CAPACITOR</u>				NE109	1-519-204-00	LAMP, NEON	
C101	1-123-352-00	ELECT 1MF 20% 50V		NE110	1-519-204-00	LAMP, NEON	
C102	1-123-316-00	ELECT 10MF 20% 16V		NE111	1-519-204-00	LAMP, NEON	
C103	1-121-806-00	ELECT 10MF 20% 16V		NE112	1-519-204-00	LAMP, NEON	
<u>DIODE</u>				NE113	1-519-204-00	LAMP, NEON	
D101	8-719-815-55	DIODE 1S1555		NE114	1-519-204-00	LAMP, NEON	
D102	8-719-815-55	DIODE 1S1555		<u>TRANSISTOR</u>			
D103	8-719-815-55	DIODE 1S1555		Q101	=>8-729-663-47	TRANSISTOR 2SC1364	
D104	8-719-815-55	DIODE 1S1555		<u>RESISTOR</u>			
D105	8-719-815-55	DIODE 1S1555		R101	1-246-528-00	CARBON 200K 5% 1/4W	
D106	8-719-815-55	DIODE 1S1555		R102	1-246-505-00	CARBON 22K 5% 1/4W	
D107	8-719-815-55	DIODE 1S1555		<u>SWITCH</u>			
D108	8-719-815-55	DIODE 1S1555		S129	1-516-226-00	SLIDE SWITCH	
D109	8-719-815-55	DIODE 1S1555		SW115	1-552-774-00	SWITCH, PUSH	
D110	8-719-815-55	DIODE 1S1555		SW116	1-552-774-00	SWITCH, PUSH	
D111	8-719-815-55	DIODE 1S1555		SW117	1-552-774-00	SWITCH, PUSH	
D112	8-719-815-55	DIODE 1S1555		SW118	1-552-774-00	SWITCH, PUSH	
D113	8-719-815-55	DIODE 1S1555		SW119	1-552-774-00	SWITCH, PUSH	
D114	8-719-815-55	DIODE 1S1555		SW120	1-552-774-00	SWITCH, PUSH	
D115	8-719-815-55	DIODE 1S1555		SW121	1-552-774-00	SWITCH, PUSH	
D116	8-719-815-55	DIODE 1S1555		SW122	1-552-774-00	SWITCH, PUSH	
D117	8-719-815-55	DIODE 1S1555		SW123	1-552-774-00	SWITCH, PUSH	
D118	8-719-815-55	DIODE 1S1555		SW124	1-552-774-00	SWITCH, PUSH	
D119	8-719-815-55	DIODE 1S1555		SW125	1-552-774-00	SWITCH, PUSH	
D120	8-719-815-55	DIODE 1S1555		SW126	1-552-774-00	SWITCH, PUSH	
*****				SW127	1-552-774-00	SWITCH, PUSH	
				SW128	1-552-774-00	SWITCH, PUSH	

				▲:A-6728-207-A	<u>TS-14 BOARD, COMPLETE</u>		E-156

=>: 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.

Ref.No	Part No	Description	Remark
C041	1-123-323-00	ELECT 470MF	20% 16V
C042	1-101-004-00	CERAMIC 0.01MF	50V
C043	1-161-263-00	CERAMIC 22PF	5% 50V
C044	1-102-668-00	CERAMIC 15PF	5% 50V
C045	1-102-116-00	CERAMIC 680PF	10% 50V
C046	1-101-006-00	CERAMIC 0.047MF	50V
C047	1-108-379-00	MYLAR 0.015MF	10% 100V
C048	1-123-318-00	ELECT 33MF	20% 16V
C051	1-102-493-00	CERAMIC 62PF	5% 50V
C052	1-102-519-00	CERAMIC 36PF	5% 50V
C053	1-101-576-00	CERAMIC 1.5PF	0.25PF 50V
C054	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C055	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C056	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C057	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C058	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C059	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C060	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C061	1-102-973-00	CERAMIC 100PF	5% 50V
C062	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C081	1-123-295-00	ELECT 100MF	20% 6.3V
C082	1-102-945-00	CERAMIC 8PF	0.5PF 50V
C084	1-123-320-00	ELECT 100MF	20% 16V
C085	1-123-319-00	ELECT 47MF	20% 16V

