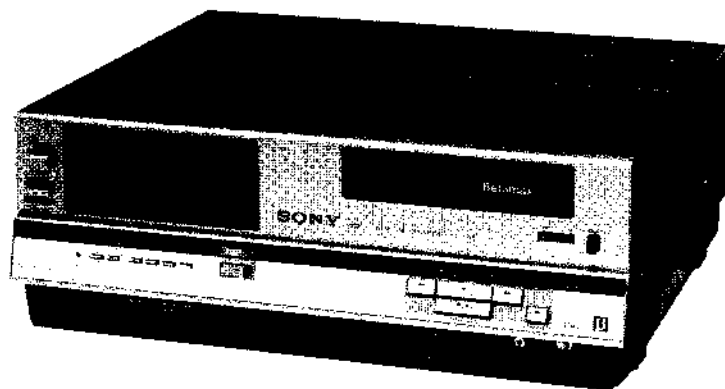


# SL-C6E

## SERVICE MANUAL

*E Model*



January, 1982

# 710 SYSTEM

Also refer to ADJUSTMENT MANUAL and OPERATION MANUAL

### SPECIFICATIONS

#### System

Video recording system

Rotary two-head helical scanning  
CCIR standards, PAL colour  
75-ohm, asymmetrical aerial socket  
VHF : Western European channels E2 - 12  
UHF : Western European channels E21 - 68  
(Up to 8 channels can be preset.)  
UHF channels E30 to E39 (variable)  
75 ohms, unbalanced

#### Video

Input

VIDEO IN : BNC connector  
1.0 V (p-p)  $\pm \frac{1.0}{0.5}$  V (p-p)  
75 ohms, unbalanced,  
sync negative

Output

VIDEO OUT : BNC connector  
1.0 V (p-p)  $\pm 0.1$  V (p-p) (Playback mode)  
75 ohms, unbalanced,  
sync negative

Horizontal resolution

Colour : 260 lines  
B/W : 260 lines

Signal-to-noise ratio

Colour : Better than 40 dB  
B/W : Better than 43 dB

#### Audio

Input

AUDIO IN : phono jack  
47 kilohms, -10 dBs (0 dBs = 0.775 V rms)  
MIC : mini jack  
-60 dBs, suitable for microphone with  
600-ohm impedance

Output

AUDIO OUT : phono jack  
Load impedance less than 10 kilohms  
-5 dBs with 47 kilohms load unbalanced

Frequency response

50 Hz - 10 kHz

Signal-to-noise ratio

40 dB

Audio distortion

Less than 4% at 400 Hz

#### Tape transport

Tape speed

18.73 mm/sec.

Maximum recording time

2 hours 10 min. (with Sony L-500 cassette)  
3 hours 15 min. (with L-750)

Fast forward/rewind time

Within 3 1/2 min. (with L-500)

#### Timer

Clock

Synchronized with the power frequency

Control time

24-hour cycle

Timer setting

Only for recording  
1 event/week, adjustable for any day or for  
all 7 days of the week

#### General

Power requirements

220 or 240 V  $\pm 10\%$  ac, adjustable  
50 Hz

Power consumption

55 W

Storage temperature

-20°C to +65°C (-4°F to +149°F)

Operating temperature

5°C to 40°C (41°F to 104°F)

Dimensions

Approx. 460 x 168 x 383 mm (w/h/d)  
(18 1/8 x 6 3/4 x 15 1/8 inches)  
including projecting parts and controls

Weight

Approx. 14.5 kg (32 lb)

Accessories supplied

75-ohm coaxial cable (for connecting  
recorder to TV) ..... 1  
Channel presetting label ..... 1  
Accessories optional Remote control unit RM-72 ..... 1

Design and specifications are subject to change without notice.



Beta  
**B** VIDEOCASSETTE RECORDER  
**SONY**®

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**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.

## SECTION 1 GENERAL

### 1-1. WARNING

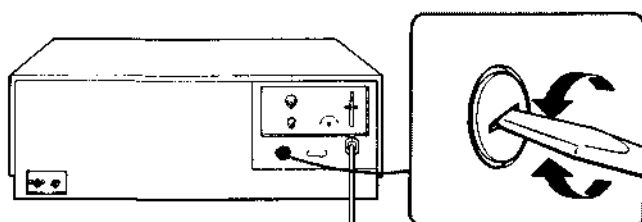
To prevent fire or shock hazard, do not expose the set to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

### OPERATING VOLTAGE OPERATING VOLTAGE

Before connecting the set to a power source, check that the voltage selector located at the rear is set to your local mains power voltage. The operating voltage is set to 220 V at the factory but can be reset to 240 V ac.

If the selector must be reset, **disconnect the mains lead** and turn the selector with a screwdriver or similar object so that the triangle points to the appropriate voltage.



### 1-2. PRECAUTIONS

#### On safety

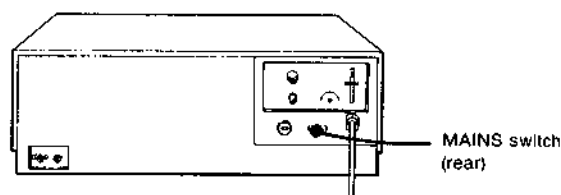
- Before connecting the set to the power source, check that the voltage selector located at the rear is correctly set to your local power line (mains) voltage.
- Do not attempt to make any of the adjustments at the small holes in the rear of the set. These are special adjustments to be performed only by qualified personnel.
- Should any solid object or liquid fall into the cabinet, unplug the machine and have it checked by qualified personnel before operating it any further.
- To disconnect the mains lead (ac power cord), pull it out by the plug. Never pull the lead itself.

#### On installation

- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- The unit is designed for operation in a horizontal position. Do not install it in an inclined position.
- Keep the unit and cassette tapes away from equipment with strong magnets, such as an electronic oven, large loudspeakers, etc.
- Do not place any heavy object on the unit.

#### On operation

- This machine should not be operated for two hours after being transported from a cold to a hot environment to avoid condensation from forming on the head drum. Condensation can cause the tape to stick to the head drum, resulting in damage to the tape.
- When the unit is not to be used for a long period of time, turn the power off to conserve energy and to extend the useful life of your unit. If you turn off the MAINS switch located at the rear, the entire circuit power, including the clock section, will be shut off.



- After playing a tape, remove the cassette from the unit. Do not transport the unit with a cassette in place.

#### On cleaning

Clean the cabinet, panel and controls with a dry soft cloth, or soft cloth lightly moistened with mild detergent solution. Do not use any type of solvent such as alcohol or benzine which may damage the finish.

#### On repacking

Do not throw away the carton and packing materials. It is an ideal container in which to transport the unit. When shipping the unit to another location, repack it as illustrated on the carton box.

#### On colour broadcasting systems

*This machine is designed to record and play back using the PAL colour standard. Recording and playback of video sources based on other colour systems cannot be guaranteed.*

If you have any questions about this unit, contact your Sony dealer.

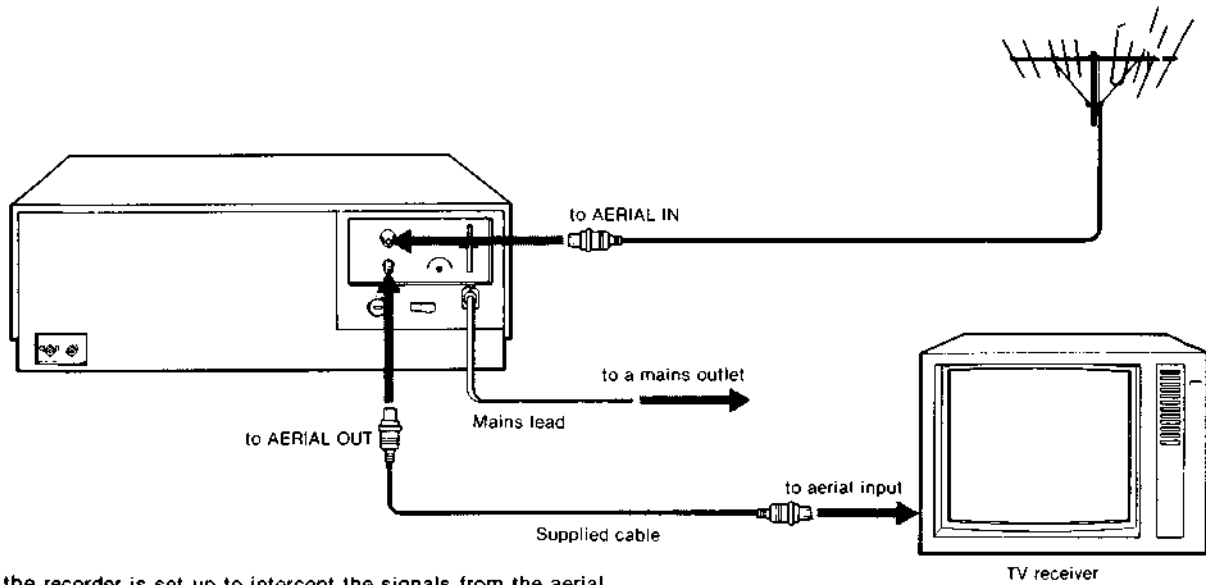
### 1-3. SYSTEM CONNECTIONS

- ❶ Unplug your TV receiver from the mains outlet, and remove the aerial cable from its socket in the back of the TV. Then connect the aerial cable to the AERIAL IN socket at the rear of the recorder.
- ❷ Connect the aerial input of the TV receiver to the AERIAL OUT socket of the recorder, using the supplied cable.

You will find that each socket accepts only one end of the cable.

- ❸ Connect the recorder and the TV receiver to the mains supply with their own mains leads.
- ❹ Set the MAINS switch to ON.

Now the recorder is in the standby mode.



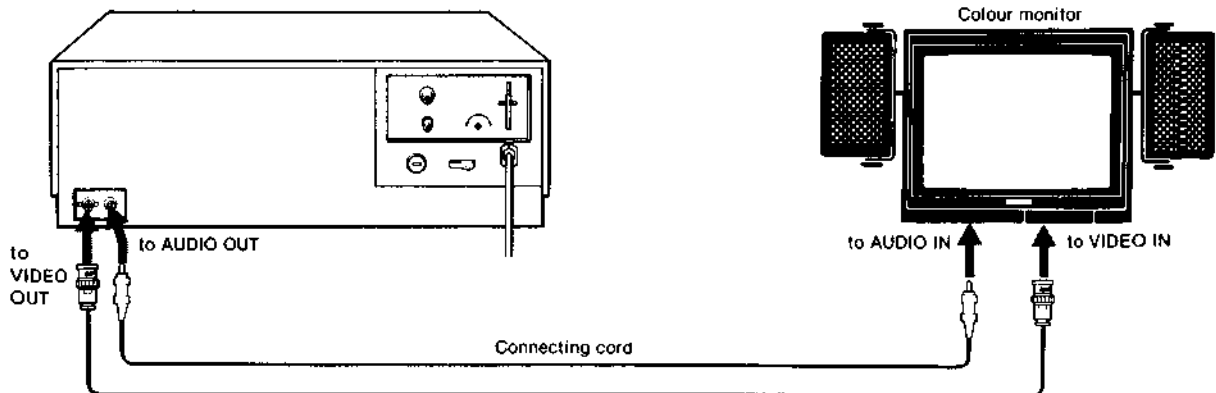
Now the recorder is set up to intercept the signals from the aerial on their way to the TV receiver. The recorder passes all the signals it receives from the aerial to the TV, even when it is recording. This is why you can record a programme when it is being shown on the TV, or when the TV is showing another programme, or even when the TV is turned off.

#### Notice for customers in strong signal area

This recorder has a booster to assure stable TV reception on the recorder and on the TV. However, in areas near the TV station, where the TV signal is very strong, the picture may be affected by the booster. If this happens, connect a commercially available attenuator to the aerial lead-in wire. For details, consult your nearest Sony dealer.

### CONNECTING A COLOUR MONITOR

To obtain a higher-quality picture, connect a colour monitor instead of a conventional TV receiver.

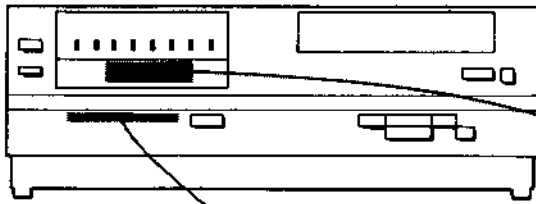


For details on the connection of the monitor, refer to the monitor instruction manual.

## 1-4. SETTING THE CLOCK

When you set the MAINS switch to ON after connecting the mains lead (ac power cord) to a wall outlet, the clock indicates "0:00" and blinks to show that it must be set.

The clock is set as follows:



<p><b>1</b> CLOCK</p> <p>Keep depressed until step 6.</p>		<p>Stops blinking.</p>
<p><b>2</b></p>	<p>DAY</p>	<p>The day indicators are numbered 1 to 7. You can designate any day of the week as Day 1. If Sunday, say, is chosen as Day 1 and you are setting the time on Tuesday, press the button until "3" lights up.</p>
<p><b>3</b></p>	<p>HOUR</p>	<p>Set the hours digit(s).</p>
<p><b>4</b></p>	<p>10MIN</p>	<p>Set the tens of minutes digit.</p>
<p><b>5</b></p>	<p>MIN</p>	<p>Set the minutes digit.</p>
<p><b>6</b> With the time signal</p> <p>Release.</p>		<p>The clock now starts operating, showing the correct time. The upper dot blinks for the first 30 seconds, and the lower dot for the last 30 seconds.</p>

**Setting the day(s), hours and minutes digits**  
The DAY, HOUR, 10MIN and MIN buttons can be pressed in two ways:



When you hold a button down, the digits will advance continuously until the button is released.



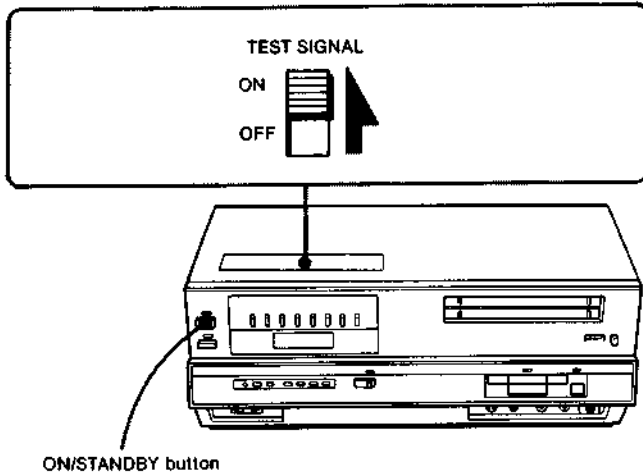
When you press and immediately release a button, the digits will advance by one.

## 1.5. TUNING THE TV AND THE RECORDER

### 1-5-1. TV ADJUSTMENT

First, adjust your TV receiver so that it is tuned to the signals from the recorder.

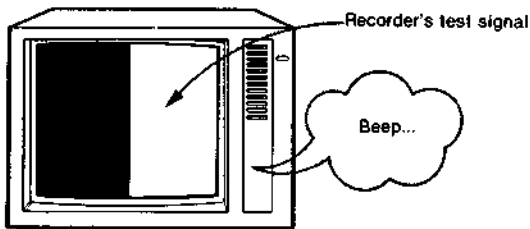
- 1 Press the ON/STANDBY button of the recorder to turn the recorder on.



- 2 Open the tuning compartment lid and set the TEST SIGNAL switch to ON.

- 3 Turn on the TV and select a channel on the TV which is not used to receive a TV station. Tune the channel until you see a clear black and white pattern on the TV screen and you hear a high-pitched tone. This is the recorder's test signal.

- If all the channels on your TV are used for receiving stations, select the channel you watch least.
- If you are not sure how to tune your TV, please refer to the TV's instruction manual or consult your dealer.



- 4 If the test picture is free of disturbance, set the TEST SIGNAL switch to OFF.

### If the test picture is not free of disturbance

There might be interference. To receive the recorder's signal on your TV without interference, proceed as follows:

- 1 Reset the TEST SIGNAL switch in the tuning compartment to OFF.

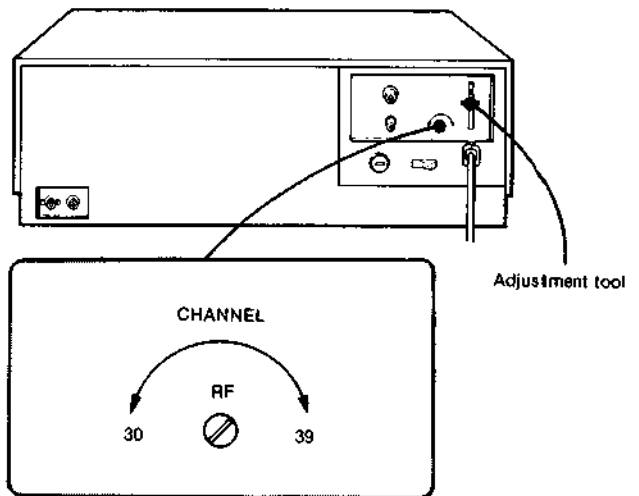
You will probably see interference or perhaps even a TV programme on the TV screen.

- 2 Adjust the channel of the TV to a channel between UHF E30 and E39 with the tuning control or the fine tuning control on the TV, so that the TV screen shows only "snow" and so that all you can hear is a steady rustling sound.

- 3 Set the TEST SIGNAL switch to ON again.

- 4 Slowly turn the RF CHANNEL screw on the back of the recorder until you see an undistorted test picture on the TV screen.

You can use the adjustment tool located to the right of the RF CHANNEL screw hole to turn the screw.



- 5 Reset the TEST SIGNAL switch to OFF.

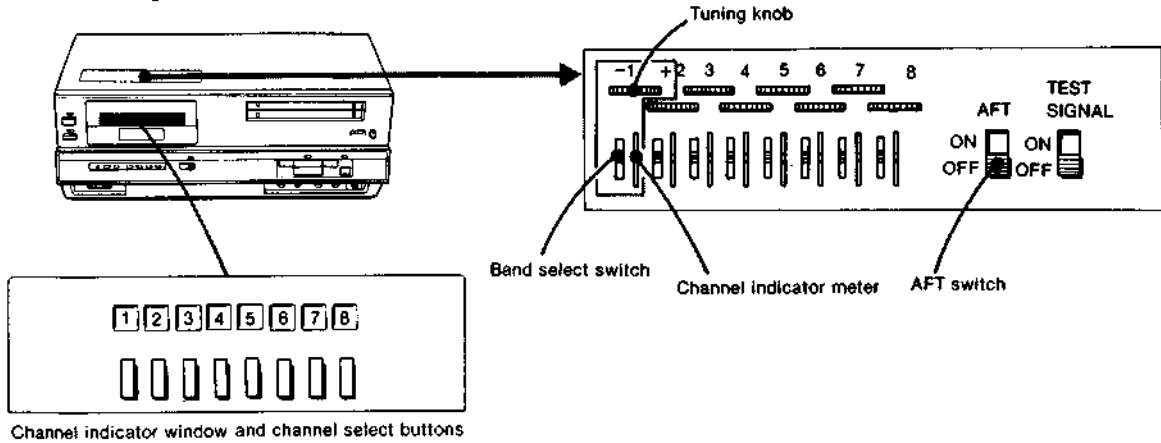
Now your TV receiver is tuned to the recorder. Whenever you use the video recorder, you should set the TV to the channel which you have chosen above.

### 1-5-2. RECORDER CHANNEL PRESETTING

Once you have tuned your TV to the recorder, the next step is to tune the recorder to all the TV stations that you can receive in your area.

Up to 8 TV stations can be preset in any order.

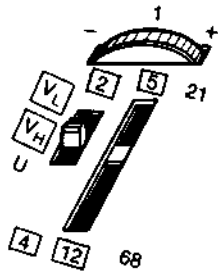
#### Location of the tuning controls



#### Presetting procedure

- ① Make sure that the TV and the recorder are turned on.
- ② Check that no line is connected to the connectors on the front panel.
- ③ Open the tuning compartment lid and set the AFT switch to OFF.
- ④ Press the channel select button to be preset. The corresponding channel indicator lamp will light.
- ⑤ Set the band select switch for that button to one of the three positions:

to tune in channel E21 through E68 ... set to U  
 to tune in channel E5 through E12 ..... set to  $V_H$   
 to tune in channel E2 through E4 ..... set to  $V_L$



- ⑥ Turn the tuning knob until the desired station is properly tuned in.

The channel indicating meter provides a visual indication of the approximate location of the tuning knob within the operating range of the band select switch.



When the picture appears, slowly turn the tuning knob to the right until a herringbone pattern appears in the coloured part of the picture, then turn the knob back until the picture is perfectly clear.



Turn the knob to the right until the herringbone pattern appears.



Turn it in the opposite direction until the herringbone pattern just disappears.

⑦ Repeat steps ④, ⑤ and ⑥ for all the other channels.

To identify the channels, consult a newspaper or TV programme guide.

⑧ Set the AFT switch to ON when all the stations have been set up, then close the lid of the tuning compartment.

You can now fully utilize the recorder without ever having to touch this compartment again.

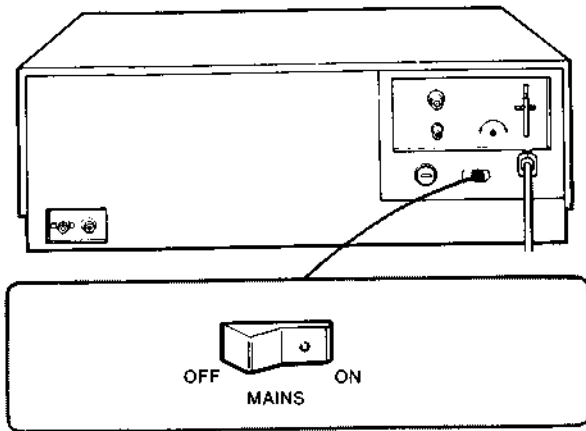
Your video system is now ready to record TV programmes and to play back recorded materials.



## 1-6. TURNING THE RECORDER WATCHING TELEVISION ON AND OFF

Normally, keep the MAINS switch ON and turn the recorder on and off with the ON/STANDBY button.

The MAINS switch is the mains power on/off switch. When this switch set to OFF, the power supply to all sections in the machine, including the clock section, will be shut off and the timer memory will be erased. The TV will not operate in this situation, because the TV signal will not be fed to the TV. If you keep this switch set to ON, the clock section will be always powered and the other sections can be turned on and off with the ON/STANDBY button.



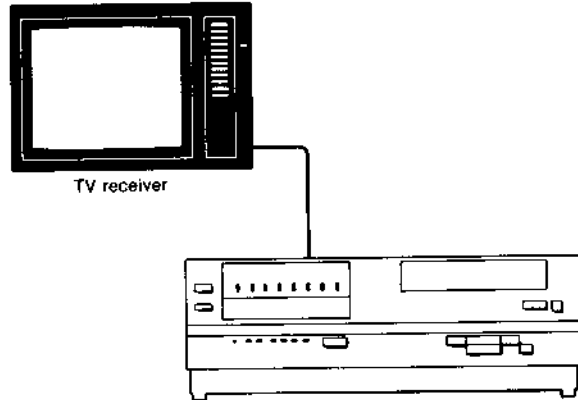
Before operation, make sure that the TIMER REC button is not depressed.

**TV...** You can view the TV normally even when the recorder is connected.

① Make sure that the MAINS switch is set to ON.

The ON/STANDBY button is in the standby mode.

② Turn on the TV and select the desired channel with the TV's own channel selector.

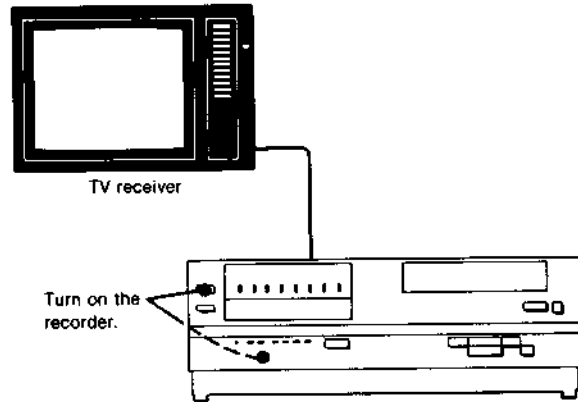


**TV + VTR...** You can also watch television with the recorder's channel select buttons.

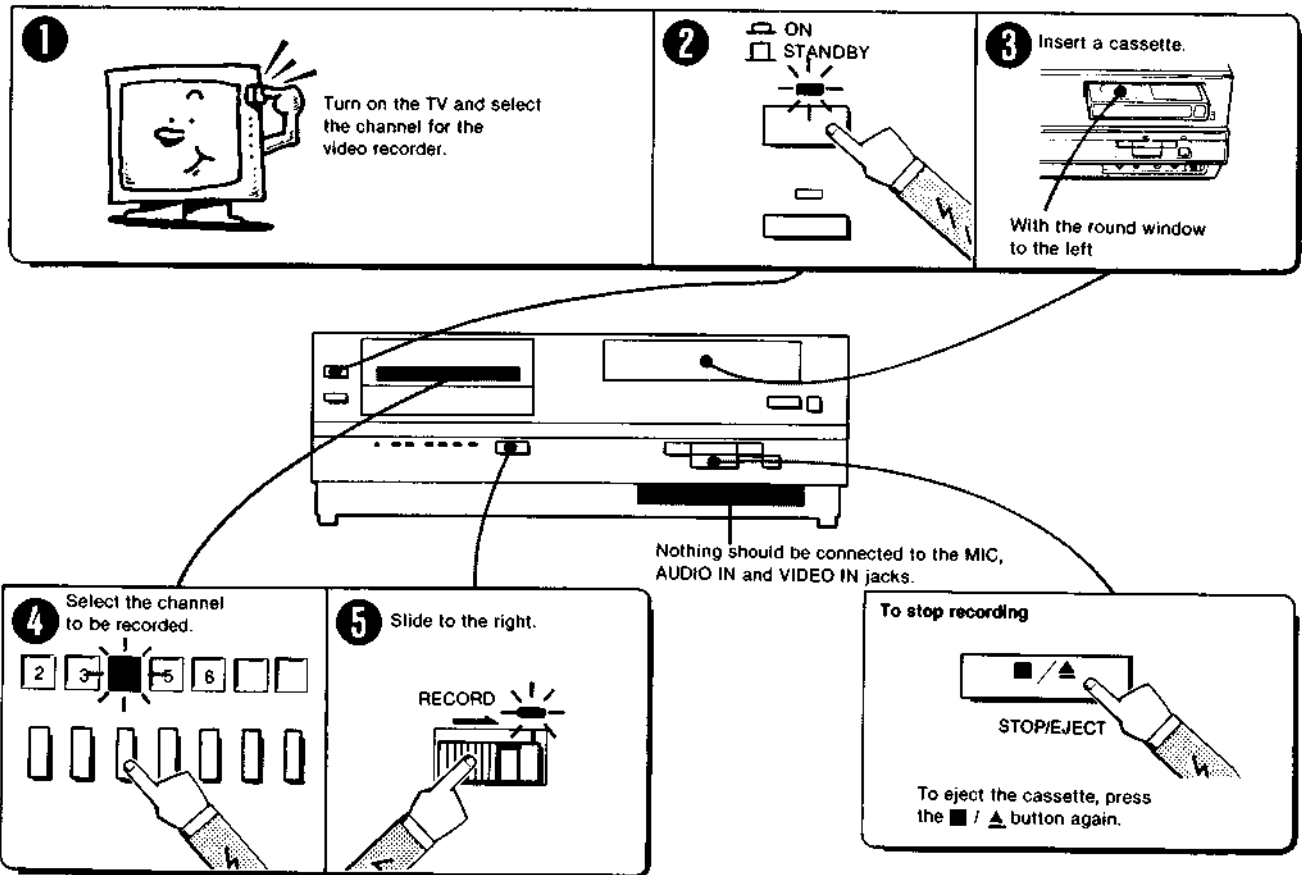
① Turn on the TV and select the channel for the video recorder.

② Press the ON/STANDBY button to turn on the recorder.

③ Select the desired channel with the recorder's channel select buttons.



## 1-7. HOW TO RECORD TV PROGRAMMES



### To stop the tape momentarily

Press the **II** button. The lamp above the button will light. The TV programme can be seen on the TV, but the picture will not be recorded.

To resume recording, press the button again.

To protect the video heads and the tape, the pause mode will be automatically released after about 8 minutes and recording will resume.

### To avoid erasing a recording

Break off the safety tab using a screwdriver or similar object.

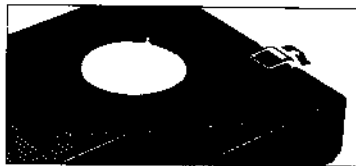


### TO KEEP A RECORDED PROGRAMME FROM BEING ACCIDENTALLY ERASED

When a new recording is made on a previously recorded cassette, the previous recording will be automatically erased.

### To re-record on a cassette which has had its safety tab removed

Cover the hole with a piece of plastic tape.



### RECORDING ONE TV PROGRAMME WHILE VIEWING ANOTHER

You can record a TV programme selected on the recorder while viewing another TV programme.

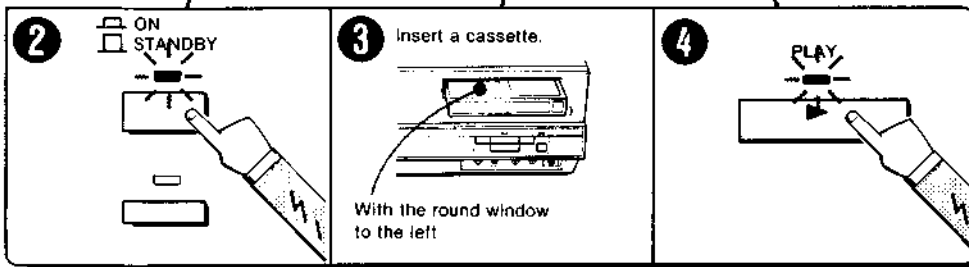
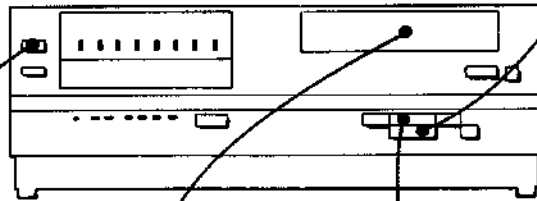
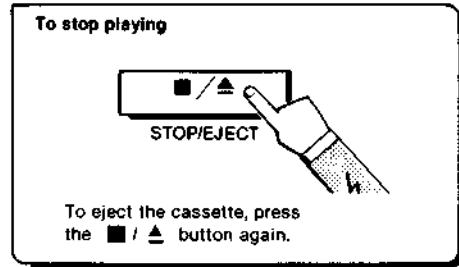
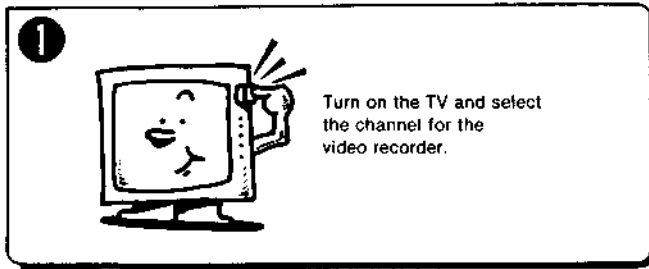
- ① Start recording the desired TV programme in the usual way.
- ② Select the channel you want to view on the TV.

### Caution

Television programmes, films, video tapes and other materials may be copyrighted.

Unauthorized recording of such material may be contrary to the provisions of the copyright laws.

## 1-8. HOW TO PLAY BACK A RECORDED TAPE



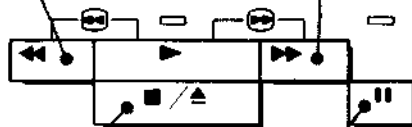
### USE OF FUNCTION BUTTONS

**◀◀ (rewind) button**

Press to rewind the tape. This is also used for the backward picture search operation.

**▶▶ (fast forward) button**

Press to advance the tape rapidly. This is also used for the forward picture search operation.



**■ / ▲ STOP/EJECT button**

Press to stop the tape. Press again to eject the cassette.

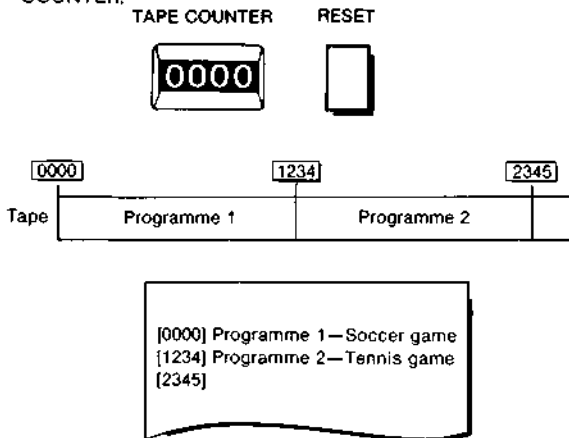
**|| PAUSE button**

Press to stop the tape for a moment during playback. The lamp above the button will light. A still picture will be seen on the TV screen. To resume playback, press the button again. The pause mode will be automatically released after about 8 minutes, as in the record mode.

## 1-9. HOW TO LOCATE A PARTICULAR SCENE

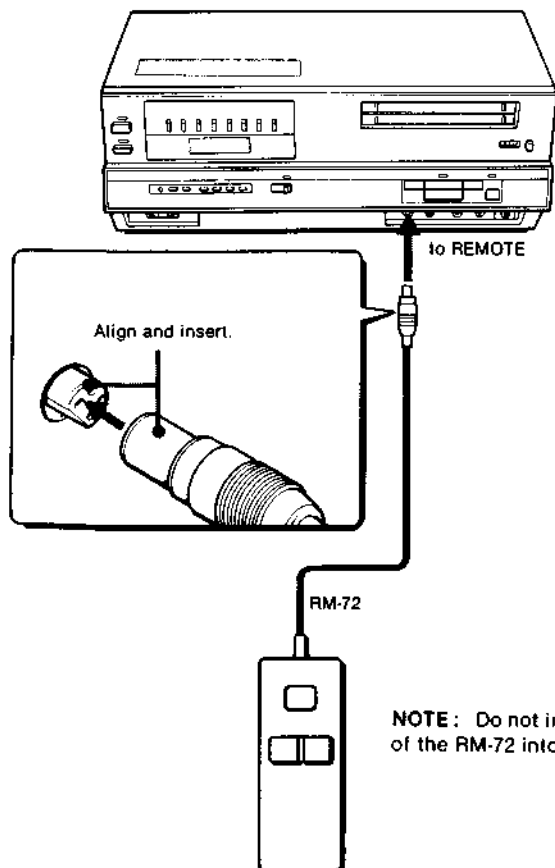
**USING THE TAPE COUNTER ...**To reference a recorded programme numerically

Before starting recording or playback, press the RESET button so that the TAPE COUNTER indicates "0000". The counter numbers change as the tape moves. Note the counter reading at the points of interest. You can easily find these points later by referring to the TAPE COUNTER.



**REMOTE CONTROL OPERATION ...**For pause and picture search operation

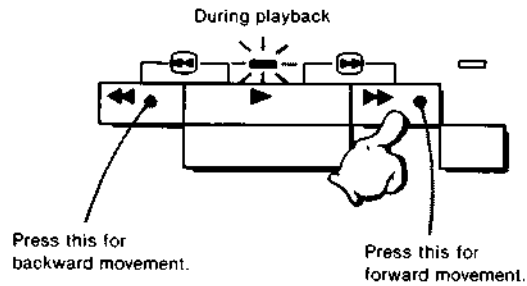
With the optional RM-72 remote control unit, you can set the recorder into the pause mode from the record or playback mode, and the picture search mode from the playback mode.



**NOTE:** Do not insert a connector other than the 4-pin plug of the RM-72 into REMOTE.

**PICTURE SEARCH ...**To search for a particular point while viewing the picture

For picture search operation, the recorder should be set in the playback mode.



At the desired point, release the button. The normal playback will resume.

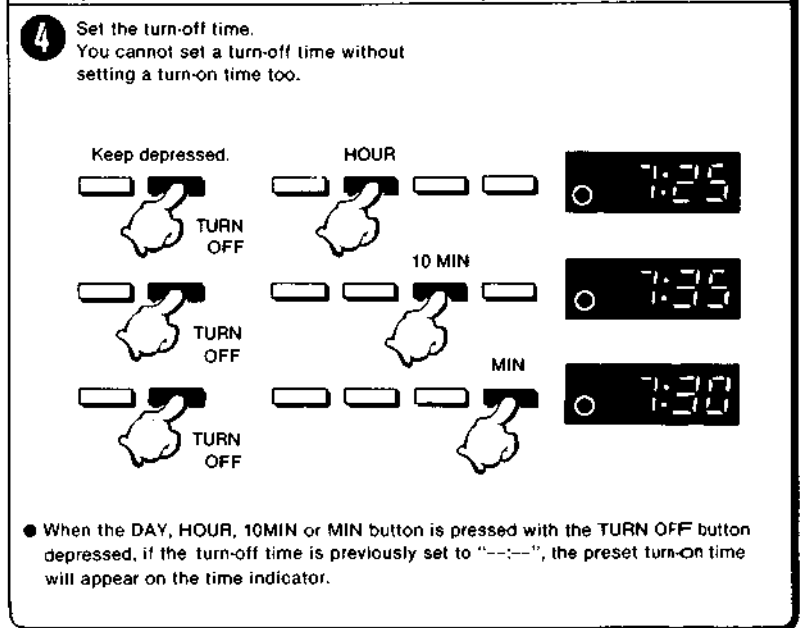
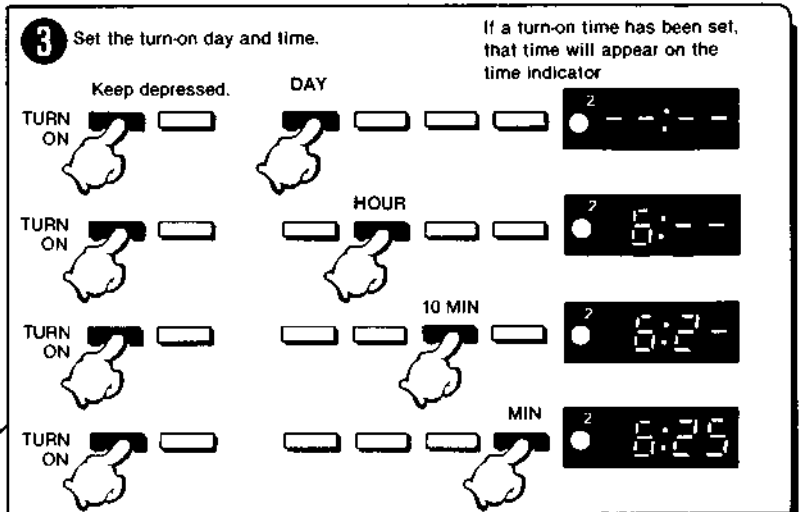
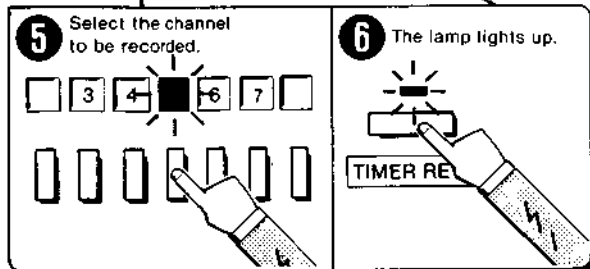
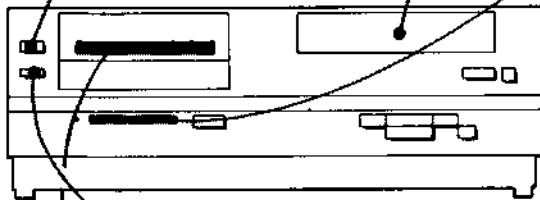
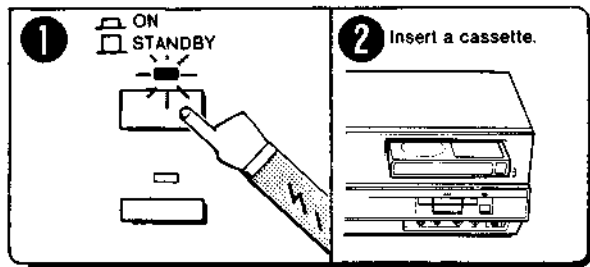


Streaks will appear during the picture search operation.

**NOTE:** Sound cannot be heard during the picture search operation.

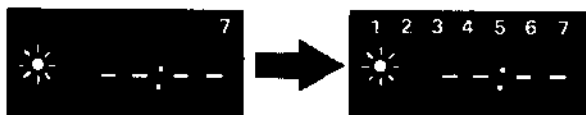
### 1-10. TIMER-ACTIVATED RECORDING

The timer can only be used to start and stop recording. You can set a turn-on time and a turn-off time for recording any day of the week or every day of the week. For details how to set the timer, see page 6.



At the preset turn-on time, the recording will start automatically and will continue to the preset turn-off time or to the end of the tape, at which time the recorder will be automatically turned off.


To record a programme at the same time everyday, press the DAY button after the last number, "7", lights so that all the indicators from 1 to 7 light. The timer-activated recording will be made everyday at the same time if you leave the TIMER REC button depressed, as long as the tape lasts.



To record to the end of the tape, set the turn-off time to "--:--". To set to "--:--", set the turn-off time at the same time as the preset turn-on time. "--:--" will appear on the time indicator when the TURN OFF button is pressed for checking. Recording will continue to the end of the tape and the recorder will automatically turn off at that time.

**NOTICE:** ONCE THE TIMER REC LAMP HAS LIT UP, NO FUNCTION OF THE RECORDER CAN BE ACTIVATED, except the timer section settings. To operate the recorder after setting the timer for recording, depress the TIMER REC button to release it.

If the TIMER REC lamp does not light when you depress the TIMER REC button, check the following:

- Did you insert a cassette?
- Does the cassette inserted have a safety tab on the bottom?
- Did you interrupt a timer-activated recording by pressing the  button? (See "To stop a timer-activated recording")


**Checking the timer setting**

Press the TURN ON button to check the turn-on day/time and the TURN OFF button to check the turn-off time. You can reset the turn-on day/time and turn-off time separately, if necessary.

When the timer-activated recording is finished, press the TIMER REC button to release it.

If you leave the TIMER REC button depressed, the timer recording will be activated at the same time on the same day of the next week, as long as tape remains.

**To stop a timer-activated recording,**

press the  button and the recorder will be turned off. To set the unit to make the next timer recording on the same cassette, remove the cassette and insert it again. (If this is not done, the TIMER REC lamp will not light even if the TIMER REC button is pressed.)

For other operations, first press the TIMER REC button to release it, then press the ON/STANDBY button to turn on the recorder.

**WHEN A POWER INTERRUPTION OCCURS**

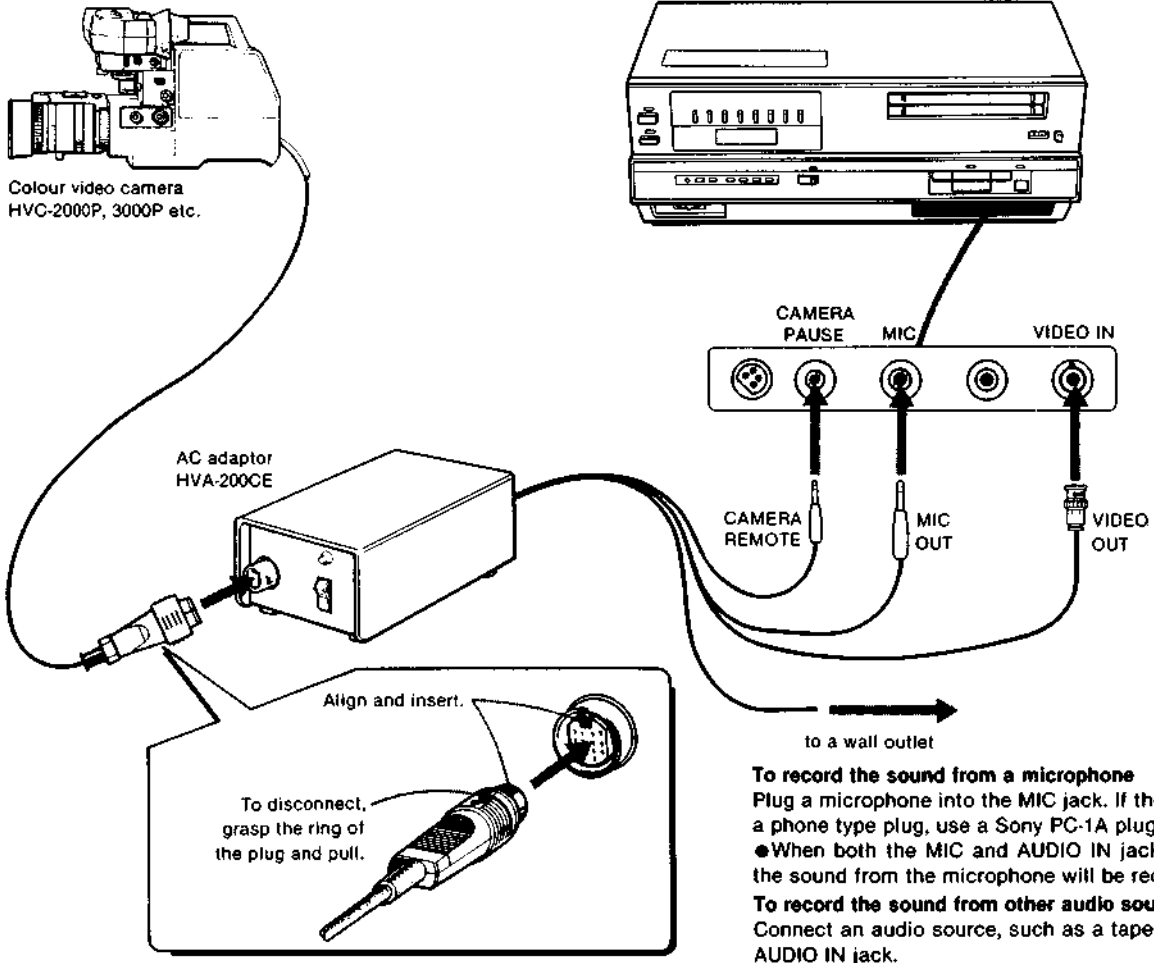
If the clock shows "0:00" and blinks all the timer settings have been erased. Reset the clock time and the timer settings.

If the clock still shows the correct time but the dots blink the power has been interrupted for less than 30 seconds, and the timer programmes are retained in the memory. To stop the dots' blinking, press the CLOCK button.

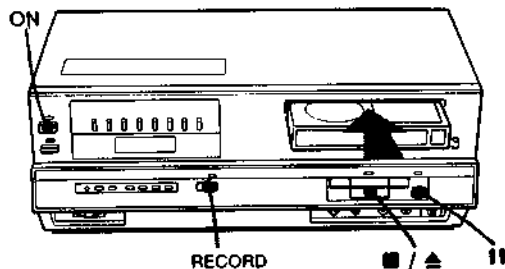
## 1-11. CAMERA RECORDING (For producing your own programmes)

### CONNECTIONS

- The camera must conform to CCIR TV standards (PAL colour).



### OPERATION



- Press the ON/STANDBY button to turn on the recorder and insert a cassette.
- ② Turn on the power switch on the ac adaptor.
- ③ Make the necessary adjustments on the camera. See the instruction manual furnished with the camera.
- ④ Slide the RECORD button to the right. Recording will begin.
- If a camera with a tape run/stop button is used, you can momentarily stop recording and restart it using that button.
- If any other camera is used, use the ■ button on the recorder or the PAUSE button on the remote control unit to stop the recording momentarily and restart it.

When the recording is finished, press the ■ / ▲ button.

### To view the picture being recorded on the TV screen

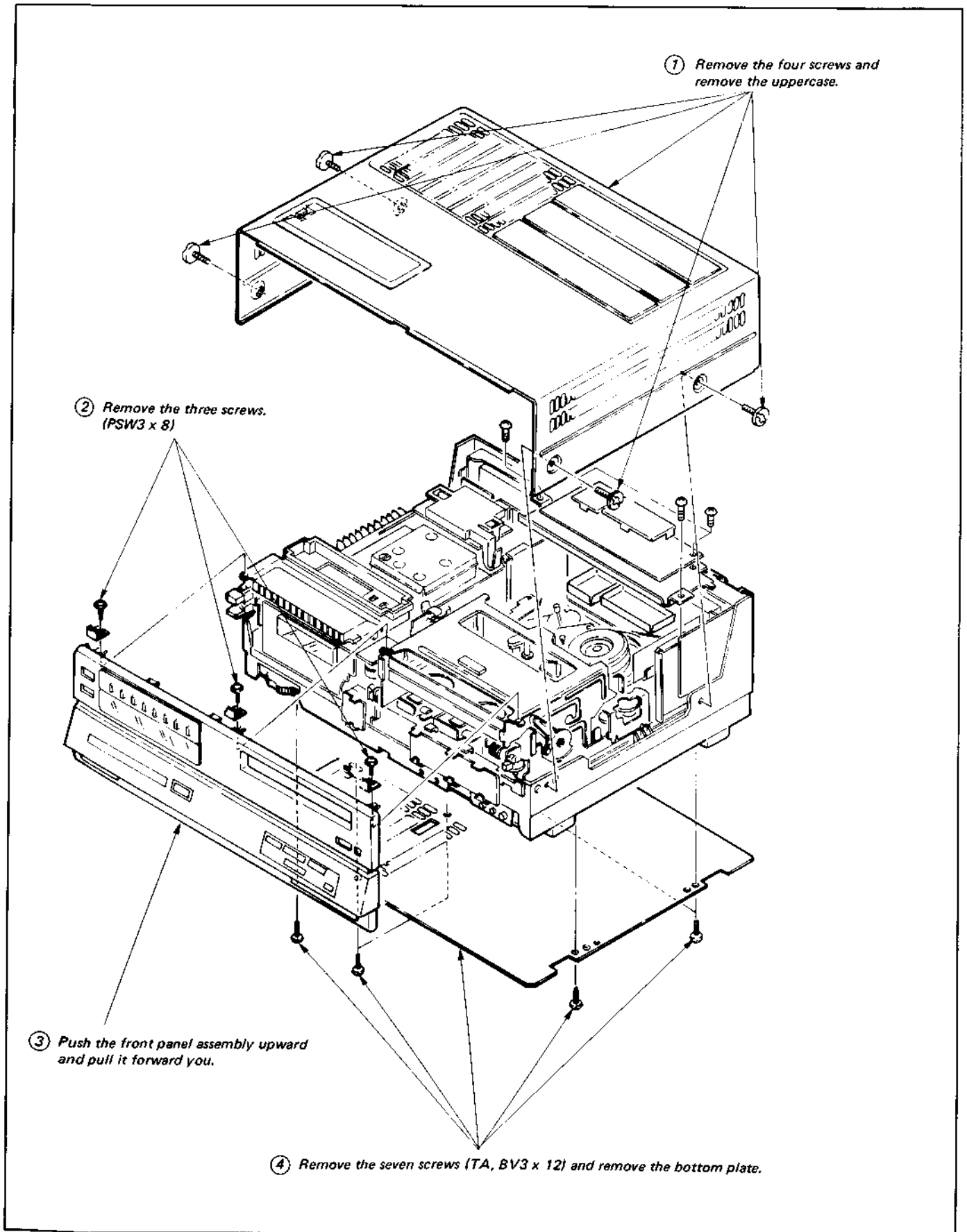
- ① Turn the connected TV on.
- ② Select the channel for the video recorder on the TV. The picture being recorded will appear on the TV screen.
- If acoustic feedback (a whistle-like sound) is heard when the microphone sound is recorded, turn the microphone (or the camera, if the microphone is built into the camera) away from the TV or turn down the TV volume.

### Note

If the input signal level from the VIDEO IN connector is more or less than the required level, you may see a distorted picture or hear a buzzing sound when you monitor the picture on a television or on a monitor screen during camera recording. In this case the picture will still be properly recorded and can be played back without distortion.

