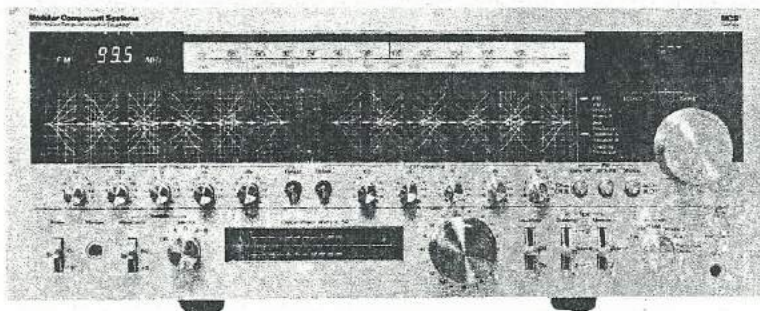


AM/FM-MPX STEREO RECEIVER

Model No. 3125

Catalog No. 853-2301

Product Service No. 683-3125-00



Form No. CM-174

Form No. CM-174

Specifications

Amplifier Section

Output Power:	140 W at 4 ohm
Both channels driven	125 W at 8 ohm
20 – 20 kHz 0.05 % THD	70 W at 16 ohm
Frequency Response:	
Phono	30 Hz – 20 kHz
AUX, Tape 1 and 2	-2 dB 5 Hz – 60 kHz
Signal to Noise Ratio:	
Phono	78 dB
AUX Tape 1 and 2	100 dB
Input Sensitivity:	
Phono	2.5 mV
AUX, Tape 1 and 2	150 mV
Mic	4 mV
Phono Input Capability for 0.05 % THD:	200 mV
Tone Control Response:	
Bass (60 Hz/240 Hz)	±15 dB
Presence (1 kHz)	±15 dB at 1 kHz
Treble (4 kHz/16 kHz)	±15 dB
Loudness:	+6 dB at 100 Hz +3 dB at 10 kHz

FM Section

Frequency Range:	88 – 108 MHz
Usable Sensitivity:	1.7 μ V
Capture Ratio:	1.0 dB
Selectivity:	80 dB
Image Rejection:	85 dB
IF Rejection:	100 dB
Stereo Separation at 1 kHz:	50 dB
THD:	
Mono	0.1 %
Stereo	0.2 %

AM Section

Frequency Range:	525 – 1605 kHz
Usable Sensitivity for 20 dB S/N:	300 μ V/m
Image Rejection:	50 dB
IF Rejection:	35 dB