FILTER

CF001 1-527-260-00 CERAMIC FILTER

CONNECTOR

CN001 1-508-744-00 PIN, CONNECTOR 10P
 CN002 1-508-846-00 PIN, CONNECTOR 8P
 CN003 1-508-846-00 PIN, CONNECTOR 8P
 CN004 1-508-845-00 PIN, CONNECTOR 6P

TRIMMER

CT001 1-409-332-00 CERAMIC TRAP
 CT002 1-409-332-00 CERAMIC TRAP

DIODE

D001 8-759-157-40 IC UPC574J
 D002 8-719-901-83 DIODE 1SS83
 D003 8-719-815-55 DIODE 1S1555

IC

IC001 8-751-771-10 IC CX-177B
 IC002 8-759-601-95 IC CX-095D
 IC003 8-759-651-35 M5135P

COIL

L001 1-425-613-00 COIL, AIR-CORE, QF TYPE
 L002 1-407-189-XX MICRO INDUCTOR 8.2UH

Ref.No	Part No	Description	Remark
L003	1-407-159-XX	MICRO INDUCTOR 15UH	
L004	1-407-178-XX	MICRO INDUCTOR 1UH	
L006	1-407-172-XX	MICRO INDUCTOR 180UH	
L007	1-407-169-XX	MICRO INDUCTOR 100UH	
L008	1-407-184-XX	MICRO INDUCTOR 3.3UH	
L009	1-407-180-XX	MICRO INDUCTOR 1.5UH	
L015	1-407-158-XX	MICRO INDUCTOR 12UH	

CONNECTOR

P001 1-526-575-00 SOCKET, PLUG

TRANSISTOR

Q002 8-723-302-00 TRANSISTOR 2SK43-2
 Q003 8-769-200-00 TRANSISTOR 2SK107-2
 Q004 8-729-663-47 TRANSISTOR 2SC1363-6
 Q005 8-729-177-43 TRANSISTOR 2SD774-K
 Q006 8-729-663-47 TRANSISTOR 2SC1363-6

RESISTOR

Ref.No	Part No	Description	Remark
R001	1-246-431-00	CARBON 18	5% 1/4W
R002	1-246-457-00	CARBON 220	5% 1/4W
R003	1-246-423-00	CARBON 8.2	5% 1/4W
R004	1-246-449-00	CARBON 100	5% 1/4W
R005	1-246-457-00	CARBON 220	5% 1/4W
R006	1-246-505-00	CARBON 22K	5% 1/4W
R007	1-246-525-00	CARBON 150K	5% 1/4W
R008	1-246-475-00	CARBON 1.2K	5% 1/4W
R009	1-246-461-00	CARBON 330	5% 1/4W
R010	1-246-481-00	CARBON 2.2K	5% 1/4W
R011	1-246-533-00	CARBON 330K	5% 1/4W
R012	1-246-535-00	CARBON 390K	5% 1/4W
R013	1-246-477-00	CARBON 1.5K	5% 1/4W
R014	1-246-486-00	CARBON 3.6K	5% 1/4W
R020	1-246-513-00	CARBON 47K	5% 1/4W
R021	1-246-545-00	CARBON 1M	5% 1/4W
R022	1-246-529-00	CARBON 220K	5% 1/4W
R023	1-246-543-00	CARBON 820K	5% 1/4W
R024	1-246-537-00	CARBON 470K	5% 1/4W
R028	1-246-505-00	CARBON 22K	5% 1/4W
R029	1-246-979-00	CARBON 1.2	5% 1/8W F
R030	1-246-473-00	CARBON 1K	5% 1/4W
R031	1-246-481-00	CARBON 2.2K	5% 1/4W
R032	1-246-437-00	CARBON 33	5% 1/4W
R033	1-246-493-00	CARBON 6.8K	5% 1/4W
R034	1-246-509-00	CARBON 33K	5% 1/4W
R035	1-206-686-00	METAL 8.2K	5% 2W F
R041	1-211-930-00	CARBON 33	5% 1/8W F
R042	1-246-473-00	CARBON 1K	5% 1/4W
R043	1-246-473-00	CARBON 1K	5% 1/4W
R044	1-246-497-00	CARBON 10K	5% 1/4W
R051	1-246-473-00	CARBON 1K	5% 1/4W
R052	1-246-473-00	CARBON 1K	5% 1/4W
R053	1-247-032-00	CARBON 68	5% 1/8W F

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

* =>: 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.