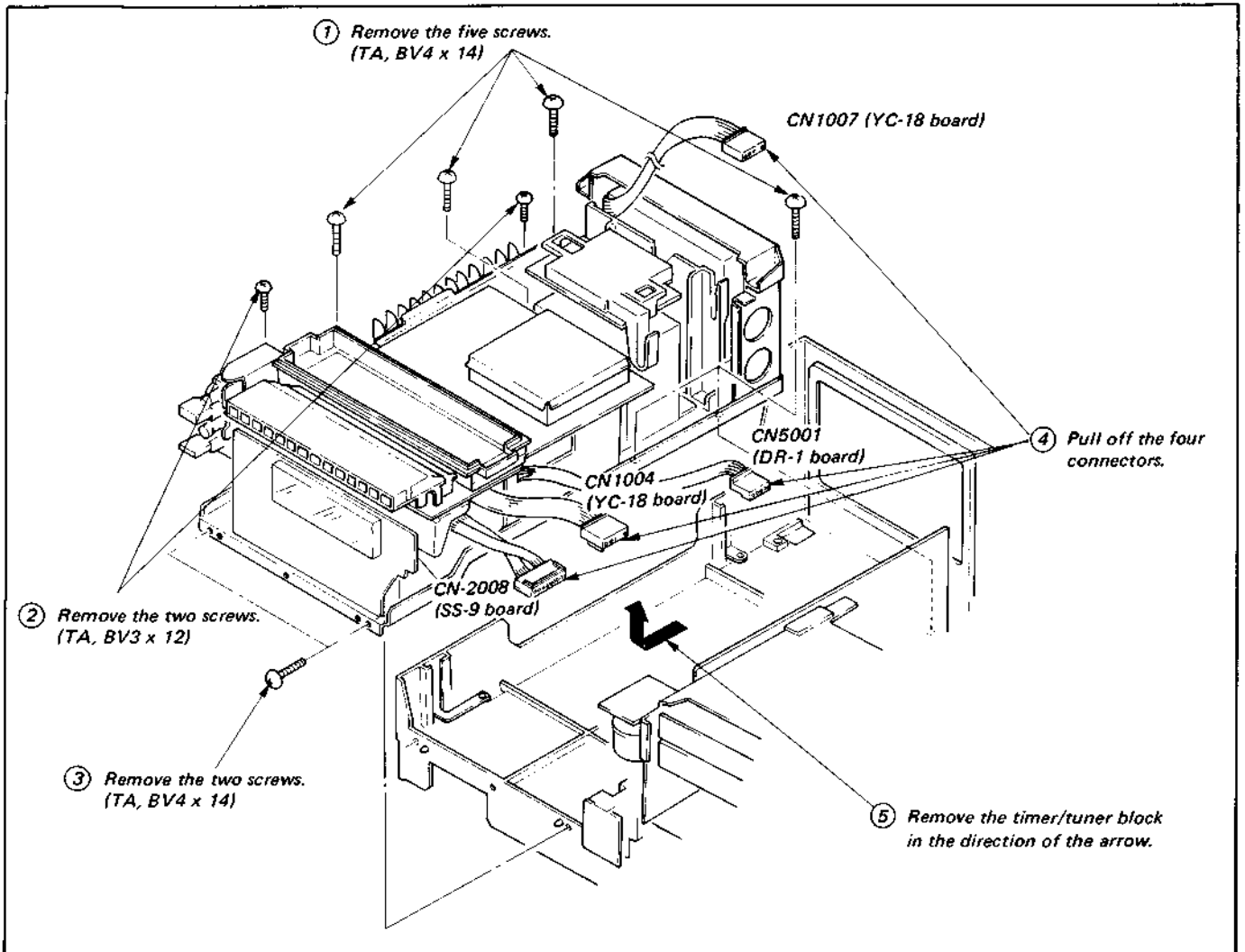
## SECTION 2 DISASSEMBLY

### 2-1. CABINET REMOVAL

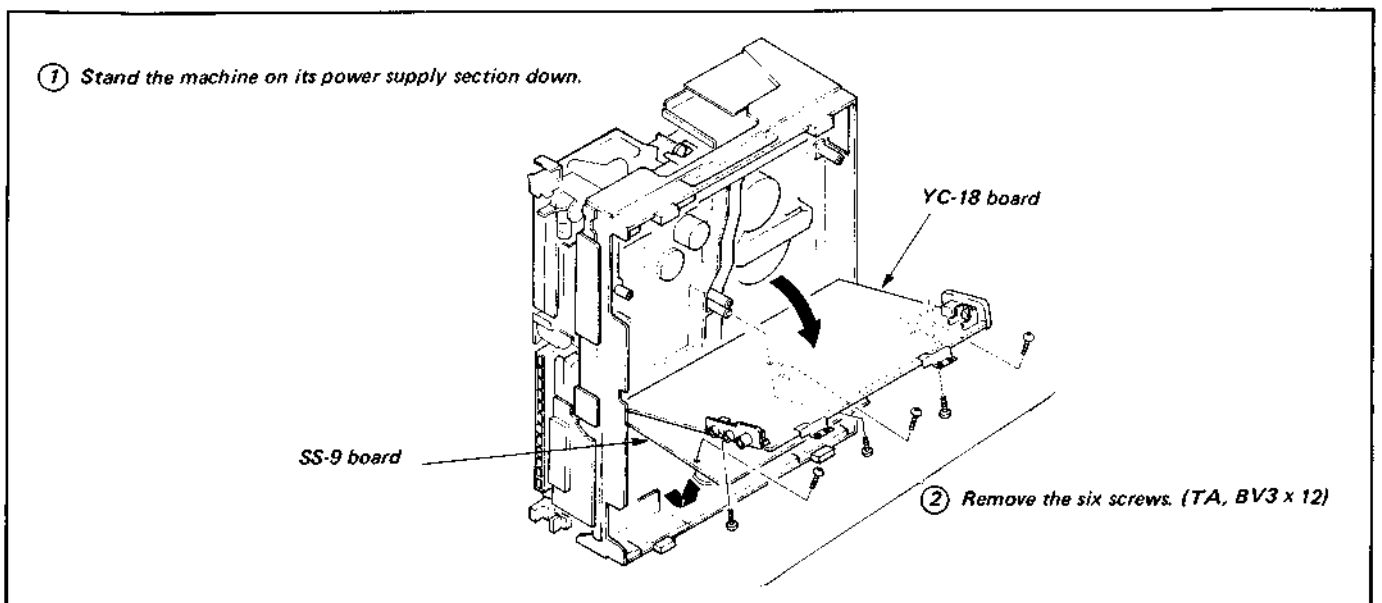




## 2-2. TIMER/TUNER BLOCK REMOVAL



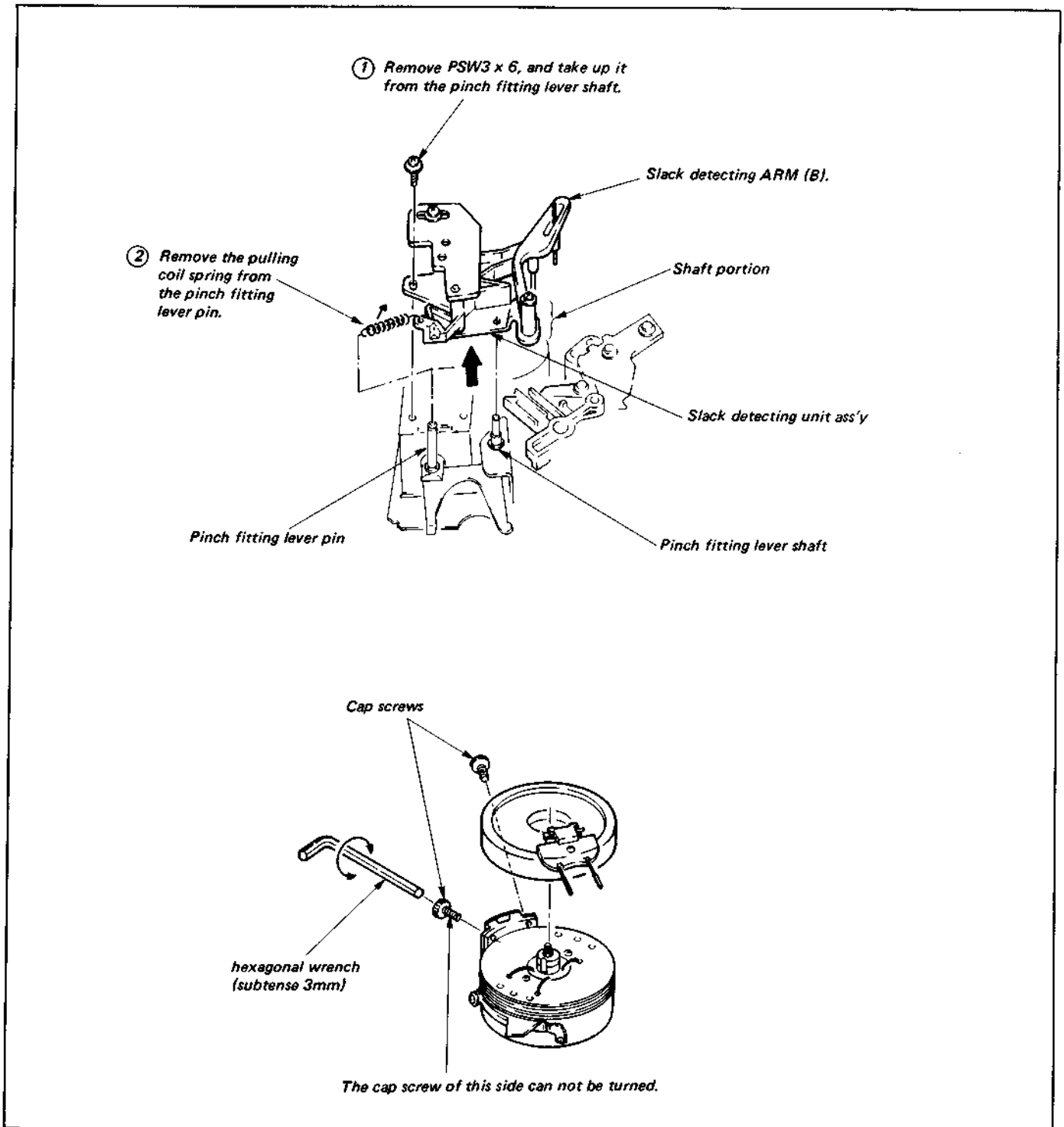
## 2-3. CHECK OF YC-18 AND SS-9 BOARDS



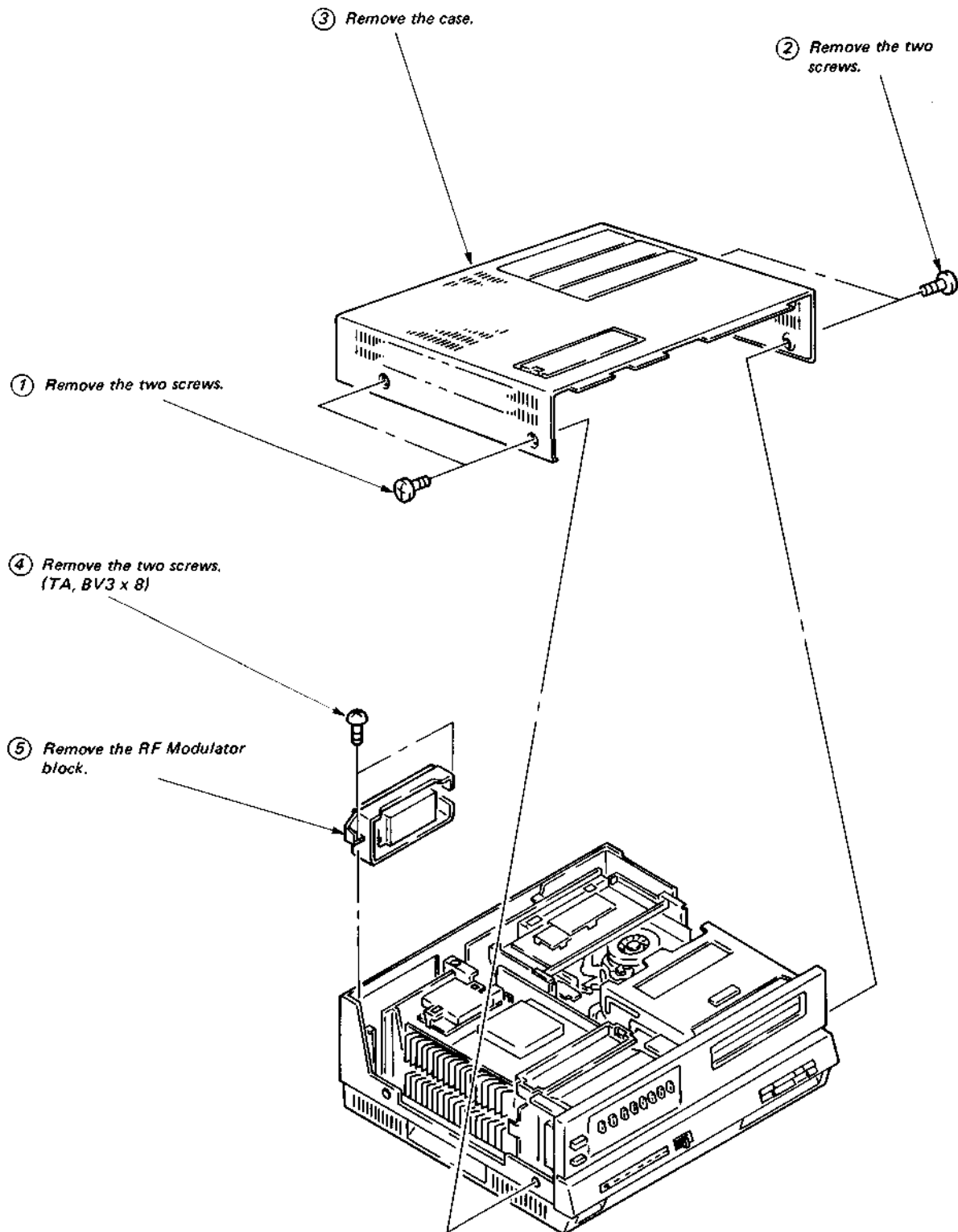
## 2-4. UPPER DRUM REMOVAL

As illustrated below, in the case that the cap screws are removed to adjust the cylindrical degree and to replace RD for maintenance service, Remove them by the hexagonal wrench (Subtense 3 mm) after removing the ASS'Y of the slack detecting unit.

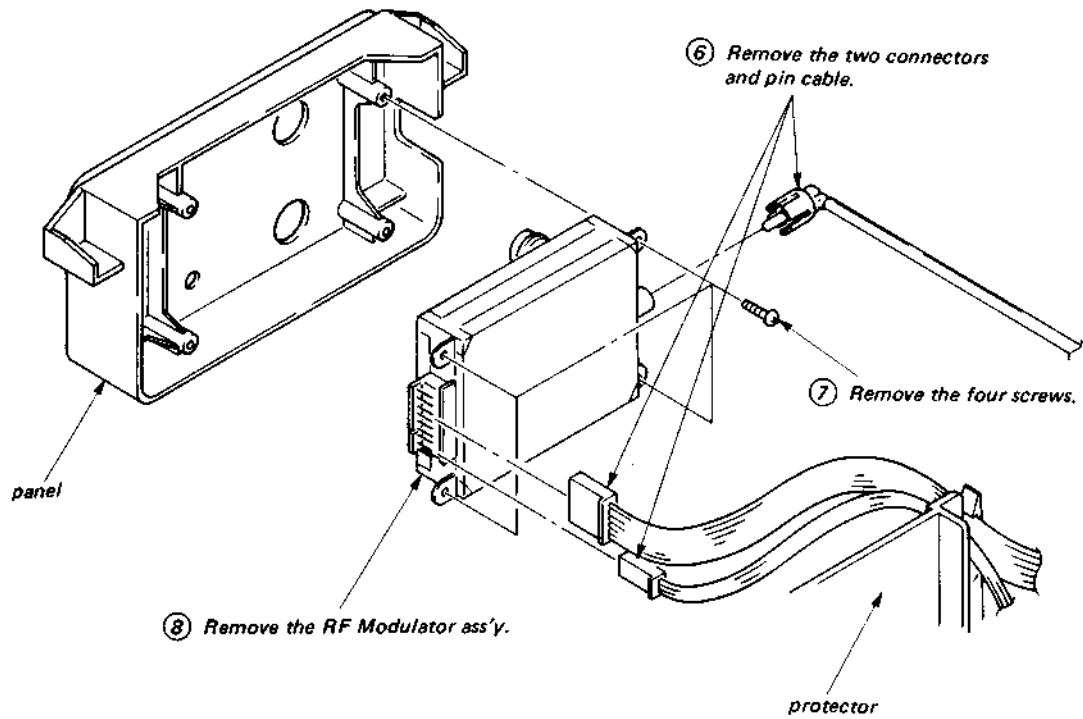
It is due to the reason why the cap screw can not be turned so that the hexagonal wrench may touch to the shaft portion of the slack detecting arm (B).



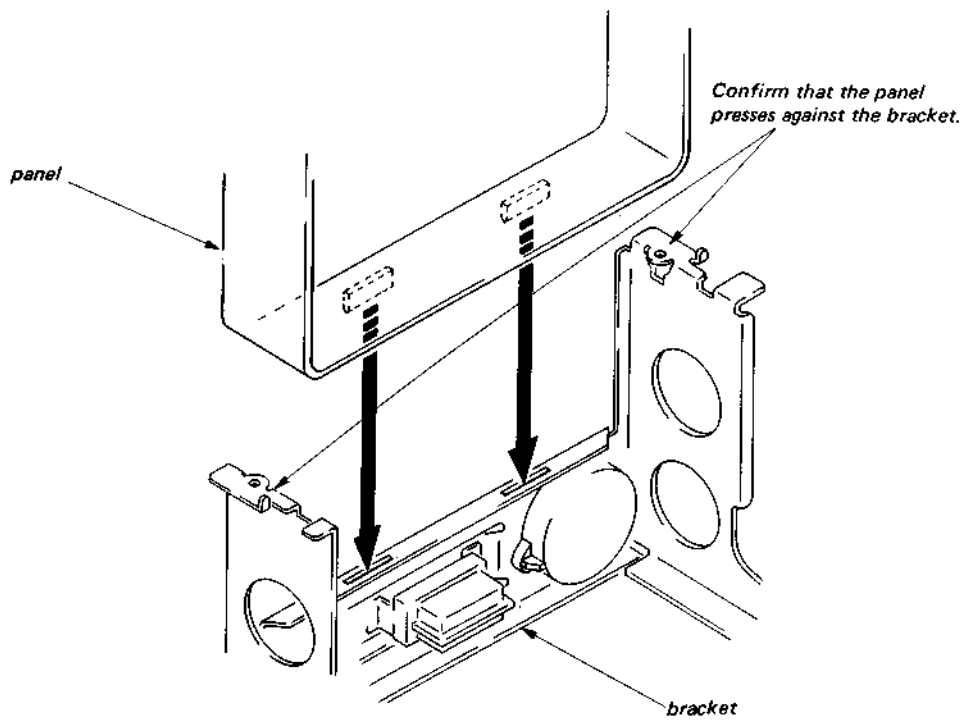
## 2-5. REMOVE THE RF MODULATOR ASS'Y (1)



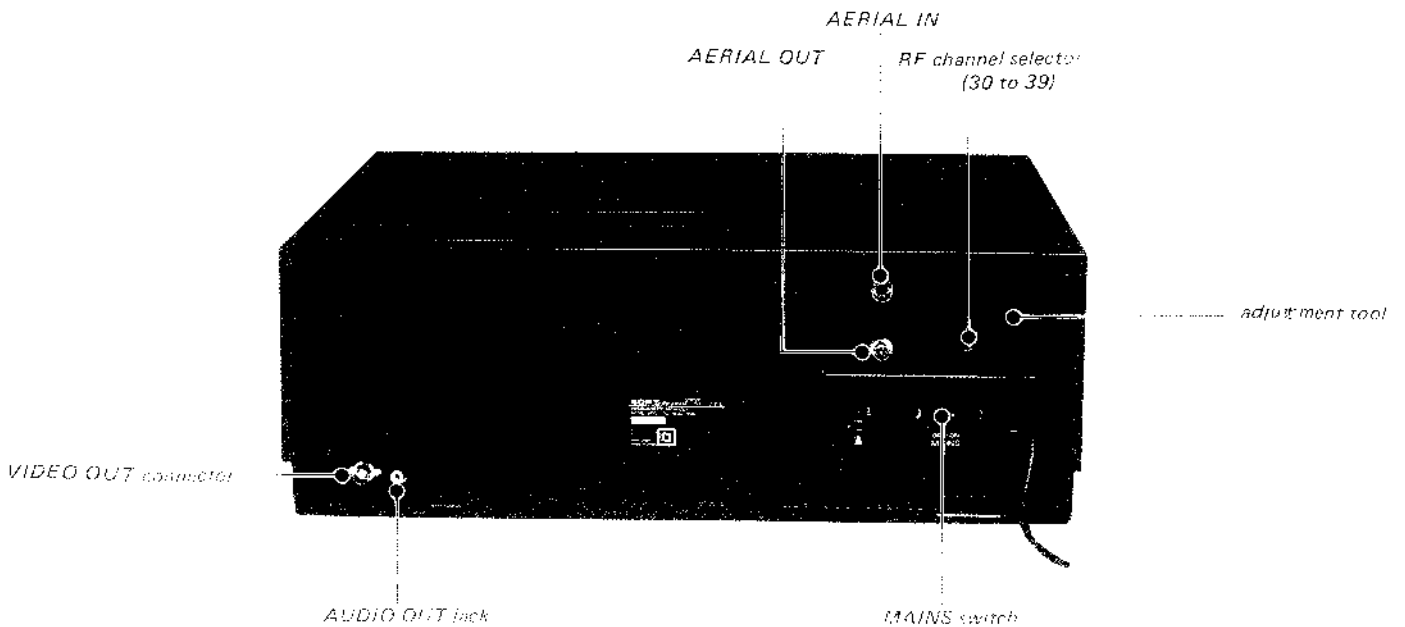
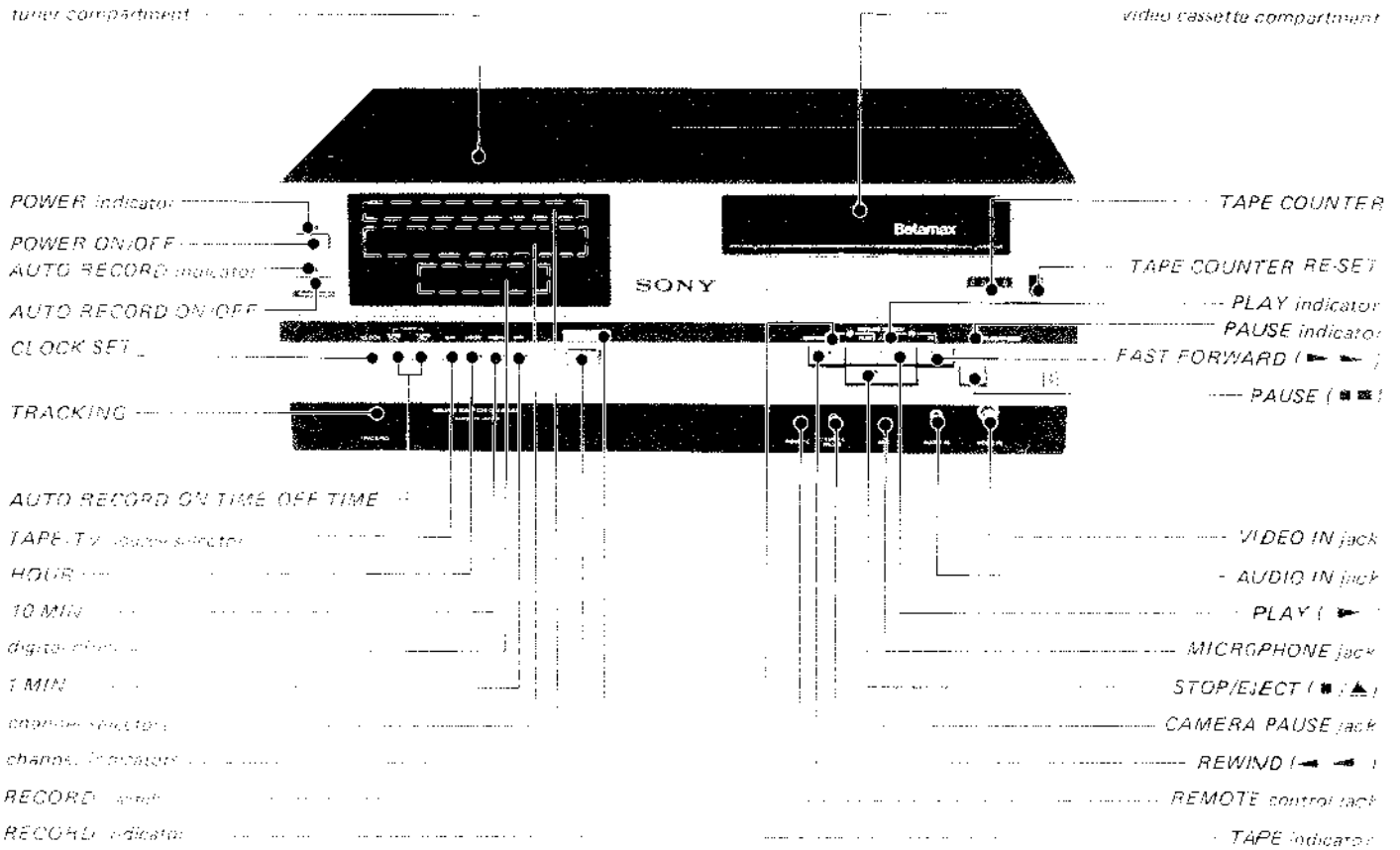
**2-6. REMOVE THE RF MODULATOR ASS'Y (2)**



**2-7. REMOVE THE RF MODULATOR ASS'Y (3)**



2-8. LOCATION OF PARTS AND CONTROLS



RING, threading

FAN

FWD sensor

A.C.E head

BELT, Fwd

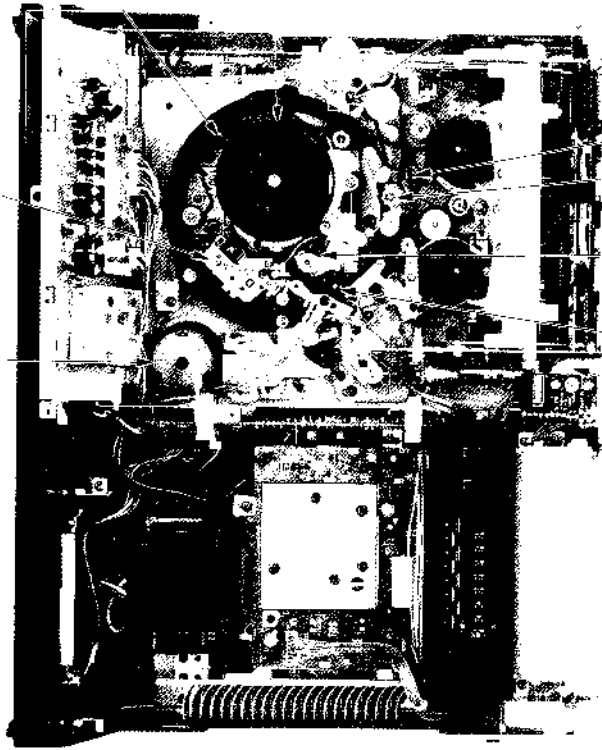
PINCH roller

FULL track head

MOTOR, capstan

REW sensor

MOTOR, F.L



SWITCH, limit

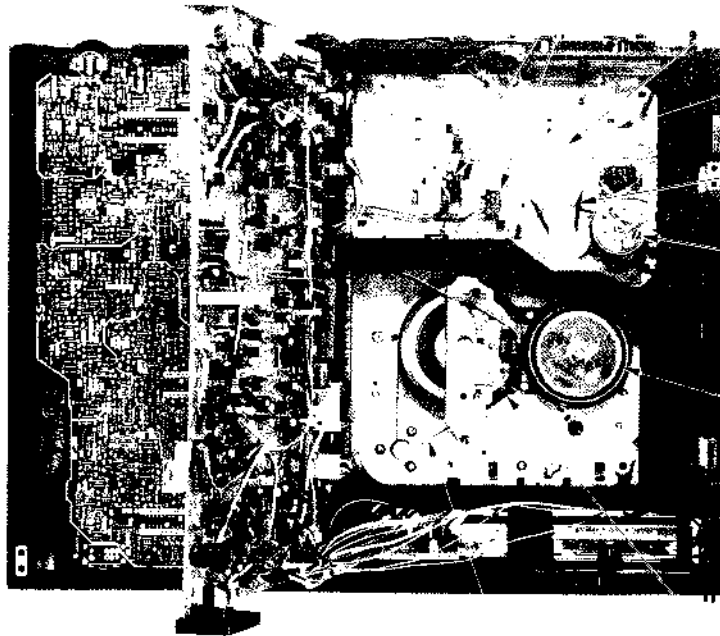
BULB (LARGE), FF

SLIDE, stop

BELT, FF

MOTOR, FF

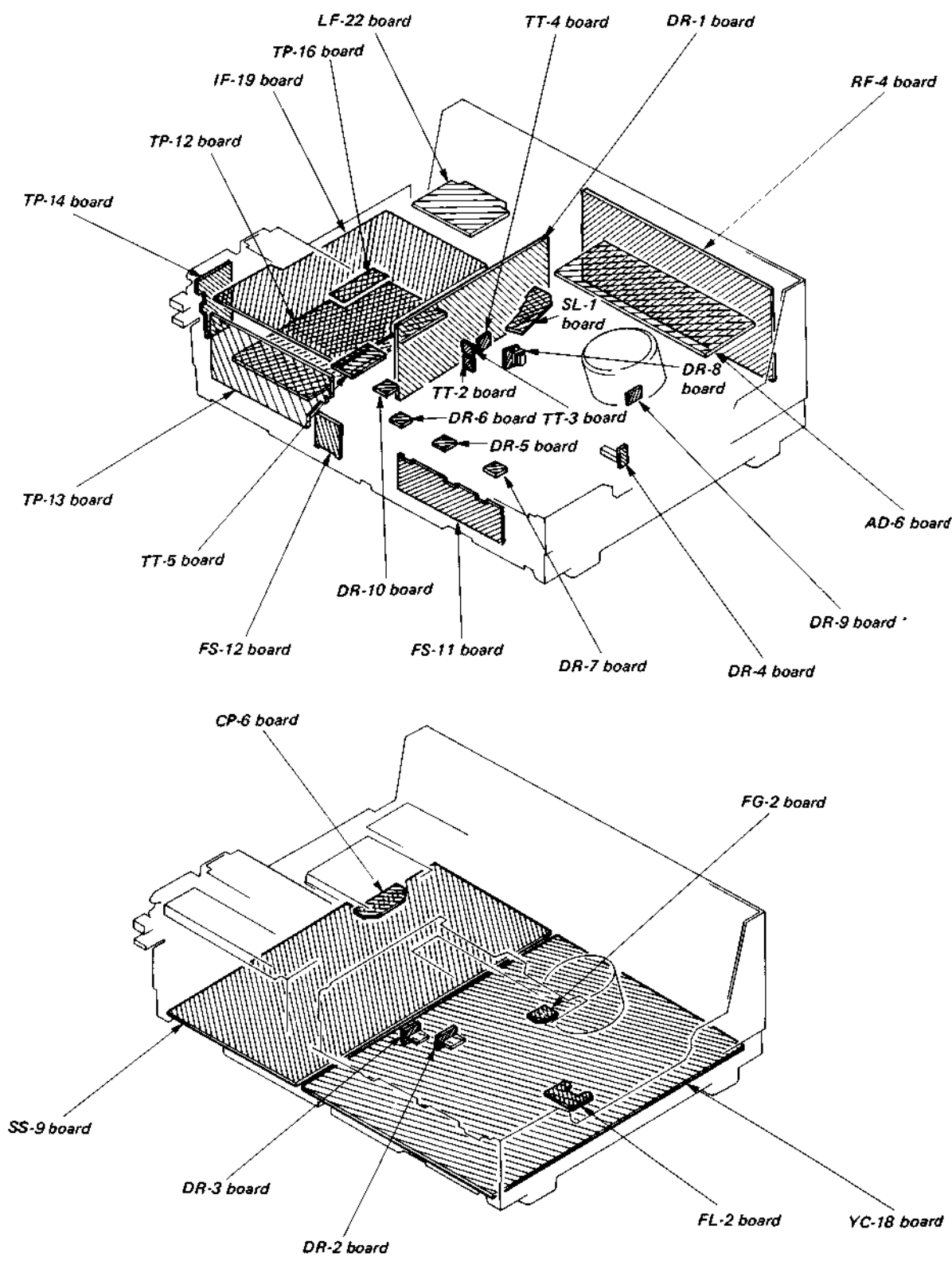
ROTOR 'DRUM motor'