Front

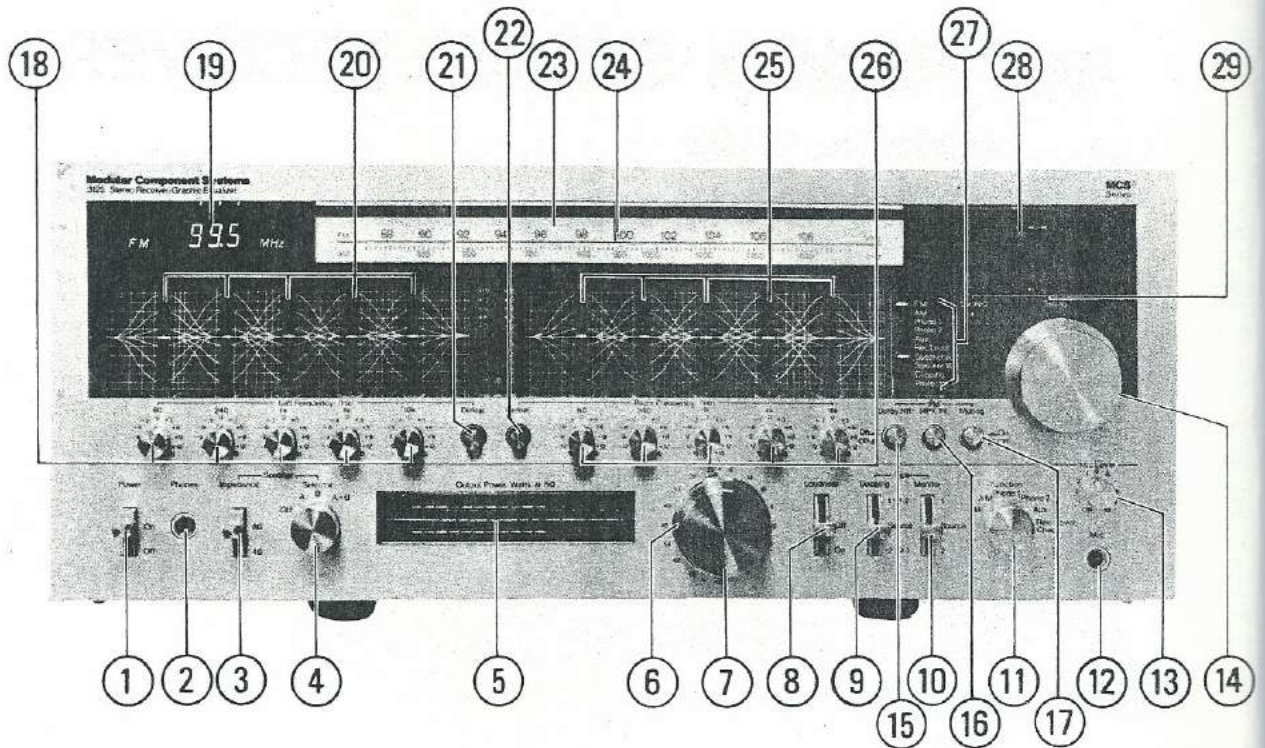


Figure 1.

- | | |
|------------------------------|---|
| ① Power Switch | ⑩ Tape Monitor Switch |
| ② Headphone Jack | ⑪ Function Selector Switch |
| ③ Impedance Selector Switch | ⑫ Mic. Input Jack |
| ④ Speaker Selector Switch | ⑬ Mic. Mixing Volume |
| ⑤ LED Peak Power Meter | ⑭ Tuning Knob |
| ⑥ Attenuator (Master Volume) | ⑮ FM Dolby NR Adapter Switch |
| ⑦ Balance Control | ⑯ MPX. Filter Switch |
| ⑧ Loudness Switch | ⑰ FM Muting Switch |
| ⑨ Tape Dubbing Switch | ⑱ Lch. Tone Control Volume (5 position) |
| | ⑲ FM Frequency Display |
| | ⑳ Tone Response Display (Lch.) |
| | ㉑ Lch. Tone Defeat Switch |
| | ㉒ Rch. Tone Defeat Switch |
| | ㉓ Dial Scale |
| | ㉔ Dial Pointer |
| | ㉕ Tone Response Display (Rch.) |
| | ㉖ Rch. Tone Control Volume (5 position) |
| | ㉗ Function Indicator |
| | ㉘ FM/AM Tuning-Signal Meter |
| | ㉙ Tuning Lock Indicator |