Ref.No	Part No	Description	Remark
<u>CAPACITOR</u>			
C001	1-123-316-00	ELECT 10MF	20% 16V
C002	1-107-235-00	MICA 510PF	5% 50V
C003	1-123-328-00	ELECT 4.7MF	20% 25V
C004	1-123-353-00	ELECT 2.2MF	20% 50V
C005	1-123-353-00	ELECT 2.2MF	20% 50V

<u>CONNECTOR</u>			
CN001	1-508-736-00	PIN, CONNECTOR	10P

<u>DIODE</u>			
D001	8-719-815-55	DIODE 1S1555	
D002	8-719-815-55	DIODE 1S1555	
D003	8-719-815-55	DIODE 1S1555	
D004	8-719-815-55	DIODE 1S1555	
D005	8-719-815-55	DIODE 1S1555	

D006	8-719-815-55	DIODE 1S1555	
D007	8-719-815-55	DIODE 1S1555	
D008	8-719-815-55	DIODE 1S1555	
D009	8-719-815-55	DIODE 1S1555	
D010	8-719-815-55	DIODE 1S1555	
D011	8-719-815-55	DIODE 1S1555	

<u>IC</u>			
IC 001	8-759-245-20	IC TC4520BP	
IC 002	8-759-240-11	IC TC4011BP	
IC 003	8-758-040-00	IC CX-804	

<u>TRANSISTOR</u>			
Q001	8-729-902-11	TRANSISTOR 2SC2021	
Q002	8-729-902-11	TRANSISTOR 2SC2021	
Q003	8-729-902-11	TRANSISTOR 2SC2021	
Q004	8-729-902-11	TRANSISTOR 2SC2021	

<u>RESISTOR</u>			
R001	1-246-493-00	CARBON 6.8K	5% 1/4W
R002	1-246-511-00	CARBON 39K	5% 1/4W
R003	1-246-511-00	CARBON 39K	5% 1/4W
R004	1-246-521-00	CARBON 100K	5% 1/4W
R005	1-246-473-00	CARBON 1K	5% 1/4W
R006	1-246-538-00	CARBON 510K	5% 1/4W
R007	1-246-497-00	CARBON 10K	5% 1/4W
R008	1-246-497-00	CARBON 10K	5% 1/4W
R009	1-246-524-00	CARBON 130K	5% 1/4W
R010	1-246-473-00	CARBON 1K	5% 1/4W
R011	1-246-509-00	CARBON 33K	5% 1/4W
R012	1-246-497-00	CARBON 10K	5% 1/4W
R013	1-246-532-00	CARBON 300K	5% 1/4W
R014	1-246-497-00	CARBON 10K	5% 1/4W
R015	1-246-513-00	CARBON 47K	5% 1/4W
R016	1-246-504-00	CARBON 20K	5% 1/4W
R017	1-246-521-00	CARBON 100K	5% 1/4W

Ref.No	Part No	Description	Remark
R018	1-246-521-00	CARBON 100K	5% 1/4W
R019	1-246-521-00	CARBON 100K	5% 1/4W
R020	1-246-508-00	CARBON 30K	5% 1/4W
R021	1-246-508-00	CARBON 30K	5% 1/4W
R022	1-246-508-00	CARBON 30K	5% 1/4W
R023	1-246-508-00	CARBON 30K	5% 1/4W
R024	1-246-529-00	CARBON 220K	5% 1/4W
R025	1-246-529-00	CARBON 220K	5% 1/4W
R026	1-246-529-00	CARBON 220K	5% 1/4W
R027	1-246-529-00	CARBON 220K	5% 1/4W
R028	1-246-509-00	CARBON 33K	5% 1/4W
R029	1-246-521-00	CARBON 100K	5% 1/4W
R030	1-246-512-00	CARBON 43K	5% 1/4W
R031	1-246-529-00	CARBON 220K	5% 1/4W
R032	1-246-485-00	CARBON 3.3K	5% 1/4W