CAPSTAN belt

CAPSTAN BLOCK ASSEMBLY

### CIRCUIT BOARDS LOCATION

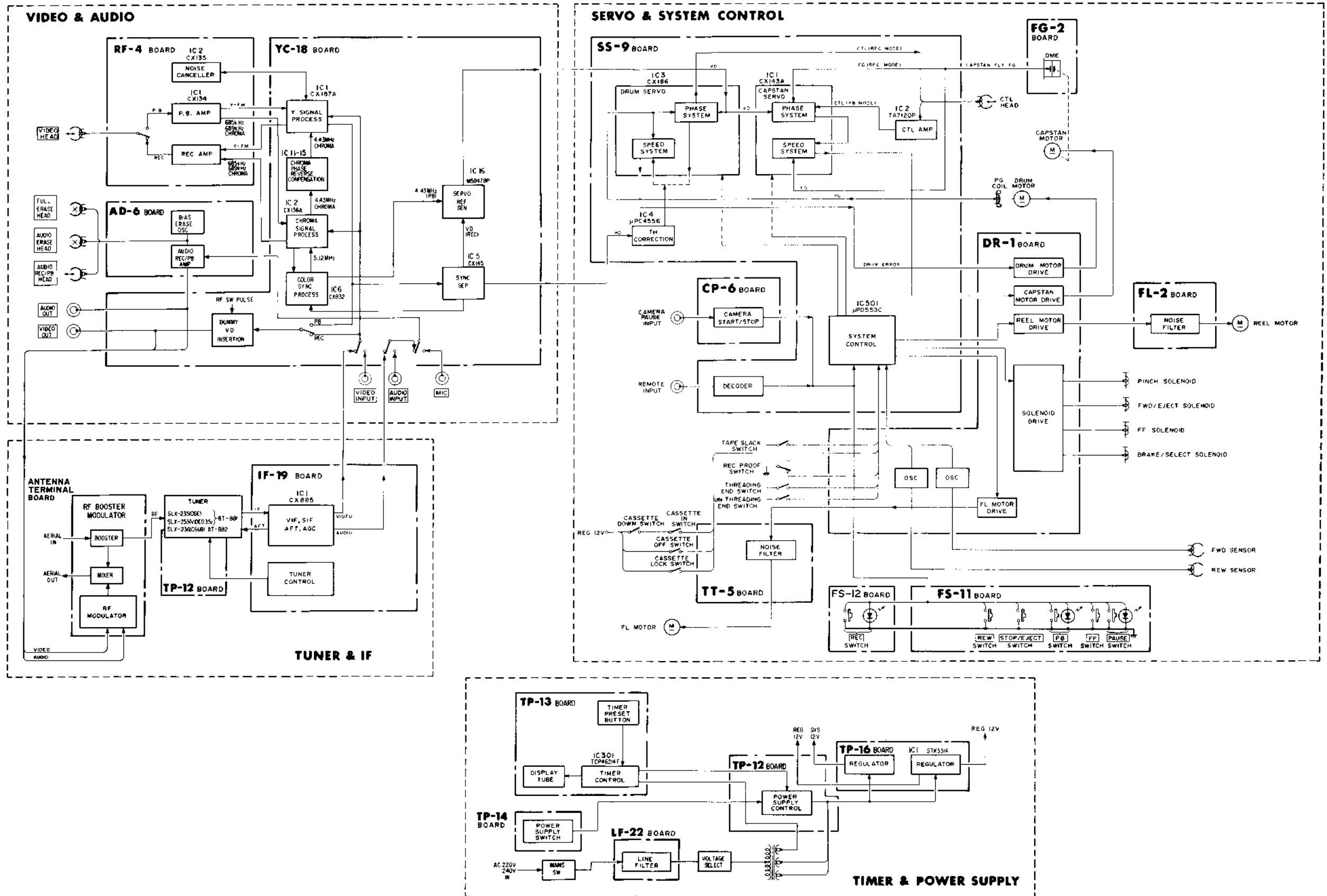




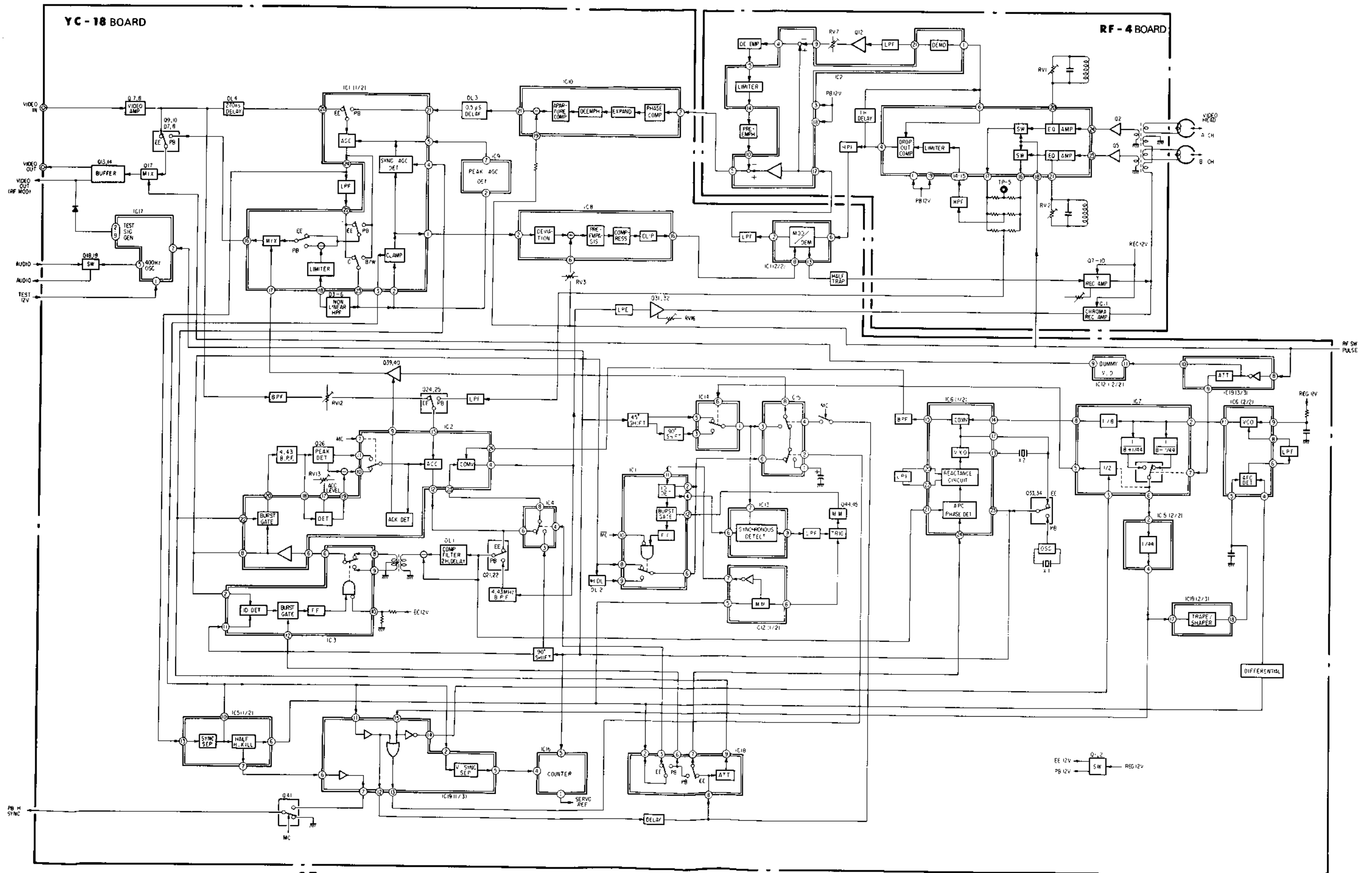


# SECTION 3 BLOCK DIAGRAMS

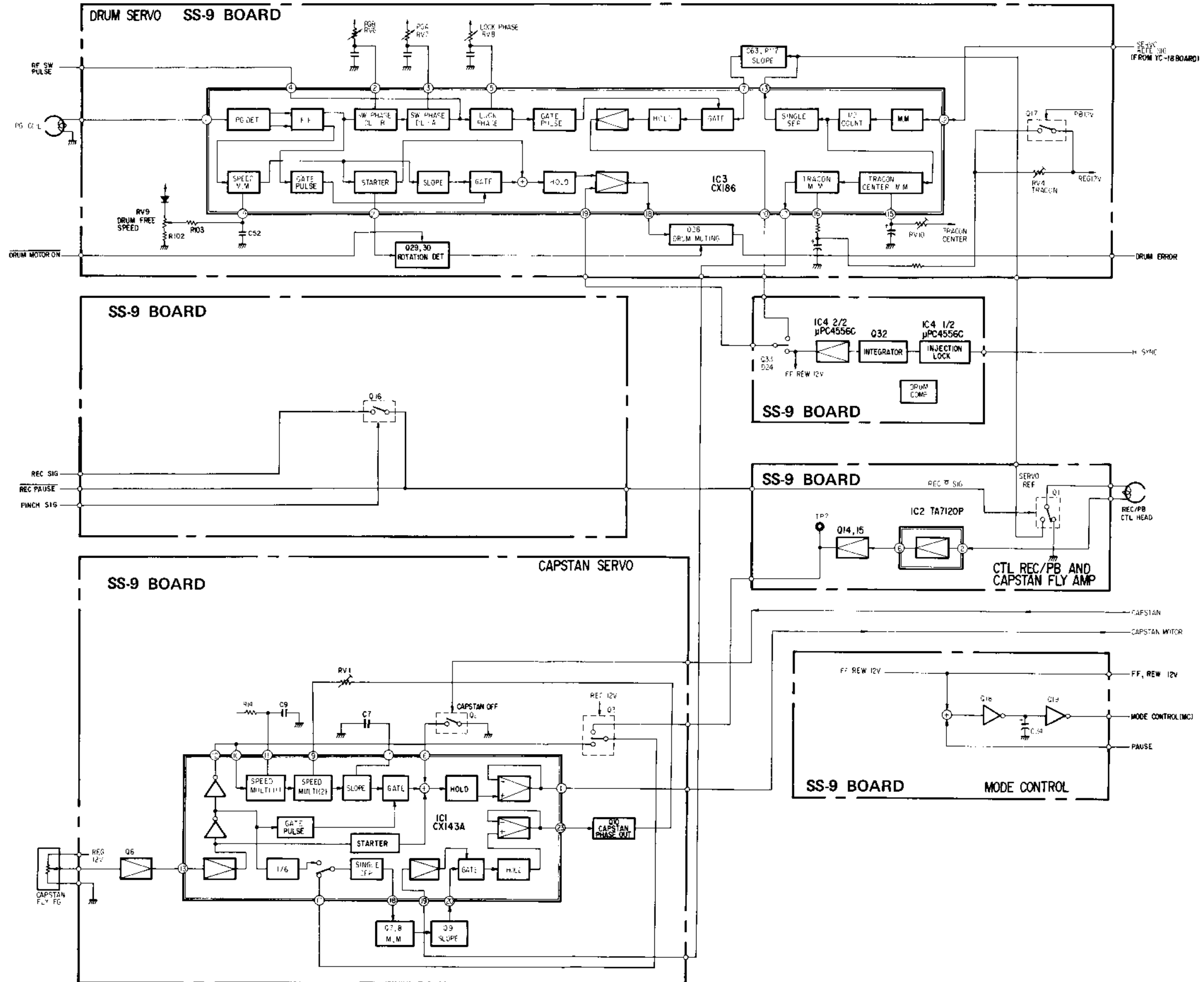
## OVERALL BLOCK DIAGRAM



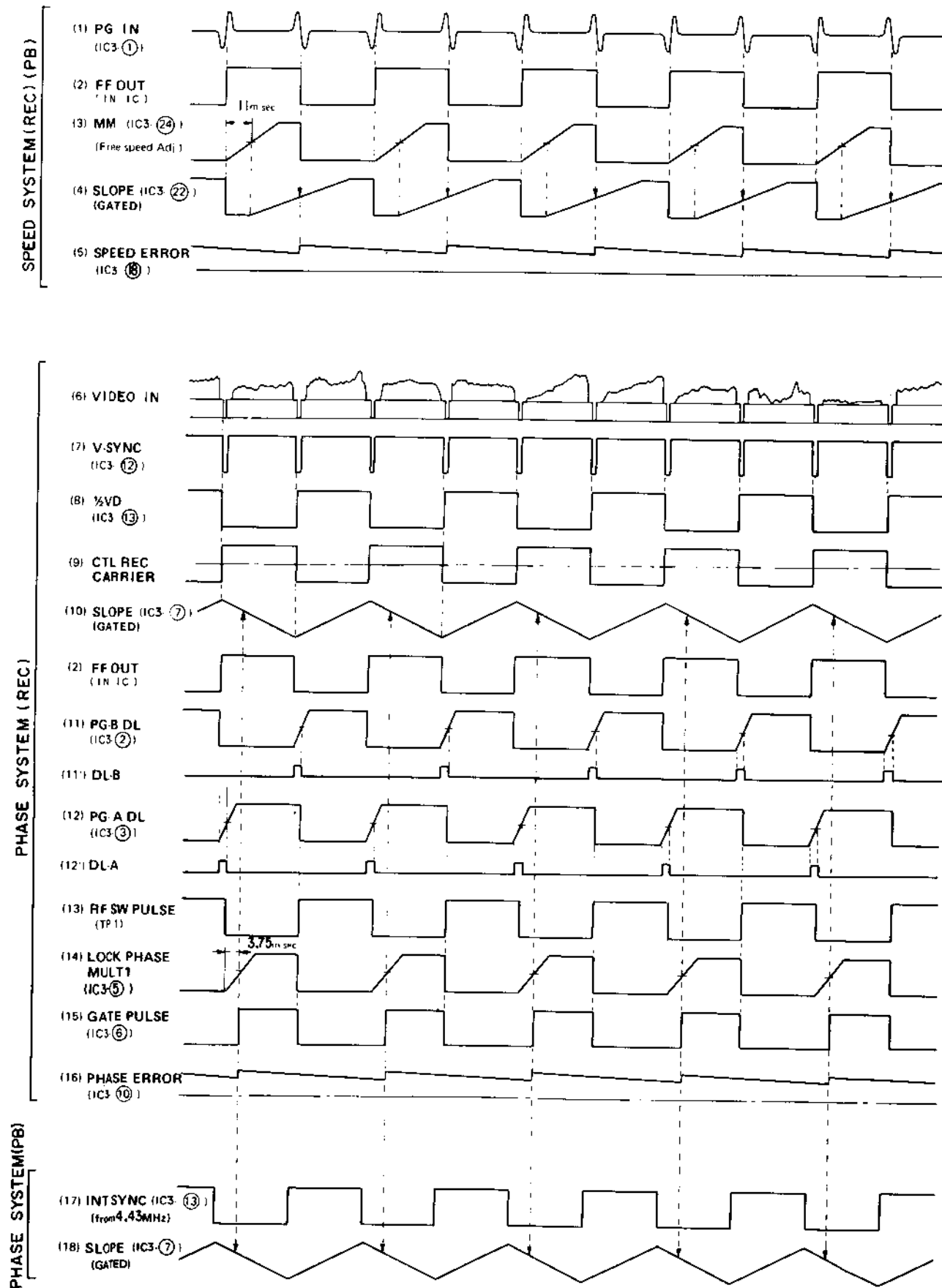
VIDEO SYSTEM BLOCK DIAGRAM



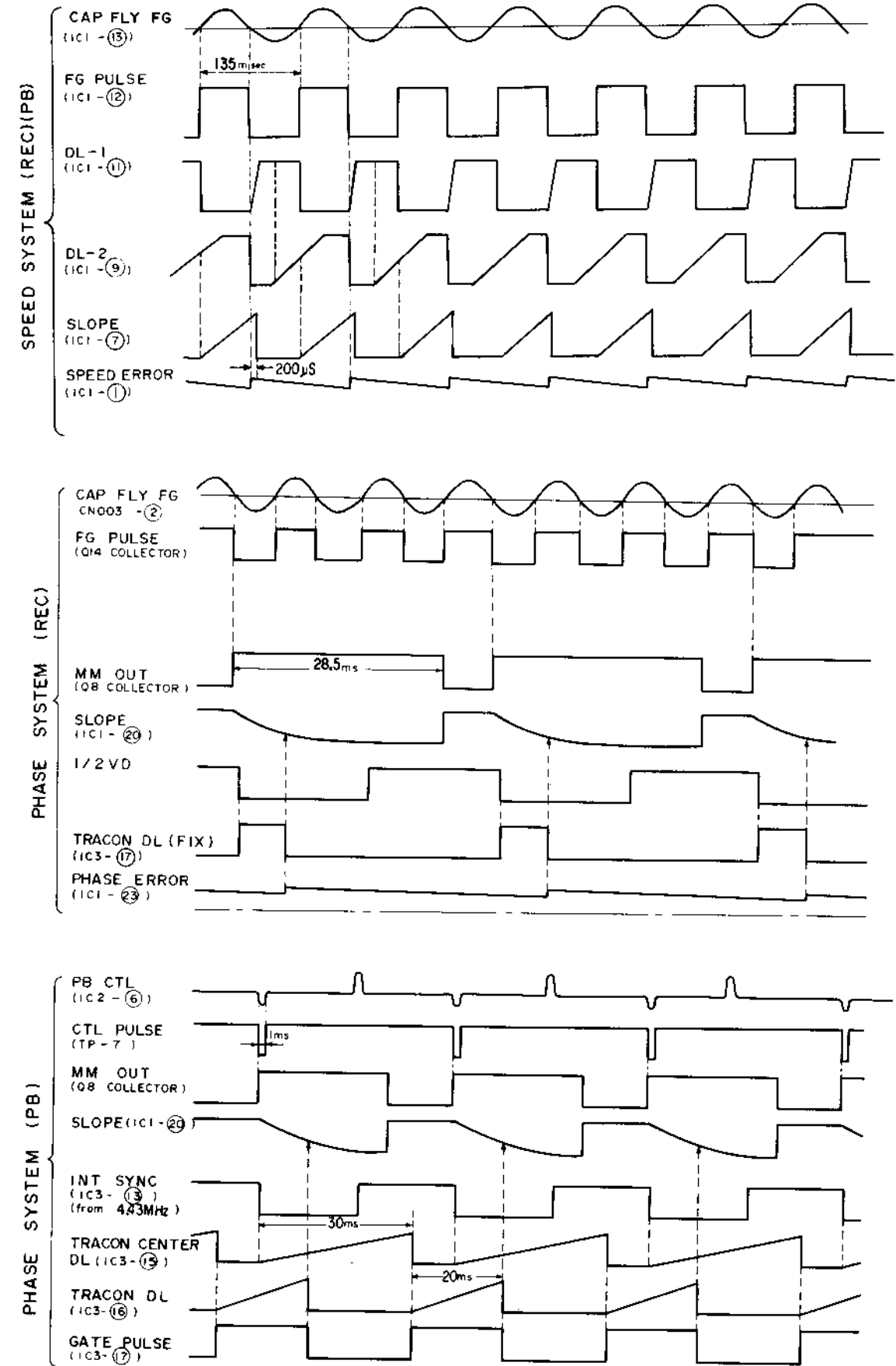
SERVO SYSTEM BLOCK DIAGRAM



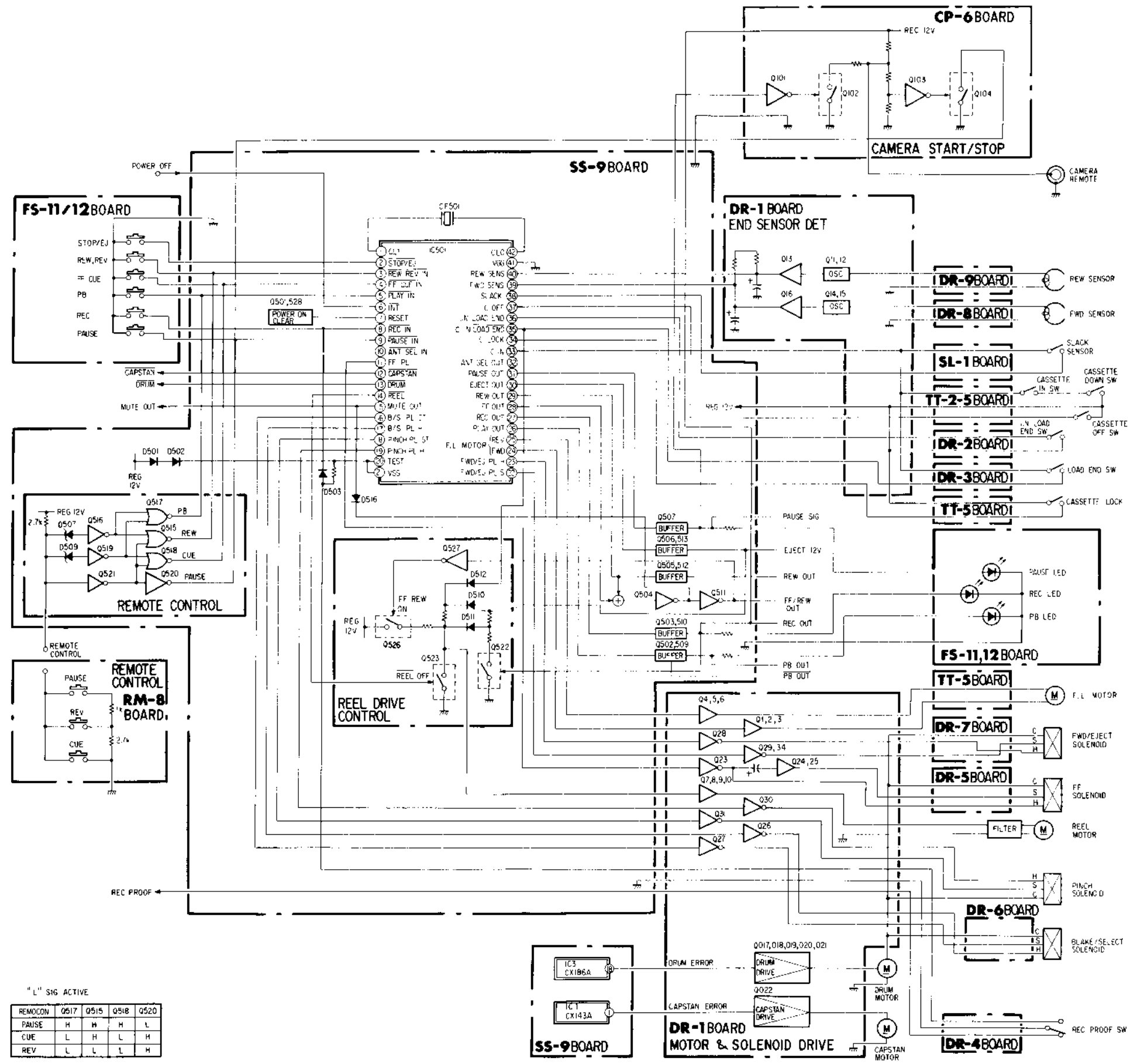
### DRUM SERVO TIMING CHART



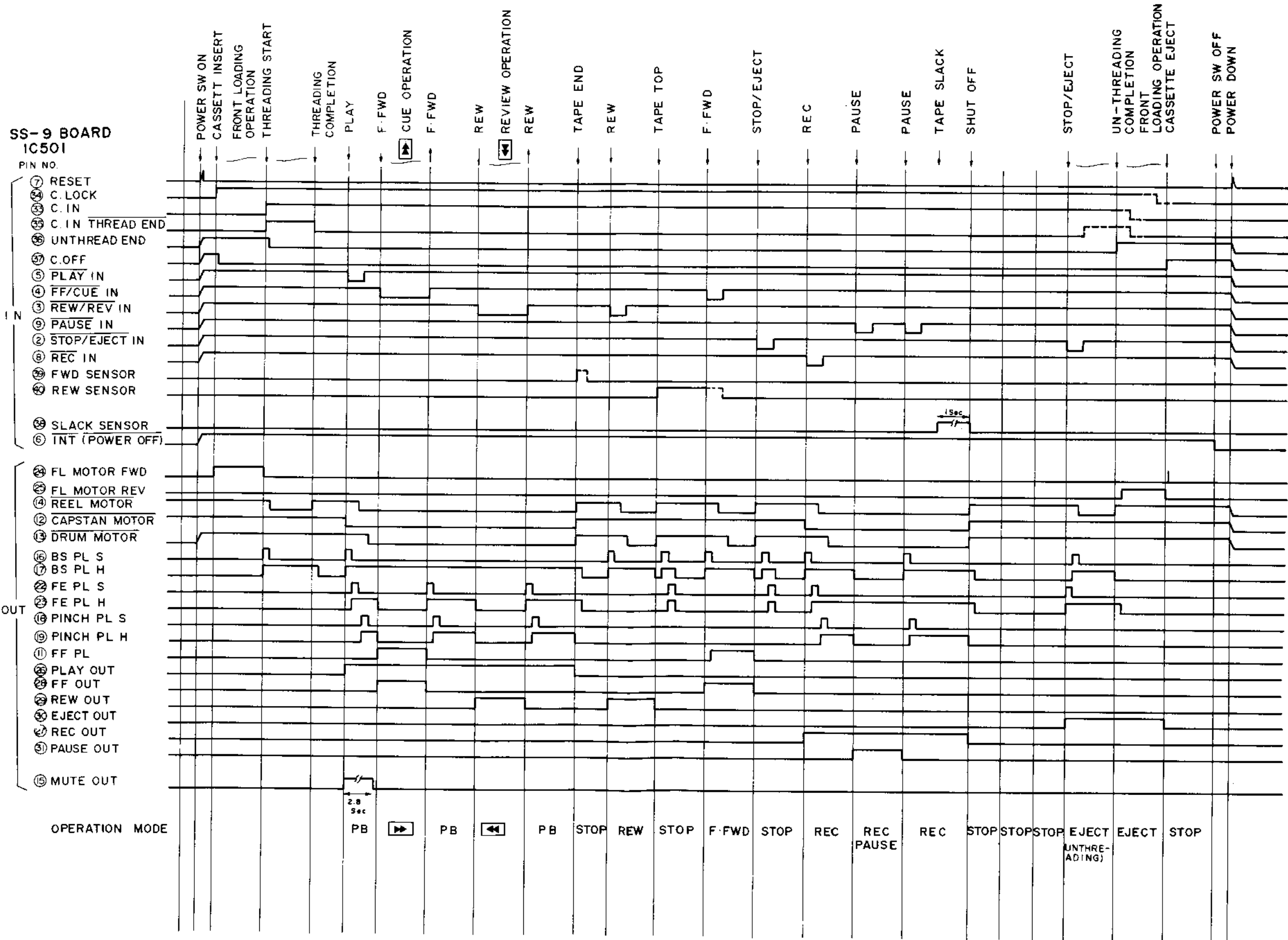
### CAPSTAN SERVO TIMING CHART

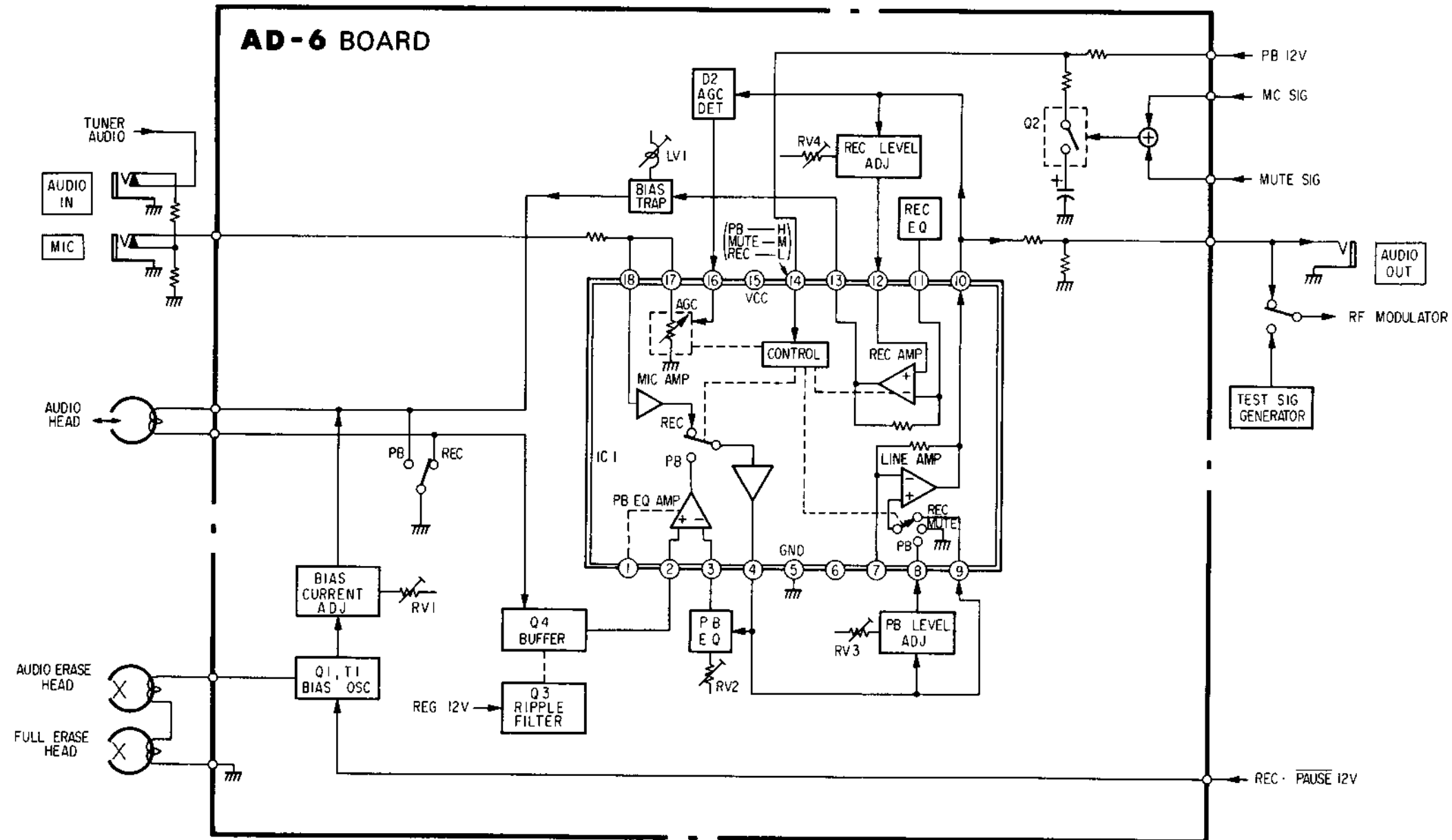


SYSTEM CONTROL BLOCK DIAGRAM

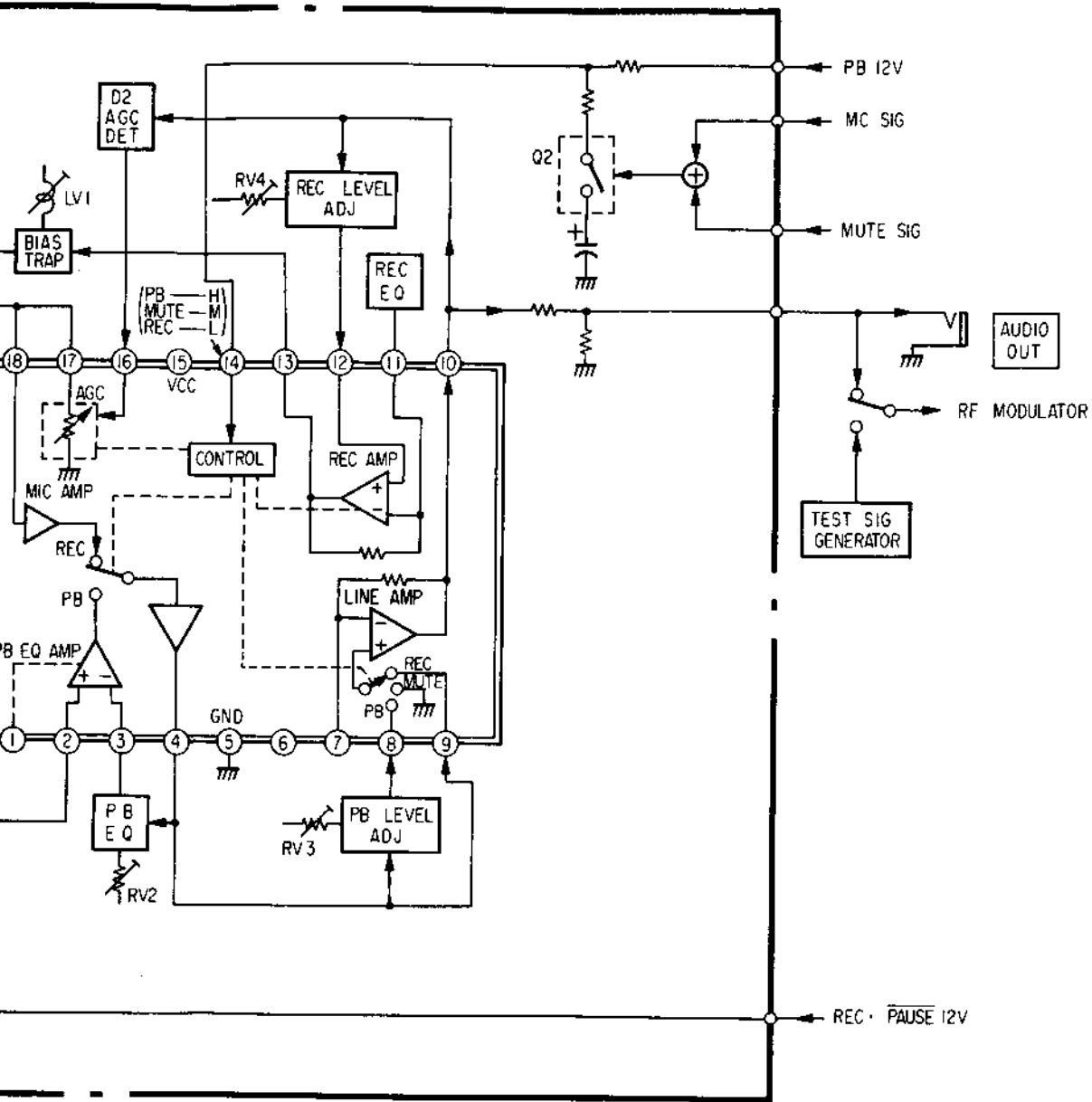


SYSTEM CONTROL TIMING CHART

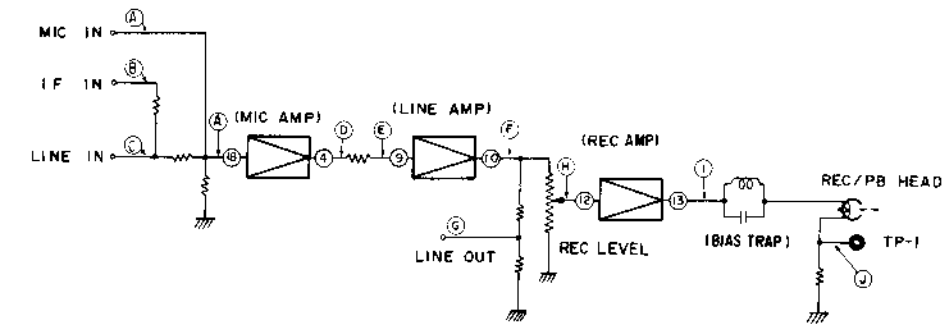
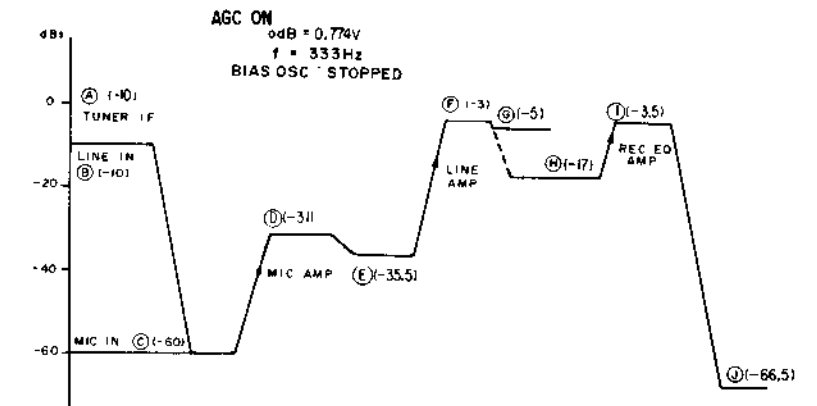




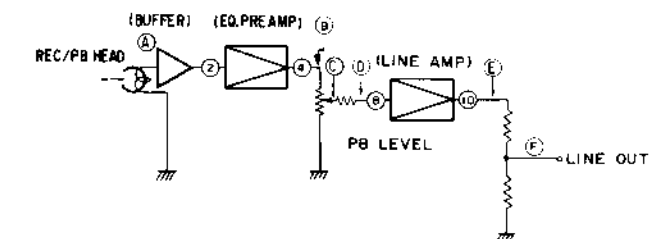
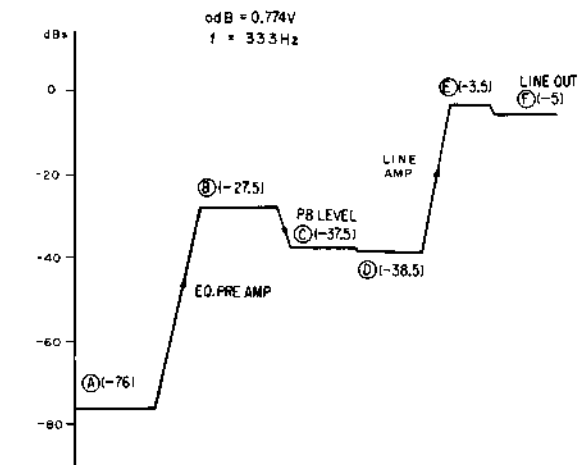
AUDIO LEVEL DIAGRAM



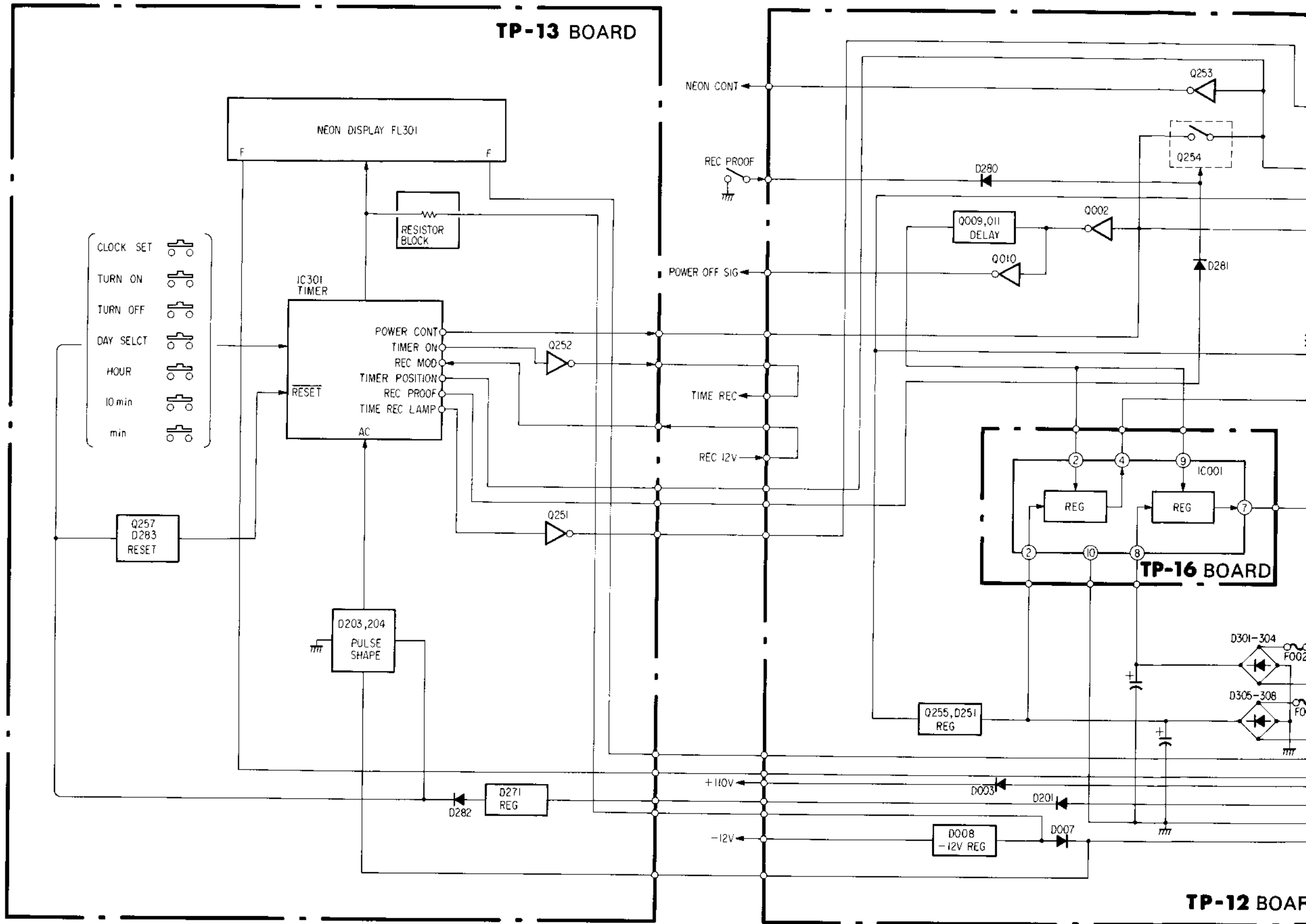
— REC MODE —

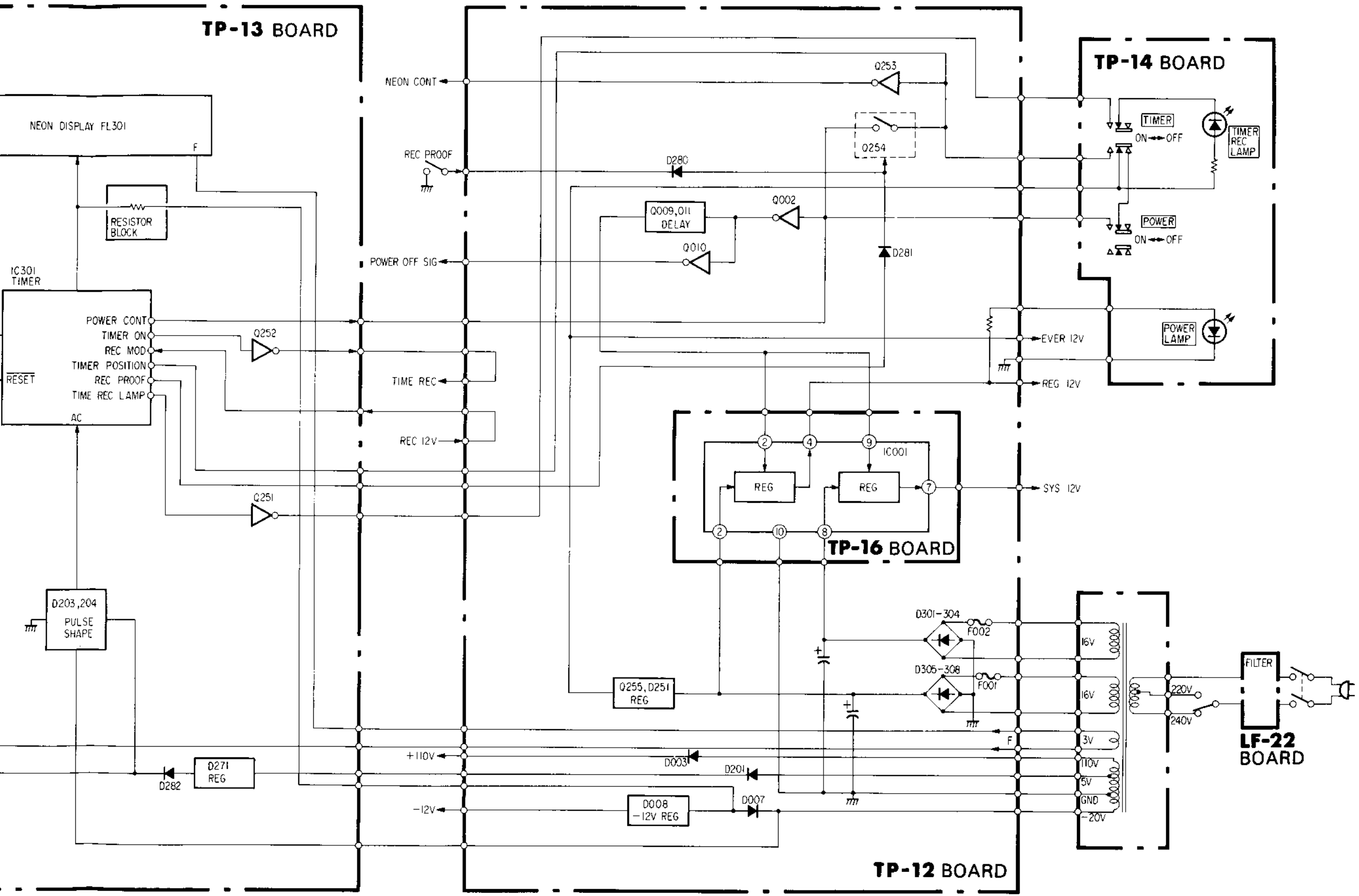


— PB MODE —

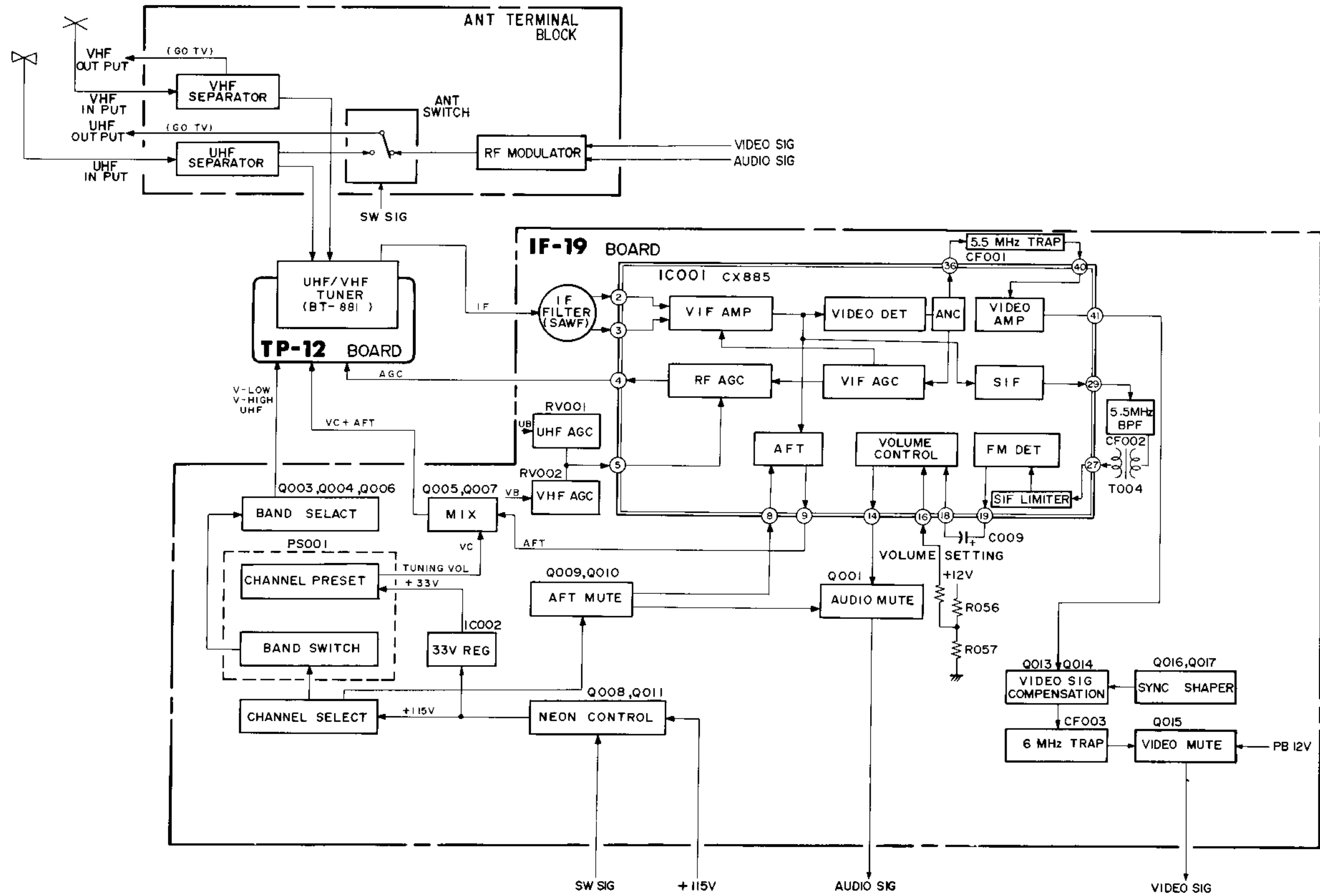






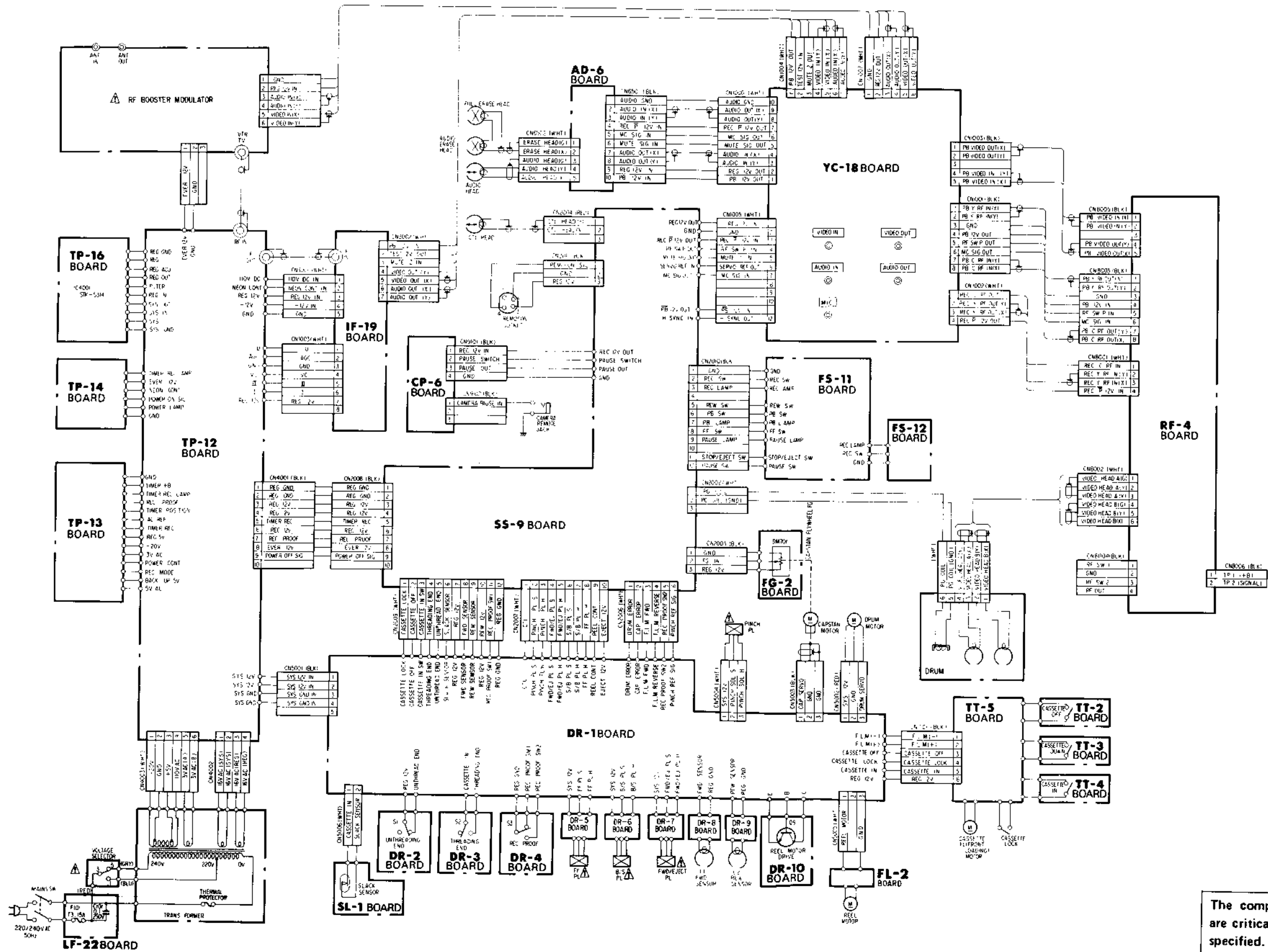


TUNER IF BLOCK DIAGRAM



SECTION 4  
DIAGRAMS

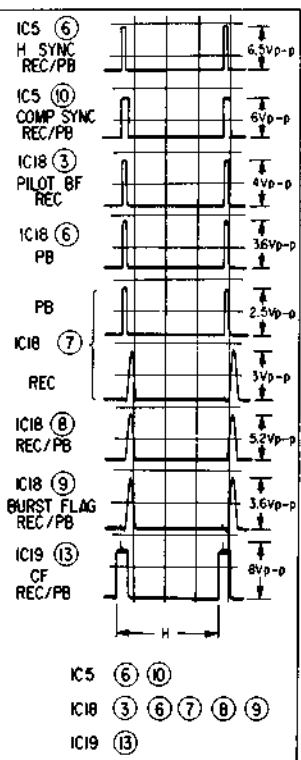
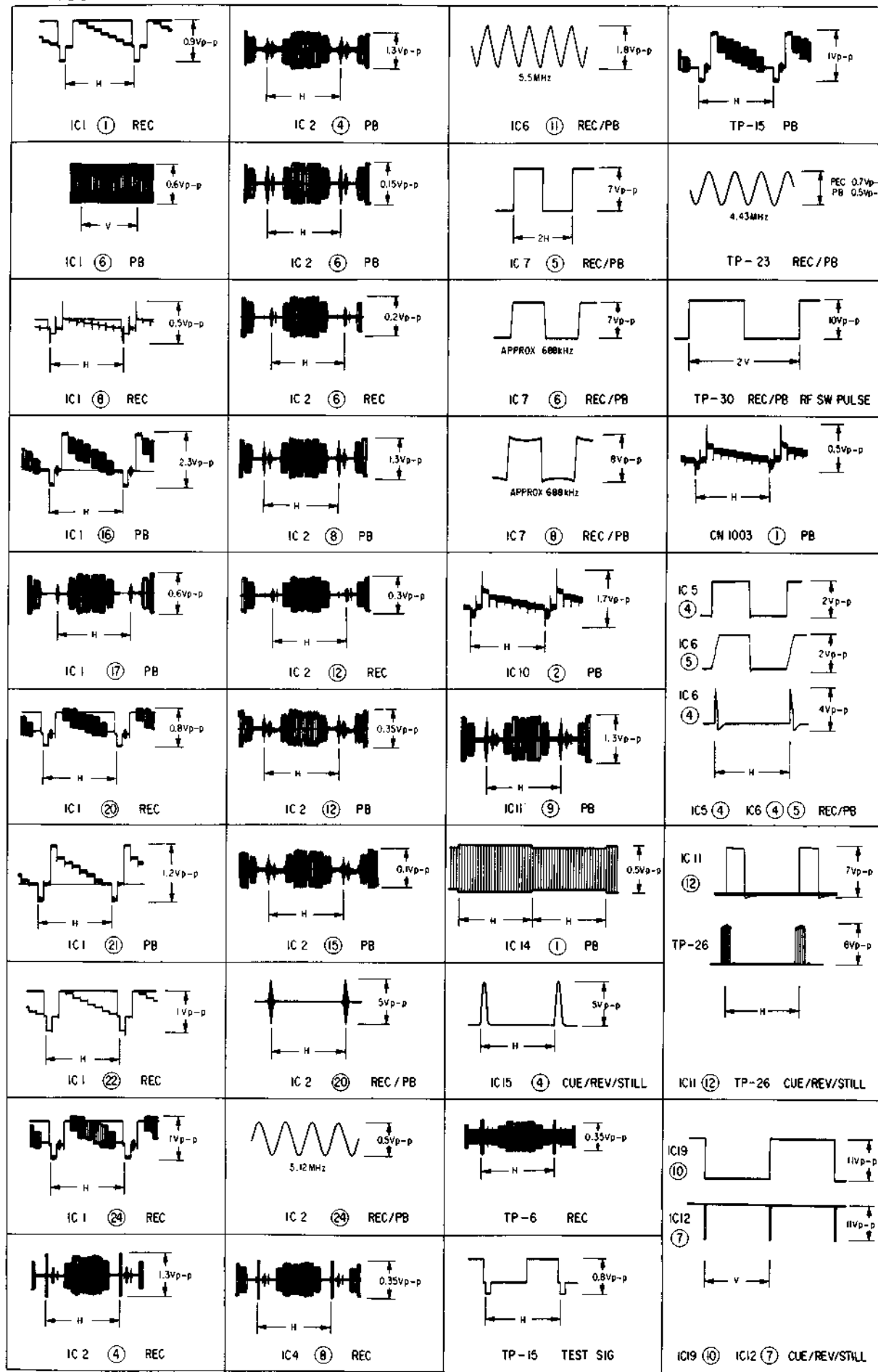
FRAME SCHEMATIC DIAGRAM



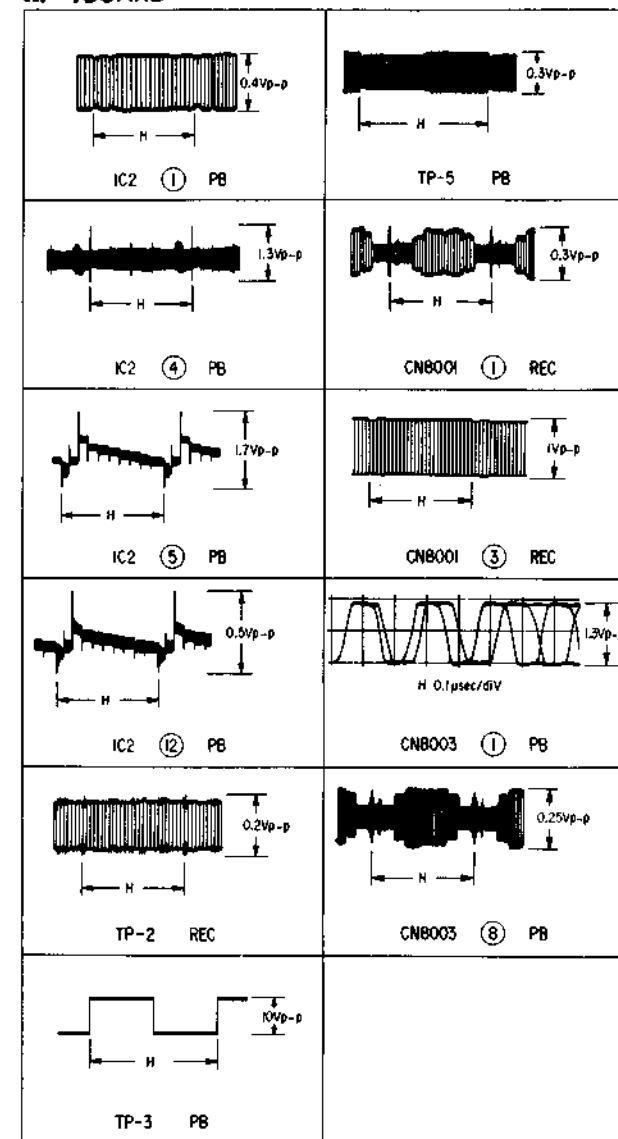
The components identified by shading and  $\triangle$  mark are critical for safety. Replace only with part number specified.

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

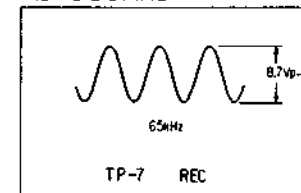
**YC-18BOARD**



**RF-4BOARD**



**AD-6 BOARD**



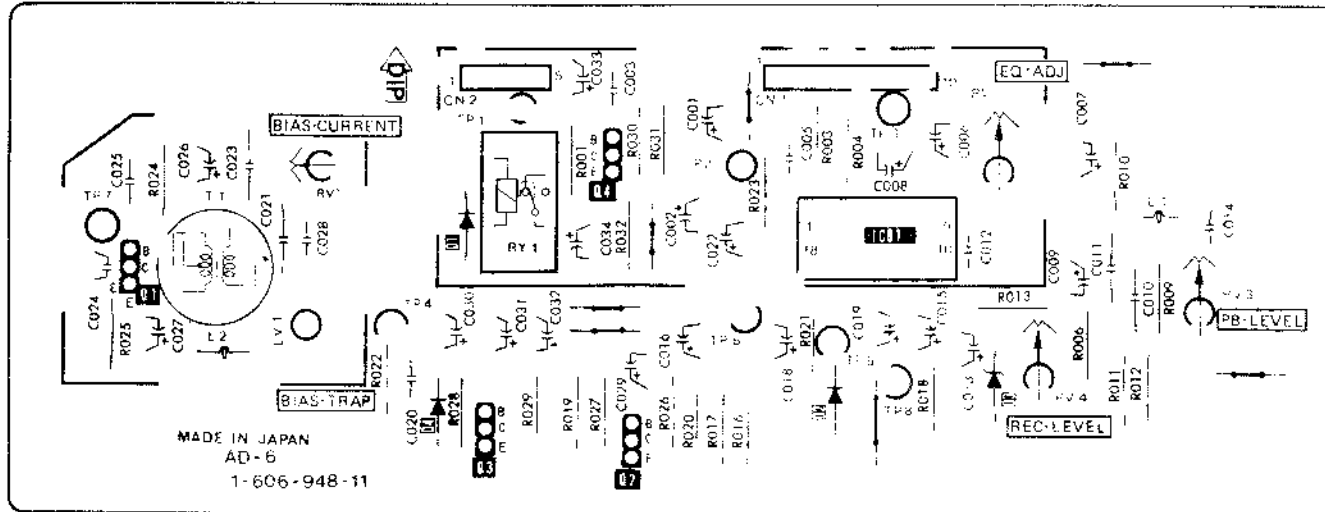
When indicating parts by reference number, please include the board name.

YC-18 (Y & CHROMA SIGNALS RECORD/PLAYBACK PROCESS, SERVO REFERENCE, SIGNAL GEN, HIGH SPEED GEN), AD-6 (AUDIO RECORD/PLAYBACK), RF-4 (DOWN-CONVERTED CHROMA & Y-FM SIGNALS, RECORD/PLAYBACK AMP) MOUNTING

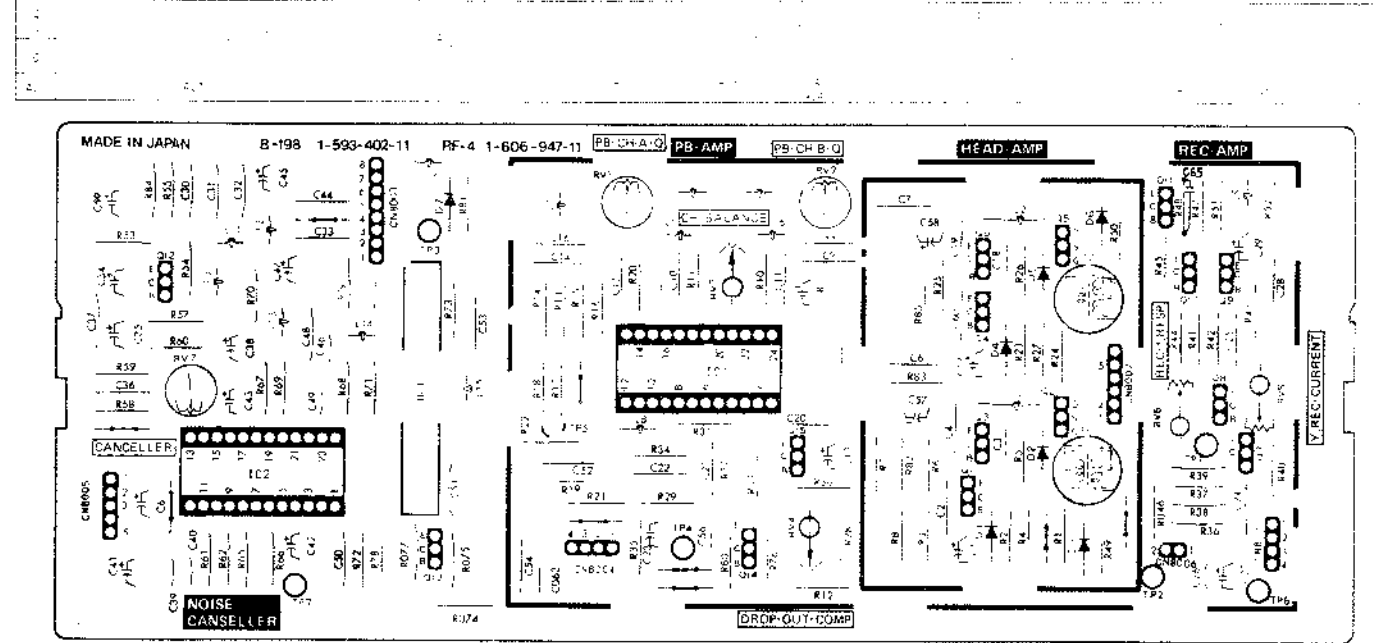
- Ref. No. YC-18 BOARD : 1000 series, AD-6 BOARD : 6500 series, RF-4 BOARD : 8000 series

- Conductor Side -

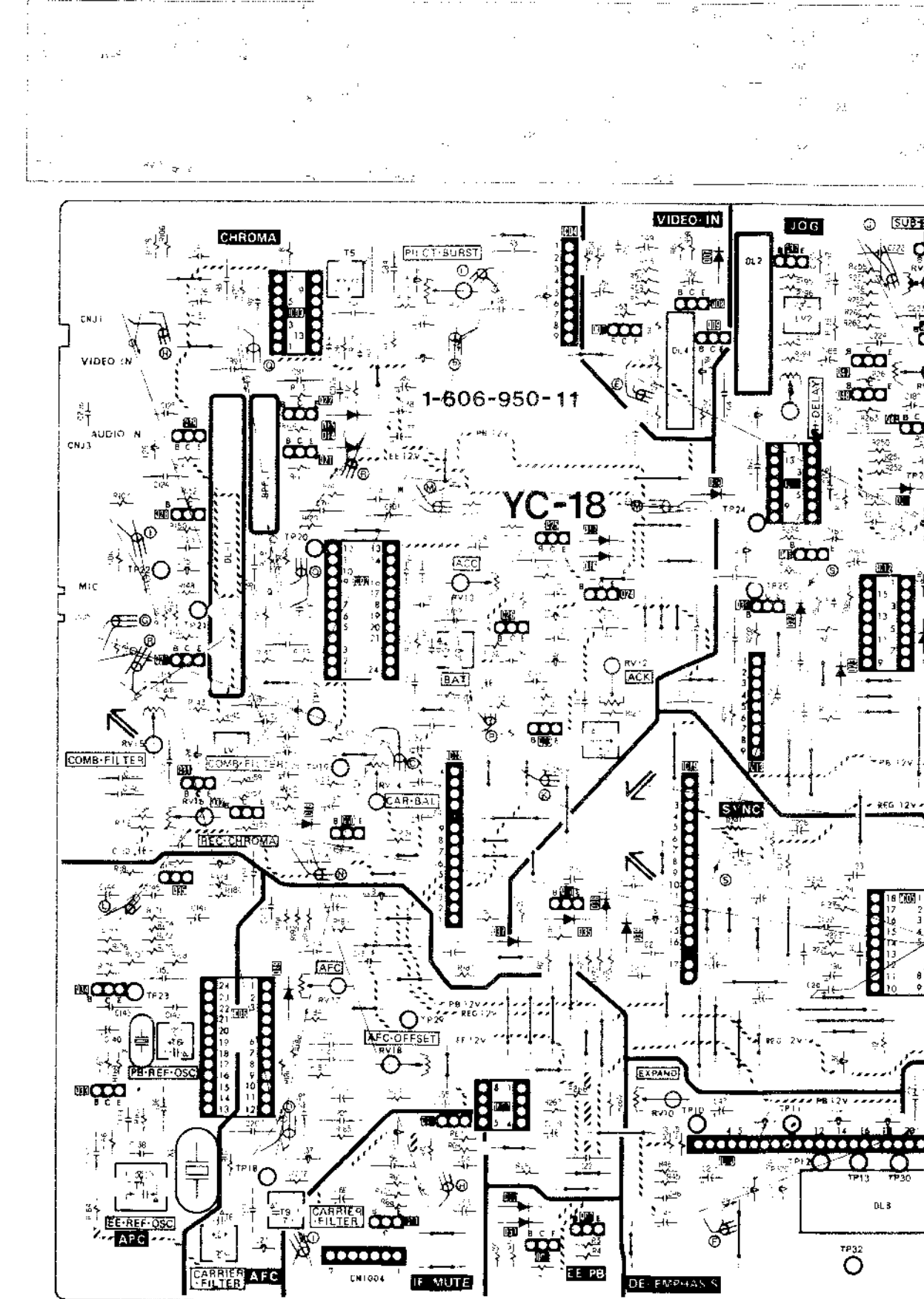
AD-6 BOARD



RF-4 BOARD



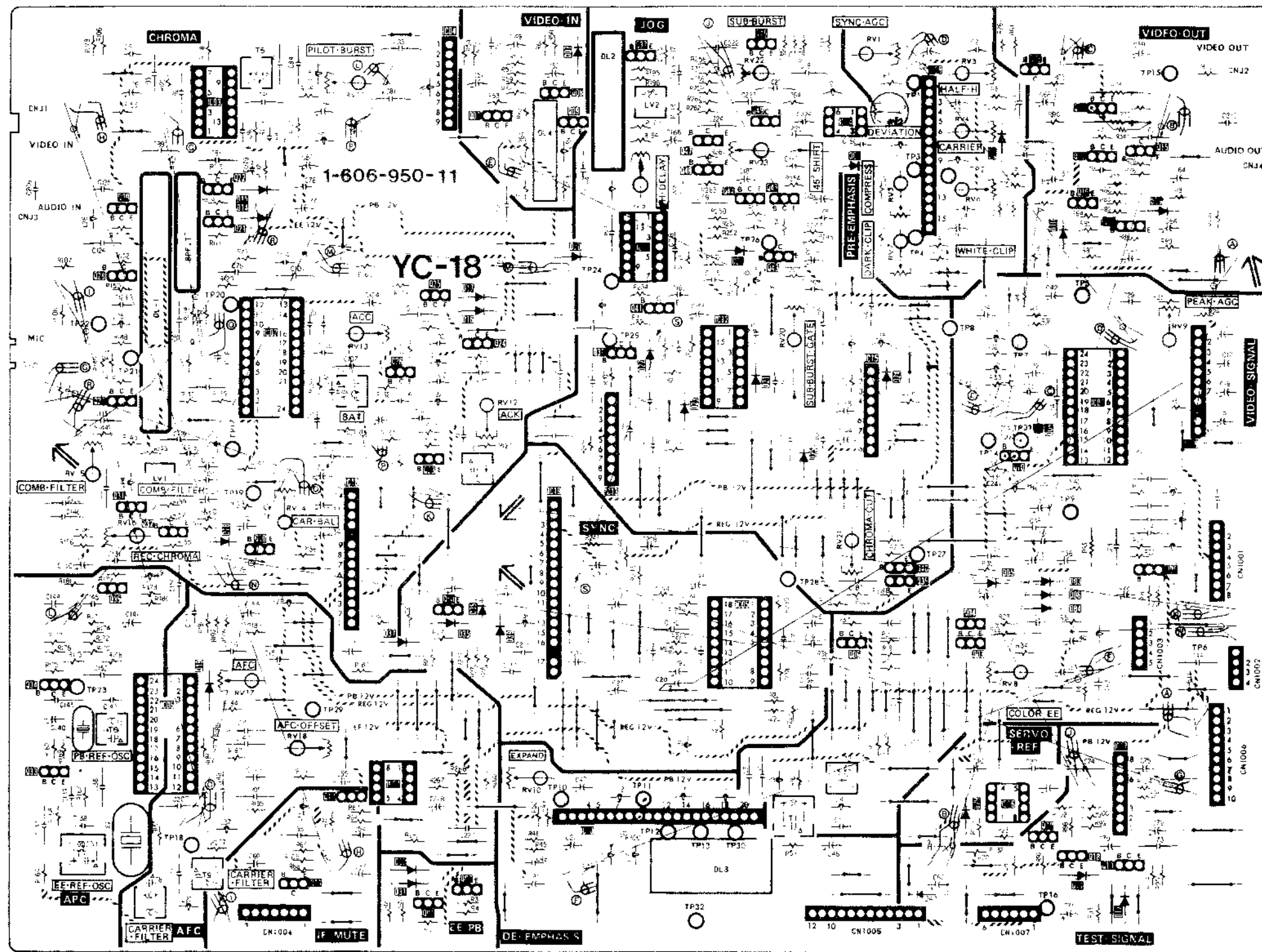
YC-18 BOARD



# VIDEO, AUDIO VIDEO, AUDIO

HIGH SPEED GEN), AD-6 (AUDIO RECORD/PLAYBACK), RF 4 (DOWN-CONVERTED CHROMA & Y FM SIGNALS, RECORD/PLAYBACK AMP) MOUNTING DIAGRAMS

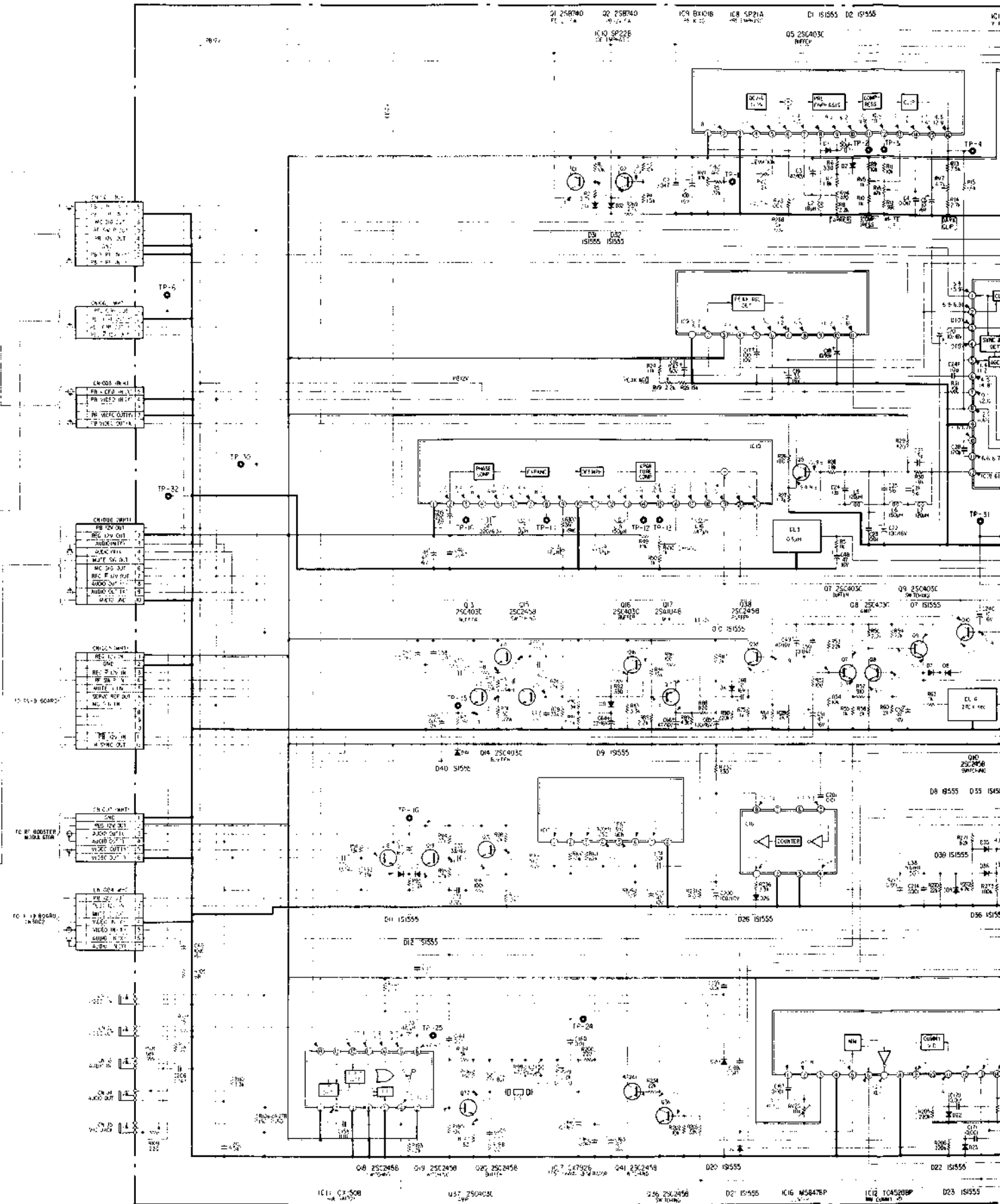
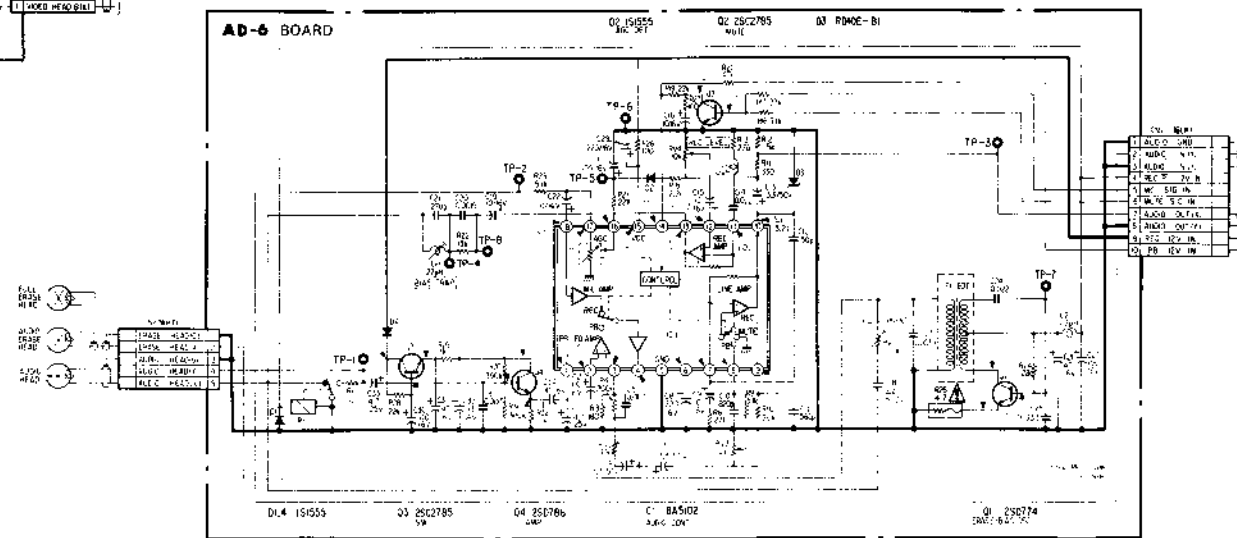
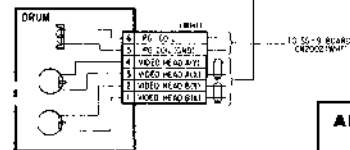
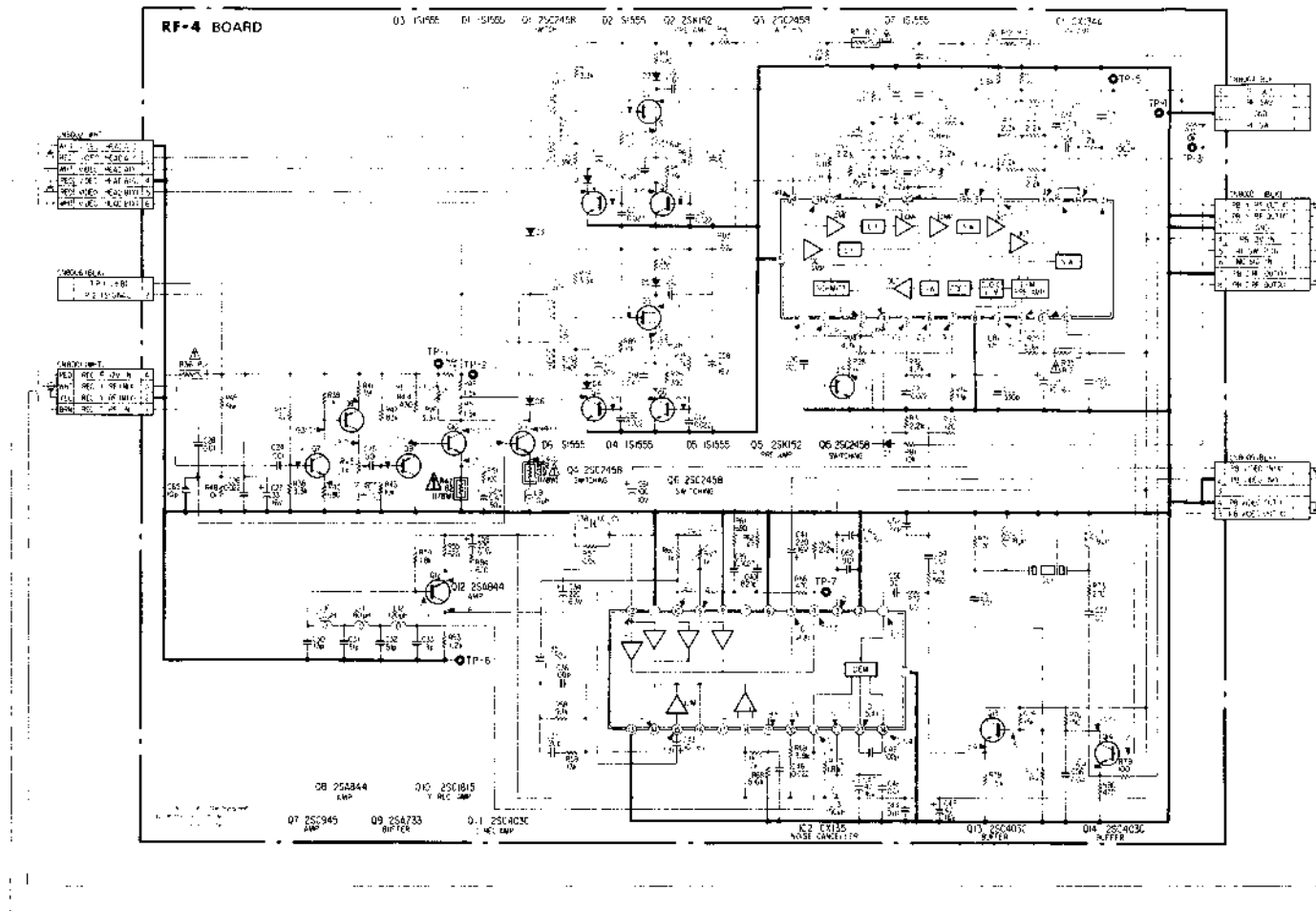
YC-18 BOARD