Rear

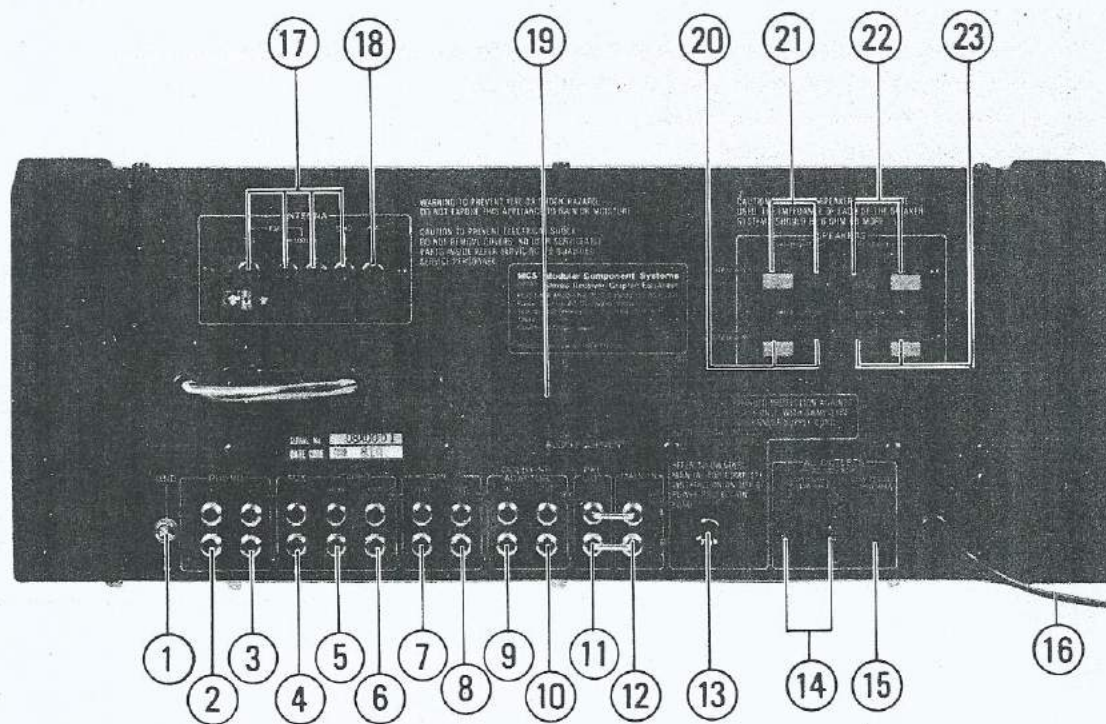


Figure 2.

- | | |
|--------------------------------|---|
| ① Ground Terminal | ⑬ Primary Fuse Holder |
| ② Phono 1 Input Jack | ⑭ ac Outlet (Switched) |
| ③ Phono 2 Input Jack | ⑮ ac Outlet (Unswitched) |
| ④ AUX Input Jack | ⑯ Power Supply Cord |
| ⑤ Tape 1 Play Jack | ⑰ FM Antenna Terminals (300 and 75 ohm) |
| ⑥ Tape 1 Recording Output Jack | ⑱ AM Antenna Terminal |
| ⑦ Tape 2 Play Jack | ⑲ AM Bar Antenna |
| ⑧ Tape 2 Recording Output Jack | ⑳ Speaker Terminal (B-Right) |
| ⑨ Dolby NR Adaptor Input Jack | ㉑ Speaker Terminal (A-Right) |
| ⑩ Dolby NR Adaptor Output Jack | ㉒ Speaker Terminal (A-Left) |
| ⑪ Pre-Amp. Output Jack | ㉓ Speaker Terminal (B-Left) |
| ⑫ Main Amp. Input Jack | |

Caution

- Avoid installing the unit in:
 - Places exposed to direct sunlight or close to heat-radiating appliances such as electric heaters.
 - On top of other stereo equipment that radiates much heat.
 - Places lacking ventilation, or dusty places.
 - Places subject to constant vibration.
 - Places close to electric transformers.
 - Humid or moist places.
- As this is a high-output amplifier, take care not to obstruct the ventilating openings on the top and bottom panels.
- No sound will be heard from your speaker systems for a few seconds after you turn on the amplifier's POWER switch. This is because the built-in muting circuit is at work, and not because the amplifier is faulty.
- Before turning the POWER switch on for the first time, make certain that all connecting cords and the power cable are properly plugged in. Speaker wires must not be shorted.
- Use soft, dry cloth to wipe the cabinet. Never use thinner or similar solvents to clean the cabinet, and avoid sprays containing thinner.