4-A-6721-066-A	IF-11 BOARD, COMPLETE	E-152
4-4-303-805-00	CASE, SHIELD	
4-4-329-114-00	LID, REAR, SHIELD CASE, AFT	
4-4-329-115-00	CASE, SHIELD, MAIN	
4-4-329-116-00	LID, UPPER, SHIELD CASE, VIF	
4-4-329-118-00	LID, UPPER, SHIELD CASE, AFT	
4-4-329-119-00	CASE, SHIELD, MAIN	
4-4-329-120-00	LID, REAR, SHIELD CASE, VIF	

<u>CAPACITOR</u>			
C001	1-102-528-00	CERAMIC 91PF	5% 50V
C002	1-161-269-00	CERAMIC 68PF	5% 50V
C003	1-101-880-00	CERAMIC 47PF	5% 50V
C004	1-102-525-00	CERAMIC 68PF	5% 50V
C005	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C006	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C007	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C008	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C009	1-123-319-00	ELECT 47MF	20% 16V
C010	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C011	1-123-351-00	ELECT 0.47MF	20% 50V
C012	1-161-051-00	CERAMIC 0.01MF	10% 50V
C013	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C014	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C015	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C016	1-123-352-00	ELECT 1MF	20% 50V
C022	1-108-377-00	MYLAR 0.01MF	10% 100V
C023	1-123-320-00	ELECT 100MF	20% 16V
C024	1-123-351-00	ELECT 0.47MF	20% 50V
C025	1-123-351-00	ELECT 0.47MF	20% 50V
C026	1-123-351-00	ELECT 0.47MF	20% 50V
C027	1-101-804-00	CERAMIC 10PF	5% 500V
C028	1-123-267-00	ELECT 2.2MF	20% 160V
C029	1-108-377-00	MYLAR 0.01MF	10% 100V
C030	1-102-973-00	CERAMIC 100PF	5% 50V

* Items marked "4" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

Ref.No	Part No	Description	Remark
R081	1-246-487-00	CARBON 3.9K 5% 1/4W	
R082	1-246-459-00	CARBON 270 5% 1/4W	
R083	1-246-483-00	CARBON 2.7K 5% 1/4W	
R084	1-246-481-00	CARBON 2.2K 5% 1/4W	
R085	1-246-521-00	CARBON 100K 5% 1/4W	

VARIABLE RESISTOR

RV001	1-224-646-XX	RES, ADJ, CARBON 22K	
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TRANSFORMER

T001	1-409-213-00	COIL, SOUND TRAP VIFT-T2	
T002	1-409-318-00	COIL, TRAP	
T003	1-409-319-00	COIL, TRAP	
T004	1-404-117-00	FILTER, HELICAL	
T005	1-404-046-00	COIL, I.F.T	
T006	1-403-731-00	COIL, DISCRI PRIMARY AF	
T031	1-446-295-00	TRANSFORMER, CONVERTOR	
T041	1-403-367-00	COIL, SIF	
T042	1-403-871-00	SIFT-2 COIL	
T051	1-403-904-00	COIL, DISCRI PRIMARY	
T052	1-403-905-00	COIL, DISCRI SECONDARY	

*:1-600-015-00	LF-9 BOARD, COMPLETE	E-201
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1-533-127-00	FUSE CLIP
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CAPACITOR

C101	*:1-130-060-00	FILM	0.1MF	20%	125V
C102	*:1-161-747-00	CERAMIC	0.0022MF	20%	125V
C103	*:1-161-747-00	CERAMIC	0.0022MF	20%	125V

CONNECTOR

CN101	*:1-560-033-00	PLUG, CONNECTOR (3P)
CN102	*:1-508-786-00	2P PLUG (M)

FUSE

F101	*:1-532-403-X3	FUSE
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COIL

L101	*:1-421-225-00	COIL, LINE FILTER
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RESISTOR

R101	*:1-202-723-00	COMPOSITION	2.2M	10%	1/2W
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*:A-6723-156-A	PS-12 BOARD, COMPLETE	E-202
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1-533-127-00	FUSE CLIP
*:3-665-806-00	PLATE, SHIELD, HEAT

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

Ref.No	Part No	Description	Remark
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CAPACITOR