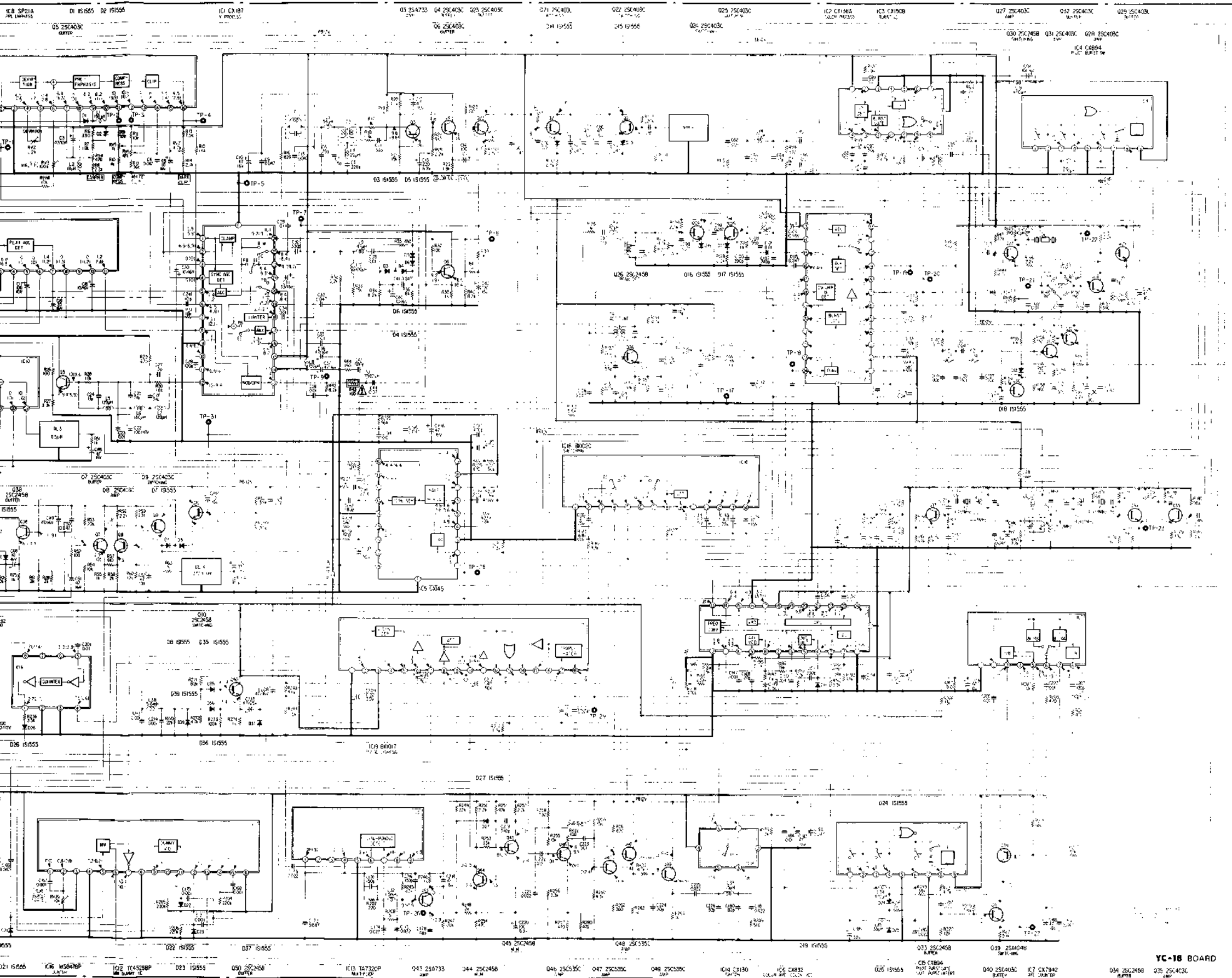
# VIDEO, AUDIO • VIDEO, AUDIO

YC-18 (Y & CHROMA SIGNALS RECORD/PLAYBACK PROCESS, SERVO REFERENCE, SIGNAL GEN, HIGH SPEED GEN), AD-6 (AUDIO RECORD/PLAYBACK AMP), RF-4 (DOWN-CONVERTED CHROMA & Y-FM SIGNALS, RECORD/PLAYBACK)

- Ref. No. YC-18 BOARD : 1000 series, AD-6 BOARD : 6500 series, RF-4 BOARD : 8000 series -







- Resistors on the RF-4, AD-6 boards are in ohms, 1/4W unless otherwise noted.
- Resistors on the YC-18 board are in ohms, 1/8W unless otherwise noted.  
k $\Omega$  : 1000 $\Omega$ , M $\Omega$  : 1000k $\Omega$
- All capacitors are in  $\mu$ F 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.
- : nonflammable resistor.
- The red lines show the main voltages.
- All voltages are dc measured with a VOM (20k $\Omega$ /V)

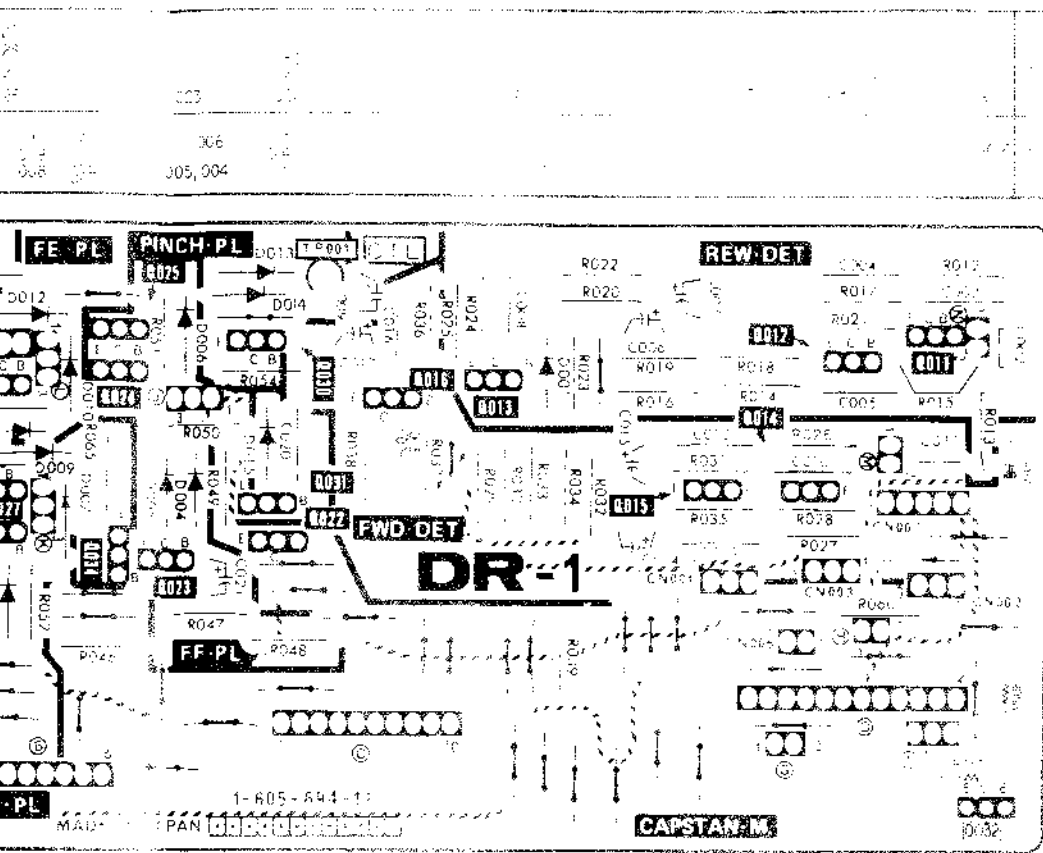
The components identified by shading and mark are critical for safety. Replace only with part number specified.

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

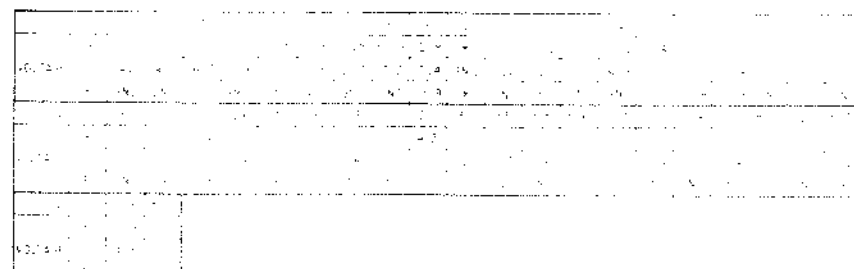


# SERVO SYSTEM CONTROL SERVO SYSTEM CONTROL

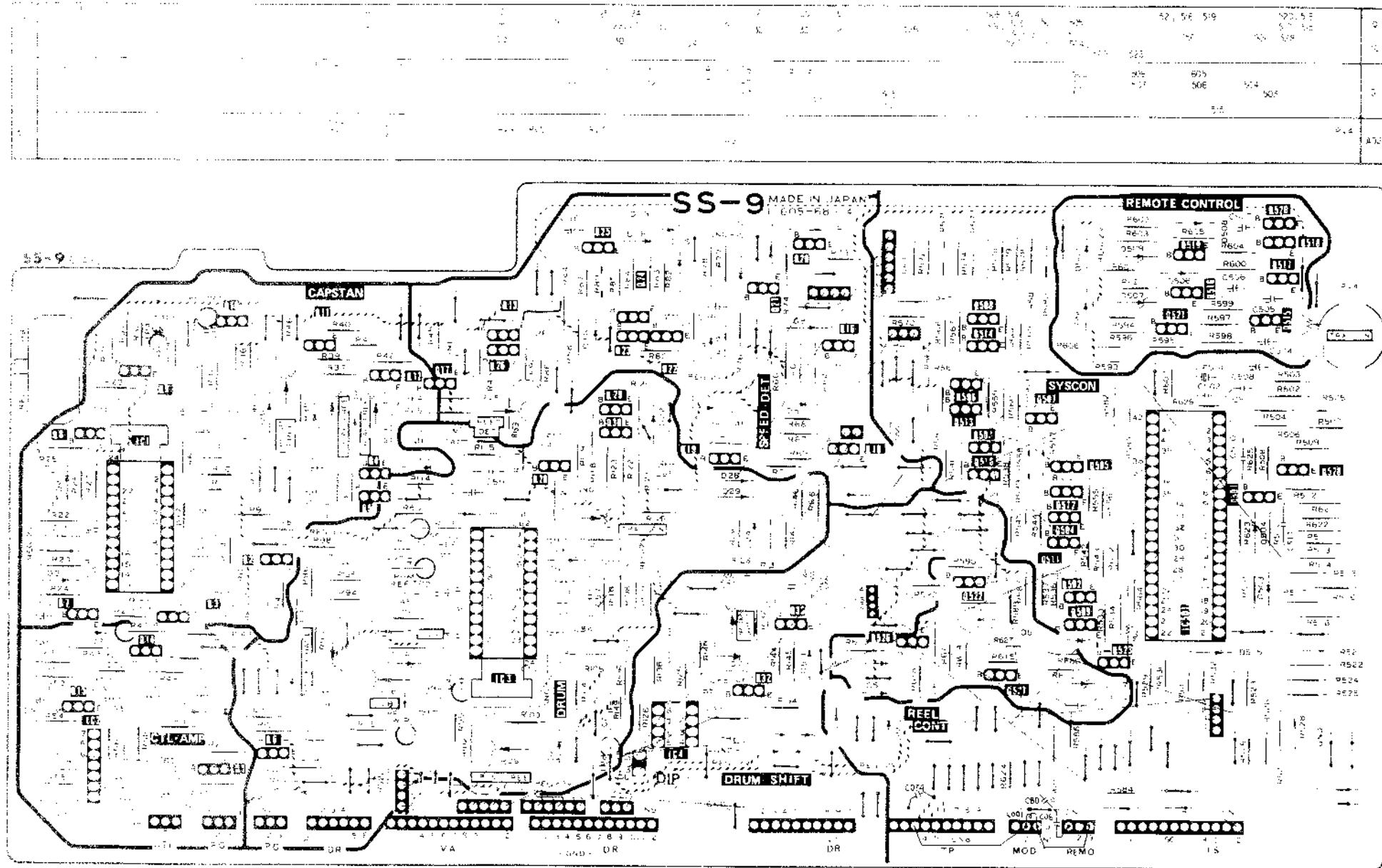
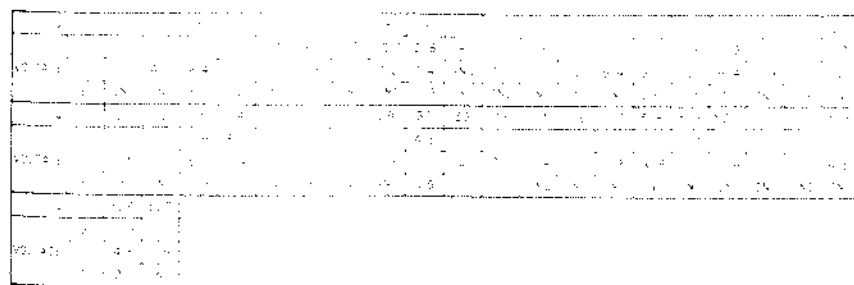
DR-8 (PLAY), DR-10 (MOTOR DRIVE), FS-11 FS-12 (CASSETTE CONTROL SWITCH), FL-2 (NOISE FILTER), TT-2 TT-3 TT-4, TT-5 (CASSETTE COMPARTMENT), SL-1 (SLACK SENSOR), CP-6 (CAMERA PLAY) MOUNTING DIAGRAMS



SS-9 BOARD  
REC MODE



PE VIEW



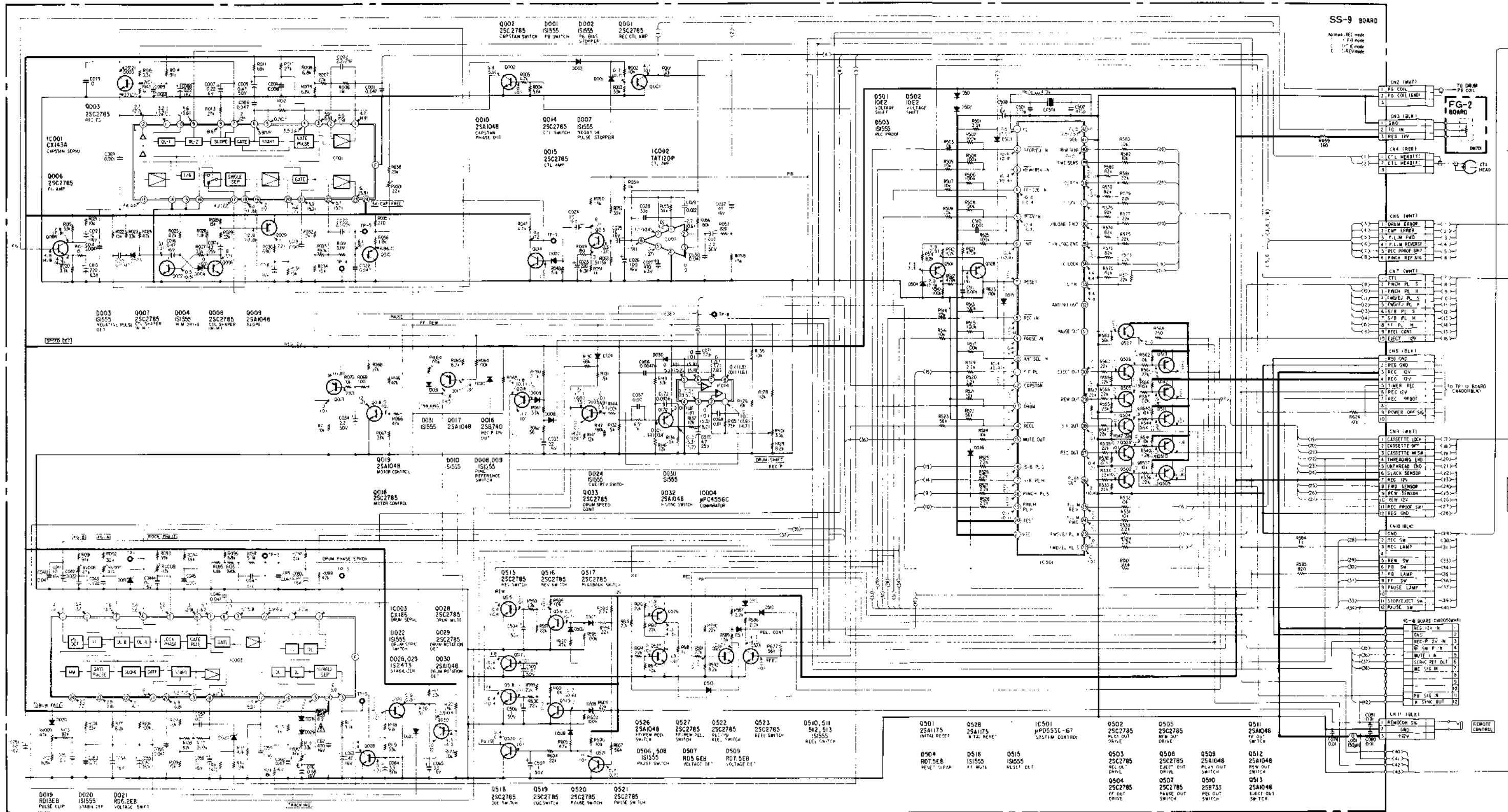
# SERVO, SYSTEM CONTROL      SERVO, SYSTEM CONTROL

SS-9 (SERVO & SYSTEM CONTROL), FG-2 (CAPSTAN FLY FG), DR-1 (MOTOR & SOLENOID DRIVE), DR-2, DR-3, DR-4, (SWITCH), DR-5, DR-6, DR-7, DR-8, DR-9 (RELAY), DR-10 (MOTOR DRIVE), FS-11, FS-12 (CASSETTE CONTROL SWITCH),

– Ref. No. SS-9 BOARD : 2000 series, FG-2 BOARD : 7700 series, DR-1, DR-2, DR-3, DR-4, DR-5, DR-7, DR-8, DR-9, DR-10 BOARD : 5000 series,

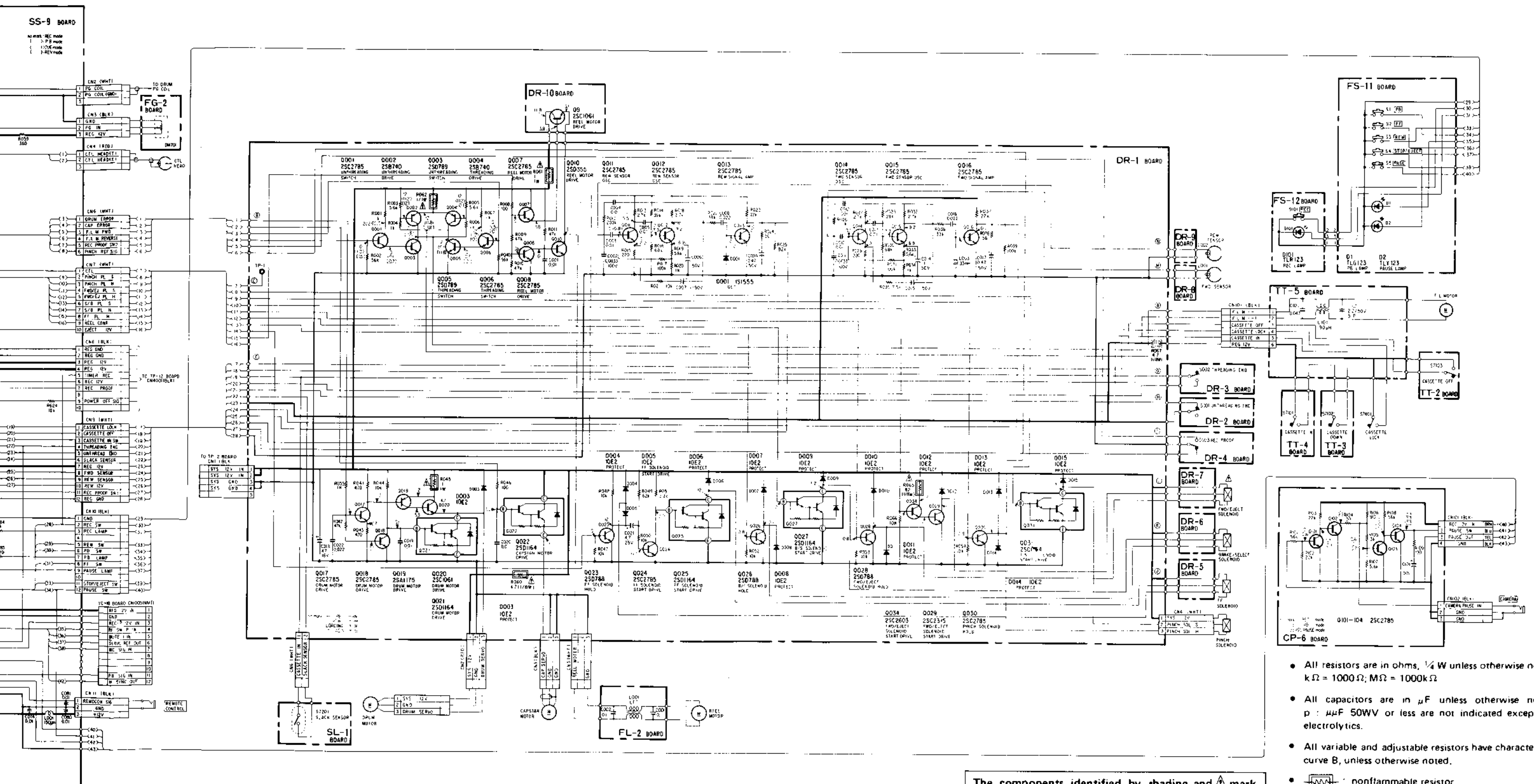
FS-11 BOARD : 6000 series, FS-12 BOARD : 6100 series, FL-2 BOARD : 7000 series, TT-2, TT-3, TT-4, TT-5 BOARD : 7100 series, SL-1 BOARD : 7200 series,

CP-6 BOARD : 9100 series –



# SERVO, SYSTEM CONTROL SERVO, SYSTEM CONTROL

2 (CASSETTE CONTROL SWITCH), FL-2 (NOISE FILTER), TT-2, TT-3, TT-4, TT-5 (CASSETTE COMPARTMENT), SL-1 (SLACK SENSOR), CP-6 (CAMERA PLAY) BOARDS SCHEMATIC DIAGRAM



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

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

- All resistors are in ohms,  $\frac{1}{4}$  W unless otherwise noted.  $k\Omega = 1000\Omega$ ;  $M\Omega = 1000k\Omega$
- All capacitors are in  $\mu F$  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.
- All voltages are dc measured with a VOM (20k $\Omega/V$ ).

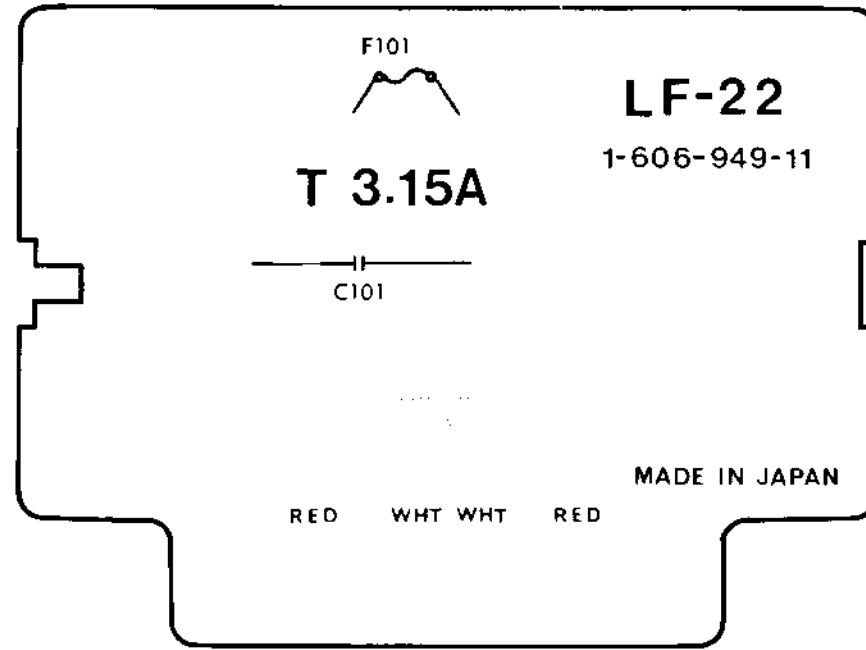
# POWER SUPPLY, TIMER POWER SUPPLY, TIMER

LF-22 (LINE FILTER), TP-12 (POWER SUPPLY, TUNER) TP-13 (TIMER CONTROL, TIMER PRESET) TP-14 (TIMER & POWER SWITCH), TP-16 (REGULATOR) MOUNTING DIAGRAMS

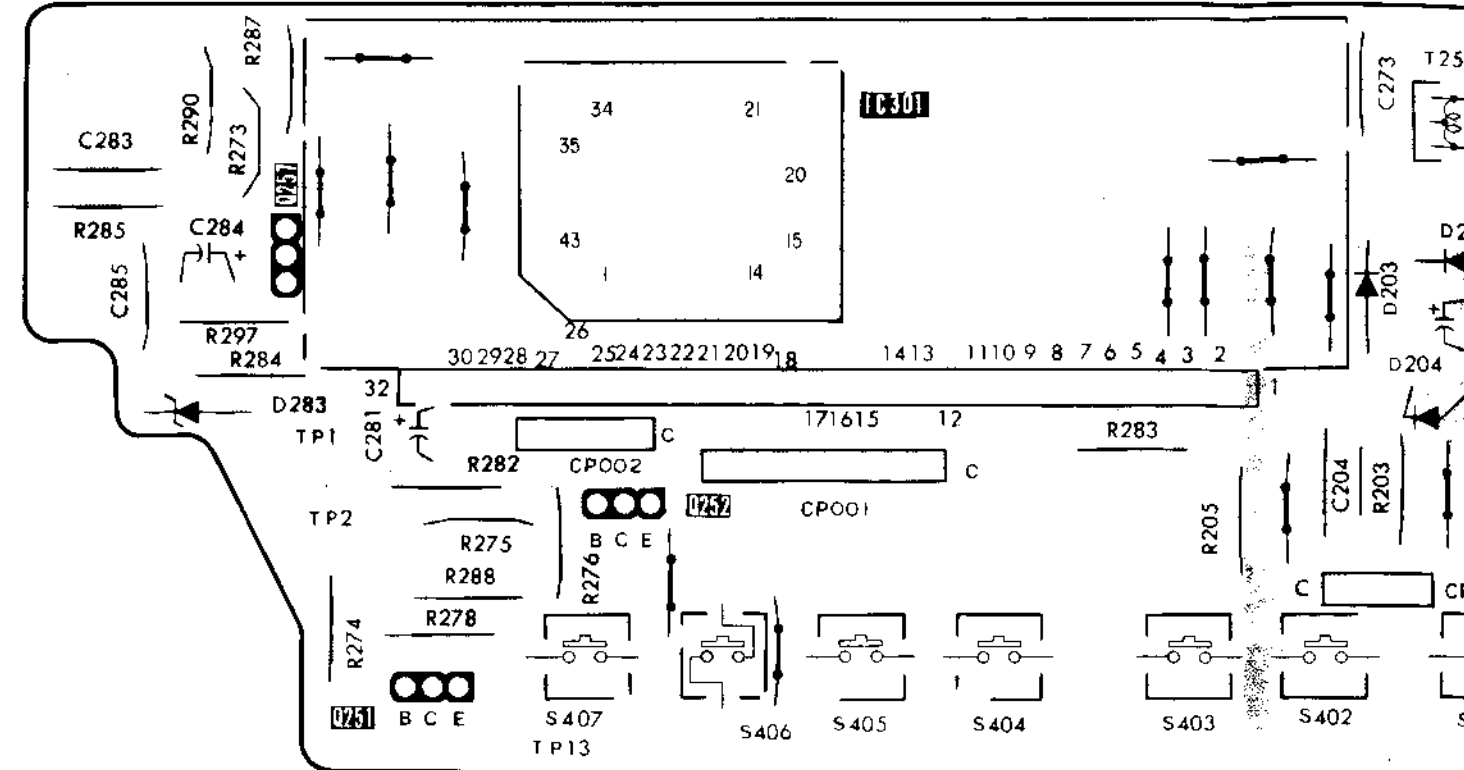
- Ref. No. LF-22, TP-12, TP-13, TP-14, TP-16 BOARD : 4000 series -

- Conductor Side -

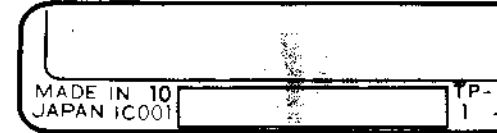
**LF-22 BOARD**



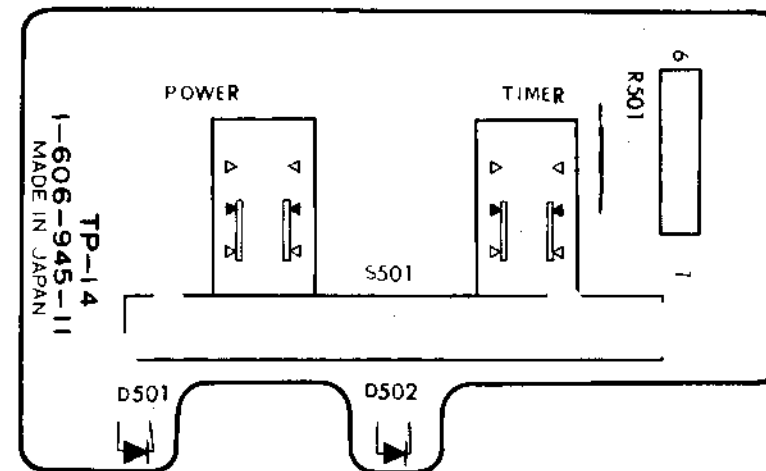
**TP-13 BOARD**

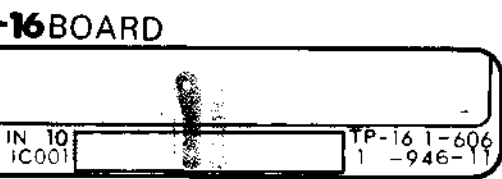
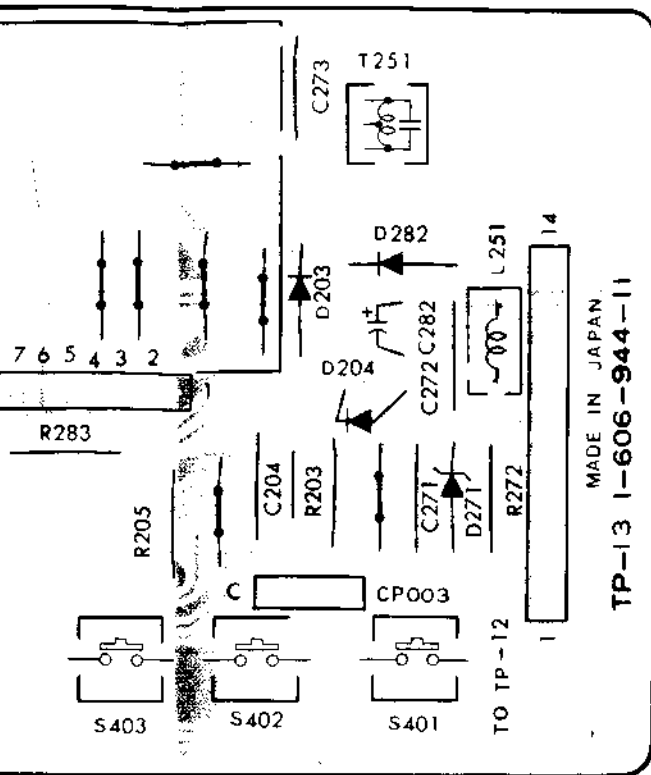


**TP-16 BOARD**

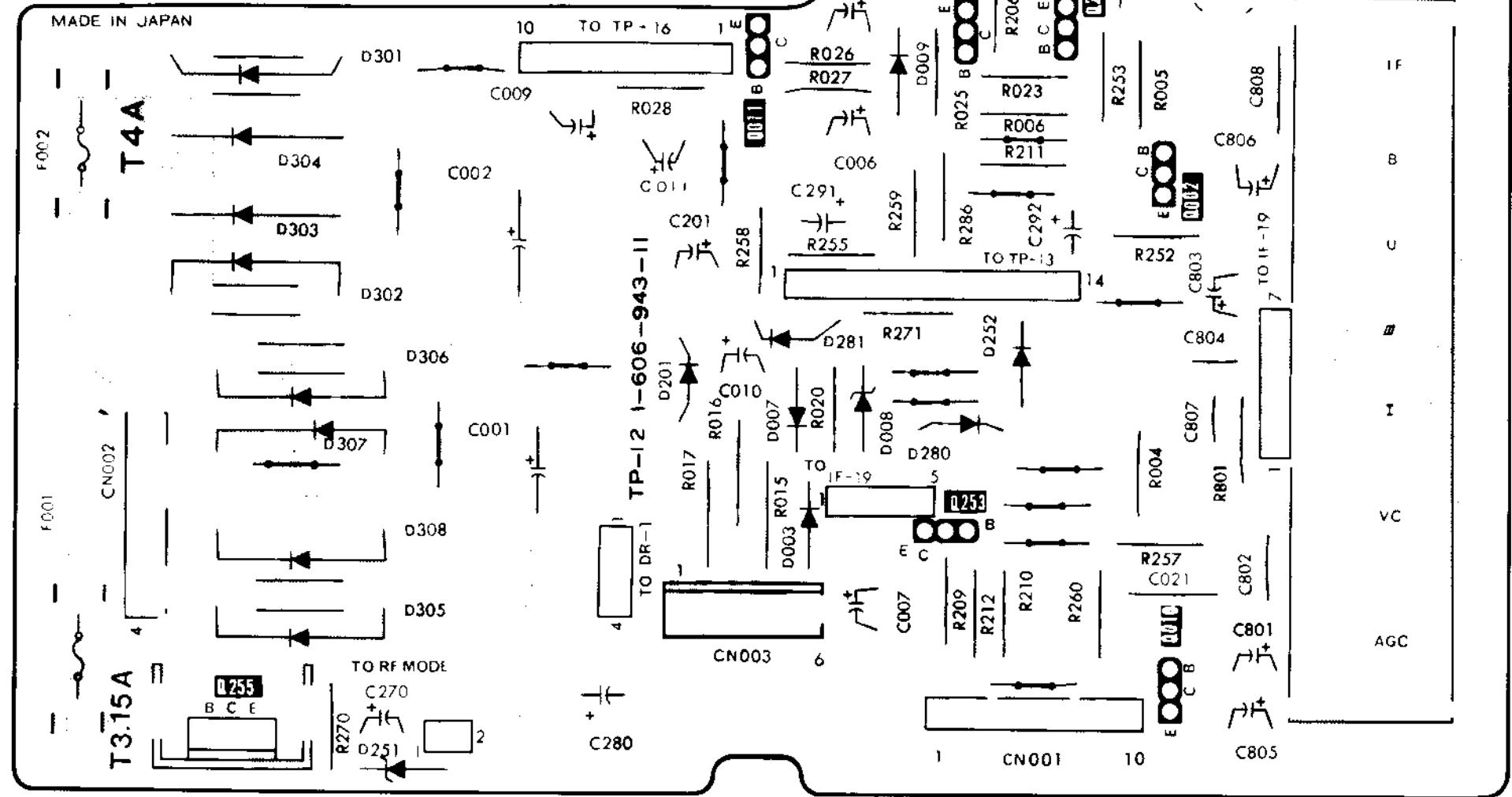


**TP-14 BOARD**

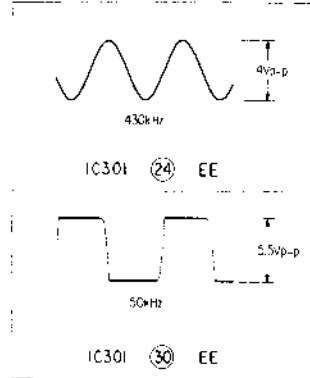




TP-12 BOARD



TP-13 BOARD

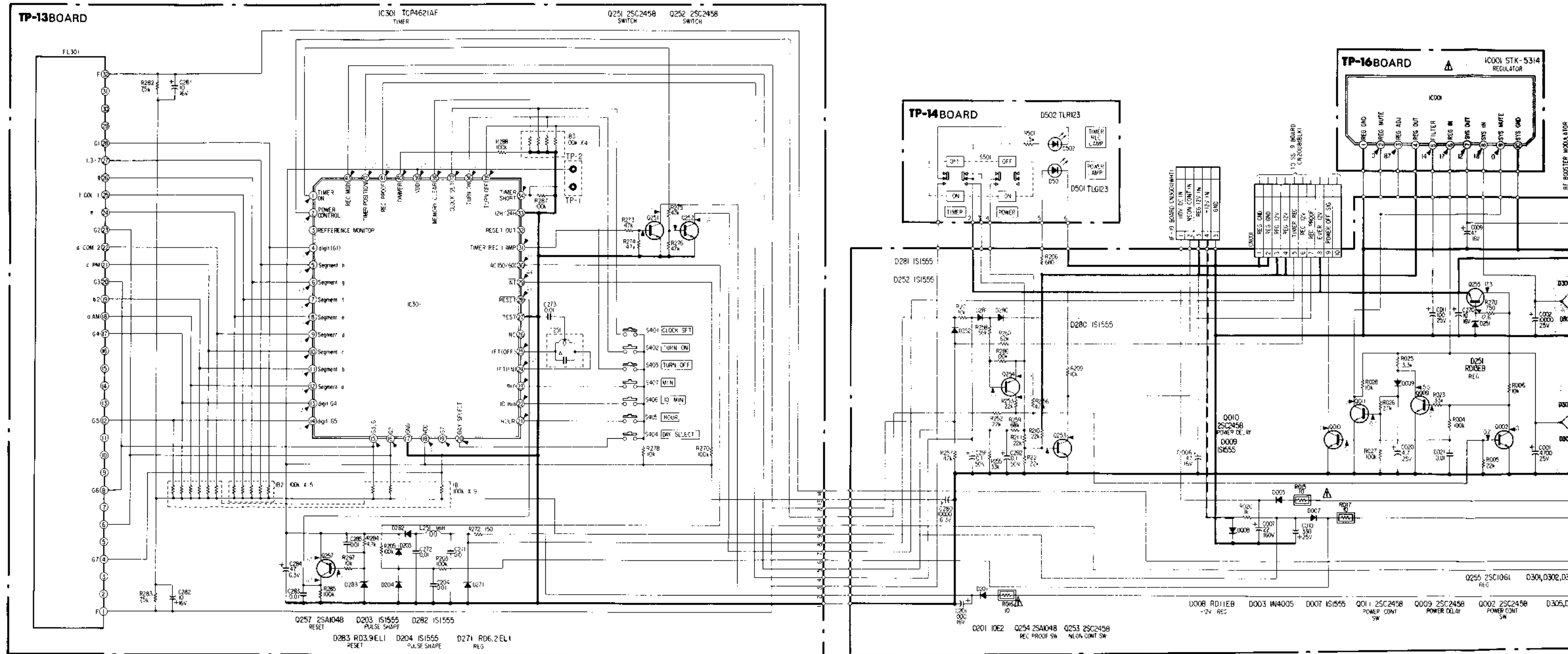


When indicating parts by reference number, please include the board name.

# POWER SUPPLY, TIMER POWER SUPPLY, TIMER

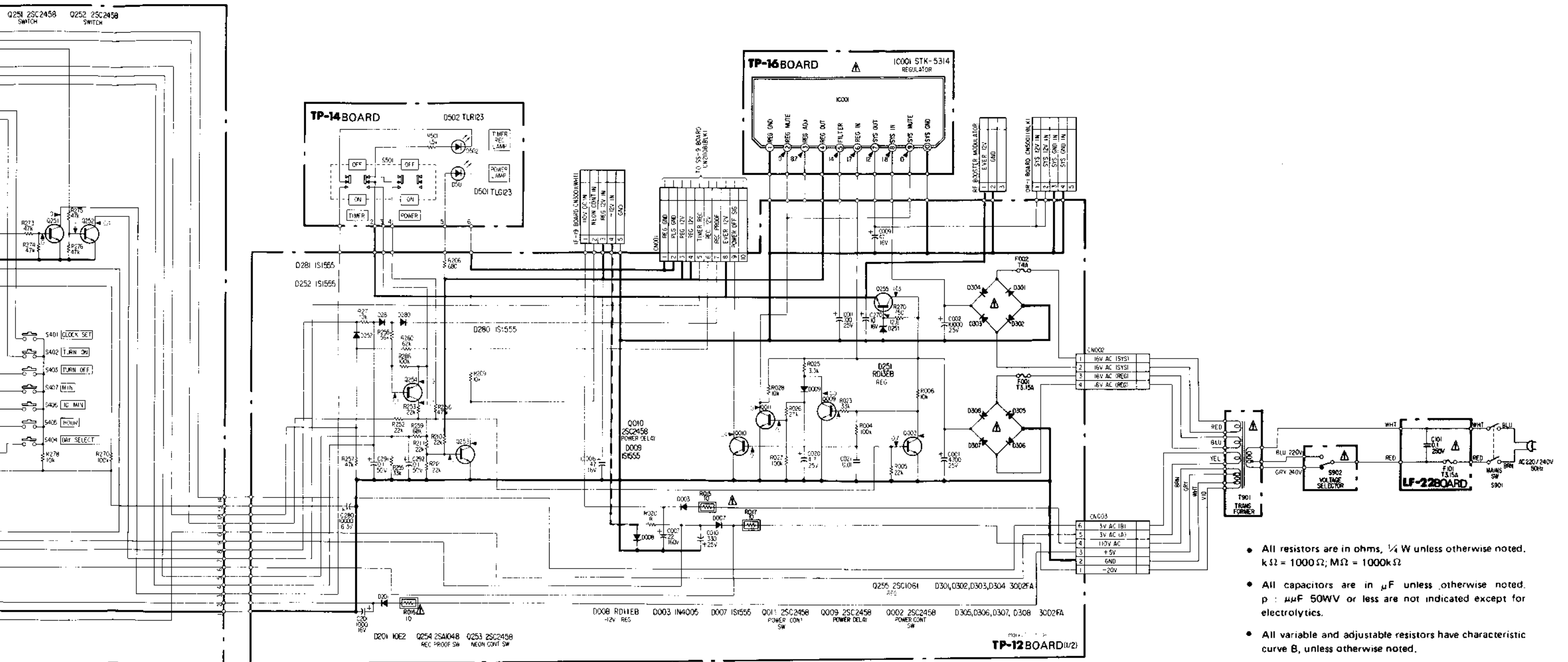
LF-22 (LINE FILTER), TP-12 (POWER SUPPLY, TUNER), TP-13 (TIMER CONTROL, TIMER PRESET) TP-14 (TIMER & POWER SWITCH), TP-16 (REGULATOR) BOARDS SCHEMATIC DIAGRAM

- Ref. No. LF-22, TP-12, TP-13, TP-14, TP-16 BOARD : 4000 series -





TP-14 (TIMER & POWER SWITCH), TP-16 (REGULATOR) BOARDS SCHEMATIC DIAGRAM



- All resistors are in ohms, 1/4 W unless otherwise noted. kΩ = 1000 Ω; MΩ = 1000k Ω
- 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.
- All voltages are dc measured with a VOM (20kΩ/V).

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

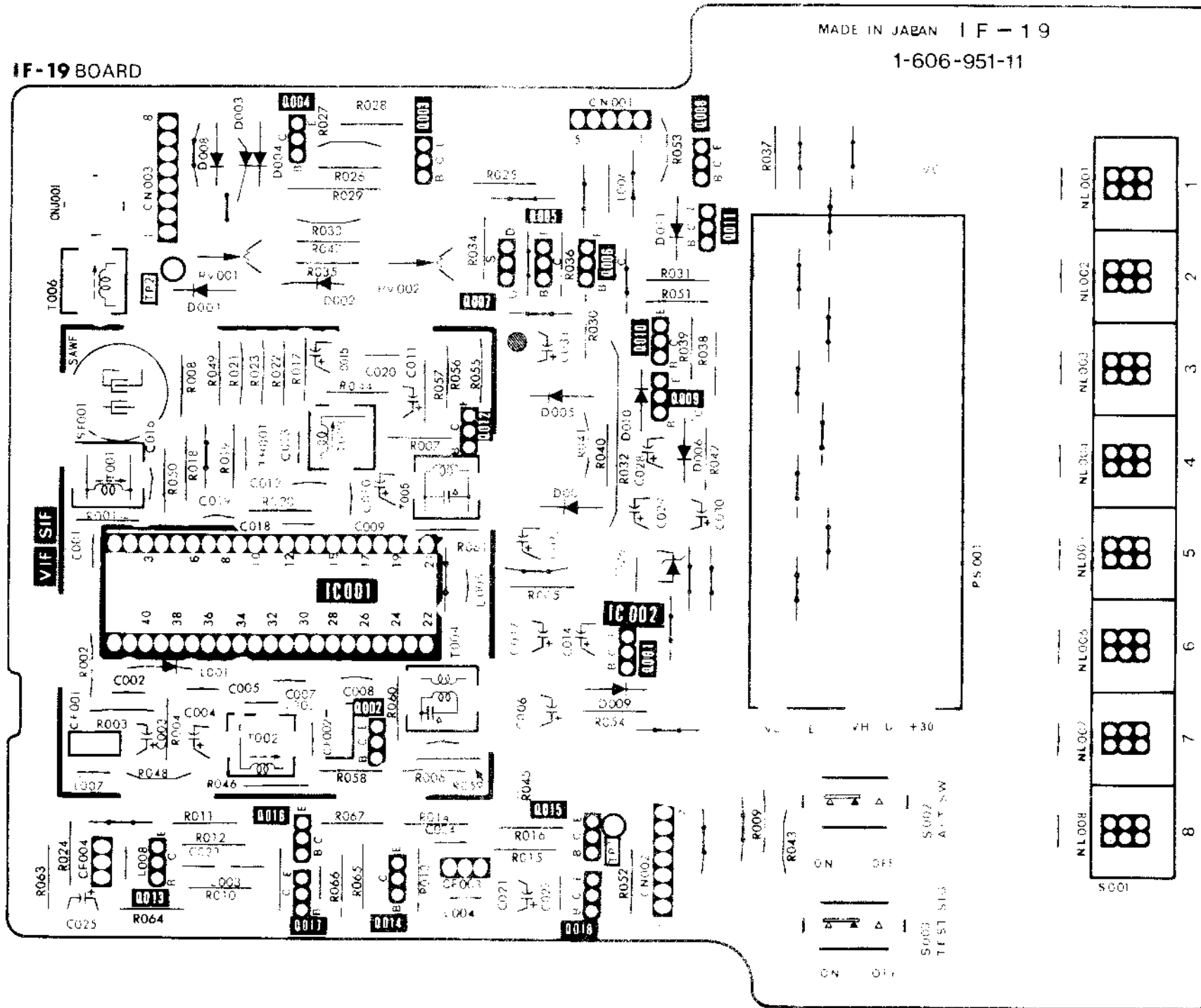
The components identified by shading and mark are critical for safety. Replace only with part number specified.

IF-19 (VIF, SIF, AFT, AGC BAND SELECTOR), MOUNTING DIAGRAM

- Ref. No. IF-19 BOARD : 3000 series -

- Conductor Side -

Q,	004	005	006	007	008	009	010	011	Q,
IC	001	002	003	004	005	006	007	008	IC
D	001	002	003	004	005	006	007	008	D
ADJ	RV00	RV01	RV02	RV03	RV04	RV05	RV06	RV07	ADJ

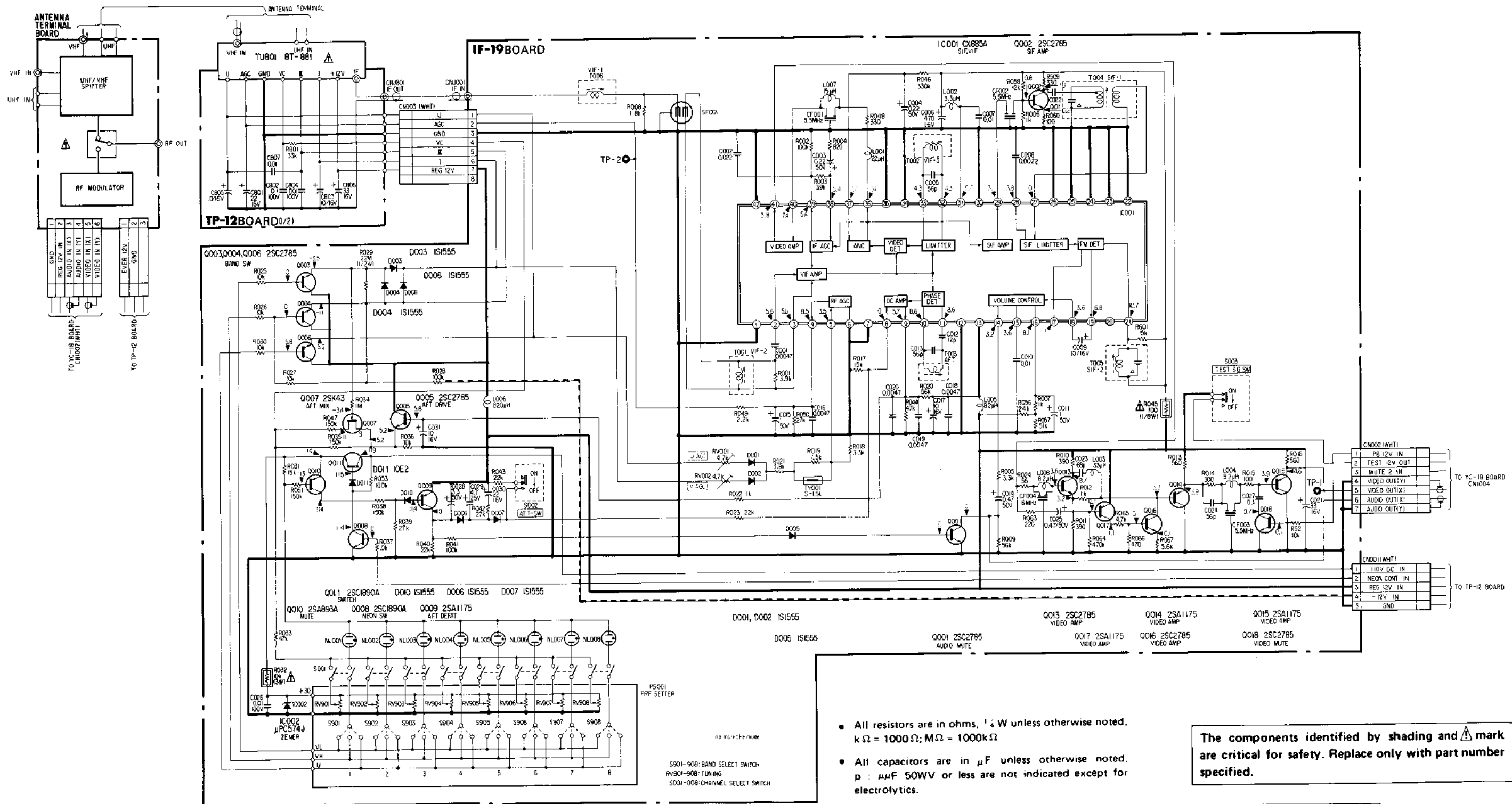



When indicating parts by reference number, please include the board name.

# TUNER TUNER

## IF-19 (VIF, SIF, AFT, AGC BAND SELECTOR, TP-12 (POWER SUPPLY, TUNER) BOARDS SCHEMATIC DIAGRAM

- Ref. No. IF-19 BOARD : 3000 series, TP-12 BOARD : 4000 series -



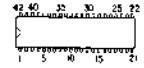
- All resistors are in ohms,  $\frac{1}{4}$  W unless otherwise noted.  $k\Omega = 1000\Omega$ ;  $M\Omega = 1000k\Omega$
- All capacitors are in  $\mu F$  unless otherwise noted.  $p = \mu F$  50WV or less are not indicated except for electrolytics.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : nonflammable resistor.
- The red lines show the main voltages.
- All voltages are dc measured with a VOM (20k $\Omega/V$ ).