Disassembly Instructions

1. To Remove Cabinet (Figure 3)

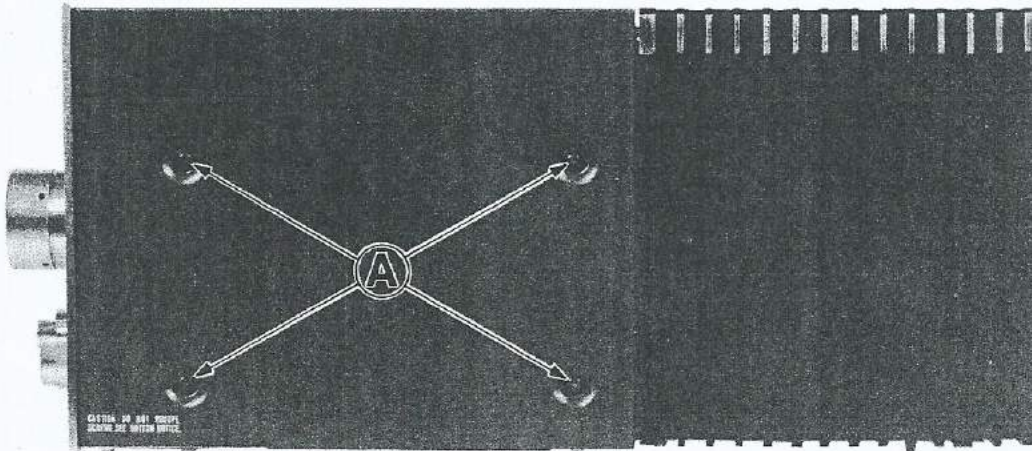


Figure 3.

Remove 8 screws (A) from both sides of cabinet.

Figure 3

2. To Remove Top Cover Plate (Figure 4)
Remove 7 screws (B) from bottom chassis.

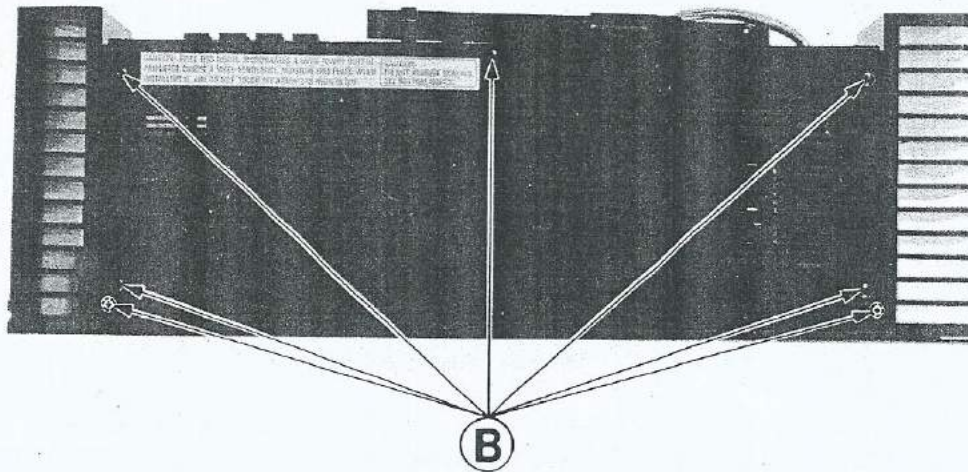
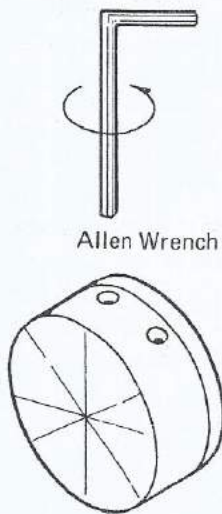


Figure 4.

3. To Remove Bottom Cover Plate (Figure 5)
Remove 16 screws (C) from bottom chassis.

4. To Remove Tuning, Attenuator and Balance Knob.



Allen Wrench

Turn 2 screws
counterclockwise.