C001	1-102-050-00	CERAMIC	0.01MF	500V
C002	1-123-403-00	ELECT	4700MF	25V
C003	1-123-332-00	ELECT	47MF	20% 25V
C004	1-108-365-00	MYLAR	0.001MF	10% 100V
C005	1-123-351-00	ELECT	0.47MF	20% 50V

C006	1-123-319-00	ELECT	47MF	20% 16V
C007	1-102-050-00	CERAMIC	0.01MF	500V
C008	1-102-050-00	CERAMIC	0.01MF	500V
C009	1-123-650-00	ELECT	10000MF	35V
C010	1-123-319-00	ELECT	47MF	20% 16V

C011	1-102-050-00	CERAMIC	0.01MF	500V
C012	1-123-348-00	ELECT	470MF	20% 35V
C013	1-123-350-00	ELECT	2200MF	20% 35V
C014	1-123-316-00	ELECT	10MF	20% 16V
C015	1-123-320-00	ELECT	100MF	20% 16V

C016	1-123-353-00	ELECT	2.2MF	20% 50V
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CONNECTOR

CN001	*:1-508-742-00	PIN, CONNECTOR 3P
CN002	*:1-508-910-00	PIN, CONNECTOR 12P
CN003	*:1-508-797-00	PIN, CONNECTOR 4P
CN004	*:1-508-742-00	PIN, CONNECTOR 3P
CN005	*:1-508-766-00	4P PLUG (M)

DIODE

D001	*:8-719-941-13	DIODE M4B41-13
D002	*:8-719-941-13	DIODE M4B41-13
D003	8-719-200-02	DIODE 10E-2
D004	8-719-200-02	DIODE 10E-2
D005	8-719-113-21	DIODE RD13E-B1Z8

D006	8-719-162-07	DIODE RD6.2E-B
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FUSE

F001	*:1-532-348-00	FUSE
F002	*:1-532-349-XX	FUSE

TRANSISTOR

Q001	=:8-729-245-83	TRANSISTOR 2SC2458
Q002	=:8-729-245-83	TRANSISTOR 2SC2458
Q003	8-729-245-83	TRANSISTOR 2SC2458
Q004	8-729-245-83	TRANSISTOR 2SC2458

RESISTOR

R001	1-246-497-00	CARBON	10K	5%	1/4W
R002	1-246-505-00	CARBON	22K	5%	1/4W
R003	1-246-497-00	CARBON	10K	5%	1/4W
R004	1-246-497-00	CARBON	10K	5%	1/4W
R005	1-246-505-00	CARBON	22K	5%	1/4W

R006	1-246-441-00	CARBON	47	5%	1/4W
R007	1-246-477-00	CARBON	1.5K	5%	1/4W
R008	1-246-466-00	CARBON	510	5%	1/4W

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

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

Ref.No	Part No	Description	Remark
R009	1-246-473-00	CARBON 1K 5% 1/4W	
R010	1-246-483-00	CARBON 2.7K 5% 1/4W	
R011	1-246-481-00	CARBON 2.2K 5% 1/4W	
R012	1-211-506-00	CARBON 22 5% 1/4W F	
R013	1-212-367-00	METAL 3.9 5% 1W F	
R014	1-246-480-00	CARBON 2K 5% 1/4W	
R015	1-246-497-00	CARBON 10K 5% 1/4W	

VARIABLE RESISTOR

RV001 1-224-642-XX RES, ADJ, CARBON 1K

*A-6728-192-A DT-46 BOARD, COMPLETE E-207

*3-661-677-00 HOLDER (W), INDICATION TUBE

SPARK GAP

FL001 1-519-198-00 FLUORESCENT INDICATOR TUBE E-212

RESISTOR

R001	1-246-807-00	CARBON 100K 5% 1/8W
R002	1-246-807-00	CARBON 100K 5% 1/8W
R003	1-246-807-00	CARBON 100K 5% 1/8W
R004	1-246-807-00	CARBON 100K 5% 1/8W
R005	1-246-807-00	CARBON 100K 5% 1/8W
R006	1-246-807-00	CARBON 100K 5% 1/8W