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

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

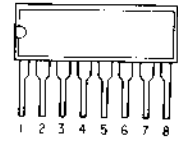
**SEMICONDUCTORS**

**BA5102**  
**CX885A**  
**μPD553C167**



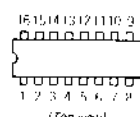
(Top view)

**CX7926**



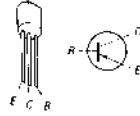
(Marking side view)

**TC4528BP**

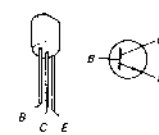


(Top view)

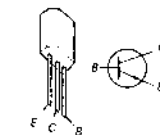
**2SA1016K**  
**2SA733**  
**2SA773**  
**2SA893A**  
**2SA925**  
**2SB739**



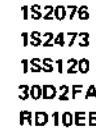
**2SC1209**



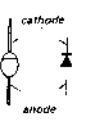
**2SC2840**  
**2SC403C**  
**2SC403SP**



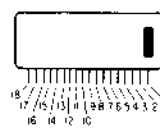
**10E1**  
**10E2**



**V06A**  
**V06C**  
**V06G**  
**V09G**

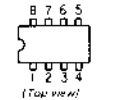


**BX1017**



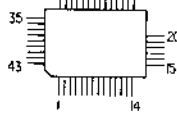
(Marking side view)

**CX7942**  
**M58478P**  
**μPC4556C**



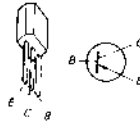
(Top view)

**TCPH621AF6**

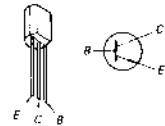


(Top view)

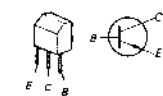
**2SA1027R**



**2SC1363**  
**2SC1364**

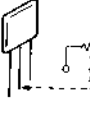


**2SC535**  
**2SD773**  
**2SD774**

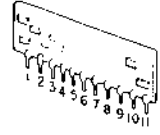


**1S1555**  
**1S2076**  
**1S2473**  
**1SS120**  
**30D2FA**  
**RD10EB1**  
**RD10EB2**  
**RD10EB3**  
**RD11EB2**  
**RD13EB1**  
**RD13EB2**  
**RD13EB3**  
**RD3.9EL1**  
**RD5.6EB2**  
**RD5.6EB3**  
**RD6.2EB2**  
**RD6.2EB3**  
**RD6.2EL1**  
**RD7.5EB1**  
**RD7.5EB2**

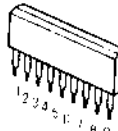
**DM101**



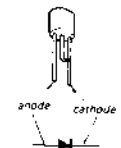
**BX1018**



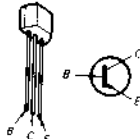
**CX894**



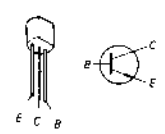
**μPC574J**



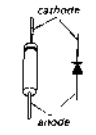
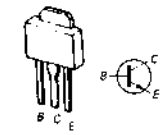
**2SA1048**  
**2SA1049**



**2SC1474**  
**2SC1475**  
**2SC1815**  
**2SC1890A**  
**2SC2362K**  
**2SC2603**  
**2SC945**  
**2SD786**  
**2SD788**  
**JC501**



**2SD1164**

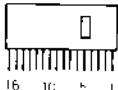


**BX1020**

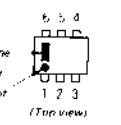


(Marking side view)

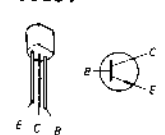
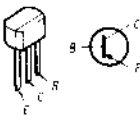
**SP-21A**



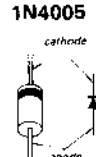
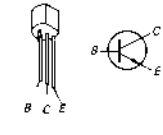
**CX130**



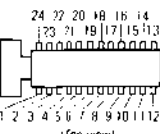
**2SA1115**



**2SD355**  
**2SD789**



**CX134A**  
**CX135**  
**CX136A**  
**CX143A**  
**CX186**  
**CX186M**  
**CX187**  
**CX187M**  
**CX832**



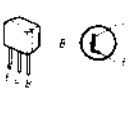
(Top view)

**SP22B**

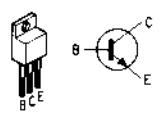


(Marking side view)

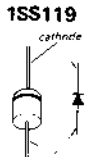
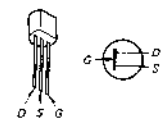
**2SA1175**



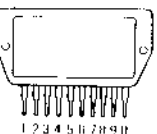
**2SC2315**  
**2SD313HP**



**2SK152**

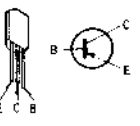


**STK5314**

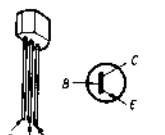


(Marking side view)

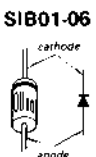
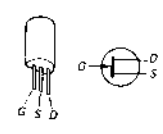
**2SA844**  
**2SB740**



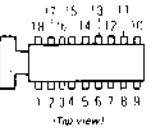
**2SC2458**  
**2SC2459**



**2SK43-2**

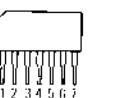


**CX145**

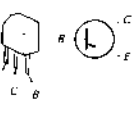


(Top view)

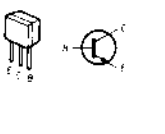
**TA7120P**



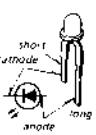
**2SB733**  
**2SB734**



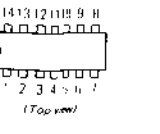
**2SC2785**



**TLG123**  
**TLR123**  
**TLY123**

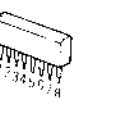


**CX150B**

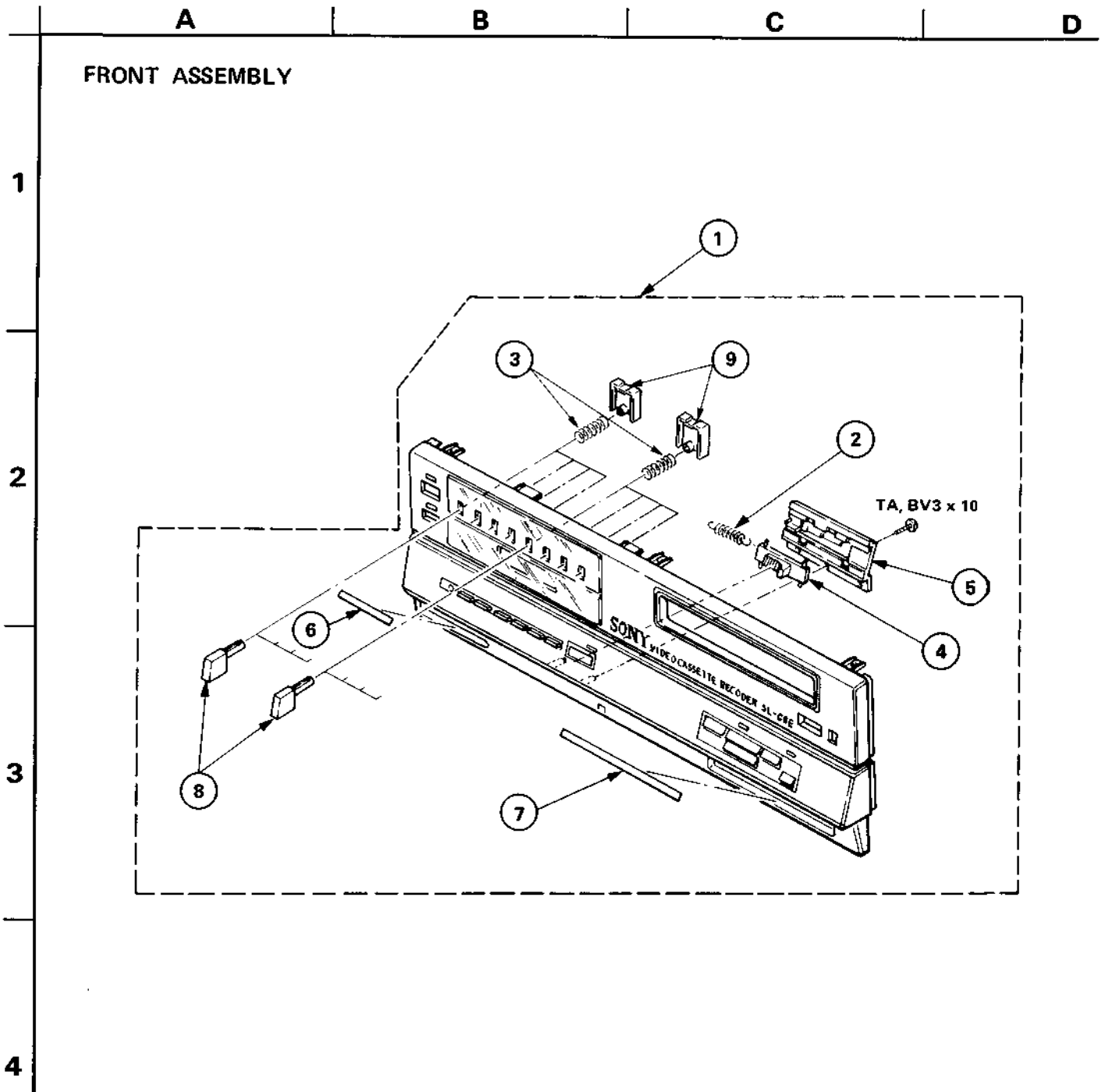


(Top view)

**TA7320P**



## SECTION 5 EXPLODED VIEWS



No.	Part No	Description	Remark	No.	Part No	Description	Remark
1	X-3674-106-0	PANEL ASSY, FRONT	2,3,4,5,6,7,8,9	6	3-674-104-00	LABEL (PAL), TRACK CONTROL	
2	3-489-099-01	SPRING, TENSION		7	3-674-102-00	LABEL (PAL), INPUT	
3	3-659-609-00	SPRING, COMPRESSION		8	3-671-117-21	BUTTON, CHANNEL	
4	3-671-110-11	BUTTON, REC		9	3-672-414-00	RETAINER (J), SPRING	
5	♣:3-671-111-04	RETAINER, REC BUTTON					

**NOTE:**

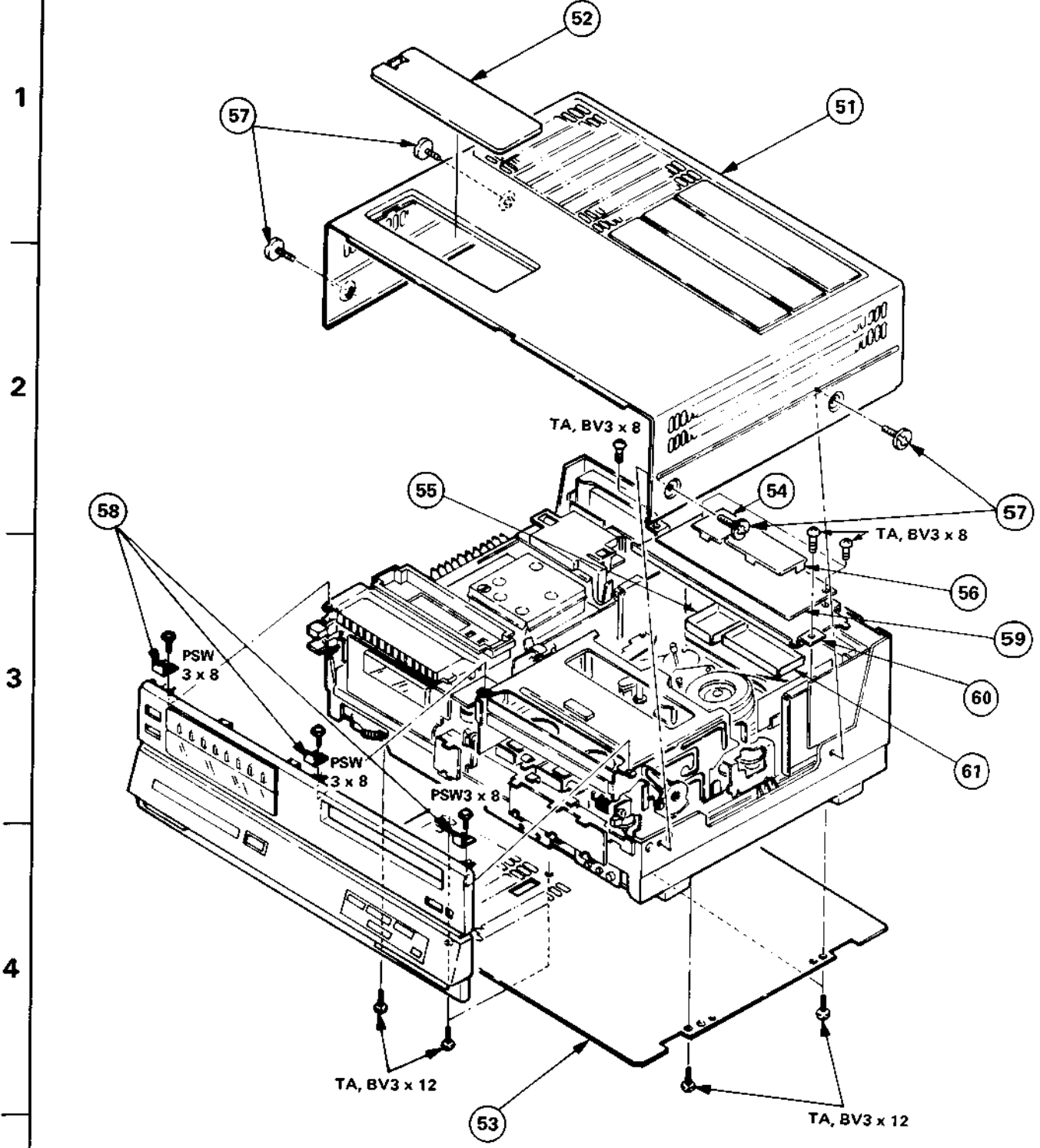
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

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

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

A                      B                      C                      D

# CABINET ASSEMBLY



No.	Part No	Description	Remark	No.	Part No	Description	Remark
51	3-671-222-51	CASE		57	4-847-802-11	SCREW, CASE STOPPER	
52	X-3674-105-0	LID ASSY		58	▲3-671-276-02	WASHER, TYPE L	
53	▲3-671-210-00	PLATE, BOTTOM		59	▲A-6728-417-A	AD-6 BOARD, COMPLETE	
54	▲3-674-136-00	CASE (C), SHIELD, AD		60	▲3-674-147-02	FRAME, AD	
55	▲3-674-135-00	CASE (A), SHIELD, AD		61	▲3-674-137-00	CASE (D), SHIELD, AD	
56	▲3-674-138-00	CASE (F), SHIELD, AD					

**NOTE:**

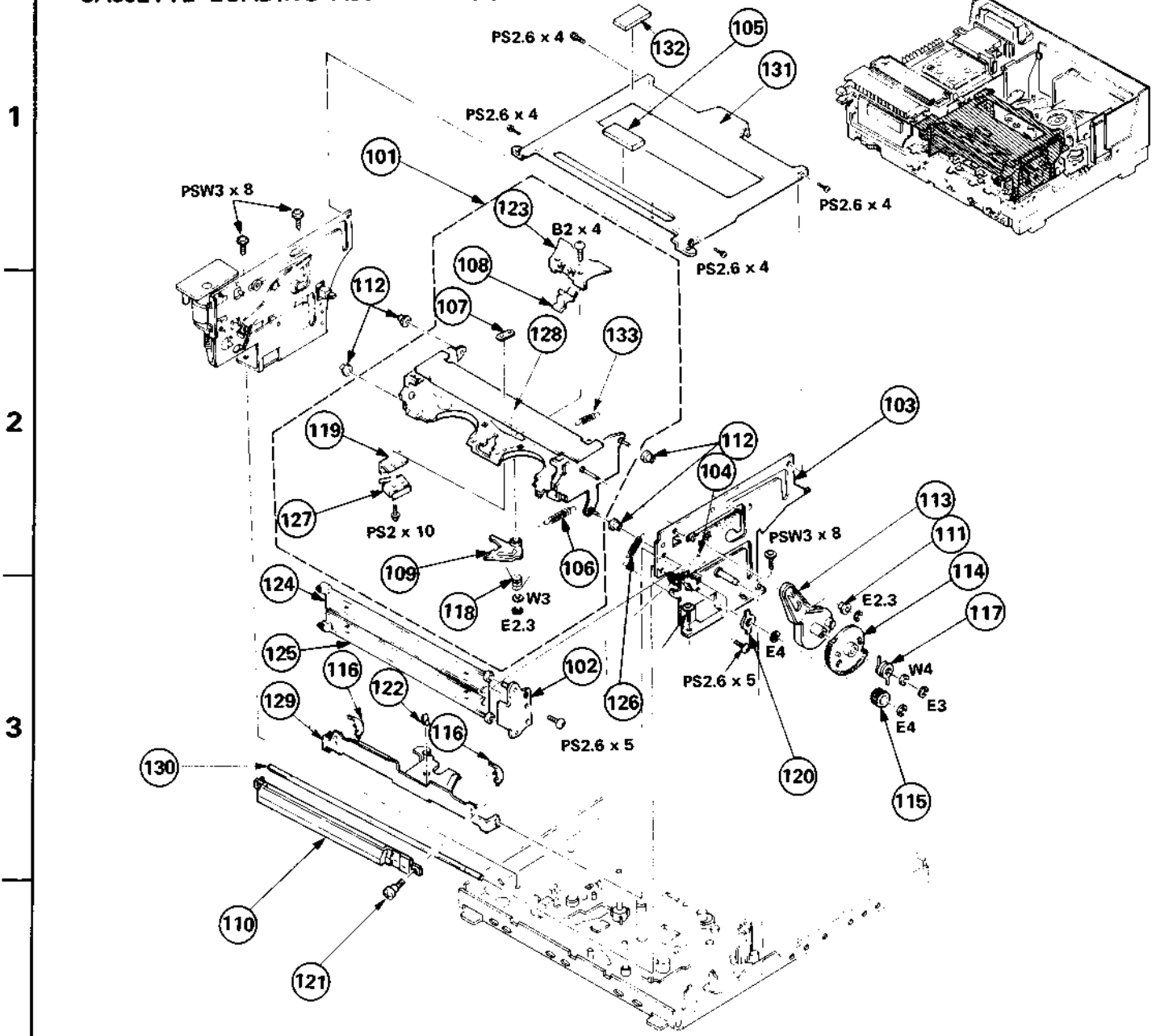
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

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

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

**A**                      **B**                      **C**                      **D**

## CASSETTE LOADING ASSEMBLY (1)



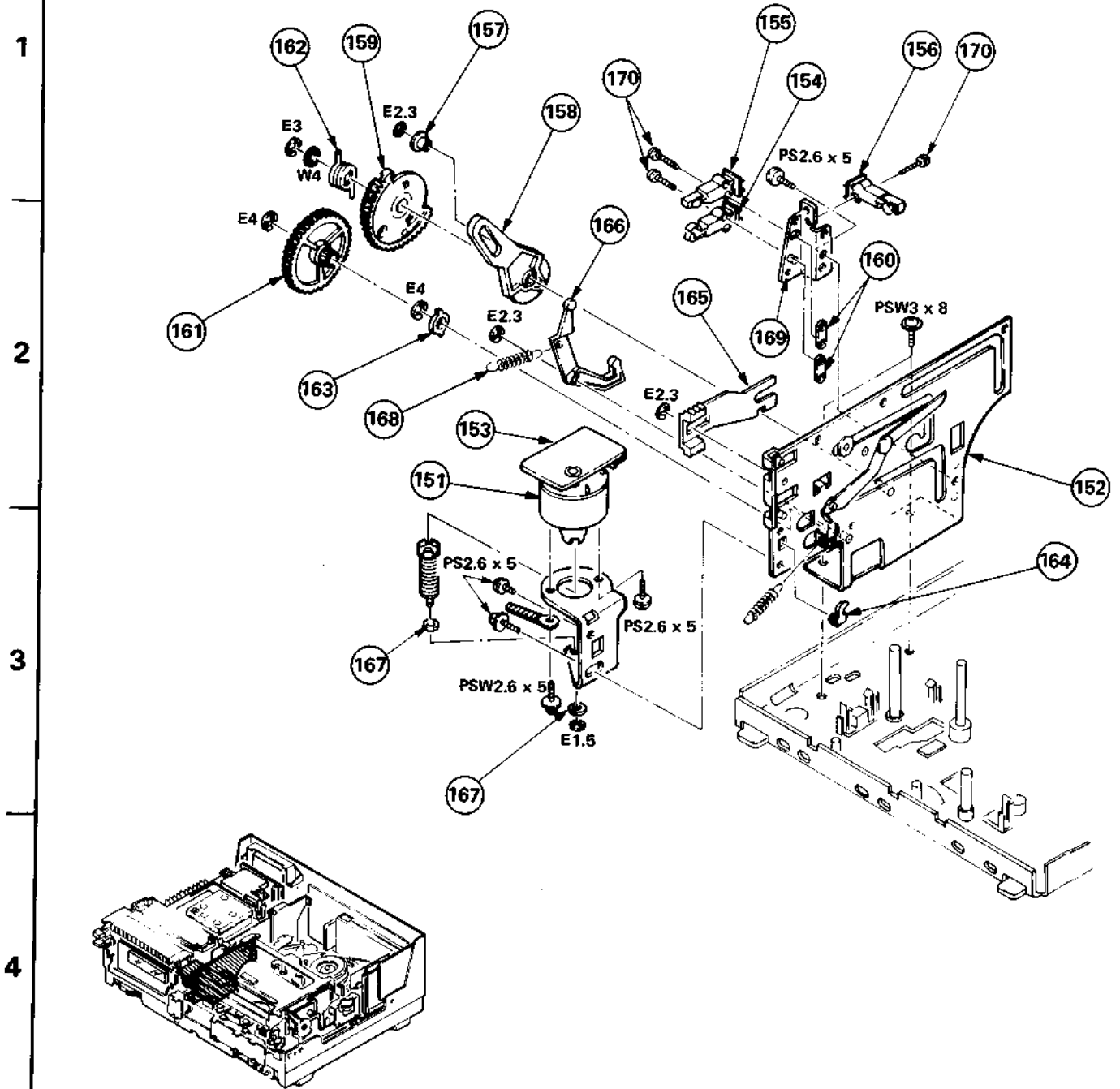
No.	Part No	Description	Remark	No.	Part No	Description	Remark
101	A-6751-125-B	BASE BLOCK ASSY, CASSETTE	106,107,108 109,118,119 123,128,133	117	3-671-040-00	SPRING	
102	▲: X-3671-016-0	PLATE ASSY, FULCRUM, DOOR		118	3-671-041-00	SPRING	
103	▲: X-3671-032-0	PLATE ASSY, SIDE, RIGHT	104,126	119	▲: 3-671-132-00	COVER, SWITCH, MICRO	
104	9-910-999-33	PLATE ASSY, PREVENTION, RIGHT		120	▲: 3-671-134-00	BEARING	
105	9-911-815-02	CUSHION		121	3-671-148-00	SCREW, INNER DOOR	
106	3-530-249-XX	SPRING, TENSION		122	▲: 3-671-150-00	CLAMP	
107	▲: 3-646-476-00	NUT, PLATE		123	▲: 3-671-155-03	COVER, FULCRUM	
108	▲: 3-671-008-00	ARM, LOCK RELEASE		124	3-671-164-00	DOOR, UPPER	
109	3-671-009-03	PLATE, LOCK		125	3-671-165-00	DOOR, LOWER	
110	3-671-015-21	DOOR, INNER		126	3-491-240-90	SPRING, TENSION	
111	▲: 3-671-016-00	BUSHING, MOVE ARM		127	1-552-665-00	SWITCH, MICRO	
112	3-671-018-00	ROLLER (B)		128	▲: 3-671-038-00	PLATE, TOP, BASE	
113	▲: 3-671-019-00	ARM, MOVE		129	▲: 3-671-158-00	JOINT	
114	3-671-021-00	GEAR, MOVE, RIGHT		130	▲: 3-671-028-00	SHAFT, WHEEL	
115	3-671-026-00	WHEEL, RIGHT		131	▲: 3-671-156-00	PLATE, TOP	
116	▲: 3-671-036-00	CHIP, CASSETTE GUIDE		132	9-911-839-XX	RUBBER (B), ABSORBENT	
				133	3-542-481-00	SPRING, TENSION	

**NOTE:**

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  - The construction parts of an assembled part are indicated with a collation number in the remark column.
  - As to the part numbered with E-, refer to the electrical parts list.
  - Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

A                      B                      C                      D

## CASSETTE LOADING ASSEMBLY (2)



No.	Part No	Description	Remark	No.	Part No	Description	Remark
151	A-6751-131-A	MOTOR ASSY, F.L.		161	3-671-027-00	WHEEL, WORM	
152	▲:X-3671-031-0	PLATE ASSY, SIDE, LEFT		162	3-671-040-00	SPRING	
153	▲:1-605-704-00	TT-5 BOARD		163	▲:3-671-134-00	BEARING	
154	▲:1-605-705-00	TT-2 BOARD		164	▲:3-671-150-00	CLAMP	
155	▲:1-605-706-00	TT-3 BOARD		165	3-671-157-00	RACK, DOOR	
156	▲:1-605-707-00	TT-4 BOARD		166	▲:3-671-035-00	ARM, SWITCHING	
157	▲:3-671-016-00	BUSHING, MOVE ARM		167	3-701-437-11	WASHER	
158	▲:3-671-019-00	ARM, MOVE		168	3-534-264-00	SPRING, TENSION	
159	3-671-020-00	GEAR, MOVE, LEFT		169	▲:3-671-024-00	BRACKET, SWITCH	
160	▲:3-671-023-00	PLATE, NUT		170	3-672-442-01	SCREW, +PSW 2x10	

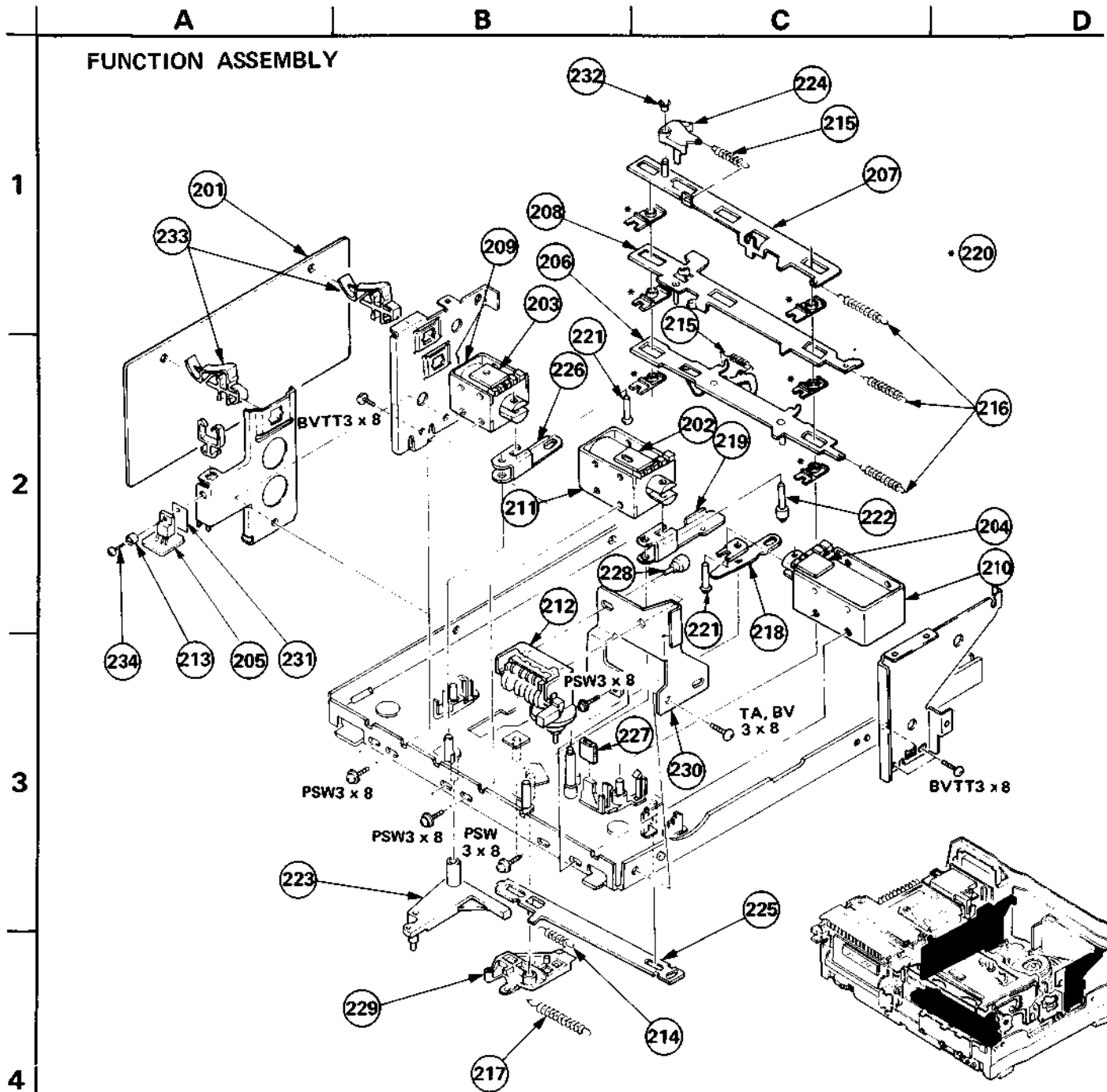
**NOTE:**

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- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
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The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.





No.	Part No	Description	Remark	No.	Part No	Description	Remark
201	▲:A-6728-305-A	DR-1 BOARD, COMPLETE		218	▲:3-671-052-00	LEVER, FE	
202	▲:1-605-698-00	DR-5 BOARD		219	▲:3-671-053-00	LEVER, FF	
203	▲:1-605-699-00	DR-6 BOARD		220	3-671-056-00	SPACER, SLIDE PLATE	
204	▲:1-605-700-00	DR-7 BOARD		221	▲:3-671-057-00	PIN, SOLENOID	
205	▲:1-605-703-00	DR-10 BOARD		222	▲:3-671-057-11	PIN, SOLENOID	
206	▲:X-3671-010-0	PLATE ASSY, SLIDE, FE		223	▲:3-671-079-00	LEVER, EJECT	
207	▲:X-3671-011-0	PLATE ASSY, SLIDE, RO		224	▲:3-671-082-00	ARM, RO SELECT	
208	▲:X-3671-012-0	PLATE ASSY, SLIDE, BS	216	225	▲:3-671-083-00	PLATE, SLIDE, EJECT	
209	▲:1-454-292-11	SOLENOID, PLUNGER (BS)		226	▲:3-671-088-00	LEVER, BS	
210	▲:1-454-293-11	SOLENOID, PLUNGER (FE)		227	3-671-093-00	BUSHING, MUFFLE	
211	▲:1-454-294-11	SOLENOID, PLUNGER (FF)		228	3-671-135-00	SCREW, STEP	
212	1-548-559-00	COUNTER, TAPE		229	▲:3-671-175-00	LEVER, RELAY	
213	2-832-007-00	BUSHING (K), INSULATING		230	▲:3-671-188-00	BRACKET, COUNTER	
214	3-533-223-11	SPRING, TENSION		231	3-701-754-00	PLATE, INSULATING	
215	3-642-490-00	SPRING, TENSION		232	3-703-074-00	CAP 3, SHAFT	
216	3-642-491-00	SPRING, TENSION		233	▲:3-703-141-00	HOLDER, PCB	
217	3-643-345-00	SPRING, TENSION (S)		234	3-669-607-21	+PSW (SMALL ROUND) (2.6)	

NOTE:

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- The construction parts of an assembled part are indicated with a collation number in the remark column.

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

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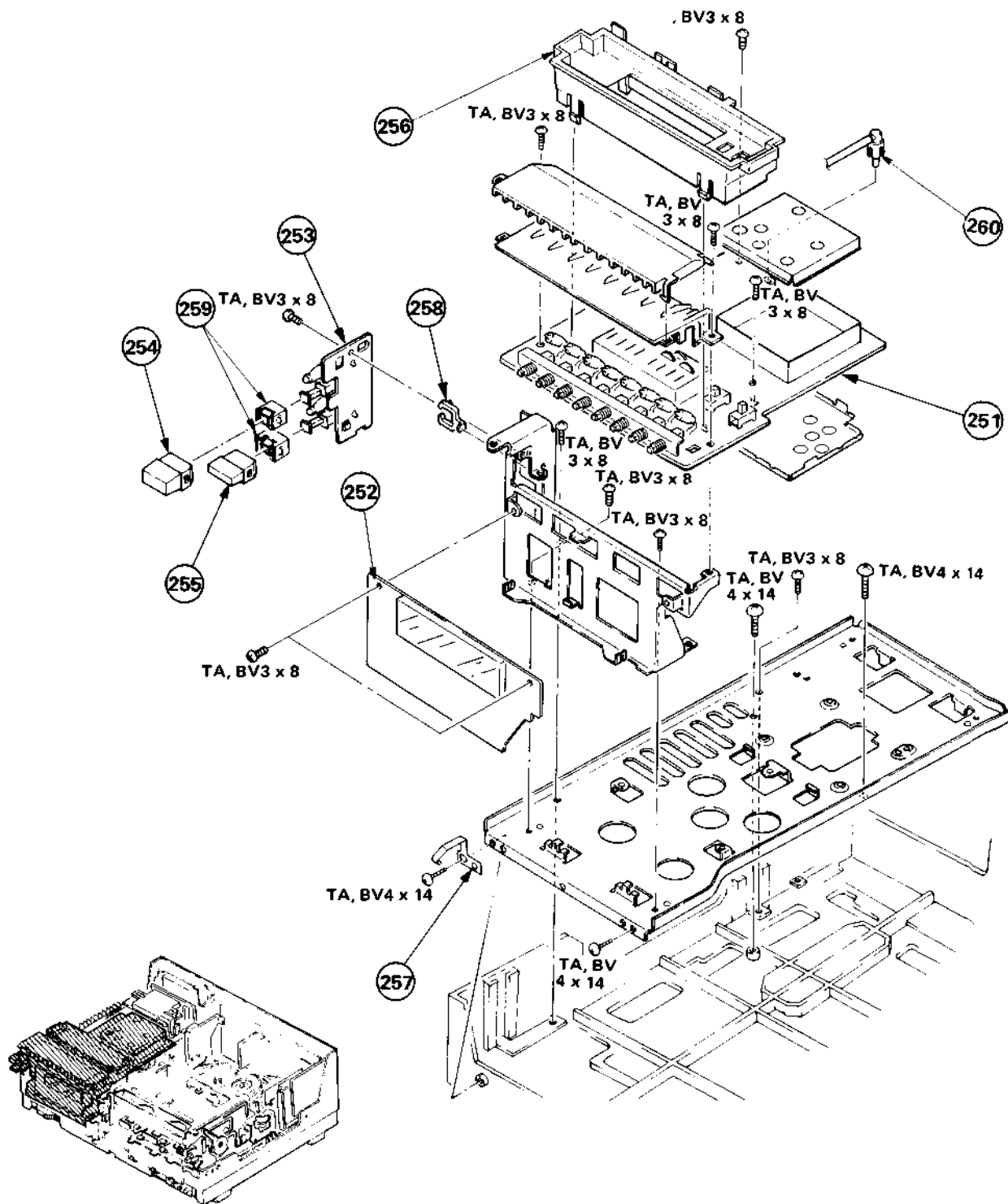
## TUNER/TIMER ASSEMBLY

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No.	Part No	Description	Remark	No.	Part No	Description	Remark
251	▲:A-6721-110-A	IF-19 BOARD, COMPLETE		256	3-674-122-00	COVER, PRESET	
252	▲:1-606-944-00	TP-13 BOARD		257	▲:3-671-254-00	SPRING, LEAF (A)	
253	▲:1-606-945-00	TP-14 BOARD		258	▲:4-310-385-00	HOLDER, WIRE	
254	3-671-115-00	BUTTON, POWER SWITCH		259	4-864-307-00	RING	
255	3-671-116-00	BUTTON, SWITCH, TIMER		260	▲:1-555-400-00	CABLE, PIN	

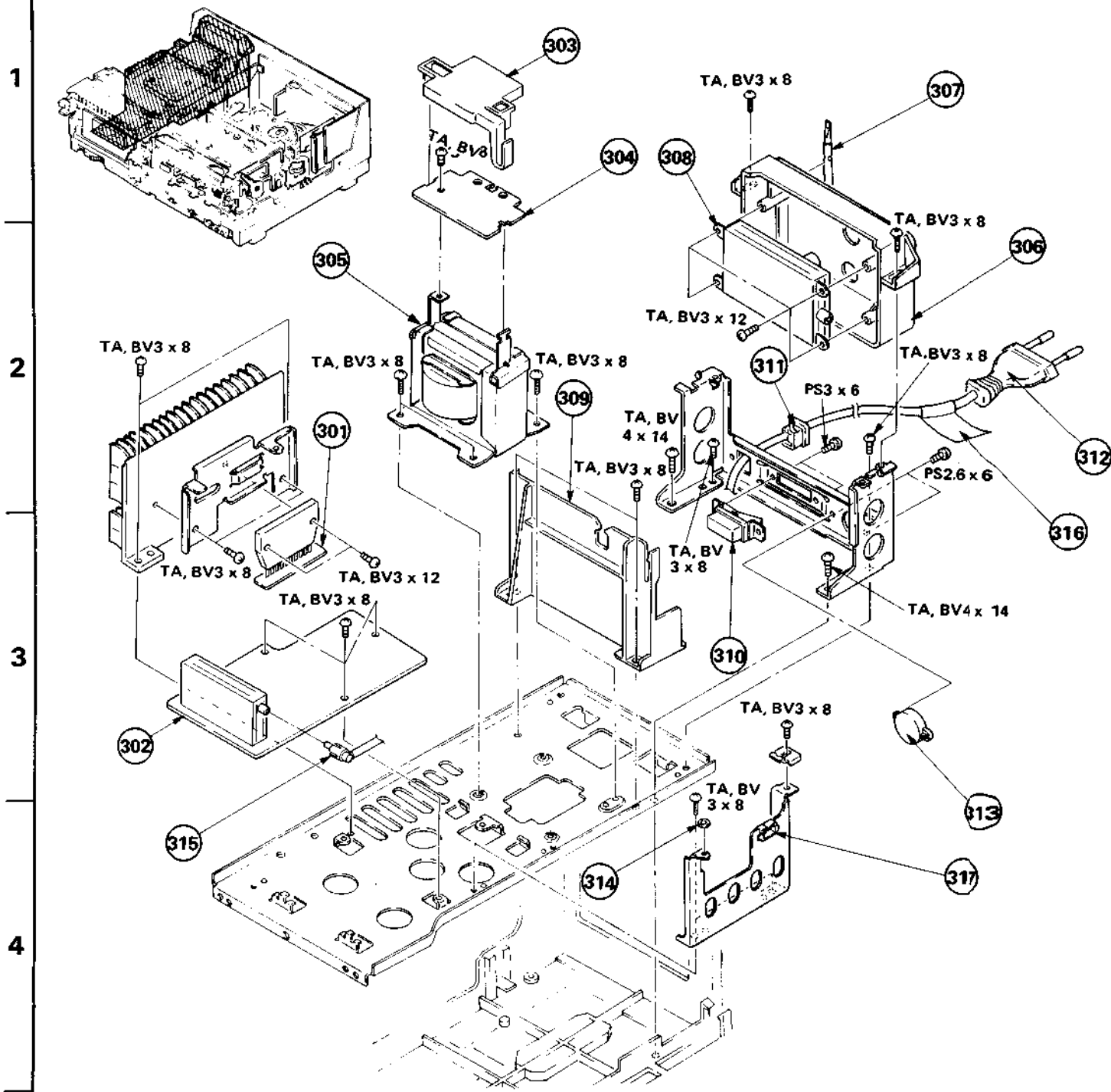
## NOTE:

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- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
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The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

TUNER/POWER ASSEMBLY



No.	Part No	Description	Remark	No.	Part No	Description	Remark
301	◆:1-606-946-00	TP-16 BOARD		310	▲:1-554-055-00	SWITCH, SEESAW (AC POWER)	
302	◆:A-6728-409-A	TP-12 BOARD, COMPLETE		311	▲:3-703-244-00	BUSHING, CORD	
303	◆:3-674-112-00	COVER, TERMINAL		312	▲:1-534-817-XX	CORD, POWER	
304	◆:1-606-949-00	LF-22 BOARD		313	▲:1-554-038-00	SWITCH, POWER VOLTAGE CHANGE	
305	▲:1-447-251-00	TRANSFORMER, PWOER		314	4-308-030-00	WASHER	
306	3-674-124-00	PANEL		315	◆:1-555-716-41	CABLE, PIN	
307	4-316-238-00	SCREW DRIVER, CONTROL		316	3-674-146-00	LABEL, CAUTION, AC CORD	
308	▲:1-464-189-00	MODULATOR, RF (RBM-210-E)		317	◆:4-310-385-00	HOLDER, WIRE	
309	◆:3-674-125-00	PLATE, SHIELD					

NOTE:

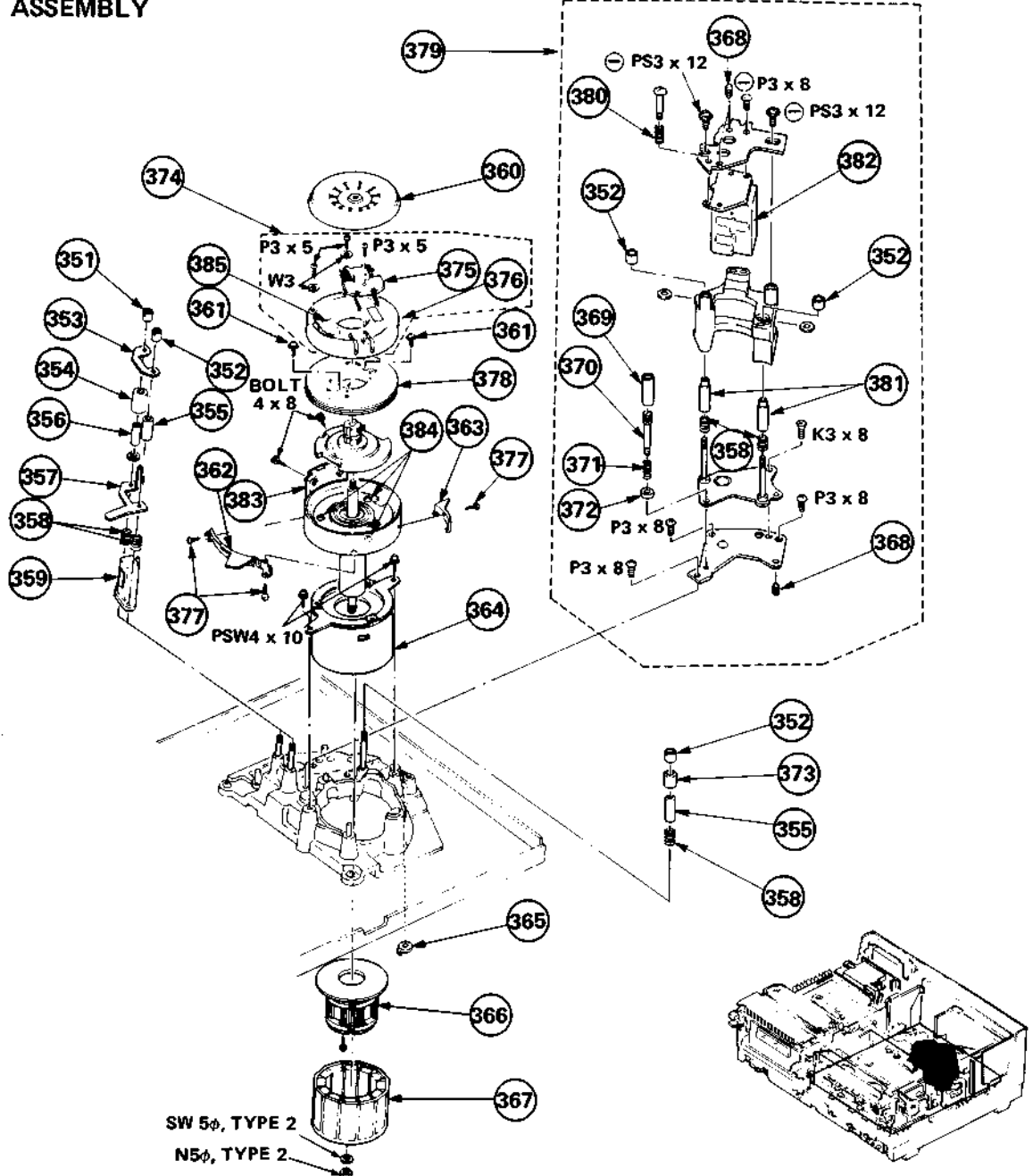
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- The construction parts of an assembled part are indicated with a collation number in the remark column.
- As to the part numbered with E-, refer to the electrical parts list.
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The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

**A**                      **B**                      **C**                      **D**

**DRUM ASSEMBLY**

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No.	Part No	Description	Remark	No.	Part No	Description	Remark
351	3-659-345-00	NUT, GUIDE, NO.1		369	3-659-752-00	NUT, A.C.E ROCK	
352	3-660-997-00	NUT (N), GUIDE ADJUSTMENT		370	3-659-751-00	SCREW, A.C.E ADJUSTMENT	
353	3-659-344-00	PLATE, GUIDE, ENTRANCE		371	3-659-750-00	SPRING, COMPRESSION	
354	X-3659-304-0	ROLLER ASSY, GUIDE, NO.1		372	▲:3-671-121-00	SPACER, SCREW, ADJUSTMENT	
355	3-659-342-00	SLEEVE, GUIDE, NO.2		373	3-659-716-00	FLANGE, GUIDE	
356	3-659-341-00	SLEEVE, GUIDE, NO.1		374	A-6760-050-A	DRUM SUB ASSY, UPPER	375, 376
357	▲:3-659-343-00	BRACKET, TAPE, ENTRANCE		375	A-6761-013-B	SPRING ASSY	
358	3-659-324-00	SPRING, COMPRESSION		376	▲:3-652-774-00	DRUM, UPPER	
359	8-825-687-30	HEAD, FULL ERASE EF182-21		377	3-662-910-00	SCREW (IRIS) + P 3x8	
360	3-658-122-00	FAN		378	A-6762-035-A	DRUM ASSY, ROTARY (DSR-08)	
361	3-652-751-00	SCREW (+ P EXT TOOTH W S 3x8)		379	A-6761-046-A	ACE ASSY	352, 358, 368, 369, 370, 371, 372, 380, 381, 382
362	3-652-741-00	BRACKET (A), TAPE		380	3-645-513-00	SPRING, HEAD DECK ADJUSTMENT	
363	3-652-728-00	BRACKET (B), TAPE		381	3-645-562-00	NUT	
364	▲:X-3652-713-0	CASE ASSY, SHIELD		382	8-825-530-20	HEAD, ACE (EPP235-2102)	
365	3-610-939-50	NUT, TAPE GUIDE		383	▲:3-652-725-00	BOARD, SHIELD	
366	X-2619-403-0	STATOR ASSY		384	3-652-750-00	SCREW (+ PSW SMALL 3x12)	
367	▲:X-2619-402-0	ROTOR ASSY		385	▲:3-662-101-00	LABEL, MODEL NUMBER	
368	3-659-332-00	SCREW					

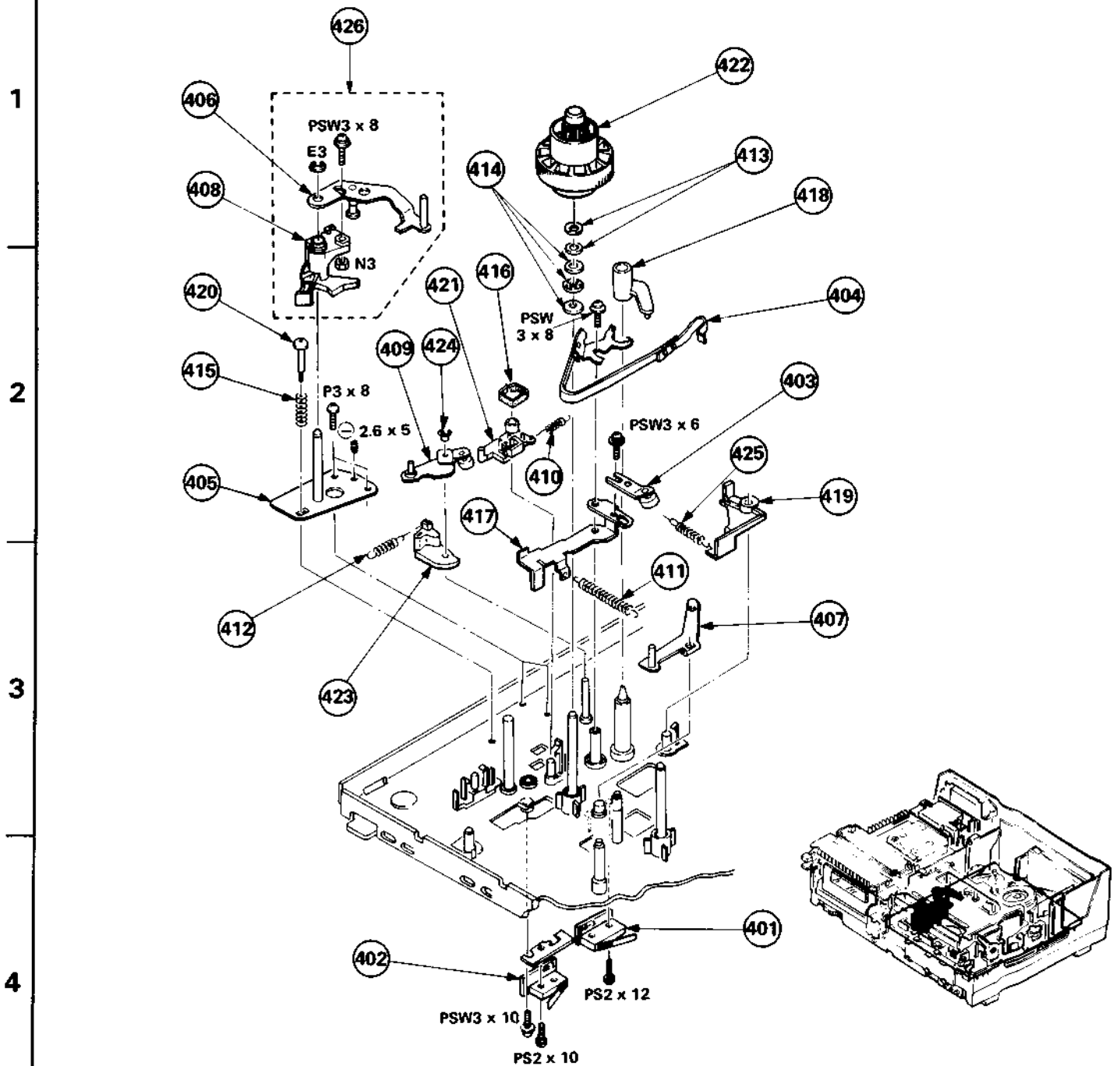
**NOTE:**

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- As to the part numbered with E-, refer to the electrical parts list.
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The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

# CHASSIS ASSEMBLY (1)




No.	Part No	Description	Remark	No.	Part No	Description	Remark
401	• 1-605-695-00	DR-2 BOARD		414	3-646-185-00	BEARING	
402	• 1-605-696-00	DR-3 BOARD		415	3-652-413-00	SPRING, COMPRESSION	
403	X-3659-323-0	PLATE ASSY, ADJUSTMENT, R		416	3-659-446-00	LINING, BRAKE	
404	X-3659-328-2	RAND ASSY, TENSION REGULATOR		417	• 3-671-062-00	ARM, RING	
405	• X-3671-006-0	PLATE ASSY, ADJUSTMENT		418	• 3-671-091-02	CAM, FWD	
406	• X-3671-007-0	PLATE ASSY, ARM		419	• 3-671-101-00	LEVER (E), SWITCH	
407	• X-3671-021-0	LINK ASSY, FWD		420	3-671-143-00	SCREW, ADJUSTMENT	
408	• X-3671-038-0	ARM ASSY, TENSION REGULATOR		421	3-671-149-00	BRAKE, S	
409	• X-3671-042-0	LEVER ASSY, PUSH-OUT		422	X-3671-054-0	TABLE ASSY, S REEL	
410	3-534-217-00	SPRING, TENSION		423	• 3-671-184-02	LINK, TENSION, REGULATOR	
411	3-536-249-00	SPRING, TENSION		424	3-703-074-00	CAP 3, SHAFT	
412	3-646-138-00	SPRING		425	4-847-561-00	SPRING, TENSION	
413	3-646-184-00	SPACER		426	• A-6742-040-A	UNIT SUB ASSY	406, 408

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

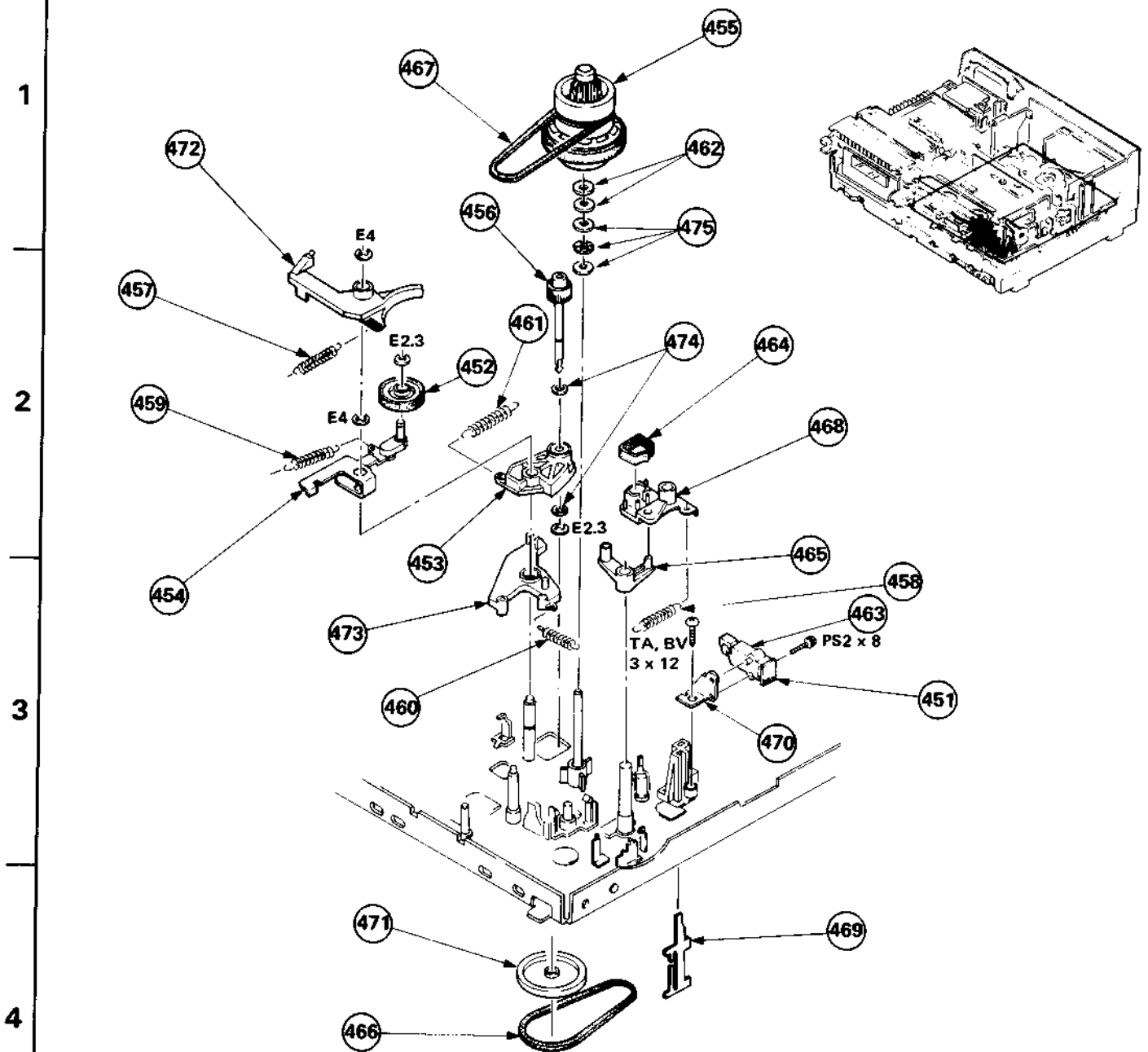
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## CHASSIS ASSEMBLY (2)