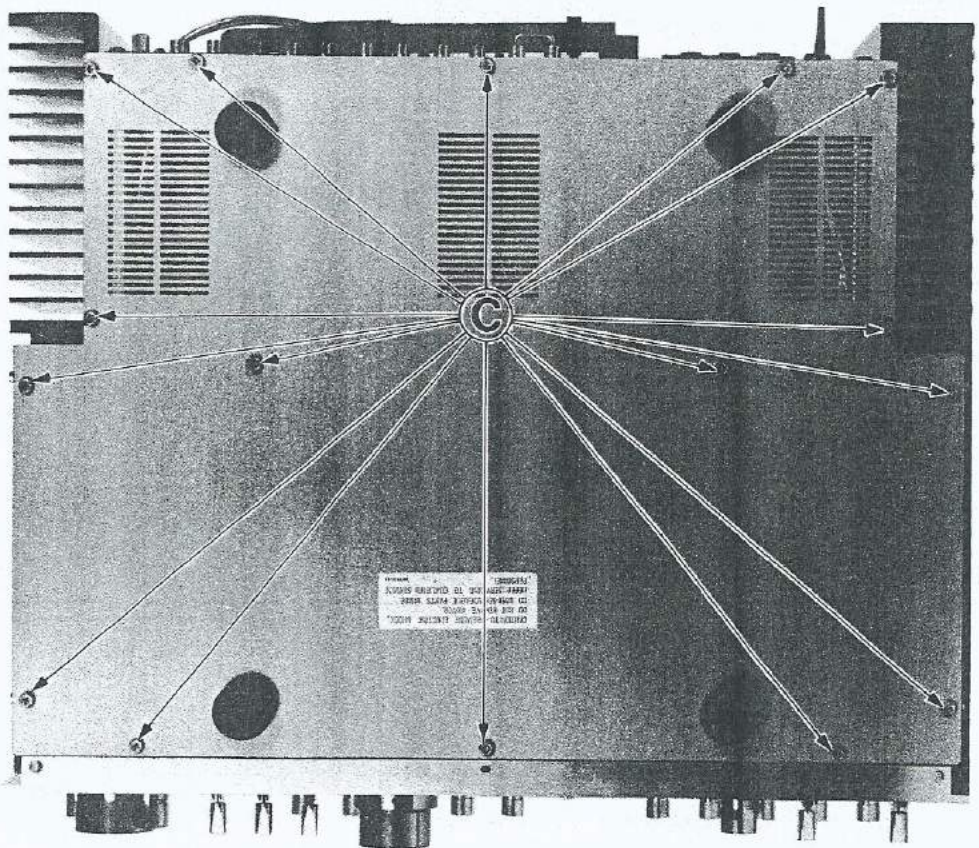


Figure 5.

5. To Remove Front Panel (Figure 6)

Remove 4 screws (D) from Chassis.

Note: Before removing front panel be sure to take off 21 knobs: (Tuning, Attenuator, Balance, Function, Left and Right Frequency, Tape Monitor, Tape Dubbing, Loudness, Impedance, Speaker, Mic Level, Power).