*A-6728-193-A DT-47 BOARD, COMPLETE E-208

CAPACITOR

C101	1-123-351-00	ELECT 0.47MF 20% 50V
C102	1-123-306-00	ELECT 47MF 20% 10V
C103	1-161-032-00	CERAMIC 0.01MF 20% 25V

COMPOSITION

CP101	1-231-659-00	COMPOSITION CIRCUIT BLOCK
CP102	1-231-659-00	COMPOSITION CIRCUIT BLOCK

DIODE

D101	8-719-139-07	DIODE RD3.9E-B
D102	8-719-815-55	DIODE 1S1555

TRANSISTOR

Q101	8-729-902-11	TRANSISTOR 2SC2021
Q102	8-729-902-11	TRANSISTOR 2SC2021
Q103	8-729-902-11	TRANSISTOR 2SC2021
Q104	8-729-902-11	TRANSISTOR 2SC2021
Q105	8-729-902-11	TRANSISTOR 2SC2021
Q106	8-729-902-11	TRANSISTOR 2SC2021
Q107	8-729-902-11	TRANSISTOR 2SC2021

Ref.No	Part No	Description	Remark
Q108	8-729-902-11	TRANSISTOR 2SC2021	
Q109	8-729-902-11	TRANSISTOR 2SC2021	
Q110	8-729-902-11	TRANSISTOR 2SC2021	
Q111	8-729-902-11	TRANSISTOR 2SC2021	
Q112	8-729-902-11	TRANSISTOR 2SC2021	
Q113	8-729-902-11	TRANSISTOR 2SC2021	
Q114	8-729-902-11	TRANSISTOR 2SC2021	
Q115	=>8-729-117-54	TRANSISTOR 2SA1175	
Q116	8-729-902-11	TRANSISTOR 2SC2021-R	

RESISTOR

R101	1-246-795-00	CARBON 10K 5% 1/8W
R102	1-246-468-00	CARBON 620 5% 1/4W
R103	1-246-449-00	CARBON 100 5% 1/4W
R104	1-246-795-00	CARBON 10K 5% 1/8W
R105	1-246-807-00	CARBON 100K 5% 1/8W
R106	1-246-795-00	CARBON 10K 5% 1/8W

*A-6728-194-A DT-48 BOARD, COMPLETE E-209

CAPACITOR

C301	1-123-352-00	ELECT 1MF 20% 50V
C302	1-107-075-00	MICA 39PF 5% 50V
C303	1-108-595-00	MYLAR 0.047MF 5% 50V

DIODE

D301 8-719-815-55 DIODE 1S1555

IC

IC301 8-759-982-83 IC MB8841-283

COIL

L301 1-407-178-XX MICRO INDUCTOR 1UH

RESISTOR

R301	1-246-489-00	CARBON 4.7K 5% 1/4W
R302	1-214-143-00	METAL 3K 1% 1/4W

VARIABLE RESISTOR

RV301 1-226-702-00 RES, ADJ, METAL GRAZE 2.2K

*A-6728-195-A DT-49 BOARD, COMPLETE E-210

SWITCH

S401 1-552-267-00 SWITCH, LEVER SLIDE E-213

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

* =>: 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.