No.	Part No	Description	Remark	No.	Part No	Description	Remark
451	▲:1-605-697-00	DR-4 BOARD		464	3-659-446-00	LINING, BRAKE	
452	X-3653-315-0	IDLER ASSY		465	▲:3-671-055-00	ARM, TB	
453	▲:X-3671-002-2	ARM ASSY, FF		466	3-671-077-00	BELT, FF	
454	▲:X-3671-003-0	ARM ASSY, REW		467	3-671-094-00	BELT, COUNTER	
455	X-3671-053-0	TABLE ASSY, T REEL		468	3-671-102-00	BRAKE, T	
456	X-3671-023-3	PULLEY (SMALL) ASSY, FF		469	▲:3-671-107-00	PLATE, ERASING PROTECTION	
457	3-143-096-00	SPRING, TENSION		470	▲:3-671-108-00	BRACKET, SWITCH	
458	3-534-217-00	SPRING, TENSION		471	3-671-170-00	PULLEY (LARGE), FF	
459	3-567-110-00	SPRING, TENSION		472	▲:3-671-173-00	ARM, BRAKE, SOFT	
460	3-642-633-00	SPRING, TENSION		473	▲:3-671-179-00	ARM, LIMITER, FF	
461	3-645-163-00	SPRING, TENSION		474	3-701-439-21	WASHER	
462	3-646-184-00	SPACER		475	3-646-185-00	BEARING	
463	1-553-847-00	SWITCH, LEVER					

## NOTE:

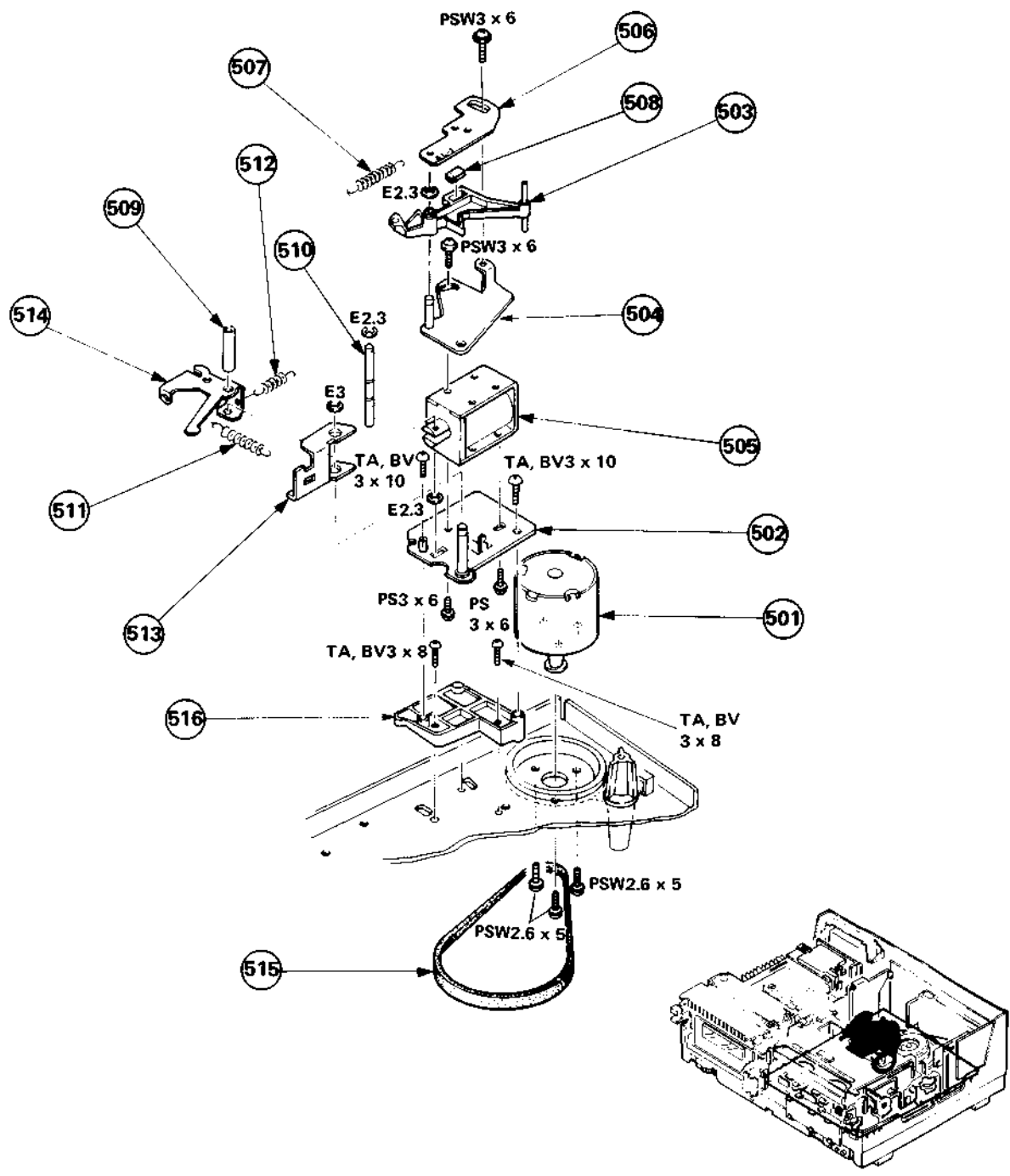
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CHASSIS ASSEMBLY (3)

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No.	Part No	Description	Remark	No.	Part No	Description	Remark
501	8-835-070-11	MOTOR, DC		509	▲:3-658-194-00	SPACER (4-25)	
502	▲:X-3671-008-0	BASE ASSY, SOLENOID, PINCH		510	▲:3-659-780-00	PIN, LEVER, PINCH PRESS	
503	X-3659-310-4	ARM ASSY, DETECTION, SLACK		511	3-659-784-00	SPRING, TENSION	
504	X-3671-046-5	BASE ASSY, SLACK DETECTION		512	3-659-785-00	SPRING, TENSION	
505	▲.1-454-295-00	SOLENOID, PLUNGER (PINCH)		513	▲:3-671-063-00	LEVER (A), PRESS, PINCH	
506	▲:A-6728-304-A	SL-1 BOARD, COMPLETE		514	▲:3-671-064-00	LEVER (B), PRESS, PINCH	
507	3-642-490-00	SPRING, TENSION		515	3-659-351-00	BELT, CAPSTAN	
508	3-646-571-00	MAGNET		516	▲:3-671-186-00	BASE, SOLENOID, PINCH	

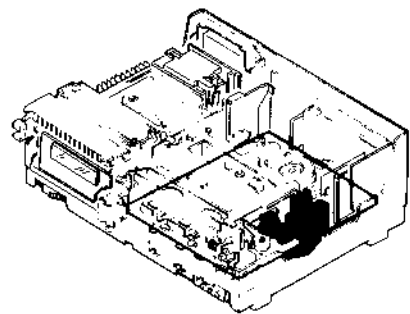
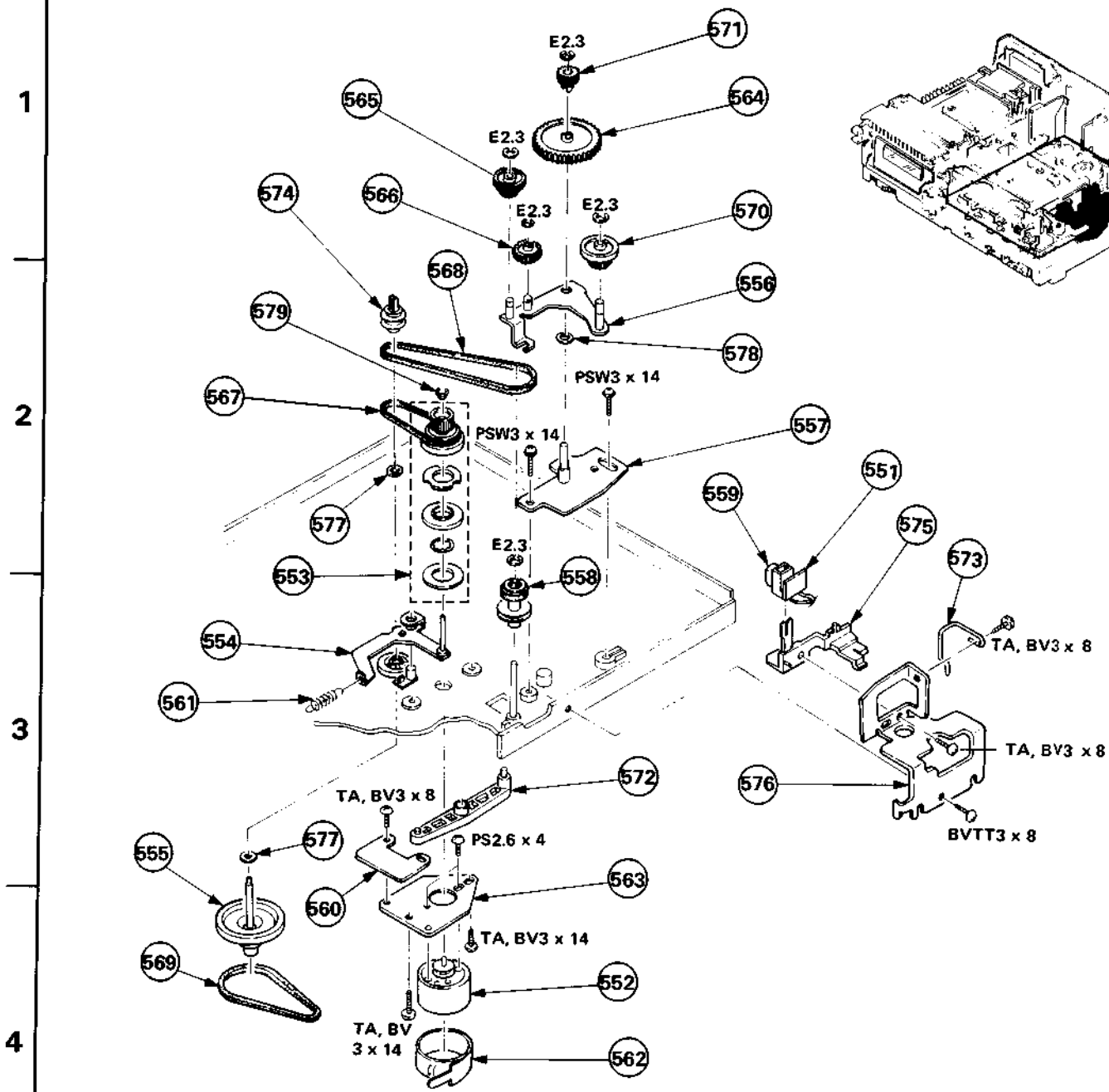
NOTE:

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**A**                      **B**                      **C**                      **D**

## CHASSIS ASSEMBLY (4)



No.	Part No	Description	Remark	No.	Part No	Description	Remark
551	♣:1-605-702-00	DR-9 BOARD		566	3-671-071-00	GEAR (E), THREADING	
552	A-6737-101-A	MOTOR ASSY, REEL		567	3-671-078-00	BELT, FWD	
553	A-6740-072-A	REMITTER ASSY, FWD	577	568	3-671-098-00	BELT, THREADING	
554	♣:X-3671-001-0	ARM ASSY, FWD		569	3-671-120-00	BELT, RELAY	
555	X-3671-005-0	PULLEY (LARGE) ASSY, RELAY		570	3-671-126-00	GEAR (C), THREADING	
556	♣:X-3671-013-0	LEVER ASSY, GEAR		571	3-671-127-00	GEAR (A), THREADING	
557	♣:X-3671-014-0	BASE ASSY, GEAR		572	♣:3-671-129-00	ARM, CHANGE	
558	X-3671-015-0	PULLEY ASSY, LOADING		573	♣:3-671-131-00	ARM, REMOVAL, ELECTROSTATIC	
559	1-543-145-00	HEAD, SENSING		574	3-671-171-00	PULLEY (SMALL), RELAY	
560	♣:A-6728-315-A	FL-2 BOARD, COMPLETE		575	♣:3-671-174-00	HOLDER, SENSOR, T	
561	3-642-483-00	SPRING, TENSION		576	♣:3-671-180-00	LID OPEN	
562	♣:3-664-333-00	PLATE, SHIELD, MOTOR		577	3-701-443-11	WASHER	
563	♣:3-671-060-00	BRACKET, MOTOR		578	3-701-443-21	WASHER, 5	
564	3-671-069-00	GEAR (B), THREADING		579	3-703-075-00	CAP 2, SHAFT	
565	3-671-070-00	GEAR (D), THREADING					

**NOTE:**  
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 • The construction parts of an assembled part are indicated with a collation number in the remark column.

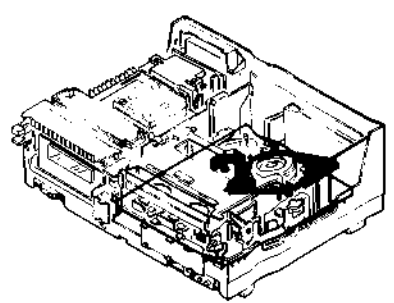
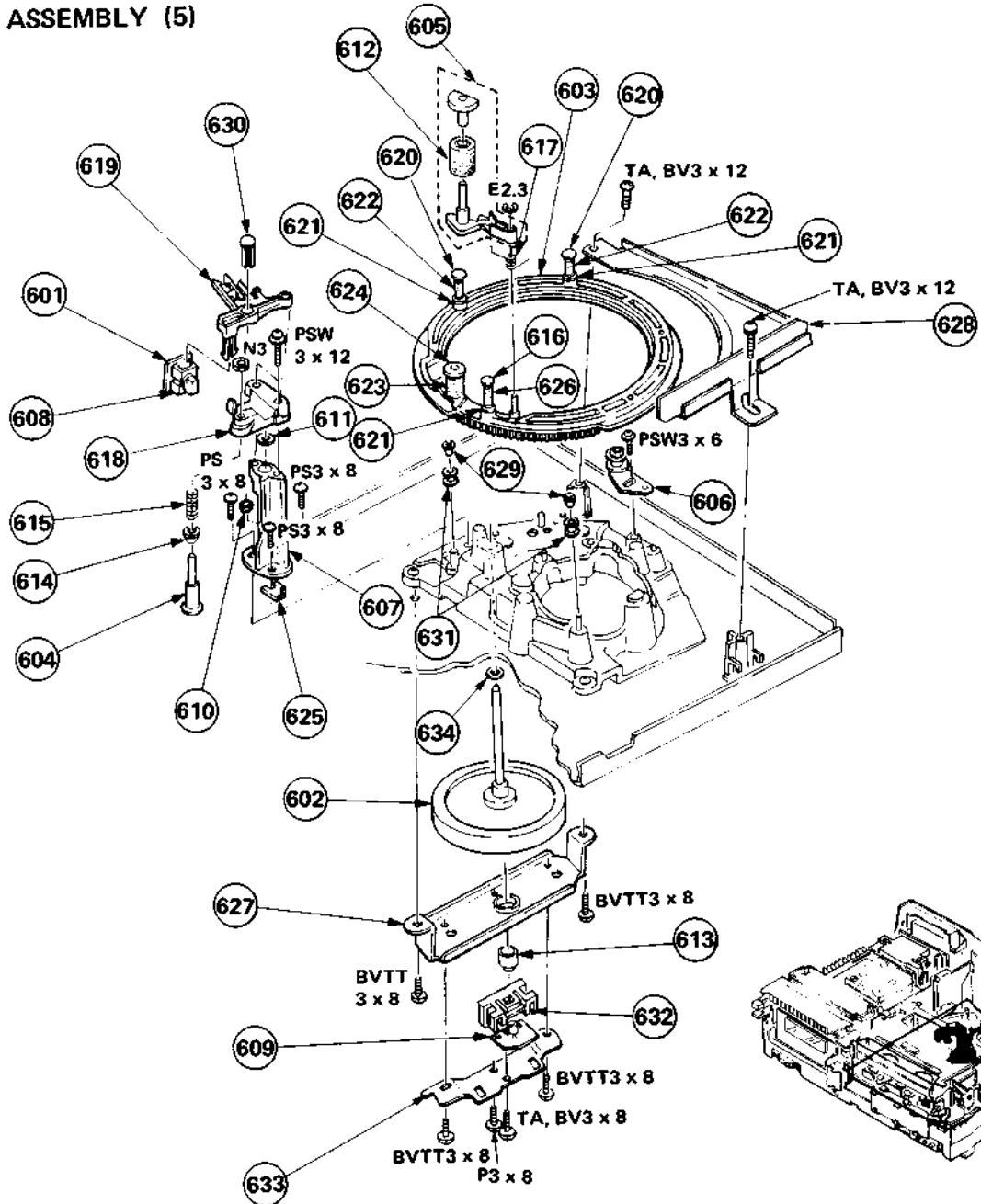
• As to the part numbered with E-, refer to the electrical parts list.  
 • Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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



# CHASSIS ASSEMBLY (5)

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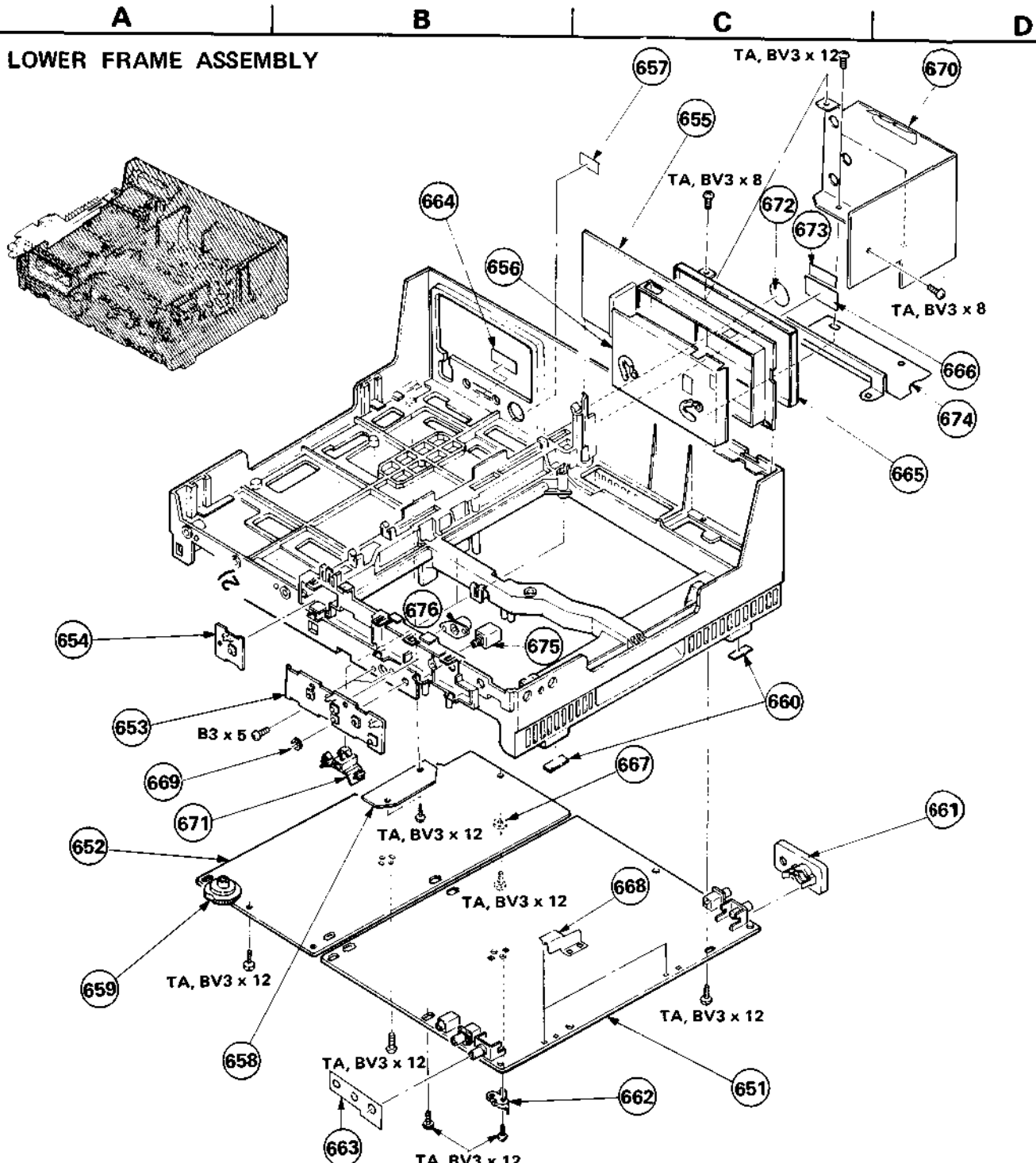
No.	Part No	Description	Remark	No.	Part No	Description	Remark
601	▲:1-605-701-00	DR-8 BOARD		617	3-659-388-00	SPRING	
602	A-6737-106-A	CAPSTAN BLOCK ASSY		618	3-659-551-00	FRAME, GUIDE, NO.0	
603	A-6750-135-A	RING BLOCK ASSY, THREADING	605,616,617 620,621,622 623,624,626	619	▲:3-659-632-00	HOLDER, S SENSOR	
604	X-3659-308-0	GUIDE ASSY, NO.0		620	▲:3-659-643-00	CAP(SMALL)(UPPER), GUIDE ROLLER	
605	X-3659-337-0	ARM ASSY, PINCH ROLLER	612	621	▲:3-659-644-00	CAP(SMALL)(LOWER), GUIDE ROLLER	
606	▲:X-3664-337-0	SUPPORT ASSY, RING ROLLER		622	▲:3-659-645-00	ROLLER (SMALL), GUIDE	
607	X-3674-101-0	HOUSING ASSY, CAPSTAN		623	▲:3-659-646-00	ROLLER (LARGE), GUIDE	
608	1-543-145-00	HEAD, SENSING		624	▲:3-659-647-00	CAP(LARGE)(UPPER), GUIDE ROLLER	
609	▲:1-605-708-00	FG-2 BOARD		625	3-659-759-11	SPACER, CAPSTAN	
610	3-646-182-00	CAP, OIL		626	▲:3-660-912-00	ROLLER, PRECEDING GUIDE	
611	3-646-183-00	ABSORBER, CAPSTAN OIL		627	▲:3-671-191-00	RETAINER, CAPSTAN	
612	X-365-251-03	PINCH ROLLER ASSY		628	▲:3-672-402-00	PLATE, GUIDE	
613	3-659-314-00	RETAINER, THRUST		629	3-703-074-00	CAP 3, SHAFT	
614	3-659-337-00	FLANGE, NO.0 GUIDE UPPER		630	4-829-039-00	RIVET, NYLON	
615	3-659-338-00	SPRING, COMPRESSION		631	3-659-391-00	ROLLER, RING	
616	▲:3-659-385-00	CAP (LARGE), GUIDE ROLLER		632	3-658-161-00	HOLDER, DME	
				633	▲:3-659-313-00	PLATE, ADJUSTMENT, DME	
				634	3-701-441-21	WASHER	

**NOTE:**

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

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

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



No.	Part No	Description	Remark	No.	Part No	Description	Remark
651	▲:A-6711-339-A	YC-18 BOARD, COMPLETE		664	3-674-101-00	LABEL, SWITCH, MAINS	
652	▲:A-6713-126-A	SS-9E BOARD, COMPLETE		665	▲:3-674-149-00	CASE (C), SHIELD, RF	
653	▲:1-605-687-00	FS-11 BOARD		666	▲:3-674-118-00	LABEL, MODEL NUMBER (AEP)	
654	▲:1-605-688-00	FS-12 BOARD		667	4-308-030-11	WASHER, DOUBLE STICK TAPE	
655	▲:A-6728-416-A	RF-4 BOARD, COMPLETE		668	▲:3-671-252-00	PLATE (D), GROUND	
656	▲:X-3674-104-0	CASE (A) ASSY, SHIELD, RF		669	3-671-260-00	NUT, ROUND, KNURL	
657	3-674-105-00	LABEL, MARK		670	▲:X-3674-116-0	PLATE ASSY, SHIELD, REAR	
658	▲:1-606-102-00	CP-6 BOARD		671	▲:3-671-187-00	CLIP, ANCHOR	
659	3-659-528-00	KNOB, TRACK CONTROL		672	▲:3-656-407-00	LABEL, F MARK	
660	3-659-532-00	FELT, FOOT		673	3-703-274-00	LABEL, APPROVAL	
661	3-674-111-00	COVER, JACK		674	▲:3-674-152-00	CASE (F), SHIELD, RF	
662	▲:3-671-145-00	STOPPER, BOTTOM PLATE		675	1-932-956-00	JACK CP-3	
663	3-674-107-00	PLATE (PAL), ORNAMENTAL, JACK		676	1-933-276-11	JACK RJ-2	

NOTE:

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- The construction parts of an assembled part are indicated with a collation number in the remark column.

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

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

## SECTION 6 ELECTRICAL PARTS LIST

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
▲:A-6711-339-A		YC-18 BOARD, COMPLETE *****		C044	1-161-051-00	CERAMIC 0.01MF	30% 25V
▲:3-661-626-00		PLATE, REAR, SHIELD CASE		C045	1-123-332-00	ELECT 47MF	20% 16V
▲:3-661-659-00		CASE (MAIN), SHIELD		C046	1-161-036-00	CERAMIC 0.047MF	20% 25V
3-671-893-00		CLAMP (LOW TYPE)		C047	1-123-296-00	ELECT 220MF	20% 6.3V
		FILTER		C048	1-123-332-00	ELECT 47MF	20% 16V
BPFO01	1-231-375-00	FILTER, BANDPASS		C049	1-123-332-00	ELECT 47MF	20% 16V
		CAPACITOR		C050	1-161-036-00	CERAMIC 0.047MF	20% 25V
C001	1-123-333-00	ELECT 100MF	20% 16V	C051	1-123-332-00	ELECT 47MF	20% 16V
C002	1-161-036-00	CERAMIC 0.047MF	20% 25V	C052	1-123-306-00	ELECT 47MF	20% 10V
C003	1-123-306-00	ELECT 47MF	20% 10V	C057	1-123-333-00	ELECT 100MF	20% 16V
C004	1-161-036-00	CERAMIC 0.047MF	20% 25V	C058	1-161-036-00	CERAMIC 0.047MF	20% 25V
C005	1-123-356-00	ELECT 10MF	20% 16V	C059	1-123-311-00	ELECT 1000MF	20% 10V
C006	1-161-345-00	CERAMIC 75PF	5% 50V	C060	1-123-308-00	ELECT 220MF	20% 10V
C007	1-161-261-00	CERAMIC 15PF	5% 50V	C061	1-101-059-00	CERAMIC 510PF	5% 50V
C008	1-102-978-00	CERAMIC 220PF	5% 50V	C062	1-161-051-00	CERAMIC 0.01MF	30% 25V
C009	1-161-036-00	CERAMIC 0.047MF	20% 25V	C064	1-123-330-00	ELECT 22MF	20% 16V
C010	1-123-332-00	ELECT 47MF	20% 16V	C065	1-123-333-00	ELECT 100MF	20% 16V
C011	1-161-266-00	CERAMIC 39PF	5% 50V	C066	1-123-332-00	ELECT 47MF	20% 16V
C012	1-123-332-00	ELECT 47MF	20% 16V	C068	1-123-356-00	ELECT 10MF	20% 16V
C013	1-123-296-00	ELECT 220MF	20% 6.3V	C069	1-123-324-00	ELECT 1000MF	20% 16V
C014	1-123-307-00	ELECT 100MF	20% 10V	C070	1-123-318-00	ELECT 33MF	20% 16V
C015	1-161-036-00	CERAMIC 0.047MF	20% 25V	C071	1-123-332-00	ELECT 47MF	20% 16V
C016	1-123-379-00	ELECT 0.47MF	20% 50V	C072	1-123-318-00	ELECT 33MF	20% 16V
C017	1-123-307-00	ELECT 100MF	20% 10V	C073	1-161-494-00	CERAMIC 0.022MF	30% 25V
C018	1-123-356-00	ELECT 10MF	20% 16V	C074	1-161-051-00	CERAMIC 0.01MF	30% 25V
C019	1-123-318-00	ELECT 33MF	20% 16V	C075	1-123-306-00	ELECT 47MF	20% 10V
C020	1-123-356-00	ELECT 10MF	20% 16V	C076	1-161-051-00	CERAMIC 0.01MF	30% 25V
C022	1-123-333-00	ELECT 100MF	20% 16V	C077	1-123-332-00	ELECT 47MF	20% 16V
C023	1-161-051-00	CERAMIC 0.01MF	30% 25V	C078	1-161-036-00	CERAMIC 0.047MF	20% 25V
C024	1-102-950-00	CERAMIC 13PF	5% 50V	C079	1-161-036-00	CERAMIC 0.047MF	20% 25V
C025	1-101-882-00	CERAMIC 51PF	5% 50V	C080	1-123-332-00	ELECT 47MF	20% 16V
C026	1-101-882-00	CERAMIC 51PF	5% 50V	C081	1-161-051-00	CERAMIC 0.01MF	30% 25V
C027	1-102-950-00	CERAMIC 13PF	5% 50V	C082	1-161-051-00	CERAMIC 0.01MF	30% 25V
C028	1-102-530-00	CERAMIC 120PF	5% 50V	C083	1-161-264-00	CERAMIC 27PF	5% 50V
C029	1-161-063-00	CERAMIC 0.1MF	20% 25V	C084	1-161-264-00	CERAMIC 27PF	5% 50V
C030	1-102-820-00	CERAMIC 330PF	5% 50V	C085	1-161-051-00	CERAMIC 0.01MF	30% 25V
C031	1-123-318-00	ELECT 33MF	20% 16V	C086	1-161-051-00	CERAMIC 0.01MF	30% 25V
C032	1-123-318-00	ELECT 33MF	20% 16V	C087	1-161-036-00	CERAMIC 0.047MF	20% 25V
C033	1-161-036-00	CERAMIC 0.047MF	20% 25V	C088	1-101-361-00	CERAMIC 150PF	5% 50V
C034	1-161-051-00	CERAMIC 0.01MF	30% 25V	C089	1-161-051-00	CERAMIC 0.01MF	30% 25V
C035	1-161-051-00	CERAMIC 0.01MF	30% 25V	C090	1-101-361-00	CERAMIC 150PF	5% 50V
C036	1-123-332-00	ELECT 47MF	20% 16V	C091	1-161-051-00	CERAMIC 0.01MF	30% 25V
C037	1-123-332-00	ELECT 47MF	20% 16V	C092	1-161-051-00	CERAMIC 0.01MF	30% 25V
C038	1-161-051-00	CERAMIC 0.01MF	30% 25V	C093	1-161-051-00	CERAMIC 0.01MF	30% 25V
C039	1-161-051-00	CERAMIC 0.01MF	30% 25V	C094	1-123-356-00	ELECT 10MF	20% 16V
C040	1-123-356-00	ELECT 10MF	20% 16V	C095	1-161-051-00	CERAMIC 0.01MF	30% 25V
C041	1-161-036-00	CERAMIC 0.047MF	20% 25V	C096	1-161-036-00	CERAMIC 0.047MF	20% 25V
C042	1-123-333-00	ELECT 100MF	20% 16V	C097	1-102-950-00	CERAMIC 13PF	5% 50V
C043	1-161-321-00	CERAMIC 680PF	10% 50V	C098	1-161-051-00	CERAMIC 0.01MF	30% 25V
				C099	1-161-036-00	CERAMIC 0.047MF	20% 25V
				C100	1-102-822-00	CERAMIC 390PF	5% 50V
				C101	1-161-051-00	CERAMIC 0.01MF	30% 25V
				C102	1-102-979-00	CERAMIC 240PF	5% 50V

**NOTE:**

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.

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

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

**RESISTORS**  
• All resistors are in ohms  
• F : nonflammable

**COILS**  
• MMH : mH,  $\mu$ H :  $\mu$ H

# YC-18

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark				
C103	1-161-268-00	CERAMIC	56PF	5%	50V	C156	1-161-051-00	CERAMIC	0.01MF	30%	25V
C104	1-123-356-00	ELECT	10MF	20%	16V	C158	1-161-051-00	CERAMIC	0.01MF	30%	25V
C105	1-161-036-00	CERAMIC	0.047MF	20%	25V	C159	1-161-051-00	CERAMIC	0.01MF	30%	25V
C106	1-161-036-00	CERAMIC	0.047MF	20%	25V	C160	1-161-051-00	CERAMIC	0.01MF	30%	25V
C107	1-161-268-00	CERAMIC	56PF	5%	50V	C161	1-161-051-00	CERAMIC	0.01MF	30%	25V
C108	1-102-824-00	CERAMIC	430PF	5%	50V	C162	1-161-036-00	CERAMIC	0.047MF	20%	25V
C109	1-161-036-00	CERAMIC	0.047MF	20%	25V	C163	1-123-332-00	ELECT	47MF	20%	16V
C110	1-131-202-00	TANTALUM	1.5MF	20%	20V	C164	1-161-051-00	CERAMIC	0.01MF	30%	25V
C111	1-161-036-00	CERAMIC	0.047MF	20%	25V	C165	1-108-239-00	MYLAR	0.01MF	10%	50V
C112	1-161-051-00	CERAMIC	0.01MF	30%	25V	C166	1-123-356-00	ELECT	10MF	20%	16V
C113	1-161-051-00	CERAMIC	0.01MF	30%	25V	C167	1-108-555-00	MYLAR	0.001MF	5%	50V
C114	1-108-242-00	MYLAR	0.022MF	10%	50V	C168	1-108-555-00	MYLAR	0.001MF	5%	50V
C115	1-161-051-00	CERAMIC	0.01MF	30%	25V	C169	1-161-036-00	CERAMIC	0.047MF	20%	25V
C116	1-161-036-00	CERAMIC	0.047MF	20%	25V	C170	1-108-555-00	MYLAR	0.001MF	5%	50V
C117	1-161-051-00	CERAMIC	0.01MF	30%	25V	C171	1-108-555-00	MYLAR	0.001MF	5%	50V
C118	1-161-036-00	CERAMIC	0.047MF	20%	25V	C172	1-161-036-00	CERAMIC	0.047MF	20%	25V
C119	1-161-271-00	CERAMIC	100PF	5%	50V	C173	1-161-494-00	CERAMIC	0.022MF	30%	25V
C120	1-102-820-00	CERAMIC	330PF	5%	50V	C174	1-161-494-00	CERAMIC	0.022MF	30%	25V
C121	1-161-036-00	CERAMIC	0.047MF	20%	25V	C175	1-161-494-00	CERAMIC	0.022MF	30%	25V
C122	1-161-051-00	CERAMIC	0.01MF	30%	25V	C176	1-102-531-00	CERAMIC	150PF	5%	50V
C123	1-161-036-00	CERAMIC	0.047MF	20%	25V	C178	1-102-525-00	CERAMIC	68PF	5%	50V
C124	1-161-272-00	CERAMIC	120PF	5%	50V	C180	1-102-527-00	CERAMIC	82PF	5%	50V
C125	1-102-942-00	CERAMIC	5PF	0.5PF	50V	C181	1-161-494-00	CERAMIC	0.022MF	30%	25V
C126	1-123-332-00	ELECT	47MF	20%	16V	C182	1-123-332-00	ELECT	47MF	20%	16V
C127	1-161-271-00	CERAMIC	100PF	5%	50V	C183	1-161-036-00	CERAMIC	0.047MF	20%	25V
C128	1-123-306-00	ELECT	47MF	20%	10V	C184	1-161-051-00	CERAMIC	0.01MF	30%	25V
C129	1-123-380-00	ELECT	1MF	20%	50V	C185	1-161-494-00	CERAMIC	0.022MF	30%	25V
C130	1-123-332-00	ELECT	47MF	20%	16V	C186	1-123-380-00	ELECT	1MF	20%	50V
C131	1-161-036-00	CERAMIC	0.047MF	20%	25V	C187	1-161-051-00	CERAMIC	0.01MF	30%	25V
C132	1-123-356-00	ELECT	10MF	20%	16V	C188	1-123-332-00	ELECT	47MF	20%	16V
C133	1-123-328-00	ELECT	4.7MF	20%	25V	C189	1-161-036-00	CERAMIC	0.047MF	20%	25V
C134	1-123-328-00	ELECT	4.7MF	20%	25V	C190	1-123-356-00	ELECT	10MF	20%	16V
C135	1-123-328-00	ELECT	4.7MF	20%	25V	C191	1-102-978-00	CERAMIC	220PF	5%	50V
C136	1-161-051-00	CERAMIC	0.01MF	30%	25V	C192	1-161-321-00	CERAMIC	680PF	10%	50V
C137	1-161-323-00	CERAMIC	0.001MF	10%	50V	C193	1-123-380-00	ELECT	1MF	20%	50V
C138	1-102-852-00	CERAMIC	47PF	5%	50V	C194	1-102-129-00	CERAMIC	0.01MF	10%	50V
C139	1-161-036-00	CERAMIC	0.047MF	20%	25V	C195	1-161-036-00	CERAMIC	0.047MF	20%	25V
C140	1-123-332-00	ELECT	47MF	20%	16V	C196	1-123-332-00	ELECT	47MF	20%	16V
C141	1-123-380-00	ELECT	1MF	20%	50V	C197	1-102-824-00	CERAMIC	430PF	5%	50V
C142	1-108-838-00	MYLAR	0.012MF	10%	50V	C198	1-102-824-00	CERAMIC	430PF	5%	50V
C143	1-161-281-00	CERAMIC	15PF	5%	50V	C199	1-102-978-00	CERAMIC	220PF	5%	50V
C144	1-123-380-00	ELECT	1MF	20%	50V	C200	1-123-307-00	ELECT	100MF	20%	10V
C145	1-108-838-00	MYLAR	0.012MF	10%	50V	C201	1-161-051-00	CERAMIC	0.01MF	30%	25V
C146	1-161-051-00	CERAMIC	0.01MF	30%	25V	C205	1-161-051-00	CERAMIC	0.01MF	30%	25V
C147	1-161-323-00	CERAMIC	0.001MF	10%	50V	C206	1-161-036-00	CERAMIC	0.047MF	20%	25V
C148	1-161-284-00	CERAMIC	27PF	5%	50V	C207	1-161-272-00	CERAMIC	120PF	5%	50V
C149	1-123-380-00	ELECT	1MF	20%	50V	C208	1-123-332-00	ELECT	47MF	20%	16V
C150	1-161-328-51	CERAMIC	0.0047MF	30%	50V	C209	1-127-456-51	ELECT(SOLID)	0.22MF	20%	25V
C151	1-102-820-00	CERAMIC	330PF	5%	50V	C210	1-161-036-00	CERAMIC	0.047MF	20%	25V
C152	1-161-051-00	CERAMIC	0.01MF	30%	25V	C211	1-123-380-00	ELECT	1MF	20%	50V
C153	1-161-036-00	CERAMIC	0.047MF	20%	25V	C212	1-108-833-00	MYLAR	0.0047MF	10%	50V
C154	1-108-849-00	MYLAR	0.1MF	10%	50V	C213	1-108-555-00	MYLAR	0.001MF	5%	50V
C155	1-123-332-00	ELECT	47MF	20%	16V	C214	1-108-555-00	MYLAR	0.001MF	5%	50V

**NOTE:**

The components identified by shading and mark  $\Delta$  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 "  $\bullet$  " 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 :  $\mu$ F, PF :  $\mu$  $\mu$ F

RESISTORS  
\* All resistors are in ohms  
\* F : nonflammable

COILS  
\* MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C215	1-123-321-00	ELECT	220MF 20%	16V	D018	=>8-719-911-19	DIODE 1SS119
C216	1-102-531-00	CERAMIC	150PF 5%	50V	D019	=>8-719-911-19	DIODE 1SS119
C217	1-123-379-00	ELECT	0.47MF 20%	50V	D020	=>8-719-911-19	DIODE 1SS119
C218	1-123-356-00	ELECT	10MF 20%	16V	D021	=>8-719-911-19	DIODE 1SS119
C219	1-101-059-00	CERAMIC	510PF 5%	50V	D022	=>8-719-911-19	DIODE 1SS119
C220	1-123-295-00	ELECT	100MF 20%	6.3V	D023	=>8-719-911-19	DIODE 1SS119
C221	1-161-494-00	CERAMIC	0.022MF 30%	25V	D024	=>8-719-911-19	DIODE 1SS119
C222	1-161-051-00	CERAMIC	0.01MF 30%	25V	D025	=>8-719-911-19	DIODE 1SS119
C223	1-161-051-00	CERAMIC	0.01MF 30%	25V	D026	=>8-719-911-19	DIODE 1SS119
C224	1-161-351-00	CERAMIC	20PF 5%	50V	D027	=>8-719-911-19	DIODE 1SS119
C225	1-161-494-00	CERAMIC	0.022MF 30%	25V	D031	=>8-719-911-19	DIODE 1SS119
C226	1-102-527-00	CERAMIC	82PF 5%	50V	D032	=>8-719-911-19	DIODE 1SS119
C227	1-161-051-00	CERAMIC	0.01MF 30%	25V	D035	=>8-719-911-19	DIODE 1SS119
C228	1-123-307-00	ELECT	100MF 20%	10V	D036	=>8-719-911-19	DIODE 1SS119
C230	1-102-859-00	CERAMIC	75PF 5%	50V	D037	=>8-719-911-19	DIODE 1SS119
C231	1-123-379-00	ELECT	0.47MF 20%	50V	D039	=>8-719-911-19	DIODE 1SS119
C233	1-123-328-00	ELECT	4.7MF 20%	25V	D040	=>8-719-911-19	DIODE 1SS119
C240	1-123-356-00	ELECT	10MF 20%	16V			
C241	1-102-947-31	CERAMIC	10PF 5%	50V			
<u>CONNECTOR</u>				<u>DELAY LINE</u>			
CN001	1-508-846-00	PIN, CONNECTOR 8P		DL001	1-415-223-21	DELAY LINE	
CN002	1-508-797-00	PIN, CONNECTOR 4P		DL002	1-415-198-00	DELAY LINE (1H)	
CN003	1-508-743-00	PIN, CONNECTOR 5P		DL003	1-415-148-51	DELAY LINE	
CN004	1-560-295-00	PIN, CONNECTOR 7P		DL004	1-415-204-00	DELAY LINE	
CN005	1-508-910-00	PIN, CONNECTOR 12P		<u>IC</u>			
CN006	1-508-744-00	PIN, CONNECTOR 10P		IC001	=>8-759-601-87	IC CX187M	
CN007	1-508-845-00	PIN, CONNECTOR 6P		IC002	8-751-360-00	IC CX136A	
<u>JACK</u>				IC003	8-759-600-50	IC CX150R	
CNJ001	1-560-750-21	CONNECTOR ASSY, BNC		IC004	8-759-208-94	IC CX894	
CNJ002	1-560-750-21	CONNECTOR ASSY, BNC		IC005	8-751-450-00	IC CX145	
CNJ003	1-507-588-32	PIN JACK, 1P		IC006	8-758-320-00	IC CX832	
CNJ004	1-507-588-32	PIN JACK, 1P		IC007	8-759-600-23	IC CX7942	
CNJ005	1-507-678-21	JACK		IC008	8-749-900-01	IC SP21A	
<u>DIODE</u>				IC009	8-741-101-80	IC BX1018	
D001	=>8-719-911-19	DIODE 1SS119		IC010	8-749-900-02	IC SP22R	
D002	=>8-719-911-19	DIODE 1SS119		IC011	8-759-600-50	IC CX150B	
D003	8-719-815-55	DIODE 1S1555		IC012	8-759-245-28	IC TC4528BP	
D004	8-719-815-55	DIODE 1S1555		IC013	8-759-273-20	IC TA7320P	
D005	8-719-815-55	DIODE 1S1555		IC014	8-751-300-00	IC CX130	
D006	8-719-815-55	DIODE 1S1555		IC015	8-759-208-94	IC CX894	
D007	=>8-719-911-19	DIODE 1SS119		IC016	8-759-684-78	IC M58478P	
D008	=>8-719-911-19	DIODE 1SS119		IC017	8-759-979-26	IC CX7926	
D009	=>8-719-911-19	DIODE 1SS119		IC018	8-741-102-00	IC BX1020	
D010	=>8-719-911-19	DIODE 1SS119		IC019	8-741-101-70	IC BX1017	
D011	=>8-719-911-19	DIODE 1SS119		<u>COIL</u>			
D012	=>8-719-911-19	DIODE 1SS119		L001	1-408-423-00	MICRO INDUCTOR 150UH	
D014	=>8-719-911-19	DIODE 1SS119		L002	1-408-445-11	MICRO INDUCTOR 18UH	
D015	=>8-719-911-19	DIODE 1SS119		L003	1-408-451-11	MICRO INDUCTOR 56UH	
D016	=>8-719-911-19	DIODE 1SS119		L004	1-408-446-11	MICRO INDUCTOR 22UH	
D017	=>8-719-911-19	DIODE 1SS119		L005	1-407-170-XX	MICRO INDUCTOR 120UH	
				L006	1-407-172-XX	MICRO INDUCTOR 180UH	
				L007	1-407-170-XX	MICRO INDUCTOR 120UH	

**NOTE:**

The components identified by shading and mark  $\Delta$  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 "  $\Delta$  " 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 :  $\mu$ F, PF :  $\mu$  $\mu$ F

**RESISTORS**  
 \* All resistors are in ohms  
 \* F : nonflammable

**COILS**  
 \* MMH : mH, UH :  $\mu$ H

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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
L008	1-408-456-11	MICRO INDUCTOR 150UH		Q018	=>8-729-187-54	TRANSISTOR 2SC2785	
L009	1-408-450-11	MICRO INDUCTOR 47UH		Q019	=>8-729-187-54	TRANSISTOR 2SC2785	
L010	1-408-454-11	MICRO INDUCTOR 100UH		Q020	=>8-729-187-54	TRANSISTOR 2SC2785	
L011	1-408-420-00	MICRO INDUCTOR 82UH		Q021	=>8-729-603-50	TRANSISTOR 2SC403SP	
L012	1-408-442-11	MICRO INDUCTOR 10UH		Q022	=>8-729-603-50	TRANSISTOR 2SC403SP	
L013	1-408-445-11	MICRO INDUCTOR 18UH		Q023	=>8-729-603-50	TRANSISTOR 2SC403SP	
L014	1-408-415-00	MICRO INDUCTOR 33UH		Q024	=>8-729-603-50	TRANSISTOR 2SC403SP	
L015	1-408-423-00	MICRO INDUCTOR 150UH		Q025	=>8-729-603-50	TRANSISTOR 2SC403SP	
L016	1-408-450-11	MICRO INDUCTOR 47UH		Q026	=>8-729-187-54	TRANSISTOR 2SC2785	
L018	1-408-446-11	MICRO INDUCTOR 22UH		Q027	=>8-729-603-50	TRANSISTOR 2SC403SP	
L019	1-408-462-11	MICRO INDUCTOR 470UH		Q028	=>8-729-603-50	TRANSISTOR 2SC403SP	
L020	1-408-462-11	MICRO INDUCTOR 470UH		Q029	=>8-729-603-50	TRANSISTOR 2SC403SP	
L021	1-408-455-11	MICRO INDUCTOR 120UH		Q030	=>8-729-187-54	TRANSISTOR 2SC2785	
L022	1-408-455-11	MICRO INDUCTOR 120UH		Q031	=>8-729-603-50	TRANSISTOR 2SC403SP	
L023	1-408-419-00	MICRO INDUCTOR 68UH		Q032	=>8-729-187-54	TRANSISTOR 2SC2785	
L024	1-408-419-00	MICRO INDUCTOR 68UH		Q033	=>8-729-187-54	TRANSISTOR 2SC2785	
L025	1-408-408-00	MICRO INDUCTOR 8.2UH		Q034	=>8-729-187-54	TRANSISTOR 2SC2785	
L026	1-408-454-11	MICRO INDUCTOR 100UH		Q035	=>8-729-603-50	TRANSISTOR 2SC403SP	
L027	1-408-419-00	MICRO INDUCTOR 68UH		Q036	=>8-729-187-54	TRANSISTOR 2SC2785	
L028	1-407-195-XX	MICRO INDUCTOR 1MMH		Q037	=>8-729-603-50	TRANSISTOR 2SC403SP	
L028	1-407-492-00	MICRO INDUCTOR 1MMH		Q038	=>8-729-187-54	TRANSISTOR 2SC2785	
L029	1-408-450-11	MICRO INDUCTOR 47UH		Q039	=>8-729-117-54	TRANSISTOR 2SA1175	
L030	1-408-462-11	MICRO INDUCTOR 470UH		Q040	=>8-729-603-50	TRANSISTOR 2SC403SP	
L031	1-408-408-00	MICRO INDUCTOR 8.2UH		Q041	=>8-729-187-54	TRANSISTOR 2SC2785	
L032	1-407-494-00	MICRO INDUCTOR 1.5MMH		Q043	=>8-729-384-48	TRANSISTOR 2SA844	
L033	1-408-444-11	MICRO INDUCTOR 15UH		Q044	=>8-729-187-54	TRANSISTOR 2SC2785	
L034	1-408-462-11	MICRO INDUCTOR 470UH		Q045	=>8-729-187-54	TRANSISTOR 2SC2785	
L035	1-408-448-11	MICRO INDUCTOR 33UH		Q046	8-729-353-52	TRANSISTOR 2SC535	
L036	1-408-462-11	MICRO INDUCTOR 470UH		Q047	8-729-353-52	TRANSISTOR 2SC535	
L037	1-408-462-11	MICRO INDUCTOR 470UH		Q048	8-729-353-52	TRANSISTOR 2SC535	
L038	1-407-501-31	MICRO INDUCTOR 5.6MMH		Q049	8-729-353-52	TRANSISTOR 2SC535	
L039	1-408-420-00	MICRO INDUCTOR 82UH		Q050	=>8-729-187-54	TRANSISTOR 2SC2785	
<u>VARIABLE COIL</u>				<u>RESISTOR</u>			
LV001	1-408-512-00	COIL (VARIABLE) 10UH		R001	1-246-795-00	CARBON 10K	1/8W
LV002	1-408-531-00	COIL, VARIABLE; 6.8UH		R002	1-246-788-00	CARBON 2.7K	1/8W
<u>TRANSISTOR</u>				R003	1-246-795-00	CARBON 10K	1/8W
Q001	8-729-374-02	TRANSISTOR 2SB740		R004	1-246-785-00	CARBON 1.5K	1/8W
Q002	8-729-374-02	TRANSISTOR 2SB740		R005	1-246-799-00	CARBON 22K	1/8W
Q003	=>8-729-384-48	TRANSISTOR 2SA844		R006	1-246-777-00	CARBON 330	1/8W
Q004	=>8-729-603-50	TRANSISTOR 2SC403SP		R007	1-246-786-00	CARBON 1.8K	1/8W
Q005	=>8-729-603-50	TRANSISTOR 2SC403SP		R008	1-246-787-00	CARBON 2.2K	1/8W
Q006	=>8-729-603-50	TRANSISTOR 2SC403SP		R009	1-246-795-00	CARBON 10K	1/8W
Q007	=>8-729-603-50	TRANSISTOR 2SC403SP		R010	1-246-783-00	CARBON 1K	1/8W
Q008	=>8-729-603-50	TRANSISTOR 2SC403SP		R011	1-246-795-00	CARBON 10K	1/8W
Q009	=>8-729-603-50	TRANSISTOR 2SC403SP		R012	1-246-862-00	CARBON 36K	1/8W
Q010	=>8-729-178-54	TRANSISTOR 2SC2785		R013	1-246-854-00	CARBON 7.5K	1/8W
Q013	=>8-729-603-50	TRANSISTOR 2SC403SP		R014	1-246-788-00	CARBON 2.7K	1/8W
Q014	=>8-729-603-50	TRANSISTOR 2SC403SP		R015	1-246-846-00	CARBON 1.6K	1/8W
Q015	=>8-729-187-54	TRANSISTOR 2SC2785		R016	1-246-782-00	CARBON 820	1/8W
Q016	=>8-729-603-50	TRANSISTOR 2SC403SP		R017	1-246-783-00	CARBON 1K	1/8W
Q017	=>8-729-117-54	TRANSISTOR 2SA1175		R018	1-246-845-00	CARBON 1.3K	1/8W
				R019	1-246-783-00	CARBON 1K	1/8W

**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 :  $\mu\text{F}$ , PF :  $\mu\text{pF}$

**RESISTORS**  
All resistors are in ohms  
F : nonflammable

**COILS**  
MMH : mH, UH :  $\mu\text{H}$

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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R020	1-246-791-00	CARBON	4.7K 1/8W	R084	1-246-801-00	CARBON	33K 1/8W
R021	1-246-797-00	CARBON	15K 1/8W	R085	1-246-787-00	CARBON	2.2K 1/8W
R022	1-246-843-00	CARBON	910 1/8W	R086	1-246-771-00	CARBON	100 1/8W
R023	1-246-786-00	CARBON	1.8K 1/8W	R087	1-246-847-00	CARBON	2K 1/8W
R024	1-246-856-00	CARBON	11K 1/8W	R088	1-246-782-00	CARBON	820 1/8W
R025	1-246-797-00	CARBON	15K 1/8W	R089	1-246-851-00	CARBON	4.3K 1/8W
R026	1-246-771-00	CARBON	100 1/8W	R090	1-246-811-00	CARBON	220K 1/8W
R027	1-246-789-00	CARBON	3.3K 1/8W	R091	1-246-801-00	CARBON	33K 1/8W
R028	1-246-786-00	CARBON	1.8K 1/8W	R092	1-246-801-00	CARBON	33K 1/8W
R029	1-246-782-00	CARBON	820 1/8W	R093	1-246-787-00	CARBON	2.2K 1/8W
R030	1-246-786-00	CARBON	1.8K 1/8W	R094	1-246-799-00	CARBON	22K 1/8W
R031	1-246-795-00	CARBON	10K 1/8W	R095	1-246-803-00	CARBON	47K 1/8W
R032	1-246-787-00	CARBON	2.2K 1/8W	R096	1-246-807-00	CARBON	100K 1/8W
R033	1-246-842-00	CARBON	750 1/8W	R098	1-246-795-00	CARBON	10K 1/8W
R034	1-246-794-00	CARBON	8.2K 1/8W	R099	1-246-840-00	CARBON	510 1/8W
R035	1-246-839-00	CARBON	430 1/8W	R100	1-246-861-00	CARBON	30K 1/8W
R036	1-246-798-00	CARBON	18K 1/8W	R101	1-246-865-00	CARBON	62K 1/8W
R037	1-246-771-00	CARBON	100 1/8W	R102	1-246-796-00	CARBON	12K 1/8W
R038	1-246-783-00	CARBON	1K 1/8W	R103	1-246-830-00	CARBON	75 1/8W
R039	1-246-783-00	CARBON	1K 1/8W	R104	1-246-776-00	CARBON	270 1/8W
R040	1-246-794-00	CARBON	8.2K 1/8W	R105	1-246-769-00	CARBON	68 1/8W
R041	1-246-783-00	CARBON	1K 1/8W	R106	1-246-773-00	CARBON	150 1/8W
R042	1-246-794-00	CARBON	8.2K 1/8W	R107	1-246-771-00	CARBON	100 1/8W
R043	▲ 1-247-033-00	CARBON	100 5% 1/8W	R108	1-246-805-00	CARBON	68K 1/8W
R044	1-246-773-00	CARBON	150 1/8W	R109	1-246-775-00	CARBON	220 1/8W
R049	1-246-795-00	CARBON	10K 1/8W	R110	1-246-789-00	CARBON	3.3K 1/8W
R050	1-246-783-00	CARBON	1K 1/8W	R111	1-246-811-00	CARBON	220K 1/8W
R051	1-246-783-00	CARBON	1K 1/8W	R112	1-246-791-00	CARBON	4.7K 1/8W
R052	1-246-771-00	CARBON	100 1/8W	R113	1-246-811-00	CARBON	220K 1/8W
R053	1-246-799-00	CARBON	22K 1/8W	R114	1-246-783-00	CARBON	1K 1/8W
R054	1-246-795-00	CARBON	10K 1/8W	R115	1-246-783-00	CARBON	1K 1/8W
R055	1-246-783-00	CARBON	1K 1/8W	R116	1-246-779-00	CARBON	470 1/8W
R056	1-246-787-00	CARBON	2.2K 1/8W	R117	1-246-799-00	CARBON	22K 1/8W
R057	1-246-843-00	CARBON	910 1/8W	R118	1-246-795-00	CARBON	10K 1/8W
R058	1-246-847-00	CARBON	2K 1/8W	R119	1-246-785-00	CARBON	1.5K 1/8W
R059	1-246-799-00	CARBON	22K 1/8W	R120	1-246-786-00	CARBON	1.8K 1/8W
R060	1-246-796-00	CARBON	12K 1/8W	R121	1-246-791-00	CARBON	4.7K 1/8W
R061	1-246-847-00	CARBON	2K 1/8W	R122	1-246-784-00	CARBON	1.2K 1/8W
R062	1-246-802-00	CARBON	39K 1/8W	R123	1-246-771-00	CARBON	100 1/8W
R063	1-246-783-00	CARBON	1K 1/8W	R124	1-246-791-00	CARBON	4.7K 1/8W
R064	1-246-783-00	CARBON	1K 1/8W	R125	1-246-783-00	CARBON	1K 1/8W
R071	1-246-842-00	CARBON	750 1/8W	R126	1-246-783-00	CARBON	1K 1/8W
R072	1-246-769-00	CARBON	68 1/8W	R127	1-246-784-00	CARBON	1.2K 1/8W
R073	1-244-853-00	CARBON	150 5% 1/2W	R128	1-246-787-00	CARBON	2.2K 1/8W
R074	1-244-853-00	CARBON	150 5% 1/2W	R129	1-246-811-00	CARBON	220K 1/8W
R075	1-246-783-00	CARBON	1K 1/8W	R130	1-246-783-00	CARBON	1K 1/8W
R077	1-246-783-00	CARBON	1K 1/8W	R131	1-246-811-00	CARBON	220K 1/8W
R078	1-246-795-00	CARBON	10K 1/8W	R132	1-246-775-00	CARBON	220 1/8W
R079	1-246-801-00	CARBON	33K 1/8W	R133	1-246-801-00	CARBON	33K 1/8W
R080	1-246-785-00	CARBON	1.5K 1/8W	R134	1-246-791-00	CARBON	4.7K 1/8W
R081	1-246-852-00	CARBON	5.1K 1/8W	R135	1-246-792-00	CARBON	5.6K 1/8W
R082	1-246-777-00	CARBON	330 1/8W	R136	1-246-807-00	CARBON	100K 1/8W
R083	1-246-789-00	CARBON	3.3K 1/8W	R137	1-246-798-00	CARBON	18K 1/8W

**NOTE:**

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.