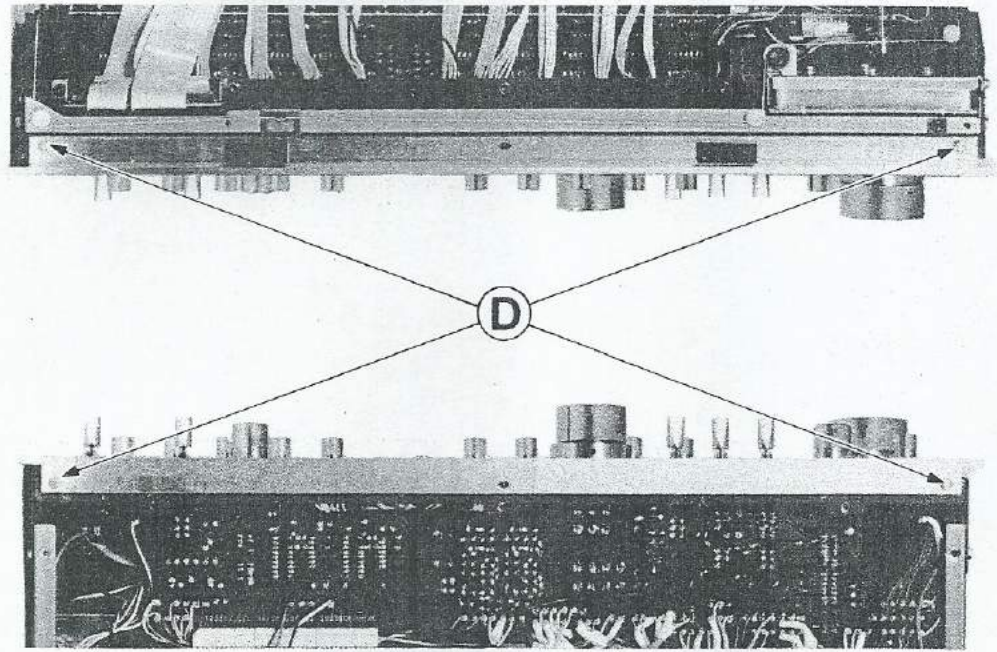
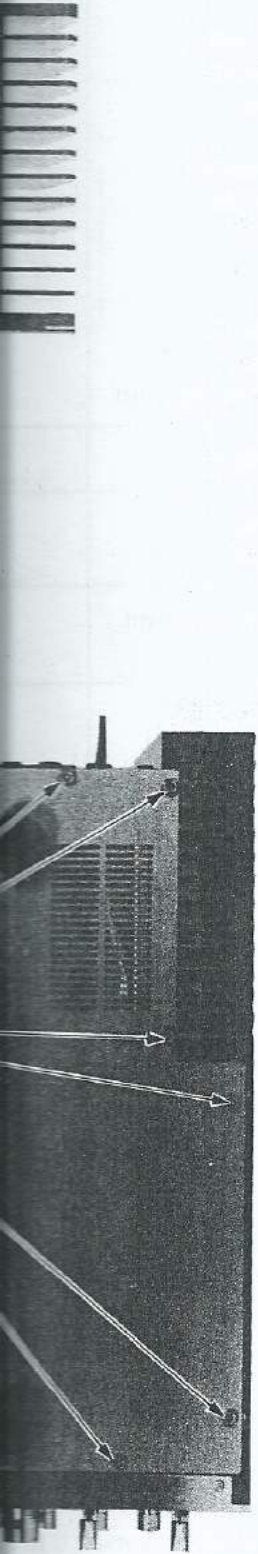
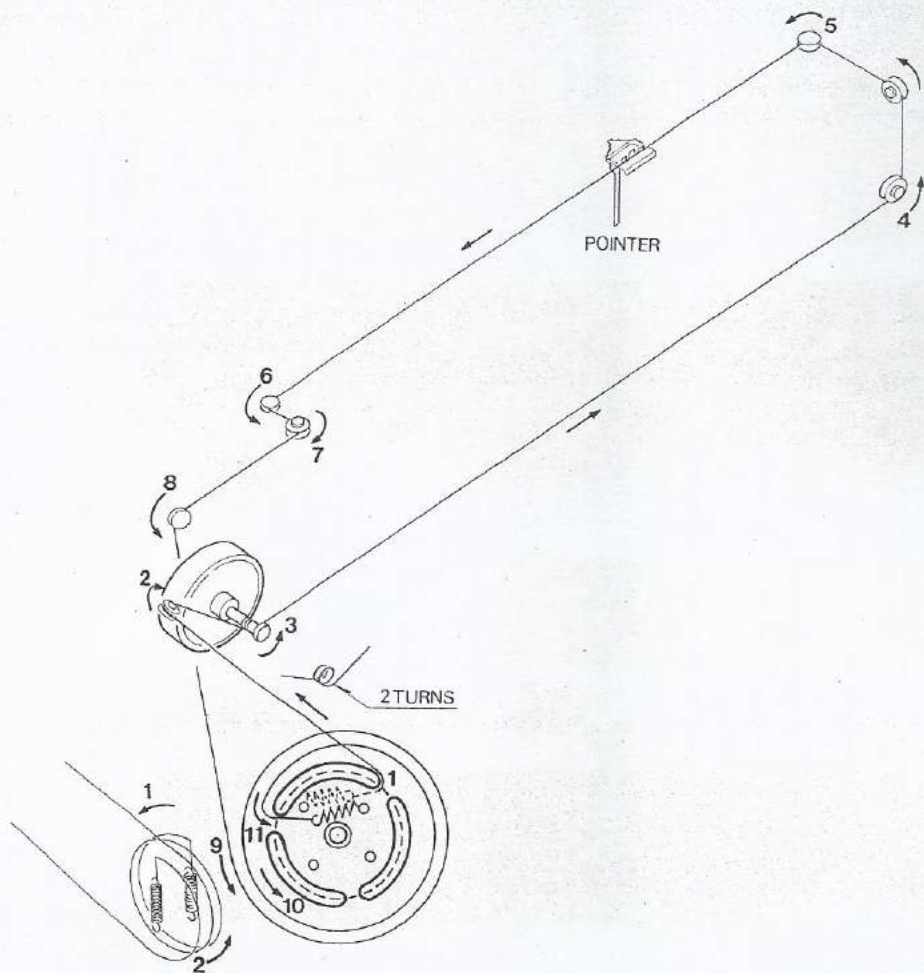