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
	*A-6728-196-A	<u>DT-50 BOARD, COMPLETE</u>	E-211			<u>IC</u>	
	*3-661-576-00	HOLDER, LED		IC 201	8-759-108-05	IC UPC78L05A	
	*3-701-748-00	CLAMP		IC 202	8-759-240-81	IC TC4081BP	
				IC 301	8-759-981-80	IC MB8841-180	
		<u>CAPACITOR</u>				<u>COIL</u>	
C 202	1-123-316-00	ELECT 10MF	20% 16V	L201	1-407-191-XX	MICRO INDUCTOR 470UH	
C 203	1-161-032-00	CERAMIC 0.01MF	20% 25V			<u>PILOT LAMP</u>	
C 204	1-123-357-00	ELECT 22MF	20% 50V	PL 201	1-518-391-00	LAMP, PILOT	
C 205	1-123-357-00	ELECT 22MF	20% 50V	PL 202	1-518-392-00	LAMP, PILOT	
C 206	1-123-359-00	ELECT 47MF	20% 50V	PL 203	1-518-393-00	LAMP, PILOT	
C 210	1-161-032-00	CERAMIC 0.01MF	20% 25V			<u>TRANSISTOR</u>	
C 211	1-161-032-00	CERAMIC 0.01MF	20% 25V	Q201	8-729-902-11	TRANSISTOR 2SC2021	
C 212	1-161-028-00	CERAMIC 0.0022MF	20% 25V	Q202	=>8-729-117-54	TRANSISTOR 2SA1175	
C 213	1-161-032-00	CERAMIC 0.01MF	20% 25V	Q203	8-729-902-11	TRANSISTOR 2SC2021	
C 214	1-123-328-00	ELECT 4.7MF	20% 25V	Q204	8-729-902-11	TRANSISTOR 2SC2021	
C 215	1-161-032-00	CERAMIC 0.01MF	20% 25V	Q205	=>8-729-117-54	TRANSISTOR 2SA1175	
		<u>CONNECTOR</u>		Q206	8-729-902-11	TRANSISTOR 2SC2021	
CN001	*1-508-850-00	PIN, CONNECTOR 12P		Q207	8-729-902-11	TRANSISTOR 2SC2021	
CN002	*1-508-736-00	PIN, CONNECTOR 10P		Q208	8-729-902-11	TRANSISTOR 2SC2021	
CN003	*1-508-847-00	PIN, CONNECTOR 4P		Q209	8-729-902-11	TRANSISTOR 2SC2021	
CN201	*1-561-340-00	SOCKET, CONNECTOR 15P		Q210	8-729-902-11	TRANSISTOR 2SC2021	
		<u>COMPOSITION</u>				<u>RESISTOR</u>	
CP201	1-231-569-00	COMPOSITION CIRCUIT BLOCK		R202	1-246-795-00	CARBON 10K 5% 1/8W	
CP202	1-231-599-00	COMPOSITION CIRCUIT BLOCK		R203	1-246-803-00	CARBON 47K 5% 1/8W	
		<u>DIODE</u>		R204	1-246-803-00	CARBON 47K 5% 1/8W	
D203	8-719-815-55	DIODE 1S1555		R205	1-246-473-00	CARBON 1K 5% 1/4W	
D204	8-719-815-55	DIODE 1S1555		R206	1-246-803-00	CARBON 47K 5% 1/8W	
D205	8-719-815-55	DIODE 1S1555		R207	1-246-804-00	CARBON 56K 5% 1/8W	
D206	8-719-815-55	DIODE 1S1555		R208	1-246-433-00	CARBON 22 5% 1/4W	
D207	8-719-200-02	DIODE 10E-2		R209	1-246-803-00	CARBON 47K 5% 1/8W	
D208	8-719-815-55	DIODE 1S1555		R210	1-246-433-00	CARBON 22 5% 1/4W	
D209	8-719-815-55	DIODE 1S1555		R211	1-246-803-00	CARBON 47K 5% 1/8W	
D210	8-719-815-55	DIODE 1S1555		R212	1-246-433-00	CARBON 22 5% 1/4W	
D211	8-719-815-55	DIODE 1S1555		R215	1-246-471-00	CARBON 820 5% 1/4W	
D212	8-719-815-55	DIODE 1S1555		R216	1-246-473-00	CARBON 1K 5% 1/4W	
D213	8-719-815-55	DIODE 1S1555		R217	1-246-456-00	CARBON 200 5% 1/4W	
D214	8-719-815-55	DIODE 1S1555		R220	1-246-795-00	CARBON 10K 5% 1/8W	
D215	8-719-815-55	DIODE 1S1555		R221	1-246-807-00	CARBON 100K 5% 1/8W	
D216	8-719-815-55	DIODE 1S1555		R222	1-246-795-00	CARBON 10K 5% 1/8W	
D218	8-719-815-55	DIODE 1S1555		R223	1-246-807-00	CARBON 100K 5% 1/8W	
D219	8-719-815-55	DIODE 1S1555		R224	1-246-870-00	CARBON 160K 5% 1/8W	
D220	8-719-815-55	DIODE 1S1555		R225	1-246-795-00	CARBON 10K 5% 1/8W	
D221	8-719-815-55	DIODE 1S1555		R226	1-246-795-00	CARBON 10K 5% 1/8W	
D222	8-719-815-55	DIODE 1S1555		R227	1-246-800-00	CARBON 27K 5% 1/8W	
D223	8-719-815-55	DIODE 1S1555		R230	1-246-787-00	CARBON 2.2K 5% 1/8W	
D224	8-719-812-41	DIODE TLR124		R231	1-246-795-00	CARBON 10K 5% 1/8W	
D225	8-719-812-41	DIODE TLR124		R232	1-246-807-00	CARBON 100K 5% 1/8W	
D226	8-719-815-55	DIODE 1S1555		R233	1-246-795-00	CARBON 10K 5% 1/8W	
D227	8-719-815-55	DIODE 1S1555					
D228	8-719-815-55	DIODE 1S1555					