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

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

**RESISTORS**  
• All resistors are in ohms  
• F : nonflammable

**COILS**  
• MMH : mH, UH :  $\mu$ H

# YC-18

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark		
R138	1-246-861-00	CARBON	30K	1/8W	R191	1-246-860-00	CARBON	24K	1/8W
R139	1-246-781-00	CARBON	680	1/8W	R192	1-246-801-00	CARBON	33K	1/8W
R140	1-246-792-00	CARBON	5.6K	1/8W	R193	1-246-784-00	CARBON	1.2K	1/8W
R141	1-246-771-00	CARBON	100	1/8W	R194	1-246-797-00	CARBON	15K	1/8W
R142	1-246-840-00	CARBON	510	1/8W	R195	1-246-795-00	CARBON	10K	1/8W
R143	1-246-799-00	CARBON	22K	1/8W	R196	1-246-778-00	CARBON	390	1/8W
R144	1-246-791-00	CARBON	4.7K	1/8W	R197	1-246-770-00	CARBON	82	1/8W
R145	1-246-778-00	CARBON	390	1/8W	R198	1-246-771-00	CARBON	100	1/8W
R146	1-246-787-00	CARBON	2.2K	1/8W	R199	1-246-779-00	CARBON	470	1/8W
R147	1-246-778-00	CARBON	390	1/8W	R200	1-244-857-00	CARBON	220	5% 1/2W
R148	1-246-778-00	CARBON	390	1/8W	R201	1-246-799-00	CARBON	22K	1/8W
R149	1-246-778-00	CARBON	390	1/8W	R202	1-246-795-00	CARBON	10K	1/8W
R150	1-246-778-00	CARBON	390	1/8W	R203	1-246-801-00	CARBON	33K	1/8W
R151	1-246-787-00	CARBON	2.2K	1/8W	R204	1-246-811-00	CARBON	220K	1/8W
R152	1-246-778-00	CARBON	390	1/8W	R205	1-246-811-00	CARBON	220K	1/8W
R153	1-246-791-00	CARBON	4.7K	1/8W	R206	1-246-811-00	CARBON	220K	1/8W
R154	1-246-789-00	CARBON	3.3K	1/8W	R207	1-246-775-00	CARBON	220	1/8W
R155	1-246-795-00	CARBON	10K	1/8W	R208	1-246-828-00	CARBON	51	1/8W
R156	1-246-842-00	CARBON	750	1/8W	R209	1-246-840-00	CARBON	510	1/8W
R157	1-246-791-00	CARBON	4.7K	1/8W	R214	1-246-851-00	CARBON	4.3K	1/8W
R158	1-246-786-00	CARBON	1.8K	1/8W	R215	1-246-802-00	CARBON	39K	1/8W
R159	1-246-776-00	CARBON	270	1/8W	R216	1-246-783-00	CARBON	1K	1/8W
R160	1-246-787-00	CARBON	2.2K	1/8W	R217	1-246-789-00	CARBON	3.3K	1/8W
R161	1-246-783-00	CARBON	1K	1/8W	R218	1-246-795-00	CARBON	10K	1/8W
R162	1-246-823-00	CARBON	20	1/8W	R219	1-246-792-00	CARBON	5.6K	1/8W
R163	1-246-792-00	CARBON	5.6K	1/8W	R220	1-246-796-00	CARBON	12K	1/8W
R164	1-246-792-00	CARBON	5.6K	1/8W	R221	1-246-852-00	CARBON	5.1K	1/8W
R165	1-246-787-00	CARBON	2.2K	1/8W	R222	1-246-779-00	CARBON	470	1/8W
R166	1-246-793-00	CARBON	6.8K	1/8W	R223	1-246-783-00	CARBON	1K	1/8W
R167	1-246-783-00	CARBON	1K	1/8W	R224	1-246-780-00	CARBON	560	1/8W
R168	1-246-795-00	CARBON	10K	1/8W	R225	1-246-804-00	CARBON	56K	1/8W
R169	1-246-781-00	CARBON	680	1/8W	R226	1-246-779-00	CARBON	470	1/8W
R170	1-246-804-00	CARBON	56K	1/8W	R227	1-246-809-00	CARBON	150K	1/8W
R171	1-246-795-00	CARBON	10K	1/8W	R228	1-246-798-00	CARBON	18K	1/8W
R172	1-246-804-00	CARBON	56K	1/8W	R229	1-246-805-00	CARBON	68K	1/8W
R173	1-246-789-00	CARBON	3.3K	1/8W	R230	1-246-789-00	CARBON	3.3K	1/8W
R174	1-246-794-00	CARBON	8.2K	1/8W	R231	1-246-843-00	CARBON	910	1/8W
R175	1-246-783-00	CARBON	1K	1/8W	R232	1-246-777-00	CARBON	330	1/8W
R176	1-246-782-00	CARBON	820	1/8W	R233	1-246-847-00	CARBON	2K	1/8W
R177	1-246-785-00	CARBON	1.5K	1/8W	R234	1-246-799-00	CARBON	22K	1/8W
R178	1-246-842-00	CARBON	750	1/8W	R236	1-246-789-00	CARBON	3.3K	1/8W
R179	1-246-777-00	CARBON	330	1/8W	R242	1-246-779-00	CARBON	470	1/8W
R180	1-246-804-00	CARBON	56K	1/8W	R243	1-246-855-00	CARBON	9.1K	1/8W
R181	1-246-795-00	CARBON	10K	1/8W	R244	1-246-785-00	CARBON	1.5K	1/8W
R182	1-246-783-00	CARBON	1K	1/8W	R245	1-246-791-00	CARBON	4.7K	1/8W
R183	1-246-793-00	CARBON	6.8K	1/8W	R246	1-246-783-00	CARBON	1K	1/8W
R184	1-246-786-00	CARBON	1.8K	1/8W	R247	1-246-807-00	CARBON	100K	1/8W
R185	1-246-811-00	CARBON	220K	1/8W	R248	1-246-847-00	CARBON	2K	1/8W
R186	1-246-852-00	CARBON	5.1K	1/8W	R249	1-246-799-00	CARBON	22K	1/8W
R187	1-246-795-00	CARBON	10K	1/8W	R250	1-246-787-00	CARBON	2.2K	1/8W
R188	1-246-802-00	CARBON	39K	1/8W	R251	1-246-863-00	CARBON	43K	1/8W
R189	1-246-787-00	CARBON	2.2K	1/8W	R252	1-246-787-00	CARBON	2.2K	1/8W
R190	1-246-789-00	CARBON	3.3K	1/8W	R253	1-246-801-00	CARBON	33K	1/8W

**NOTE:**

The components identified by shading and mark  $\Delta$  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 "  $\Delta$  " 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 :  $\mu$ F, PF :  $\mu$  $\mu$ F

RESISTORS  
\* All resistors are in ohms  
\* F : nonflammable

COILS  
\* MMH : mH, UH :  $\mu$ H



Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R254	1-246-779-00	CARBON 470	1/8W	RV022	1-226-845-31	RES, ADJ, CARBON 330	
R255	1-246-797-00	CARBON 15K	1/8W	RV023	1-226-850-00	RES, ADJ, CARBON 4.7K	
R256	1-246-789-00	CARBON 3.3K	1/8W	<u>TRANSFORMER</u>			
R257	1-246-779-00	CARBON 470	1/8W	T001	1-409-321-00	COIL, TRAP	
R258	1-246-777-00	CARBON 330	1/8W	T002	1-408-673-00	COIL, EQT	
R259	1-246-797-00	CARBON 15K	1/8W	T003	1-426-093-00	COIL, REC C BPT	
R260	1-246-851-00	CARBON 4.3K	1/8W	T004	1-408-672-00	COIL, BAT; ACC TUNE	
R261	1-246-841-00	CARBON 620	1/8W	T005	1-408-671-00	COIL, PST	
R262	1-246-837-00	CARBON 300	1/8W	T006	1-406-010-00	COIL, OSC; 4.43MHZ	
R263	1-246-783-00	CARBON 1K	1/8W	T007	1-405-803-00	COIL, OSC; 4.43MHZ	
R264	1-246-783-00	CARBON 1K	1/8W	T008	1-426-064-00	COIL (BPT); 5.12MHZ	
R265	1-246-779-00	CARBON 470	1/8W	T009	1-411-110-00	COIL (TUNING-T); 5.12MHZ	
R266	1-246-777-00	CARBON 330	1/8W	<u>CRYSTAL</u>			
R267	1-246-843-00	CARBON 910	1/8W	X001	1-527-345-00	CRYSTAL, OSC	
R268	1-246-795-00	CARBON 10K	1/8W	X002	1-527-353-00	CRYSTAL, OSC	
R269	1-246-788-00	CARBON 2.7K	1/8W	*****			
R270	1-246-799-00	CARBON 22K	1/8W	▲:A-6728-416-A	RF-4 BOARD, COMPLETE		
R271	1-246-794-00	CARBON 8.2K	1/8W	*****			
R272	1-246-791-00	CARBON 4.7K	1/8W	▲:3-674-128-00	CASE (B), SHIELD, RF		
R273	1-246-807-00	CARBON 100K	1/8W	▲:3-674-142-00	CASE (D), SHIELD, RF		
R274	1-246-783-00	CARBON 1K	1/8W	▲:3-674-148-00	CASE (E), SHIELD, RF		
R275	1-246-783-00	CARBON 1K	1/8W	<u>CAPACITOR</u>			
R278	1-246-773-00	CARBON 150	1/8W	C001	1-123-380-00	ELECT 1MF 20% 50V	
R279	1-246-780-00	CARBON 560	1/8W	C002	1-161-494-00	CERAMIC 0.022MF 30% 25V	
R280	1-246-779-00	CARBON 470	1/8W	C003	1-101-006-00	CERAMIC 0.047MF 50V	
R281	1-246-847-00	CARBON 2K	1/8W	C004	1-161-494-00	CERAMIC 0.022MF 30% 25V	
R282	1-246-795-00	CARBON 10K	1/8W	C006	1-161-051-00	CERAMIC 0.01MF 30% 25V	
R299	1-246-808-00	CARBON 120K	1/8W	C007	1-161-051-00	CERAMIC 0.01MF 30% 25V	
R300	1-246-838-00	CARBON 360	1/8W	C008	1-123-381-00	ELECT 2.2MF 20% 50V	
R301	1-246-473-00	CARBON 1K 5%	1/4W	C009	1-161-328-51	CERAMIC 0.0047MF 30% 50V	
<u>VARIABLE RESISTOR</u>				C010	1-161-267-00	CERAMIC 47PF 5% 50V	
RV001	1-226-851-00	RES, ADJ, CARBON 10K		C011	1-101-882-00	CERAMIC 51PF 5% 50V	
RV002	1-224-250-XX	RES, ADJ, METAL GLAZE 2.2K		C013	1-123-318-00	ELECT 33MF 20% 16V	
RV003	1-226-854-00	RES, ADJ, CARBON 100K		C014	1-161-319-00	CERAMIC 470PF 10% 50V	
RV004	1-226-846-00	RES, ADJ, CARBON 470		C015	1-161-271-00	CERAMIC 100PF 5% 50V	
RV005	1-226-847-00	RES, ADJ, CARBON 1K		C016	1-161-051-00	CERAMIC 0.01MF 30% 25V	
RV006	1-226-853-00	RES, ADJ, CARBON 47K		C017	1-123-380-00	ELECT 1MF 20% 50V	
RV007	1-226-850-00	RES, ADJ, CARBON 4.7K		C018	1-101-006-00	CERAMIC 0.047MF 50V	
RV008	1-226-848-00	RES, ADJ, CARBON 2.2K		C019	1-161-494-00	CERAMIC 0.022MF 30% 25V	
RV009	1-226-848-00	RES, ADJ, CARBON 2.2K		C020	1-161-494-00	CERAMIC 0.022MF 30% 25V	
RV010	1-226-847-00	RES, ADJ, CARBON 1K		C021	1-161-494-00	CERAMIC 0.022MF 30% 25V	
RV011	1-226-847-00	RES, ADJ, CARBON 1K		C022	1-161-317-00	CERAMIC 330PF 10% 50V	
RV012	1-226-850-00	RES, ADJ, CARBON 4.7K		C023	1-131-371-00	TANTALUM 10MF 20% 16V	
RV013	1-226-852-00	RES, ADJ, CARBON 22K		C024	1-161-051-00	CERAMIC 0.01MF 30% 25V	
RV014	1-226-851-00	RES, ADJ, CARBON 10K		C025	1-161-051-00	CERAMIC 0.01MF 30% 25V	
RV015	1-226-846-00	RES, ADJ, CARBON 470		C026	1-101-005-00	CERAMIC 0.022MF 50V	
RV016	1-226-847-00	RES, ADJ, CARBON 1K		C027	1-123-318-00	ELECT 33MF 20% 16V	
RV017	1-226-847-00	RES, ADJ, CARBON 1K		C028	1-161-051-00	CERAMIC 0.01MF 30% 25V	
RV018	1-226-857-00	RES, ADJ, CARBON 470K					
RV019	1-226-848-00	RES, ADJ, CARBON 2.2K					
RV020	1-226-851-00	RES, ADJ, CARBON 10K					
RV021	1-226-850-00	RES, ADJ, CARBON 4.7K					

**NOTE:**

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.

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

**CAPACITORS**

• MF :  $\mu$ F, PF :  $\mu$ PF

**RESISTORS**

• All resistors are in ohms  
• F : nonflammable

**COILS**

• MMH : mH,  $\mu$ H :  $\mu$ H

# RF-4

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C029	1-123-379-00	ELECT	0.47MF	20%	50V		
C030	1-102-950-00	CERAMIC	13PF	5%	50V		
C031	1-101-882-00	CERAMIC	51PF	5%	50V		
C032	1-101-882-00	CERAMIC	51PF	5%	50V		
C033	1-102-950-00	CERAMIC	13PF	5%	50V		
C034	1-123-296-00	ELECT	220MF	20%	6.3V		
C035	1-123-380-00	ELECT	1MF	20%	50V		
C036	1-161-271-00	CERAMIC	100PF	5%	50V		
C037	1-161-272-00	CERAMIC	120PF	5%	50V		
C038	1-123-307-00	ELECT	100MF	20%	10V		
C039	1-161-006-00	CERAMIC	0.0027MF	10%	25V		
C040	1-102-117-00	CERAMIC	820PF	10%	50V		
C041	1-123-321-00	ELECT	220MF	20%	16V		
C042	1-123-356-00	ELECT	10MF	20%	16V		
C043	1-123-356-00	ELECT	10MF	20%	16V		
C044	1-161-051-00	CERAMIC	0.01MF	30%	25V		
C045	1-123-332-00	ELECT	47MF	20%	16V		
C046	1-161-017-00	CERAMIC	0.022MF	10%	25V		
C047	1-123-332-00	ELECT	47MF	20%	16V		
C048	1-161-051-00	CERAMIC	0.01MF	30%	25V		
C049	1-102-529-00	CERAMIC	100PF	5%	50V		
C050	1-161-051-00	CERAMIC	0.01MF	30%	25V		
C051	1-161-051-00	CERAMIC	0.01MF	30%	25V		
C052	1-161-263-00	CERAMIC	22PF	5%	50V		
C053	1-161-051-00	CERAMIC	0.01MF	30%	25V		
C054	1-161-051-00	CERAMIC	0.01MF	30%	25V		
C056	1-161-021-00	CERAMIC	0.047MF	10%	25V		
C057	1-131-371-00	TANTALUM	10MF	20%	16V		
C058	1-131-371-00	TANTALUM	10MF	20%	16V		
C059	1-123-296-00	ELECT	220MF	20%	6.3V		
C060	1-161-494-00	CERAMIC	0.022MF	30%	25V		
C061	1-123-307-00	ELECT	100MF	20%	10V		
C062	1-161-051-00	CERAMIC	0.01MF	30%	25V		
C063	1-161-015-00	CERAMIC	0.015MF	10%	25V		
C065	1-102-947-00	CERAMIC	10PF	5%	50V		
<b>CONNECTOR</b>							
CNO01♣	1-508-797-00	PIN, CONNECTOR	4P				
CNO02♣	1-508-845-00	PIN, CONNECTOR	6P				
CNO03♣	1-508-846-00	PIN, CONNECTOR	8P				
CNO04♣	1-508-847-00	PIN, CONNECTOR	4P				
CNO05♣	1-508-743-00	PIN, CONNECTOR	5P				
CNO06♣	1-508-916-00	CONNECTOR	PIN 2P				
<b>DIODE</b>							
D001	=>8-719-911-19	DIODE	1SS119				
D002	=>8-719-911-19	DIODE	1SS119				
D003	=>8-719-911-19	DIODE	1SS119				
D004	=>8-719-911-19	DIODE	1SS119				
D005	=>8-719-911-19	DIODE	1SS119				
D006	=>8-719-911-19	DIODE	1SS119				
D007	=>8-719-911-19	DIODE	1SS119				
<b>DELAY LINE</b>							
DL001	1-415-203-00	DELAY LINE					
<b>IC</b>							
IC001	8-751-340-00	IC	CX134A				
IC002	8-751-350-00	IC	CX135				
<b>COIL</b>							
L001	1-408-029-00	MICRO INDUCTOR	0.56UH				
L002	1-408-029-00	MICRO INDUCTOR	0.56UH				
L003	1-408-158-00	MICRO INDUCTOR	6.8MMH				
L004	1-408-158-00	MICRO INDUCTOR	6.8MMH				
L005	1-408-444-11	MICRO INDUCTOR	15UH				
L006	1-408-444-11	MICRO INDUCTOR	15UH				
L007	1-408-455-11	MICRO INDUCTOR	120UH				
L008	1-407-717-00	MICRO INDUCTOR	1MMH				
L009	1-408-442-11	MICRO INDUCTOR	10UH				
L010	1-408-455-11	MICRO INDUCTOR	120UH				
L011	1-408-424-00	MICRO INDUCTOR	180UH				
L012	1-408-455-11	MICRO INDUCTOR	120UH				
L013	1-408-456-11	MICRO INDUCTOR	150UH				
L014	1-408-445-11	MICRO INDUCTOR	18UH				
L015	1-408-445-11	MICRO INDUCTOR	18UH				
L016	1-408-454-11	MICRO INDUCTOR	100UH				
<b>TRANSISTOR</b>							
Q001	=>8-729-178-54	TRANSISTOR	2SC2785				
Q002	8-765-422-00	TRANSISTOR	2SK152-3				
Q003	=>8-729-178-54	TRANSISTOR	2SC2785				
Q004	=>8-729-178-54	TRANSISTOR	2SC2785				
Q005	8-765-422-00	TRANSISTOR	2SK152-3				
Q006	=>8-729-178-54	TRANSISTOR	2SC2785				
Q007	=>8-729-663-47	TRANSISTOR	2SC1364				
Q008	8-729-384-48	TRANSISTOR	2SA844				
Q009	=>8-729-612-77	TRANSISTOR	2SA1027R				
Q010	=>8-729-663-47	TRANSISTOR	2SC1364				
Q011	=>8-729-603-50	TRANSISTOR	2SC403SP				
Q012	8-729-384-48	TRANSISTOR	2SA844				
Q013	=>8-729-603-50	TRANSISTOR	2SC403SP				
Q014	=>8-729-603-50	TRANSISTOR	2SC403SP				
Q015	=>8-729-178-54	TRANSISTOR	2SC2785				
<b>RESISTOR</b>							
R001	1-246-485-00	CARBON	3.3K	5%	1/4W		
R002	1-246-463-00	CARBON	390	5%	1/4W		
R003	1-246-497-00	CARBON	10K	5%	1/4W		
R004	1-246-468-00	CARBON	620	5%	1/4W		
R005	1-246-463-00	CARBON	390	5%	1/4W		
R006	1-246-497-00	CARBON	10K	5%	1/4W		
R007	1-212-855-00	FUSIBLE	8.2	5%	1/4W		
R008	1-246-491-00	CARBON	5.6K	5%	1/4W		
R009	1-246-464-00	CARBON	430	5%	1/4W		

**NOTE:**

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.

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

**CAPACITORS**  
• MF :  $\mu$ F, PF :  $\mu$ uF

**RESISTORS**  
• All resistors are in ohms  
• F : nonflammable

**COILS**  
• MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	
R010	1-246-421-00	CARBON	6.8 5% 1/4W	R066	1-246-465-00	CARBON	470 5% 1/4W	
R011	1-246-457-00	CARBON	220 5% 1/4W	R067	1-246-480-00	CARBON	2K 5% 1/4W	
R012	▲ 1-212-855-00	FUSIBLE	8.2 5% 1/4W F	R068	1-246-491-00	CARBON	5.6K 5% 1/4W	
R013	1-246-481-00	CARBON	2.2K 5% 1/4W	R069	1-246-487-00	CARBON	3.9K 5% 1/4W	
R014	1-246-481-00	CARBON	2.2K 5% 1/4W	R070	1-246-479-00	CARBON	1.8K 5% 1/4W	
R015	1-246-481-00	CARBON	2.2K 5% 1/4W	R071	1-246-459-00	CARBON	270 5% 1/4W	
R016	1-246-481-00	CARBON	2.2K 5% 1/4W	R072	1-246-449-00	CARBON	100 5% 1/4W	
R017	1-246-473-00	CARBON	1K 5% 1/4W	R073	1-246-459-00	CARBON	270 5% 1/4W	
R018	1-246-473-00	CARBON	1K 5% 1/4W	R074	1-246-467-00	CARBON	560 5% 1/4W	
R019	1-246-467-00	CARBON	560 5% 1/4W	R075	1-246-501-00	CARBON	15K 5% 1/4W	
R020	1-246-475-00	CARBON	1.2K 5% 1/4W	R076	1-246-453-00	CARBON	150 5% 1/4W	
R021	1-246-491-00	CARBON	5.6K 5% 1/4W	R077	1-246-503-00	CARBON	18K 5% 1/4W	
R022	1-246-497-00	CARBON	10K 5% 1/4W	R078	1-246-477-00	CARBON	1.5K 5% 1/4W	
R023	1-246-463-00	CARBON	390 5% 1/4W	R079	1-246-449-00	CARBON	100 5% 1/4W	
R024	1-246-485-00	CARBON	3.3K 5% 1/4W	R080	1-246-465-00	CARBON	470 5% 1/4W	
R025	1-246-497-00	CARBON	10K 5% 1/4W	R081	1-246-497-00	CARBON	10K 5% 1/4W	
R026	1-246-463-00	CARBON	390 5% 1/4W	R082	1-246-451-00	CARBON	120 5% 1/4W	
R027	1-246-468-00	CARBON	620 5% 1/4W	R083	1-246-451-00	CARBON	120 5% 1/4W	
R028	1-246-473-00	CARBON	1K 5% 1/4W	R084	1-246-468-00	CARBON	620 5% 1/4W	
R029	1-246-491-00	CARBON	5.6K 5% 1/4W	R085	1-246-497-00	CARBON	10K 5% 1/4W	
R030	1-246-468-00	CARBON	620 5% 1/4W	<u>VARIABLE RESISTOR</u>				
R031	1-246-481-00	CARBON	2.2K 5% 1/4W	RV001	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K	
R032	1-246-489-00	CARBON	4.7K 5% 1/4W	RV002	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K	
R033	1-246-451-00	CARBON	120 5% 1/4W	RV003	1-226-848-00	RES, ADJ, CARBON	2.2K	
R034	1-246-509-00	CARBON	33K 5% 1/4W	RV004	1-226-850-00	RES, ADJ, CARBON	4.7K	
R035	▲ 1-212-855-00	FUSIBLE	8.2 5% 1/4W F	RV005	1-226-847-00	RES, ADJ, CARBON	1K	
R036	▲ 1-212-855-00	FUSIBLE	8.2 5% 1/4W F	RV006	1-226-849-00	RES, ADJ, CARBON	3.3K	
R037	1-246-502-00	CARBON	16K 5% 1/4W	RV007	1-224-249-XX	RES, ADJ, METAL GLAZE	1K	
R038	1-246-485-00	CARBON	3.3K 5% 1/4W	<u>TRANSFORMER</u>				
R039	1-246-473-00	CARBON	1K 5% 1/4W	T001	1-427-455-00	TRANSFORMER, I/O PUT		
R040	1-246-469-00	CARBON	680 5% 1/4W	T002	1-427-455-00	TRANSFORMER, I/O PUT		
R041	1-246-463-00	CARBON	390 5% 1/4W	*****				
R042	1-246-519-00	CARBON	82K 5% 1/4W	♣:A-6713-126-A SS-9 BOARD, COMPLETE				
R043	1-246-497-00	CARBON	10K 5% 1/4W	*****				
R044	1-246-464-00	CARBON	430 5% 1/4W	♣:3-655-214-00 CLIP, CABLE				
R045	1-246-515-00	CARBON	56K 5% 1/4W	<u>CAPACITOR</u>				
R046	1-246-422-00	CARBON	7.5 5% 1/4W	C001	1-101-006-00	CERAMIC	0.047MF	50V
R047	▲ 1-246-989-11	CARBON	82 5% 1/8W F	C002	1-123-901-00	ELECT	2.2MF	20% 50V
R048	1-246-497-00	CARBON	10K 5% 1/4W	C004	1-130-474-00	MYLAR	0.0018MF	5% 50V
R049	1-246-477-00	CARBON	1.5K 5% 1/4W	C005	1-123-379-00	ELECT	0.47MF	20% 50V
R050	1-246-477-00	CARBON	1.5K 5% 1/4W	C006	1-101-006-00	CERAMIC	0.047MF	50V
R051	1-246-449-00	CARBON	100 5% 1/4W	C007	1-131-398-00	ELECT(SOLID)	0.22MF	10% 16V
R052	▲ 1-246-986-11	CARBON	39 5% 1/8W F	C008	1-131-398-00	ELECT(SOLID)	0.22MF	10% 16V
R053	1-246-475-00	CARBON	1.2K 5% 1/4W	C009	1-130-477-00	MYLAR	0.0033MF	5% 50V
R054	1-246-479-00	CARBON	1.8K 5% 1/4W	C012	1-123-356-00	ELECT	10MF	20% 16V
R055	1-246-468-00	CARBON	620 5% 1/4W	C013	1-123-296-00	ELECT	220MF	20% 6.3V
R057	1-246-521-00	CARBON	100K 5% 1/4W	C014	1-161-328-51	CERAMIC	0.0047MF	30% 50V
R058	1-246-496-00	CARBON	9.1K 5% 1/4W	C015	1-161-328-51	CERAMIC	0.0047MF	30% 50V
R059	1-246-500-00	CARBON	13K 5% 1/4W					
R060	1-246-473-00	CARBON	1K 5% 1/4W					
R061	1-246-469-00	CARBON	680 5% 1/4W					
R062	1-246-441-00	CARBON	47 5% 1/4W					
R065	1-246-481-00	CARBON	2.2K 5% 1/4W					

**NOTE:**

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.

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

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

**RESISTORS**  
• All resistors are in ohms  
• F : nonflammable

**COILS**  
• MMH : mH, UH :  $\mu$ H

# SS-9

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C016	1-127-470-00	ELECT 0.47MF	5% 16V	C080	1-101-004-00	CERAMIC 0.01MF	50V
C017	1-123-328-00	ELECT 4.7MF	20% 25V	C081	1-101-004-00	CERAMIC 0.01MF	50V
C018	1-131-413-00	ELECT(SOLID) 1MF	10% 16V	C501	1-102-980-00	CERAMIC 270PF	5% 50V
C019	1-101-006-00	CERAMIC 0.047MF	50V	C502	1-102-114-00	CERAMIC 470PF	10% 50V
C020	1-123-901-00	ELECT 2.2MF	20% 50V	C504	1-123-380-00	ELECT 1MF	20% 50V
C022	1-101-006-00	CERAMIC 0.047MF	50V	C505	1-123-379-00	ELECT 0.47MF	20% 50V
C023	1-123-296-00	ELECT 220MF	20% 6.3V	C506	1-123-380-00	ELECT 1MF	20% 50V
C024	1-123-356-00	ELECT 10MF	20% 16V	C507	1-123-380-00	ELECT 1MF	20% 50V
C025	1-123-356-00	ELECT 10MF	20% 16V	C508	1-123-356-00	ELECT 10MF	20% 16V
C026	1-123-333-00	ELECT 100MF	20% 16V	C510	1-161-323-00	CERAMIC 0.001MF	10% 50V
C027	1-123-298-00	ELECT 470MF	20% 6.3V	C511	1-161-323-00	CERAMIC 0.001MF	10% 50V
C028	1-161-265-00	CERAMIC 33PF	5% 50V	<u>FILTER</u>			
C029	1-161-494-00	CERAMIC 0.022MF	30% 25V	CF501	1-527-532-00	OSCILLATOR, CERAMIC	
C030	1-161-021-00	CERAMIC 0.047MF	10% 25V	<u>CONNECTOR</u>			
C031	1-123-381-00	ELECT 2.2MF	20% 50V	CN002♣	1-508-742-00	PIN, CONNECTOR 3P	
C032	1-123-332-00	ELECT 47MF	20% 16V	CN003♣	1-508-742-00	PIN, CONNECTOR 3P	
C033	1-123-330-00	ELECT 22MF	20% 16V	CN004♣	1-508-742-00	PIN, CONNECTOR 3P	
C034	1-123-381-00	ELECT 2.2MF	20% 50V	CN006♣	1-508-845-00	PIN, CONNECTOR 6P	
C040	1-101-006-00	CERAMIC 0.047MF	50V	CN007♣	1-508-744-00	PIN, CONNECTOR 10P	
C041	1-123-356-00	ELECT 10MF	20% 16V	CN008♣	1-508-744-00	PIN, CONNECTOR 10P	
C042	1-130-487-00	MYLAR 0.022MF	5% 50V	CN009	1-508-910-00	PIN, CONNECTOR 12P	
C043	1-130-487-00	MYLAR 0.022MF	5% 50V	CN010♣	1-508-910-00	PIN, CONNECTOR 12P	
C044	1-127-433-51	ELECT(SOLID) 0.1MF	10% 16V	CN011♣	1-508-742-00	PIN, CONNECTOR 3P	
C045	1-161-323-00	CERAMIC 0.001MF	10% 50V	<u>DIODE</u>			
C046	1-101-006-00	CERAMIC 0.047MF	50V	D001 =>	8-719-911-19	DIODE 1SS119	
C047	1-123-901-00	ELECT 2.2MF	20% 50V	D002 =>	8-719-911-19	DIODE 1SS119	
C049	1-101-006-00	CERAMIC 0.047MF	50V	D003 =>	8-719-911-19	DIODE 1SS119	
C050	1-127-437-51	ELECT(SOLID) 0.47MF	10% 16V	D004 =>	8-719-911-19	DIODE 1SS119	
C051	1-123-333-00	ELECT 100MF	20% 16V	D007 =>	8-719-911-19	DIODE 1SS119	
C052	1-130-495-00	MYLAR 0.1MF	5% 50V	D008 =>	8-719-911-19	DIODE 1SS119	
C053	1-161-323-00	CERAMIC 0.001MF	10% 50V	D009 =>	8-719-911-19	DIODE 1SS119	
C054	1-131-413-00	ELECT(SOLID) 1MF	10% 16V	D010 =>	8-719-911-19	DIODE 1SS119	
C055	1-123-379-00	ELECT 0.47MF	20% 50V	D019	8-719-100-68	DIODE RD13EB2	
C056	1-101-006-00	CERAMIC 0.047MF	50V	D020 =>	8-719-911-19	DIODE 1SS119	
C057	1-161-051-00	CERAMIC 0.01MF	30% 25V	D021 =>	8-719-100-39	DIODE RD6.2EB3	
C058	1-127-433-51	ELECT(SOLID) 0.1MF	10% 16V	D022 =>	8-719-911-19	DIODE 1SS119	
C059	1-161-323-00	CERAMIC 0.001MF	10% 50V	D024 =>	8-719-911-19	DIODE 1SS119	
C060	1-127-470-00	ELECT 0.47MF	5% 16V	D028 =>	8-719-815-55	DIODE 1S1555	
C061	1-131-415-00	ELECT(SOLID) 0.68MF	10% 16V	D029 =>	8-719-815-55	DIODE 1S1555	
C062	1-123-323-11	ELECT 470MF	16V	D030 =>	8-719-911-19	DIODE 1SS119	
C063	1-127-437-51	ELECT(SOLID) 0.47MF	10% 16V	D031 =>	8-719-911-19	DIODE 1SS119	
C064	1-123-382-00	ELECT 3.3MF	20% 50V	D501	8-719-200-02	DIODE 10E-2	
C065	1-123-318-00	ELECT 33MF	20% 16V	D502	8-719-200-02	DIODE 10E-2	
C066	1-130-026-00	FILM 0.0047MF	5% 50V	D503 =>	8-719-911-19	DIODE 1SS119	
C067	1-161-323-00	CERAMIC 0.001MF	10% 50V	D504	8-719-100-44	DIODE RD7.5EB2	
C068	1-102-978-00	CERAMIC 220PF	5% 50V	D506 =>	8-719-911-19	DIODE 1SS119	
C069	1-161-323-00	CERAMIC 0.001MF	10% 50V	D507	8-719-100-35	DIODE RD5.6EB2	
C070	1-123-328-00	ELECT 4.7MF	20% 25V	D508 =>	8-719-911-19	DIODE 1SS119	
C071	1-161-313-00	CERAMIC 150PF	10% 50V	D509	8-719-100-44	DIODE RD7.5EB2	
C072	1-108-573-00	MYLAR 0.0056MF	5% 50V				
C073	1-161-772-11	CERAMIC 0.1MF	10% 25V				
C074	1-101-004-00	CERAMIC 0.01MF	50V				
C075	1-123-319-00	ELECT 47MF	20% 16V				

**NOTE:**

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

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

CAPACITORS  
MF :  $\mu$ F, PF :  $\mu$ uF

RESISTORS  
All resistors are in ohms  
F : nonflammable

COILS  
MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
D510	=>8-719-911-19	DIODE 1SS119		Q519	8-729-178-54	TRANSISTOR 2SC2785	
D511	=>8-719-911-19	DIODE 1SS119		Q520	8-729-178-54	TRANSISTOR 2SC2785	
D512	=>8-719-911-19	DIODE 1SS119		Q521	8-729-178-54	TRANSISTOR 2SC2785	
D513	=>8-719-911-19	DIODE 1SS119		Q522	8-729-178-54	TRANSISTOR 2SC2785	
D515	=>8-719-911-19	DIODE 1SS119		Q523	8-729-178-54	TRANSISTOR 2SC2785	
D516	=>8-719-911-19	DIODE 1SS119		Q526	=>8-729-117-54	TRANSISTOR 2SA1175	
				Q527	8-729-178-54	TRANSISTOR 2SC2785	
				Q528	8-729-117-54	TRANSISTOR 2SA1175	
		<u>IC</u>				<u>RESISTOR</u>	
IC001	8-751-430-00	IC CX143A		R001	1-246-475-00	CARBON 1.2K 5% 1/4W	
IC002	8-759-271-20	IC TA7120P		R002	1-246-497-00	CARBON 10K 5% 1/4W	
IC003	=>8-759-601-86	IC CX186M		R003	1-246-509-00	CARBON 33K 5% 1/4W	
IC004	8-759-100-06	IC UPC4556C		R004	1-246-491-00	CARBON 5.6K 5% 1/4W	
IC501	8-759-100-38	IC UPD553C167		R005	1-246-489-00	CARBON 4.7K 5% 1/4W	
		<u>COIL</u>		R006	1-246-545-00	CARBON 1M 5% 1/4W	
L001	1-407-171-XX	MICRO INDUCTOR 150UH		R007	1-246-507-00	CARBON 27K 5% 1/4W	
		<u>TRANSISTOR</u>		R008	1-246-493-00	CARBON 6.8K 5% 1/4W	
Q001	8-729-178-54	TRANSISTOR 2SC2785		R009	1-246-493-00	CARBON 6.8K 5% 1/4W	
Q002	8-729-178-54	TRANSISTOR 2SC2785		R010	1-246-507-00	CARBON 27K 5% 1/4W	
Q003	8-729-178-54	TRANSISTOR 2SC2785		R011	1-246-517-00	CARBON 68K 5% 1/4W	
Q006	8-729-178-54	TRANSISTOR 2SC2785		R012	1-246-473-00	CARBON 1K 5% 1/4W	
Q007	8-729-178-54	TRANSISTOR 2SC2785		R013	1-246-507-00	CARBON 27K 5% 1/4W	
Q008	8-729-178-54	TRANSISTOR 2SC2785		R014	1-246-520-00	CARBON 91K 5% 1/4W	
Q009	=>8-729-117-54	TRANSISTOR 2SA1175		R015	1-246-485-00	CARBON 3.3K 5% 1/4W	
Q010	=>8-729-117-54	TRANSISTOR 2SA1175		R019	1-246-485-00	CARBON 3.3K 5% 1/4W	
Q014	8-729-178-54	TRANSISTOR 2SC2785		R020	1-246-485-00	CARBON 3.3K 5% 1/4W	
Q015	8-729-178-54	TRANSISTOR 2SC2785		R021	1-246-497-00	CARBON 10K 5% 1/4W	
Q016	=>8-729-373-92	TRANSISTOR 2SB739		R022	1-246-501-00	CARBON 15K 5% 1/4W	
Q017	=>8-729-117-54	TRANSISTOR 2SA1175		R023	1-246-509-00	CARBON 33K 5% 1/4W	
Q018	8-729-178-54	TRANSISTOR 2SC2785		R024	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q019	=>8-729-117-54	TRANSISTOR 2SA1175		R025	1-246-519-00	CARBON 82K 5% 1/4W	
Q028	8-729-178-54	TRANSISTOR 2SC2785		R026	1-246-474-00	CARBON 1.1K 5% 1/4W	
Q029	8-729-178-54	TRANSISTOR 2SC2785		R027	1-246-509-00	CARBON 33K 5% 1/4W	
Q030	=>8-729-117-54	TRANSISTOR 2SA1175		R028	1-246-501-00	CARBON 15K 5% 1/4W	
Q032	=>8-729-117-54	TRANSISTOR 2SA1175		R029	1-246-505-00	CARBON 22K 5% 1/4W	
Q033	8-729-178-54	TRANSISTOR 2SC2785		R030	1-246-469-00	CARBON 680 5% 1/4W	
Q501	8-729-117-54	TRANSISTOR 2SA1175		R031	1-246-501-00	CARBON 15K 5% 1/4W	
Q502	8-729-178-54	TRANSISTOR 2SC2785		R032	1-246-497-00	CARBON 10K 5% 1/4W	
Q503	8-729-178-54	TRANSISTOR 2SC2785		R033	1-246-535-00	CARBON 390K 5% 1/4W	
Q504	8-729-178-54	TRANSISTOR 2SC2785		R034	1-246-497-00	CARBON 10K 5% 1/4W	
Q505	8-729-178-54	TRANSISTOR 2SC2785		R035	1-246-459-00	CARBON 270 5% 1/4W	
Q506	8-729-178-54	TRANSISTOR 2SC2785		R036	1-246-479-00	CARBON 1.8K 5% 1/4W	
Q507	8-729-178-54	TRANSISTOR 2SC2785		R038	1-246-504-00	CARBON 20K 5% 1/4W	
Q509	=>8-729-117-54	TRANSISTOR 2SA1175		R047	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q510	=>8-729-373-92	TRANSISTOR 2SB739		R048	1-246-514-00	CARBON 51K 5% 1/4W	
Q511	=>8-729-117-54	TRANSISTOR 2SA1175		R049	1-246-455-00	CARBON 180 5% 1/4W	
Q512	=>8-729-117-54	TRANSISTOR 2SA1175		R050	1-246-477-00	CARBON 1.5K 5% 1/4W	
Q513	=>8-729-117-54	TRANSISTOR 2SA1175		R051	1-246-473-00	CARBON 1K 5% 1/4W	
Q515	8-729-178-54	TRANSISTOR 2SC2785		R052	1-246-511-00	CARBON 39K 5% 1/4W	
Q516	8-729-178-54	TRANSISTOR 2SC2785		R053	1-246-501-00	CARBON 15K 5% 1/4W	
Q517	8-729-178-54	TRANSISTOR 2SC2785		R054	1-246-473-00	CARBON 1K 5% 1/4W	
Q518	8-729-178-54	TRANSISTOR 2SC2785		R055	1-246-515-00	CARBON 56K 5% 1/4W	

**NOTE:**

The components identified by shading and mark  $\Delta$  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 "  $\Delta$  " 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 :  $\mu$ F, PF :  $\mu$  $\mu$ F

**RESISTORS**  
 All resistors are in ohms  
 F : nonflammable

**COILS**  
 MMH : mH, UH :  $\mu$ H

# SS-9

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R056	1-246-527-00	CARBON	180K 5% 1/4W	R131	1-246-501-00	CARBON	15K 5% 1/4W
R057	1-246-471-00	CARBON	820 5% 1/4W	R132	1-246-501-00	CARBON	15K 5% 1/4W
R058	1-246-477-00	CARBON	1.5K 5% 1/4W	R134	1-246-477-00	CARBON	1.5K 5% 1/4W
R059	1-246-462-00	CARBON	360 5% 1/4W	R135	1-246-535-00	CARBON	390K 5% 1/4W
R060	1-246-483-00	CARBON	2.7K 5% 1/4W	R136	1-246-497-00	CARBON	10K 5% 1/4W
R061	1-246-485-00	CARBON	3.3K 5% 1/4W	R137	1-246-497-00	CARBON	10K 5% 1/4W
R062	1-246-443-00	CARBON	56 5% 1/4W	R139	1-202-472-00	COMPOSITION	5.1M 5% 1/4W
R063	1-246-501-00	CARBON	15K 5% 1/4W	R143	1-246-473-00	CARBON	1K 5% 1/4W
R064	1-246-521-00	CARBON	100K 5% 1/4W	R144	1-246-521-00	CARBON	100K 5% 1/4W
R065	1-246-495-00	CARBON	8.2K 5% 1/4W	R145	1-246-499-00	CARBON	12K 5% 1/4W
R066	1-246-513-00	CARBON	47K 5% 1/4W	R146	1-246-513-00	CARBON	47K 5% 1/4W
R067	1-246-505-00	CARBON	22K 5% 1/4W	R147	1-246-527-00	CARBON	180K 5% 1/4W
R068	1-246-507-00	CARBON	27K 5% 1/4W	R148	1-246-497-00	CARBON	10K 5% 1/4W
R069	1-246-449-00	CARBON	100 5% 1/4W	R149	1-246-509-00	CARBON	33K 5% 1/4W
R070	1-246-497-00	CARBON	10K 5% 1/4W	R150	1-246-542-00	CARBON	750K 5% 1/4W
R071	1-246-497-00	CARBON	10K 5% 1/4W	R151	1-246-473-00	CARBON	1K 5% 1/4W
R091	1-246-520-00	CARBON	91K 5% 1/4W	R153	▲ 1-212-855-11	FUSIBLE	8.2K 5% 1/4W
R092	1-246-508-00	CARBON	30K 5% 1/4W	R501	1-246-485-00	CARBON	3.3K 5% 1/4W
R093	1-246-511-00	CARBON	39K 5% 1/4W	R502	1-246-521-00	CARBON	100K 5% 1/4W
R094	1-246-511-00	CARBON	39K 5% 1/4W	R503	1-246-497-00	CARBON	10K 5% 1/4W
R095	1-246-493-00	CARBON	6.8K 5% 1/4W	R504	1-246-521-00	CARBON	100K 5% 1/4W
R096	1-246-493-00	CARBON	6.8K 5% 1/4W	R505	1-246-497-00	CARBON	10K 5% 1/4W
R097	1-202-472-00	COMPOSITION	5.1M 5% 1/4W	R506	1-246-521-00	CARBON	100K 5% 1/4W
R098	1-246-514-00	CARBON	51K 5% 1/4W	R507	1-246-497-00	CARBON	10K 5% 1/4W
R099	1-246-489-00	CARBON	4.7K 5% 1/4W	R508	1-246-521-00	CARBON	100K 5% 1/4W
R101	1-246-429-00	CARBON	15 5% 1/4W	R509	1-246-497-00	CARBON	10K 5% 1/4W
R102	1-214-152-00	METAL	6.8K 1% 1/4W	R510	1-246-521-00	CARBON	100K 5% 1/4W
R103	1-246-519-00	CARBON	82K 5% 1/4W	R511	1-246-495-00	CARBON	8.2K 5% 1/4W
R104	1-246-509-00	CARBON	33K 5% 1/4W	R512	1-246-492-00	CARBON	6.2K 5% 1/4W
R105	1-246-495-00	CARBON	8.2K 5% 1/4W	R513	1-246-521-00	CARBON	100K 5% 1/4W
R106	1-246-523-00	CARBON	120K 5% 1/4W	R514	1-246-505-00	CARBON	22K 5% 1/4W
R107	1-246-497-00	CARBON	10K 5% 1/4W	R515	1-246-521-00	CARBON	100K 5% 1/4W
R108	1-246-519-00	CARBON	82K 5% 1/4W	R516	1-246-497-00	CARBON	10K 5% 1/4W
R109	1-246-501-00	CARBON	15K 5% 1/4W	R517	1-246-521-00	CARBON	100K 5% 1/4W
R110	1-246-532-00	CARBON	300K 5% 1/4W	R519	1-246-481-00	CARBON	2.2K 5% 1/4W
R111	1-246-465-00	CARBON	470 5% 1/4W	R520	1-246-481-00	CARBON	2.2K 5% 1/4W
R112	1-246-479-00	CARBON	1.8K 5% 1/4W	R521	1-246-497-00	CARBON	10K 5% 1/4W
R113	1-246-489-00	CARBON	4.7K 5% 1/4W	R522	1-246-515-00	CARBON	56K 5% 1/4W
R114	1-246-503-00	CARBON	18K 5% 1/4W	R523	1-246-515-00	CARBON	56K 5% 1/4W
R115	1-246-473-00	CARBON	1K 5% 1/4W	R524	1-246-497-00	CARBON	10K 5% 1/4W
R116	1-246-509-00	CARBON	33K 5% 1/4W	R525	1-246-481-00	CARBON	2.2K 5% 1/4W
R117	1-246-496-00	CARBON	9.1K 5% 1/4W	R526	1-246-481-00	CARBON	2.2K 5% 1/4W
R118	1-246-496-00	CARBON	9.1K 5% 1/4W	R527	1-246-481-00	CARBON	2.2K 5% 1/4W
R119	1-246-509-00	CARBON	33K 5% 1/4W	R528	1-246-481-00	CARBON	2.2K 5% 1/4W
R120	1-246-442-00	CARBON	51 5% 1/4W	R529	1-246-481-00	CARBON	2.2K 5% 1/4W
R121	1-246-509-00	CARBON	33K 5% 1/4W	R530	1-246-481-00	CARBON	2.2K 5% 1/4W
R122	1-246-503-00	CARBON	18K 5% 1/4W	R531	1-246-497-00	CARBON	10K 5% 1/4W
R123	1-246-497-00	CARBON	10K 5% 1/4W	R532	1-246-497-00	CARBON	10K 5% 1/4W
R125	1-246-527-00	CARBON	180K 5% 1/4W	R533	1-246-505-00	CARBON	22K 5% 1/4W
R126	1-246-497-00	CARBON	10K 5% 1/4W	R534	1-246-505-00	CARBON	22K 5% 1/4W
R128	1-246-499-00	CARBON	12K 5% 1/4W	R536	1-246-505-00	CARBON	22K 5% 1/4W
R129	1-246-495-00	CARBON	8.2K 5% 1/4W	R537	1-246-497-00	CARBON	10K 5% 1/4W
R130	1-246-517-00	CARBON	68K 5% 1/4W	R538	1-246-505-00	CARBON	22K 5% 1/4W
				R539	1-246-505-00	CARBON	22K 5% 1/4W

**NOTE:**

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• MF :  $\mu$ F, PF :  $\mu$  $\mu$ F

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark
R540	1-246-475-00	CARBON 1.2K 5% 1/4W	
R541	1-246-497-00	CARBON 10K 5% 1/4W	
R542	1-246-505-00	CARBON 22K 5% 1/4W	
R543	1-246-505-00	CARBON 22K 5% 1/4W	
R544	1-246-491-00	CARBON 5.6K 5% 1/4W	
R545	1-246-497-00	CARBON 10K 5% 1/4W	
R555	1-246-505-00	CARBON 22K 5% 1/4W	
R556	1-246-505-00	CARBON 22K 5% 1/4W	
R557	1-246-505-00	CARBON 22K 5% 1/4W	
R558	1-246-497-00	CARBON 10K 5% 1/4W	
R559	1-246-505-00	CARBON 22K 5% 1/4W	
R560	1-246-505-00	CARBON 22K 5% 1/4W	
R561	1-246-505-00	CARBON 22K 5% 1/4W	
R562	1-246-497-00	CARBON 10K 5% 1/4W	
R563	1-246-515-00	CARBON 56K 5% 1/4W	
R564	1-246-470-00	CARBON 750 5% 1/4W	
R570	1-246-519-00	CARBON 82K 5% 1/4W	
R571	1-246-505-00	CARBON 22K 5% 1/4W	
R572	1-246-519-00	CARBON 82K 5% 1/4W	
R573	1-246-505-00	CARBON 22K 5% 1/4W	
R574	1-246-519-00	CARBON 82K 5% 1/4W	
R575	1-246-505-00	CARBON 22K 5% 1/4W	
R576	1-246-519-00	CARBON 82K 5% 1/4W	
R577	1-246-505-00	CARBON 22K 5% 1/4W	
R578	1-246-519-00	CARBON 82K 5% 1/4W	
R579	1-246-505-00	CARBON 22K 5% 1/4W	
R580	1-246-519-00	CARBON 82K 5% 1/4W	
R581	1-246-505-00	CARBON 22K 5% 1/4W	
R582	1-246-497-00	CARBON 10K 5% 1/4W	
R583	1-246-497-00	CARBON 10K 5% 1/4W	
R584	1-246-473-00	CARBON 1K 5% 1/4W	
R585	1-246-471-00	CARBON 820 5% 1/4W	
R586	1-246-481-00	CARBON 2.2K 5% 1/4W	
R587	1-246-481-00	CARBON 2.2K 5% 1/4W	
R589	1-246-477-00	CARBON 1.5K 5% 1/4W	
R590	1-246-505-00	CARBON 22K 5% 1/4W	
R591	1-246-505-00	CARBON 22K 5% 1/4W	
R592	1-246-495-00	CARBON 8.2K 5% 1/4W	
R593	1-246-483-00	CARBON 2.7K 5% 1/4W	
R594	1-246-505-00	CARBON 22K 5% 1/4W	
R595	1-246-521-00	CARBON 100K 5% 1/4W	
R596	1-246-497-00	CARBON 10K 5% 1/4W	
R597	1-246-505-00	CARBON 22K 5% 1/4W	
R598	1-246-505-00	CARBON 22K 5% 1/4W	
R599	1-246-505-00	CARBON 22K 5% 1/4W	
R600	1-246-505-00	CARBON 22K 5% 1/4W	
R601	1-246-497-00	CARBON 10K 5% 1/4W	
R602	1-246-521-00	CARBON 100K 5% 1/4W	
R603	1-246-505-00	CARBON 22K 5% 1/4W	
R604	1-246-505-00	CARBON 22K 5% 1/4W	
R605	1-246-513-00	CARBON 47K 5% 1/4W	
R606	1-246-497-00	CARBON 10K 5% 1/4W	
R607	1-246-515-00	CARBON 56K 5% 1/4W	

Ref.No	Part No	Description	Remark
R612	1-246-505-00	CARBON 22K 5% 1/4W	
R613	1-246-505-00	CARBON 22K 5% 1/4W	
R614	1-246-505-00	CARBON 22K 5% 1/4W	
R615	1-246-497-00	CARBON 10K 5% 1/4W	
R616	1-246-505-00	CARBON 22K 5% 1/4W	
R617	1-246-505-00	CARBON 22K 5% 1/4W	
R618	1-246-473-00	CARBON 1K 5% 1/4W	
R620	1-246-513-00	CARBON 47K 5% 1/4W	
R621	1-246-537-00	CARBON 470K 5% 1/4W	
R622	1-246-537-00	CARBON 470K 5% 1/4W	
R623	1-246-521-00	CARBON 100K 5% 1/4W	
R624	1-246-497-00	CARBON 10K 5% 1/4W	
R625	1-246-521-00	CARBON 100K 5% 1/4W	
R626	1-246-537-00	CARBON 470K 5% 1/4W	
R627	1-246-515-00	CARBON 56K 5% 1/4W	

VARIABLE RESISTOR

RV001	1-226-852-00	RES, ADJ, CARBON 22K
RV004	1-226-497-00	RES, VAR, CARBON 100K
RV006	1-226-853-00	RES, ADJ, CARBON 47K
RV007	1-226-853-00	RES, ADJ, CARBON 47K
RV008	1-226-853-00	RES, ADJ, CARBON 47K
RV009	0-394-912-00	RES, ADJ, METAL FILM 4.7K
RV010	1-226-853-00	RES, ADJ, CARBON 47K
RV011	1-226-849-00	RES, ADJ, CARBON 3.3K

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- ▲:A-6728-417-A AD-6 BOARD, COMPLETE \*\*\*\*\*
- ▲:3-674-139-00 CASE (B), SHIELD, AD
- ▲:3-674-140-00 CASE (E), SHIELD, AD

CAPACITOR

C001	1-123-328-00	ELECT 4.7MF 20% 25V
C002	1-123-333-00	ELECT 100MF 20% 16V
C003	1-108-559-00	MYLAR 0.0015MF 5% 50V
C005	1-108-579-00	MYLAR 0.01MF 5% 50V
C006	1-123-382-00	ELECT 3.3MF 20% 50V
C007	1-123-382-00	ELECT 3.3MF 20% 50V
C008	1-123-321-00	ELECT 220MF 20% 16V
C009	1-123-356-00	ELECT 10MF 20% 16V
C010	1-161-322-00	CERAMIC 820PF 10% 50V
C011	1-161-320-00	CERAMIC 560PF 10% 50V
C012	1-101-361-00	CERAMIC 150PF 5% 50V
C013	1-123-382-00	ELECT 3.3MF 20% 50V
C014	1-108-587-00	MYLAR 0.022MF 5% 50V
C015	1-123-356-00	ELECT 10MF 20% 16V
C016	1-123-356-00	ELECT 10MF 20% 16V
C018	1-123-333-00	ELECT 100MF 20% 16V
C019	1-123-356-00	ELECT 10MF 20% 16V
C020	1-108-559-00	MYLAR 0.0015MF 5% 50V
C021	1-161-316-00	CERAMIC 270PF 10% 50V
C022	1-123-356-00	ELECT 10MF 20% 16V

NOTE:

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.

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

CAPACITORS  
• MF : μF, PF : μμF

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : μH, UH : μH

**AD-6****IF-19**

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C023	1-129-709-00	FILM 0.0039MF	10% 630V	R019	1-246-505-00	CARBON 22K 5%	1/4W
C024	1-108-381-00	MYLAR 0.022MF	10% 100V	R020	1-246-513-00	CARBON 47K 5%	1/4W
C025	1-108-383-00	MYLAR 0.033MF	10% 100V	R021	1-246-505-00	CARBON 22K 5%	1/4W
C026	1-123-332-00	ELECT 47MF	20% 16V	R022	1-246-501-00	CARBON 15K 5%	1/4W
C027	1-123-333-00	ELECT 100MF	20% 16V	R023	1-246-490-00	CARBON 5.1K 5%	1/4W
C028	1-107-166-00	MICA 62PF	5% 500V	R024	1-246-505-00	CARBON 22K 5%	1/4W
C029	1-123-321-00	ELECT 220MF	20% 16V	R025	1-212-849-00	FUSIBLE 4.7 5%	1/4W F
C030	1-123-333-00	ELECT 100MF	20% 16V	R026	1-246-449-00	CARBON 100 5%	1/4W
C031	1-123-332-00	ELECT 47MF	20% 16V	R027	1-246-449-00	CARBON 100 5%	1/4W
C032	1-123-318-00	ELECT 33MF	20% 16V	R028	1-246-505-00	CARBON 22K 5%	1/4W
C033	1-123-328-00	ELECT 4.7MF	20% 25V	R029	1-246-473-00	CARBON 1K 5%	1/4W
C034	1-123-333-00	ELECT 100MF	20% 16V	R030	1-246-532-00	CARBON 300K 5%	1/4W
<u>CONNECTOR</u>				<u>VARIABLE RESISTOR</u>			
CN001	1-508-744-00	PIN, CONNECTOR 10P		RV001	1-224-256-XX	RES, ADJ, METAL GLAZE 220K	
CN002	1-508-743-00	PIN, CONNECTOR 5P		RV002	1-226-853-00	RES, ADJ, CARBON 47K	
<u>DIODE</u>				RV003	1-226-851-00	RES, ADJ, CARBON 10K	
D001	=>8-719-911-19	DIODE 1SS119		RV004	1-226-851-00	RES, ADJ, CARBON 10K	
D002	=>8-719-911-19	DIODE 1SS119		<u>RELAY</u>			
D003	=>8-719-100-57	DIODE RD10EB2		RY001	1-515-418-00	RELAY	
D004	=>8-719-911-19	DIODE 1SS119		<u>TRANSFORMER</u>			
<u>IC</u>				T001	1-405-670-00	TRANSFORMER, OSCILLATOR	
IC001	8-759-951-02	IC BA5102		*****			
<u>COIL</u>				♣:A-6721-110-A	IF-19 BOARD, COMPLETE		
L001	1-407-504-00	MICRO INDUCTOR 10MMH		*****			
L002	1-407-718-00	MICRO INDUCTOR 1.2MMH		♣:3-671-234-00	HOLDER (J), LAMP		
<u>VARIABLE COIL</u>				♣:3-671-235-00	COVER, HOLDER, LAMP		
LV001	1-407-240-00	MICRO INDUCTOR 22MMH		♣:3-674-114-00	CASE (UPPER LID), SHIELD, VIF		
<u>TRANSISTOR</u>				♣:3-674-115-00	CASE (BOTTOM LID), SHIELD, VIF		
Q001	8-729-177-43	TRANSISTOR 2SD774		♣:4-350-807-00	CASE (MAIN), SHIELD, VIF		
Q002	8-729-178-54	TRANSISTOR 2SC2785		<u>CAPACITOR</u>			
Q003	8-729-178-54	TRANSISTOR 2SC2785		C001	1-102-125-00	CERAMIC 0.0047MF	10% 50V
Q004	8-729-908-62	TRANSISTOR 2SD786		C002	1-108-242-00	MYLAR 0.022MF	10% 50V
<u>RESISTOR</u>				C003	1-123-447-00	ELECT 0.22MF	20% 50V
R001	1-246-425-00	CARBON 10 5%	1/4W	C004	1-123-447-00	ELECT 0.22MF	20% 50V
R003	1-246-455-00	CARBON 180 5%	1/4W	C005	1-102-523-00	CERAMIC 56PF	5% 50V
R004	1-246-528-00	CARBON 200K 5%	1/4W	C006	1-123-323-00	ELECT 470MF	20% 16V
R006	1-246-459-00	CARBON 270 5%	1/4W	C007	1-102-129-00	CERAMIC 0.01MF	10% 50V
R009	1-246-490-00	CARBON 5.1K 5%	1/4W	C008	1-102-121-00	CERAMIC 0.0022MF	10% 50V
R010	1-246-504-00	CARBON 20K 5%	1/4W	C009	1-123-356-00	ELECT 10MF	20% 16V
R011	1-246-461-00	CARBON 330 5%	1/4W	C010	1-108-837-00	MYLAR 0.01MF	10% 50V
R012	1-246-477-00	CARBON 1.5K 5%	1/4W	C011	1-123-380-00	ELECT 1MF	20% 50V
R013	1-246-459-00	CARBON 270 5%	1/4W	C012	1-102-510-00	CERAMIC 12PF	5% 50V
R016	1-246-509-00	CARBON 33K 5%	1/4W	C013	1-102-523-00	CERAMIC 56PF	5% 50V
R017	1-246-509-00	CARBON 33K 5%	1/4W	C014	1-123-379-00	ELECT 0.47MF	20% 50V
R018	1-246-481-00	CARBON 2.2K 5%	1/4W	C015	1-123-380-00	ELECT 1MF	20% 50V

**NOTE:**

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.

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

**CAPACITORS**

• MF :  $\mu$ F, PF :  $\mu$ uF

**RESISTORS**

• All resistors are in ohms  
• F : nonflammable

**COILS**

• MMH : mH, UH :  $\mu$ H



Ref.No	Part No	Description	Remark
C016	1-102-125-00	CERAMIC 0.0047MF 10%	50V
C017	1-123-356-00	ELECT 10MF 20%	16V
C018	1-102-125-00	CERAMIC 0.0047MF 10%	50V
C019	1-102-125-00	CERAMIC 0.0047MF 10%	50V
C020	1-102-125-00	CERAMIC 0.0047MF 10%	50V
C021	1-123-318-00	ELECT 33MF 20%	16V
C022	1-102-129-00	CERAMIC 0.01MF 10%	50V
C023	1-101-888-00	CERAMIC 68PF 5%	50V
C024	1-101-884-00	CERAMIC 56PF 5%	50V
C025	1-123-379-00	ELECT 0.47MF 20%	50V
C026	1-108-377-00	MYLAR 0.01MF 10%	100V
C027	1-161-025-00	CERAMIC 0.1MF 10%	25V
C028	1-123-382-00	ELECT 3.3MF 20%	50V
C029	1-123-328-00	ELECT 4.7MF 20%	25V
C030	1-123-330-00	ELECT 22MF 20%	16V
C031	1-123-356-00	ELECT 10MF 20%	16V

FILTER

CF001	1-404-134-00	TRAP, CERAMIC (5.5MHZ)
CF002	1-527-263-00	CERAMIC FILTER (5.5MHZ)
CF003	1-404-134-00	TRAP, CERAMIC (5.5MHZ)
CF004	1-409-333-00	TRAP, CERAMIC (6.0MHZ)

CONNECTOR

CN001	1-508-743-00	PIN, CONNECTOR 5P
CN002	1-560-295-00	PIN, CONNECTOR 7P
CN003	1-508-846-00	PIN, CONNECTOR 8P

JACK

CNJ001	1-526-575-00	SOCKET, PLUG
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DIODE

D001	=>8-719-911-19	DIODE 1SS119
D002	=>8-719-911-19	DIODE 1SS119
D003	=>8-719-911-19	DIODE 1SS119
D004	=>8-719-911-19	DIODE 1SS119
D005	=>8-719-911-19	DIODE 1SS119
D006	=>8-719-911-19	DIODE 1SS119
D007	=>8-719-911-19	DIODE 1SS119
D008	=>8-719-911-19	DIODE 1SS119
D010	=>8-719-911-19	DIODE 1SS119
D011	8-719-200-02	DIODE 10E2

IC

IC001	8-758-851-00	IC CX885A
IC002	8-759-157-40	IC UPC574J

COIL

L001	1-408-434-11	MICRO INDUCTOR 2.2UH
L002	1-408-403-00	MICRO INDUCTOR 3.3UH
L003	1-408-448-11	MICRO INDUCTOR 33UH
L004	1-408-408-00	MICRO INDUCTOR 8.2UH
L005	1-408-408-00	MICRO INDUCTOR 8.2UH

Ref.No	Part No	Description	Remark
L006	1-407-716-00	MICRO INDUCTOR 820UH	
L007	1-408-444-11	MICRO INDUCTOR 15UH	
L008	1-408-408-00	MICRO INDUCTOR 8.2UH	

NEON LAMP

NL001	1-519-154-61	LAMP, NEON
NL002	1-519-154-61	LAMP, NEON
NL003	1-519-154-61	LAMP, NEON
NL004	1-519-154-61	LAMP, NEON
NL005	1-519-154-61	LAMP, NEON
NL006	1-519-154-61	LAMP, NEON
NL007	1-519-154-61	LAMP, NEON
NL008	1-519-154-61	LAMP, NEON

TUNING BLOCK

PS001	1-464-191-00	TUNING BLOCK (8 CH)
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TRANSISTOR

Q001	8-729-178-54	TRANSISTOR 2SC2785
Q002	8-729-178-54	TRANSISTOR 2SC2785
Q003	8-729-178-54	TRANSISTOR 2SC2785
Q004	8-729-178-54	TRANSISTOR 2SC2785
Q005	8-729-178-54	TRANSISTOR 2SC2785
Q006	8-729-178-54	TRANSISTOR 2SC2785
Q007	8-723-302-00	TRANSISTOR 2SK43-2
Q008	8-729-309-06	TRANSISTOR 2SC1890A
Q009	8-729-117-54	TRANSISTOR 2SA1175
Q010	8-729-309-36	TRANSISTOR 2SA893A
Q011	8-729-309-06	TRANSISTOR 2SC1890A
Q013	8-729-178-54	TRANSISTOR 2SC2785
Q014	8-729-117-54	TRANSISTOR 2SA1175
Q015	8-729-117-54	TRANSISTOR 2SA1175
Q016	8-729-178-54	TRANSISTOR 2SC2785
Q017	8-729-117-54	TRANSISTOR 2SA1175
Q018	8-729-178-54	TRANSISTOR 2SC2785

RESISTOR

R001	1-246-487-00	CARBON 3.9K 5%	1/4W
R002	1-246-521-00	CARBON 100K 5%	1/4W
R003	1-246-511-00	CARBON 39K 5%	1/4W
R004	1-246-471-00	CARBON 820 5%	1/4W
R005	1-246-485-00	CARBON 3.3K 5%	1/4W
R006	1-246-473-00	CARBON 1K 5%	1/4W
R007	1-246-473-00	CARBON 1K 5%	1/4W
R008	1-246-479-00	CARBON 1.8K 5%	1/4W
R009	1-246-515-00	CARBON 56K 5%	1/4W
R010	1-246-463-00	CARBON 390 5%	1/4W
R011	1-246-463-00	CARBON 390 5%	1/4W
R012	1-246-473-00	CARBON 1K 5%	1/4W
R013	1-246-467-00	CARBON 560 5%	1/4W
R014	1-246-460-00	CARBON 300 5%	1/4W
R015	1-246-449-00	CARBON 100 5%	1/4W

NOTE:

The components identified by shading and mark  $\Delta$  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 "  $\Delta$  " 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 :  $\mu$ F, PF :  $\mu$ uF

RESISTORS

\* All resistors are in ohms  
\* F : nonflammable

COILS

\* MMH : mH, UH :  $\mu$ H

# IF-19

# TT-5

# TT-2

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark		
R016	1-246-467-00	CARBON	560 5% 1/4W						
R017	1-246-501-00	CARBON	15K 5% 1/4W						
R018	1-246-485-00	CARBON	3.3K 5% 1/4W						
R019	1-246-477-00	CARBON	1.5K 5% 1/4W						
R020	1-246-515-00	CARBON	56K 5% 1/4W						
R021	1-246-487-00	CARBON	3.9K 5% 1/4W						
R022	1-246-473-00	CARBON	1K 5% 1/4W						
R023	1-246-505-00	CARBON	22K 5% 1/4W						
R024	1-246-443-00	CARBON	56 5% 1/4W						
R025	1-246-497-00	CARBON	10K 5% 1/4W						
R026	1-246-497-00	CARBON	10K 5% 1/4W						
R027	1-246-497-00	CARBON	10K 5% 1/4W						
R028	1-246-521-00	CARBON	100K 5% 1/4W						
R029	1-202-735-00	COMPOSITION	22M 10% 1/2W						
R030	1-246-497-00	CARBON	10K 5% 1/4W						
R031	1-246-501-00	CARBON	15K 5% 1/4W						
R032	▲ 1-206-749-00	METAL	10K 5% 3W				F		
R033	1-246-513-00	CARBON	47K 5% 1/4W						
R034	1-246-545-00	CARBON	1M 5% 1/4W						
R035	1-246-542-00	CARBON	750K 5% 1/4W						
R036	1-246-497-00	CARBON	10K 5% 1/4W						
R037	1-246-497-00	CARBON	10K 5% 1/4W						
R038	1-246-525-00	CARBON	150K 5% 1/4W						
R039	1-246-507-00	CARBON	27K 5% 1/4W						
R040	1-246-505-00	CARBON	22K 5% 1/4W						
R041	1-246-521-00	CARBON	100K 5% 1/4W						
R042	1-246-507-00	CARBON	27K 5% 1/4W						
R043	1-246-505-00	CARBON	22K 5% 1/4W						
R044	1-246-513-00	CARBON	47K 5% 1/4W						
R045	▲ 1-247-033-00	CARBON	100 5% 1/8W				F		
R046	1-246-533-00	CARBON	330K 5% 1/4W						
R047	1-246-525-00	CARBON	150K 5% 1/4W						
R048	1-246-461-00	CARBON	330 5% 1/4W						
R049	1-246-481-00	CARBON	2.2K 5% 1/4W						
R050	1-246-507-00	CARBON	27K 5% 1/4W						
R051	1-246-525-00	CARBON	150K 5% 1/4W						
R052	1-246-497-00	CARBON	10K 5% 1/4W						
R053	1-246-521-00	CARBON	100K 5% 1/4W						
R056	1-246-506-00	CARBON	24K 5% 1/4W						
R057	1-246-514-00	CARBON	51K 5% 1/4W						
R058	1-246-499-00	CARBON	12K 5% 1/4W						
R059	1-246-461-00	CARBON	330 5% 1/4W						
R060	1-246-449-00	CARBON	100 5% 1/4W						
R061	1-246-501-00	CARBON	15K 5% 1/4W						
R063	1-246-457-00	CARBON	220 5% 1/4W						
R064	1-246-537-00	CARBON	470K 5% 1/4W						
R065	1-246-489-00	CARBON	4.7K 5% 1/4W						
R066	1-246-465-00	CARBON	470 5% 1/4W						
R067	1-246-491-00	CARBON	5.6K 5% 1/4W						
<u>VARIABLE RESISTOR</u>									
RV001	1-226-850-00	RES, ADJ, CARBON	4.7K						
RV002	1-226-850-00	RES, ADJ, CARBON	4.7K						
<p>NOTE:</p> <p>The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.</p>				<p>• =&gt;: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.</p> <p>• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.</p>					
<p>• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.</p>				<p>CAPACITORS</p> <p>• MF : <math>\mu</math>F, PF : <math>\mu</math><math>\mu</math>F</p>		<p>RESISTORS</p> <p>• All resistors are in ohms</p> <p>• F : nonflammable</p>		<p>COILS</p> <p>• MMH : mH, UH : <math>\mu</math>H</p>	

Ref.No	Part No	Description	Remark
		<u>SWITCH</u>	
S001	1-553-880-00	SWITCH, PUSH (8 KEY)	
S002	1-516-226-00	SLIDE SWITCH	
S003	1-516-226-00	SLIDE SWITCH	
		<u>FILTER</u>	
SF001	1-404-323-00	SAWF (38.9MHZ)	
		<u>TRANSFORMER</u>	
T001	1-404-390-00	COIL, VIF	
T002	1-404-182-00	COIL, VIF	
T003	1-404-182-00	COIL, VIF	
T004	1-404-124-00	SIFT	
T005	1-404-389-00	COIL, SIF	
T006	1-404-390-00	COIL, VIF	
		<u>THERMISTOR</u>	
TH001	1-800-626-00	THERMISTOR	
		<u>POST PIN</u>	
TP001	1-536-354-00	POST PIN	
TP002	1-536-354-00	POST PIN	
*****			
	▲:1-605-704-13	TT-5 BOARD	
		*****	
		<u>CAPACITOR</u>	
C101	1-161-021-00	CERAMIC	0.047MF 10% 25V
C102	1-123-901-00	ELECT	2.2MF 20% 50V
		<u>CONNECTOR</u>	
CN101	▲:1-508-848-00	PIN, CONNECTOR	6P
		<u>COIL</u>	
L101	1-408-538-00	COIL, NOISE FILTER	
*****			
	▲:1-605-705-00	TT-2 BOARD	
		*****	
		<u>SWITCH</u>	
S7103	1-553-847-00	SWITCH, LEVER	

TT-3

TT-4

SL-1

DR-1

Ref.No	Part No	Description	Remark
	♣:1-605-706-00	TT-3 BOARD *****	
		<u>SWITCH</u>	
S7102	1-553-847-00	SWITCH, LEVER	
*****			
	♣:1-605-707-00	TT-4 BOARD *****	
		<u>SWITCH</u>	
S7101	1-553-847-00	SWITCH, LEVER	
*****			
	♣:A-6728-304-A	SL-1 BOARD, COMPLETE *****	
	♣:3-659-359-00	PLATE, BOOST, REED SWITCH	
		<u>SWITCH</u>	
S7201	1-552-180-00	SWITCH, REED	
*****			
	♣:A-6728-305-A	DR-1 BOARD, COMPLETE *****	
		<u>CAPACITOR</u>	
C001	1-161-051-00	CERAMIC	0.01MF 30% 25V
C002	1-129-794-00	FILM	0.0033MF 5% 100V
C003	1-161-051-00	CERAMIC	0.01MF 30% 25V
C004	1-161-051-00	CERAMIC	0.01MF 30% 25V
C005	1-161-051-00	CERAMIC	0.01MF 30% 25V
C006	1-123-380-00	ELECT	1MF 20% 50V
C007	1-123-380-00	ELECT	1MF 20% 50V
C008	1-161-494-00	CERAMIC	0.022MF 30% 25V
C009	1-123-379-00	ELECT	0.47MF 20% 50V
C010	1-161-051-00	CERAMIC	0.01MF 30% 25V
C011	1-129-794-00	FILM	0.0033MF 5% 100V
C012	1-161-051-00	CERAMIC	0.01MF 30% 25V
C013	1-161-051-00	CERAMIC	0.01MF 30% 25V
C014	1-123-380-00	ELECT	1MF 20% 50V
C015	1-123-380-00	ELECT	1MF 20% 50V
C016	1-161-494-00	CERAMIC	0.022MF 30% 25V
C017	1-123-379-00	ELECT	0.47MF 20% 50V
C018	1-123-332-00	ELECT	47MF 20% 16V
C019	1-161-051-00	CERAMIC	0.01MF 30% 25V
C020	1-161-051-00	CERAMIC	0.01MF 30% 25V
C021	1-123-328-00	ELECT	4.7MF 20% 25V
C022	1-161-494-00	CERAMIC	0.022MF 30% 25V

Ref.No	Part No	Description	Remark
		<u>CONNECTOR</u>	
CN001♣	1-508-743-00	PIN, CONNECTOR 5P	
CN002♣	1-508-742-00	PIN, CONNECTOR 3P	
CN003♣	1-508-742-00	PIN, CONNECTOR 3P	
CN004♣	1-508-742-00	PIN, CONNECTOR 3P	
CN005♣	1-508-742-00	PIN, CONNECTOR 3P	
CN006♣	1-508-796-00	PIN, CONNECTOR 2P	
		<u>DIODE</u>	
D001	8-719-911-19	DIODE 1SS119	
D003	8-719-200-02	DIODE 10E2	
D004	8-719-200-02	DIODE 10E2	
D005	8-719-200-02	DIODE 10E2	
D006	8-719-200-02	DIODE 10E2	
D007	8-719-200-02	DIODE 10E2	
D008	8-719-200-02	DIODE 10E2	
D009	8-719-200-02	DIODE 10E2	
D010	8-719-200-02	DIODE 10E2	
D011	8-719-200-02	DIODE 10E2	
D012	8-719-200-02	DIODE 10E2	
D013	8-719-200-02	DIODE 10E2	
D014	8-719-200-02	DIODE 10E2	
D015	8-719-200-02	DIODE 10E2	
		<u>COIL</u>	
L003	1-407-212-XX	MICRO INDUCTOR 33MMH	
		<u>TRANSISTOR</u>	
Q001	8-729-178-54	TRANSISTOR 2SC2785	
Q002	8-729-373-92	TRANSISTOR 2SB739	
Q003	8-729-177-43	TRANSISTOR 2SD774	
Q004	8-729-373-92	TRANSISTOR 2SB739	
Q005	8-729-177-43	TRANSISTOR 2SD774	
Q006	8-729-178-54	TRANSISTOR 2SC2785	
Q007	8-729-178-54	TRANSISTOR 2SC2785	
Q008	8-729-178-54	TRANSISTOR 2SC2785	
Q010	8-729-635-52	TRANSISTOR 2SD355	
Q011	8-729-178-54	TRANSISTOR 2SC2785	
Q012	8-729-178-54	TRANSISTOR 2SC2785	
Q013	8-729-178-54	TRANSISTOR 2SC2785	
Q014	8-729-178-54	TRANSISTOR 2SC2785	
Q015	8-729-178-54	TRANSISTOR 2SC2785	
Q016	8-729-178-54	TRANSISTOR 2SC2785	
Q017	8-729-178-54	TRANSISTOR 2SC2785	
Q018	8-729-178-54	TRANSISTOR 2SC2785	
Q019	8-729-117-54	TRANSISTOR 2SA1175	
Q020	8-729-316-16	TRANSISTOR 2SC1061	
Q021	8-729-116-42	TRANSISTOR 2SD1164	
Q022	8-729-116-42	TRANSISTOR 2SD1164	
Q023	8-729-378-84	TRANSISTOR 2SD788	
Q024	8-729-178-54	TRANSISTOR 2SC2785	
Q025	8-729-116-42	TRANSISTOR 2SD1164	

NOTE:

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.

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

CAPACITORS  
\* MF : μF, PF : μμF

RESISTORS  
\* All resistors are in ohms  
\* F : nonflammable

COILS  
\* MMH : mH, UH : μH

**DR-1**

**DR-2**

**DR-3**

**DR-4**

**DR-5**

**DR-6**

Ref.No	Part No	Description	Remark
Q026	8-729-378-84	TRANSISTOR 2SD788	
Q027	8-729-116-42	TRANSISTOR 2SD1164	
Q028	8-729-378-84	TRANSISTOR 2SD788	
Q029	8-729-331-53	TRANSISTOR 2SC2315	
Q030	8-729-178-54	TRANSISTOR 2SC2785	
Q031	8-729-116-42	TRANSISTOR 2SD1164	
Q034	8-729-606-32	TRANSISTOR 2SC2603	
<u>RESISTOR</u>			
R001	1-246-473-00	CARBON 1K 5% 1/4W	
R002	1-246-515-00	CARBON 56K 5% 1/4W	
R003	1-246-491-00	CARBON 5.6K 5% 1/4W	
R004	1-246-473-00	CARBON 1K 5% 1/4W	
R005	1-246-491-00	CARBON 5.6K 5% 1/4W	
R006	1-246-473-00	CARBON 1K 5% 1/4W	
R007	1-246-473-00	CARBON 1K 5% 1/4W	
R008	1-246-449-00	CARBON 100 5% 1/4W	
R009	1-246-513-00	CARBON 47K 5% 1/4W	
R010	1-246-513-00	CARBON 47K 5% 1/4W	
R011	1-246-513-00	CARBON 47K 5% 1/4W	
R012	1-246-528-00	CARBON 200K 5% 1/4W	
R013	1-246-483-00	CARBON 2.7K 5% 1/4W	
R014	1-246-511-00	CARBON 39K 5% 1/4W	
R015	1-246-457-00	CARBON 220 5% 1/4W	
R016	1-246-517-00	CARBON 68K 5% 1/4W	
R017	1-246-521-00	CARBON 100K 5% 1/4W	
R018	1-246-483-00	CARBON 2.7K 5% 1/4W	
R019	1-246-491-00	CARBON 5.6K 5% 1/4W	
R020	1-246-473-00	CARBON 1K 5% 1/4W	
R021	1-246-494-00	CARBON 7.5K 5% 1/4W	
R022	1-246-509-00	CARBON 33K 5% 1/4W	
R023	1-246-505-00	CARBON 22K 5% 1/4W	
R024	1-246-443-00	CARBON 56 5% 1/4W	
R025	1-246-521-00	CARBON 100K 5% 1/4W	
R026	1-246-528-00	CARBON 200K 5% 1/4W	
R027	1-246-483-00	CARBON 2.7K 5% 1/4W	
R028	1-246-457-00	CARBON 220 5% 1/4W	
R029	1-246-511-00	CARBON 39K 5% 1/4W	
R030	1-246-517-00	CARBON 68K 5% 1/4W	
R031	1-246-521-00	CARBON 100K 5% 1/4W	
R032	1-246-483-00	CARBON 2.7K 5% 1/4W	
R033	1-246-491-00	CARBON 5.6K 5% 1/4W	
R034	1-246-473-00	CARBON 1K 5% 1/4W	
R035	1-246-494-00	CARBON 7.5K 5% 1/4W	
R036	1-246-509-00	CARBON 33K 5% 1/4W	
R037	1-246-505-00	CARBON 22K 5% 1/4W	
R038	1-246-443-00	CARBON 56 5% 1/4W	
R039	1-246-521-00	CARBON 100K 5% 1/4W	
R040	1-246-515-00	CARBON 56K 5% 1/4W	
R041	1-246-465-00	CARBON 470 5% 1/4W	
R042	1-246-513-00	CARBON 47K 5% 1/4W	
R043	1-246-465-00	CARBON 470 5% 1/4W	
R044	1-246-497-00	CARBON 10K 5% 1/4W	

Ref.No	Part No	Description	Remark
R045	▲1-212-360-00	METAL 1 5% 1W	F
R046	1-246-449-00	CARBON 100 5% 1/4W	
R047	1-246-497-00	CARBON 10K 5% 1/4W	
R048	1-246-497-00	CARBON 10K 5% 1/4W	
R049	1-246-516-00	CARBON 62K 5% 1/4W	
R050	1-246-497-00	CARBON 10K 5% 1/4W	
R051	1-246-481-00	CARBON 2.2K 5% 1/4W	
R052	1-246-497-00	CARBON 10K 5% 1/4W	
R053	1-246-497-00	CARBON 10K 5% 1/4W	
R054	1-246-497-00	CARBON 10K 5% 1/4W	
R055	1-246-473-00	CARBON 1K 5% 1/4W	
R060	▲1-246-981-00	CARBON 4.7 5% 1/8W	F
R061	▲1-212-360-00	METAL 1 5% 1W	F
R062	▲1-212-360-00	METAL 1 5% 1W	F
R065	▲1-246-989-11	CARBON 82 5% 1/8W	F
R066	1-246-497-00	CARBON 10K 5% 1/4W	
R067	1-246-981-00	CARBON 4.7 5% 1/8W	F
*****			
▲:1-605-695-00 DR-2 BOARD			
*****			
<u>SWITCH</u>			
S001	1-552-664-00	SWITCH, MICRO	
*****			
▲:1-605-696-00 DR-3 BOARD			
*****			
▲:3-671-128-00 BRACKET (L), SWITCH			
<u>SWITCH</u>			
S002	1-552-664-00	SWITCH, MICRO	
*****			
▲:1-605-697-13 DR-4 BOARD			
*****			
<u>SWITCH</u>			
S003	1-553-847-00	SWITCH, LEVER	
*****			
▲:1-605-698-00 DR-5 BOARD			
*****			
*****			
▲:1-605-699-00 DR-6 BOARD			
*****			

NOTE:

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.

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

CAPACITORS  
• MF : μF, PF : μμF

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH : μH

<b>DR-7</b>	<b>DR-8</b>	<b>DR-9</b>	<b>DR-10</b>	<b>FG-2</b>	<b>FL-2</b>
			<b>CP-6</b>	<b>TP-12</b>	

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
▲	1-605-700-00	DR-7 BOARD *****		▲	1-606-102-00	CP-6 BOARD *****	
*****							
▲	1-605-701-00	DR-8 BOARD *****		<u>CAPACITOR</u>			
		<u>COIL</u>		C101	1-123-380-00	ELECT 1MF	20% 50V
L001	1-543-145-00	HEAD, SENSING		<u>CONNECTOR</u>			
*****							
▲	1-605-702-00	DR-9 BOARD *****		CN101▲	1-508-847-00	PIN, CONNECTOR 4P	
		<u>COIL</u>		CN102▲	1-508-734-00	PIN, CONNECTOR 3P	
L002	1-543-145-00	HEAD, SENSING		<u>TRANSISTOR</u>			
*****							
▲	1-605-703-00	DR-10 BOARD *****		Q101	8-729-178-54	TRANSISTOR 2SC2785	
		<u>TRANSISTOR</u>		Q102	8-729-178-54	TRANSISTOR 2SC2785	
Q009	8-729-316-16	TRANSISTOR 2SC1061		Q103	8-729-178-54	TRANSISTOR 2SC2785	
*****							
▲	1-605-708-00	FG-2 BOARD *****		Q104	8-729-178-54	TRANSISTOR 2SC2785	
	3-658-161-00	HOLDER, DME		<u>RESISTOR</u>			
▲	3-659-313-00	PLATE, ADJUSTMENT, DME		R101	1-246-515-00	CARBON 56K 5%	1/4W
		<u>SEMICONDUCTOR</u>		R102	1-246-505-00	CARBON 22K 5%	1/4W
DM701	8-745-101-01	DM-101A		R103	1-246-505-00	CARBON 22K 5%	1/4W
*****							
▲	A-6728-315-A	FL-2 BOARD, COMPLETE *****		R104	1-246-452-00	CARBON 130 5%	1/4W
		<u>CAPACITOR</u>		R105	1-246-484-00	CARBON 3K 5%	1/4W
C001	1-161-076-00	CERAMIC 0.1MF	20% 50V	R106	1-246-472-00	CARBON 910 5%	1/4W
C002	1-161-076-00	CERAMIC 0.1MF	20% 50V	R107	1-246-491-00	CARBON 5.6K 5%	1/4W
		<u>COIL</u>		R108	1-246-515-00	CARBON 56K 5%	1/4W
L001	1-421-225-00	COIL, LINE FILTER		R109	1-246-449-00	CARBON 100 5%	1/4W
*****							
				▲	A-6728-409-A	TP-12 BOARD, COMPLETE *****	
					1-533-162-00	HOLDER, FUSE	
				▲	3-674-134-00	HEAT SINK	
				<u>CAPACITOR</u>			
				C001	1-123-403-00	ELECT 4700MF	25V
				C002	1-123-404-00	ELECT 10000MF	25V
				C006	1-123-332-00	ELECT 47MF	20% 16V
				C007	1-123-253-00	ELECT 22MF	160V
				C009	1-123-332-00	ELECT 47MF	20% 16V
				C010	1-123-335-00	ELECT 330NF	20% 25V
				C011	1-123-333-00	ELECT 100MF	20% 25V
				C020	1-123-328-00	ELECT 4.7MF	20% 25V
				C021	1-161-051-00	CERAMIC 0.01MF	30% 25V
				C201	1-123-324-00	ELECT 1000MF	20% 16V
				C270	1-123-356-00	ELECT 10MF	20% 16V
				C280	1-123-304-00	ELECT 10000MF	20% 6.3V
				C291	1-123-607-00	ELECT 0.1MF	20% 50V
				C292	1-123-607-00	ELECT 0.1MF	20% 50V
				C801	1-123-330-00	ELECT 22MF	20% 16V
				C802	1-108-389-00	MYLAR 0.1MF	10% 100V
				C803	1-123-356-00	ELECT 10MF	20% 16V
				C804	1-108-377-00	MYLAR 0.01MF	10% 100V

**NOTE:**

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

**RESISTORS**  
• All resistors are in ohms  
• F : nonflammable

**COILS**  
• MMH : mH, UH :  $\mu$ H

# TP-12

# TP-13

Ref.No	Part No	Description	Remark
C805	1-123-356-00	ELECT 10MF	20% 16V
C806	1-123-318-00	ELECT 33MF	20% 16V
C807	1-161-051-00	CERAMIC 0.01MF	10% 50V
<u>CONNECTOR</u>			
CN001	1-508-744-00	PIN, CONNECTOR 10P	
CN002	1-560-136-00	PLUG, CONNECTOR 4P	
CN003	1-508-845-00	PIN, CONNECTOR 6P	
<u>JACK</u>			
CNJ801	1-526-575-00	SOCKET, PLUG	
<u>DIODE</u>			
D003	=>8-719-900-95	DIODE V09G	
D007	=>8-719-911-19	DIODE 1SS119	
D008	8-719-100-61	DIODE RD11ER2	
D009	=>8-719-911-19	DIODE 1SS119	
D201	=>8-719-200-02	DIODE 10E2	
D251	8-719-100-67	DIODE RD13EP1	
D252	=>8-719-911-19	DIODE 1SS119	
D280	=>8-719-911-19	DIODE 1SS119	
D281	=>8-719-911-19	DIODE 1SS119	
D301	▲ 8-719-200-07	DIODE 30D2FA	
D302	▲ 8-719-200-07	DIODE 30D2FA	
D303	▲ 8-719-200-07	DIODE 30D2FA	
D304	▲ 8-719-200-07	DIODE 30D2FA	
D305	▲ 8-719-200-07	DIODE 30D2FA	
D306	▲ 8-719-200-07	DIODE 30D2FA	
D307	▲ 8-719-200-07	DIODE 30D2FA	
D308	▲ 8-719-200-07	DIODE 30D2FA	
<u>FUSE</u>			
F001	▲ 1-532-237-00	FUSE, TIME-LA G; T3.15A	
F002	▲ 1-532-350-00	FUSE, TIME-LA G; T4A	
<u>TRANSISTOR</u>			
Q002	=>8-729-178-54	TRANSISTOR 2SC2785	
Q009	=>8-729-178-54	TRANSISTOR 2SC2785	
Q010	=>8-729-178-54	TRANSISTOR 2SC2785	
Q011	=>8-729-178-54	TRANSISTOR 2SC2785	
Q253	=>8-729-178-54	TRANSISTOR 2SC2785	
Q254	8-729-117-54	TRANSISTOR 2SA1175	
Q255	8-729-316-16	TRANSISTOR 2SC1061	
<u>RESISTOR</u>			
R004	1-246-521-00	CARBON 100K 5%	1/4W
R005	1-246-505-00	CARBON 22K 5%	1/4W
R006	1-246-497-00	CARBON 10K 5%	1/4W
R015	▲ 1-212-857-00	FUSIBLE 10 5%	1/4W F
R016	▲ 1-212-857-00	FUSIBLE 10 5%	1/4W F
R017	▲ 1-212-857-00	FUSIBLE 10 5%	1/4W F
R020	1-246-473-00	CARBON 1K 5%	1/4W

**NOTE:**

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

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

**RESISTORS**  
 • All resistors are in ohms  
 • F : nonflammable

**COILS**  
 • MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark
R023	1-246-509-00	CARBON 33K 5%	1/4W
R025	1-246-485-00	CARBON 3.3K 5%	1/4W
R026	1-246-507-00	CARBON 27K 5%	1/4W
R027	1-246-521-00	CARBON 100K 5%	1/4W
R028	1-246-497-00	CARBON 10K 5%	1/4W
R206	1-246-469-00	CARBON 680 5%	1/4W
R209	1-246-497-00	CARBON 10K 5%	1/4W
R210	1-246-505-00	CARBON 22K 5%	1/4W
R211	1-246-505-00	CARBON 22K 5%	1/4W
R212	1-246-505-00	CARBON 22K 5%	1/4W
R252	1-246-505-00	CARBON 22K 5%	1/4W
R253	1-246-505-00	CARBON 22K 5%	1/4W
R255	1-246-509-00	CARBON 33K 5%	1/4W
R256	1-246-513-00	CARBON 47K 5%	1/4W
R257	1-246-513-00	CARBON 47K 5%	1/4W
R258	1-246-515-00	CARBON 56K 5%	1/4W
R259	1-246-517-00	CARBON 68K 5%	1/4W
R260	1-246-516-00	CARBON 62K 5%	1/4W
R270	1-246-470-00	CARBON 750 5%	1/4W
R271	1-246-497-00	CARBON 10K 5%	1/4W
R286	1-246-521-00	CARBON 100K 5%	1/4W
R801	1-246-509-00	CARBON 33K 5%	1/4W
<u>TUNER</u>			
TU801	▲ 1-463-350-00	TUNER (BT-881)	
*****			
▲: 1-606-944-00 TP-13 BOARD			
*****			
<u>CAPACITOR</u>			
C204	1-161-051-00	CERAMIC 0.01MF	30% 25V
C271	1-161-051-00	CERAMIC 0.01MF	30% 25V
C272	1-161-051-00	CERAMIC 0.01MF	30% 25V
C273	1-161-051-00	CERAMIC 0.01MF	30% 25V
C281	1-123-617-00	ELECT 10MF	20% 16V
C282	1-123-617-00	ELECT 10MF	20% 16V
C283	1-161-051-00	CERAMIC 0.01MF	30% 25V
C284	1-123-647-00	ELECT 47MF	20% 6.3V
C285	1-161-051-00	CERAMIC 0.01MF	30% 25V
<u>COMPOSITION CIRCUIT BLOCK</u>			
CP001	1-232-241-00	COMPOSITION CIRCUIT BLOCK	
CP002	1-232-240-00	COMPOSITION CIRCUIT BLOCK	
CP003	1-232-243-00	COMPOSITION CIRCUIT BLOCK	
<u>DIODE</u>			
D203	=>8-719-911-19	DIODE 1SS119	
D204	=>8-719-911-19	DIODE 1SS119	
D271	8-719-101-60	DIODE RD6.2EL1	
D282	=>8-719-911-19	DIODE 1SS119	
D283	8-719-101-40	DIODE RD3.9EL1	

**TP-13****TP-14****TP-16****LF-22****FS-11**

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
<u>INDICATOR TUBE</u>							
FL301	1-519-253-00	INDICATOR TUBE, FLUORESCENT		♣:1-606-945-00	TP-14 BOARD	*****	
<u>IC</u>							
IC301	8-759-200-10	IC TCP4621AF6		♣:3-671-208-00	HOLDER, SWITCH, POWER		
<u>COIL</u>				<u>DIODE</u>			
L251	1-407-717-00	MICRO INDUCTOR 1MMH		D501	8-719-812-33	DIODE TLG123	
<u>TRANSISTOR</u>				D502	8-719-812-31	DIODE TLR123	
Q251 =>	8-729-178-54	TRANSISTOR 2SC2785		<u>RESISTOR</u>			
Q252 =>	8-729-178-54	TRANSISTOR 2SC2785		R501	1-246-477-00	CARBON 1.5K 5% 1/4W	
Q257	8-729-117-54	TRANSISTOR 2SA1175		<u>SWITCH</u>			
<u>RESISTOR</u>				S501	1-553-846-00	SWITCH, PUSH (2 KEY)	
R203	1-246-521-00	CARBON 100K 5% 1/4W		*****			
R205	1-246-521-00	CARBON 100K 5% 1/4W		♣:1-606-946-00	TP-16 BOARD	*****	
R272	1-246-453-00	CARBON 150 5% 1/4W		1-533-162-00	HOLDER, FUSE		
R273	1-246-513-00	CARBON 47K 5% 1/4W		<u>IC</u>			
R274	1-246-513-00	CARBON 47K 5% 1/4W		IC001A	8-759-853-14	IC STK5314	
R275	1-246-513-00	CARBON 47K 5% 1/4W		*****			
R276	1-246-513-00	CARBON 47K 5% 1/4W		♣:1-606-949-00	LF-22 BOARD	*****	
R278	1-246-497-00	CARBON 10K 5% 1/4W		<u>CAPACITOR</u>			
R282	1-246-494-00	CARBON 7.5K 5% 1/4W		C101	♣:1-130-710-00	FILM 0.1MF 20% 250V	
R283	1-246-494-00	CARBON 7.5K 5% 1/4W		<u>FUSE</u>			
R284	1-246-489-00	CARBON 4.7K 5% 1/4W		F101	♣:1-532-237-00	FUSE, TIME-LAG; T3.15A	
R285	1-246-521-00	CARBON 100K 5% 1/4W		*****			
R287	1-246-521-00	CARBON 100K 5% 1/4W		♣:1-605-687-00	FS-11 BOARD	*****	
R288	1-246-521-00	CARBON 100K 5% 1/4W		♣:3-661-516-00	HOLDER, LED		
R290	1-246-521-00	CARBON 100K 5% 1/4W		<u>DIODE</u>			
R297	1-246-497-00	CARBON 10K 5% 1/4W		D001	8-719-812-33	DIODE TLG123	
<u>SWITCH</u>				D002	8-719-812-32	DIODE TLY123	
S401	1-552-774-00	SWITCH, PUSH		<u>SWITCH</u>			
S402	1-552-774-00	SWITCH, PUSH		S001	1-553-766-00	SWITCH, KEY BOARD	
S403	1-552-774-00	SWITCH, PUSH		S002	1-553-766-00	SWITCH, KEY BOARD	
S404	1-552-774-00	SWITCH, PUSH		S003	1-553-766-00	SWITCH, KEY BOARD	
S405	1-552-774-00	SWITCH, PUSH		S004	1-553-766-00	SWITCH, KEY BOARD	
S406	1-552-774-00	SWITCH, PUSH		S005	1-553-766-00	SWITCH, KEY BOARD	
S407	1-552-774-00	SWITCH, PUSH					
<u>TRANSFORMER</u>							
T251	1-404-394-00	TRANSFORMER, IFT					
<u>POST PIN</u>							
TP001	1-536-354-00	POST PIN					
TP002	1-536-354-00	POST PIN					

**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 "♣" 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 :  $\mu$ F, PF :  $\mu$  $\mu$ F

**RESISTORS**  
• All resistors are in ohms  
• F : nonflammable

**COILS**  
• MMH : mH, UH :  $\mu$ H

# FS-12

Ref.No	Part No	Description	Remark
	♣:1-605-688-00	FS-12 BOARD *****	
	♣:3-661-516-00	HOLDER, LED  DIODE	
D001	8-719-812-31	DIODE TLR123  SWITCH	
S001	1-553-766-00	SWITCH, KEY BOARD	

\*\*\*\*\*  
MISCELLANEOUS  
\*\*\*\*\*

T901	♣.1-447-251-00	TRANSFORMER, PWOER
	♣.1-454-292-11	SOLENOID, PLUNGER (BS)
	♣.1-454-293-11	SOLENOID, PLUNGER (FE)
	♣.1-454-294-11	SOLENOID, PLUNGER (FF)
	♣.1-454-295-00	SOLENOID, PLUNGER (PINCH)
	♣.1-464-189-00	MODULATOR, RF (RBM-210-E)
	♣.1-534-817-XX	CORD, POWER
S902	♣.1-554-038-00	SWITCH, POWER VOLTAGE CHANGE
S901	♣.1-554-055-00	SWITCH, SEESAW (AC POWER)
	1-932-956-00	JACK (CP-3)
	1-933-276-00	JACK (RJ-2)
S7401	1-552-664-00	SWITCH, MICRO

\*\*\*\*\*  
ACCESSORIES AND PACKING MATERIALS  
\*\*\*\*\*

Part.No	Description	Remark
1-551-513-00	CABLE, COAXIAL ASSY	
3-660-986-00	SHEET, PROTECTION	
3-662-364-00	BAG, PROTECTION	
3-670-804-00	CUSHION (REAR LOWER)	
3-670-805-00	CUSHION (FRONT LOWER)	
3-670-806-00	CUSHION (RIGHT UPPER)	
3-670-807-00	CUSHION (LEFT UPPER)	
3-674-153-00	INDIVIDUAL CARTON	
3-674-155-00	SPACER	
3-701-007-00	BAND, BINDING	
3-701-630-00	BAG, POLYETHYLENE	
3-783-887-11	MANUAL, INSTRUCTION	
3-783-887-41	MANUAL, INSTRUCTION	

NOTE:

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.

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

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

RESISTORS  
\* All resistors are in ohms  
\* F : nonflammable

COILS  
\* MMH : mH, UH :  $\mu$ H



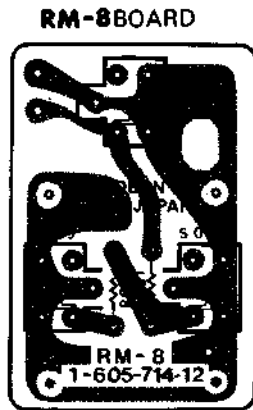
# REMOTE CONTROL UNIT



**RM-8 (REMOTE CONTROL) MOUNTING DIAGRAM**

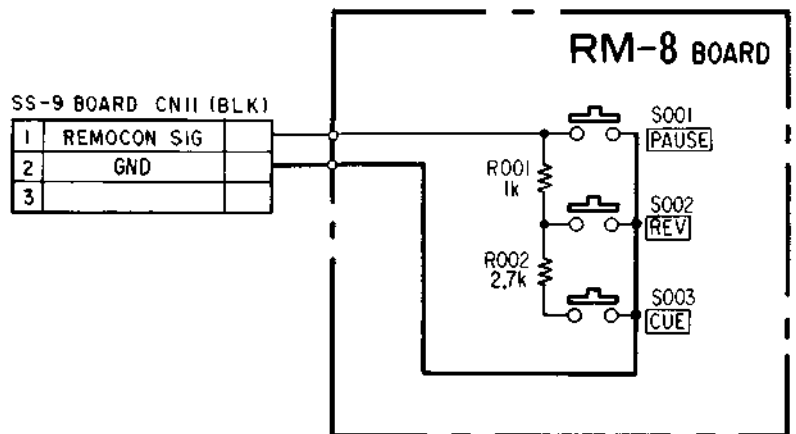
— Conductor Side —

— Ref. No. RM-8 BOARD : 9000 series —



**RM-8 (REMOTE CONTROL) BOARD SCHEMATIC DIAGRAM**

— Ref. No. RM-8 BOARD : 9000 series —




**RM-8 (REMOTE CONTROL) ELECTRICAL PARTS LIST**

— Ref. No. RM-8 BOARD : 9000 series —

<u>Ref.No</u>	<u>Part No</u>	<u>Description</u>	<u>Remark</u>
	▲1-605-714-00	RM-8 BOARD *****	
<u>RESISTOR</u>			
R001	1-246-473-00	CARBON	1K 5% 1/4W
R002	1-246-483-00	CARBON	2.7K 5% 1/4W
<u>SWITCH</u>			
S001	1-553-766-00	SWITCH, KEY BOARD	
S002	1-553-766-00	SWITCH, KEY BOARD	
S003	1-553-766-00	SWITCH, KEY BOARD	

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

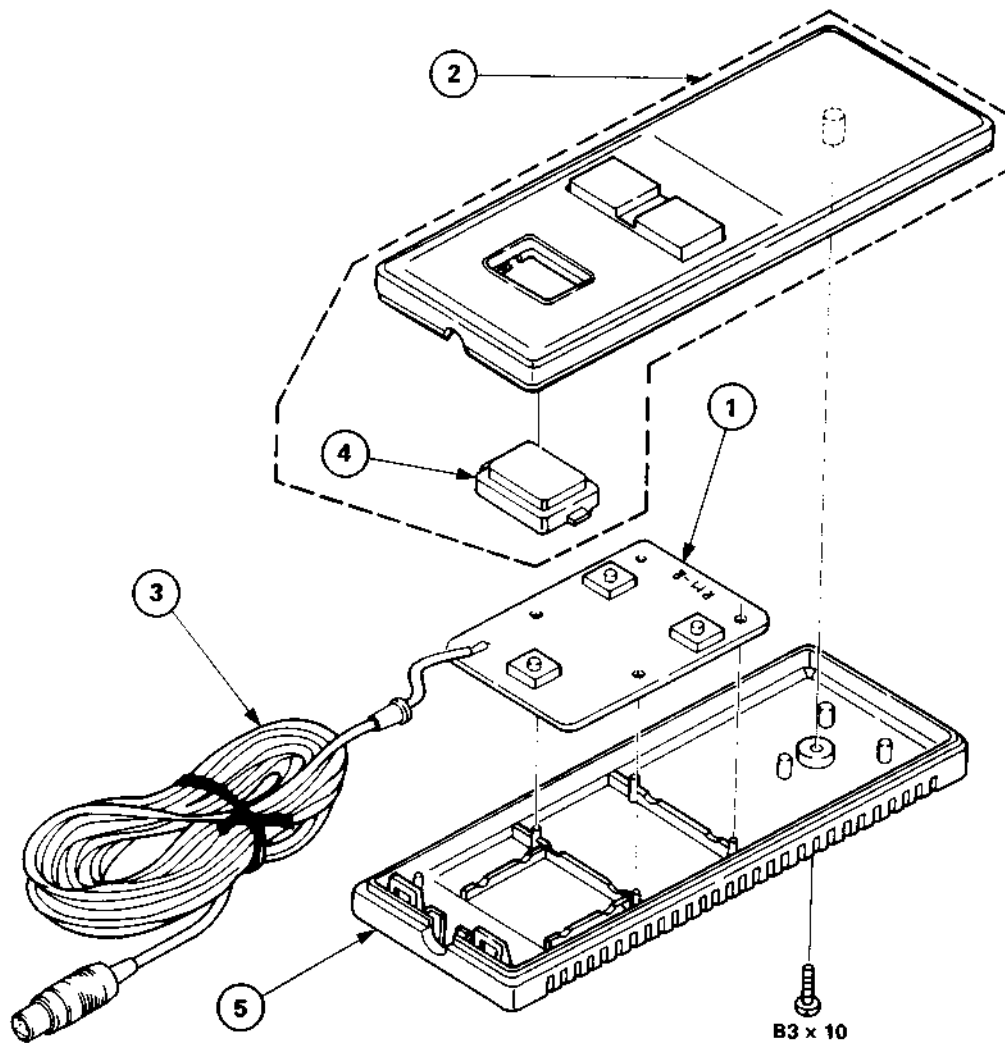
When indicating parts by reference number, please include the board name.

- All resistors are in ohms, 1/4 W unless otherwise noted. kΩ = 1000Ω; MΩ = 1000kΩ
- All capacitors are in μF unless otherwise noted. p : μμF 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.
- All voltages are dc measured with a VOM (20kΩ/V).

A                      B                      C                      D

# REMOTE CONTROL UNIT

1  
2  
3  
4



No.	Part No	Description	Remark
1	1-605-714-00	PC BOARD RM-8	
2	X-3674-103-0	CASE (UPPER) ASSY (PAL)	4
3	1-556-246-00	CORD (WITH PLUG)	
4	3-671-136-00	KEY TOP, PAUSE	
5	3-671-212-31	CASE (LOWER)	

**NOTE:**

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

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

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

**Sony Corporation**  
**TV and Consumer Video Group**

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