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

Ref.No	Part No	Description	Remark
<u>BATTERY</u>			
B001	1-528-074-00	BATTERY, NICKEL CADMIUM	
<u>CAPACITOR</u>			
C001	1-108-365-00	MYLAR	0.001MF 10% 100V
C002	1-123-320-00	ELECT	100MF 20% 16V
C003	1-108-244-00	MYLAR	0.033MF 10% 50V
<u>CONNECTOR</u>			
CN001	1-508-742-00	PIN, CONNECTOR 3P	
CN002	1-508-916-00	CONNECTOR PIN 2P	
<u>DIODE</u>			
D001	8-719-175-07	DIODE RD7.5E-B	
D002	8-719-901-83	DIODE 1S583	
D003	8-719-151-07	DIODE RD5.1E-B	
<u>COIL</u>			
L001	1-407-716-00	MICRO INDUCTOR 820UH	
<u>TRANSISTOR</u>			
Q001	=>8-729-663-47	TRANSISTOR 2SC1364	
Q002	=>8-729-177-43	TRANSISTOR 2SD774	
<u>RESISTOR</u>			
R001	1-246-449-00	CARBON	100 5% 1/4W
R002	1-246-456-00	CARBON	200 5% 1/4W
R003	1-246-470-00	CARBON	750 5% 1/4W
R004	1-246-480-00	CARBON	2K 5% 1/4W
R005	1-246-473-00	CARBON	1K 5% 1/4W
<u>TRANSFORMER</u>			
T001	1-446-571-00	TRANSFORMER, CONVERTOR	

	1-603-164-00	TR-5 BOARD	E-458
<u>TRANSISTOR</u>			
Q001	8-729-331-53	TRANSISTOR 2SC2315	

	1-603-172-00	NF-3 BOARD	E-555
<u>CAPACITOR</u>			
C201	1-161-076-00	CERAMIC	0.1MF 20% 50V
C202	1-161-076-00	CERAMIC	0.1MF 20% 50V
<u>CONNECTOR</u>			
CN201	1-508-742-00	PIN, CONNECTOR 3P	

Ref.No	Part No	Description	Remark
<u>COIL</u>			
L201	1-421-225-00	COIL, LINE FILTER	

	1-603-173-00	TR-7 BOARD	E-204
<u>TRANSISTOR</u>			
Q001	8-729-316-16	TRANSISTOR 2SC1061	

	1-603-170-00	NF-1 BOARD	E-457
<u>CAPACITOR</u>			
C401	1-101-006-00	CERAMIC	0.047MF 50V
<u>CONNECTOR</u>			
CN9401	1-508-849-00	PIN, CONNECTOR 8P	
<u>THERMISTOR</u>			
TH9401	1-800-198-XX	THERMISTOR	
TH9402	1-800-202-XX	THERMISTOR S-10K	

	1-603-566-00	RL-2 BOARD	E-401
<u>TRANSISTOR</u>			
Q6801	8-719-751-42	DIODE NJL5141E	

	1-603-551-00	CN-10 BOARD	E-451
	3-659-359-00	PLATE, BOOST, REED SWITCH	
<u>SWITCH</u>			
SW251	1-552-180-00	SWITCH, REED	

	1-603-552-00	CN-11 BOARD	E-452
<u>CAPACITOR</u>			
C201	1-123-318-00	ELECT	33MF 20% 16V
<u>CONNECTOR</u>			
CN201	1-508-847-00	PIN, CONNECTOR 4P	
CN202	1-508-734-21	PIN, CONNECTOR 3P	
CN203	1-508-847-00	PIN, CONNECTOR 4P	

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