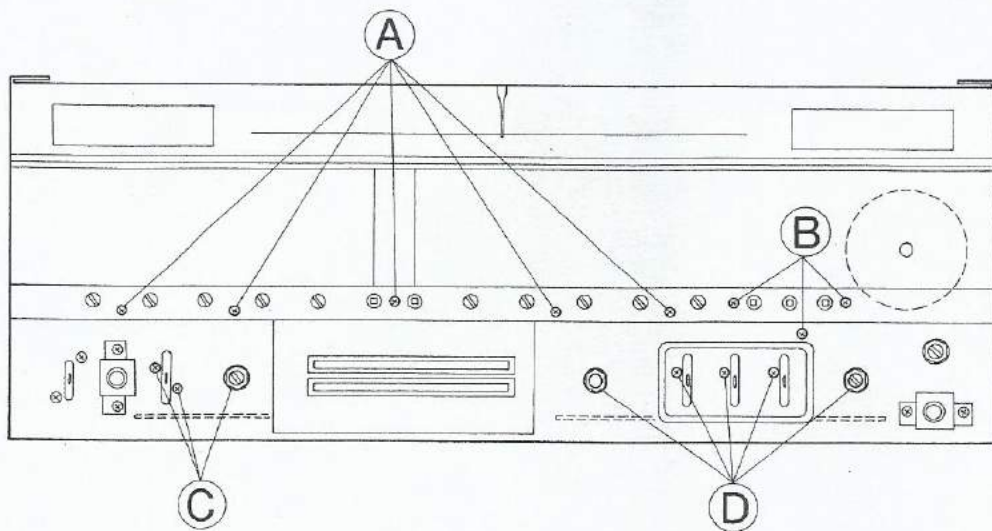
Figure 6.



Dial Stringing



How to remove off Tone Control, Function Selector and Filter P.C. Board



- A To remove Tone Control P.C. Board unit remove 5 screws.
- B To remove Switch P.C. Board unit remove 3 screws.
- C To remove Power Meter Driver P.C. Board unit remove 2 screws and 1 hex-head nut.
- D To remove Function P.C. Board unit remove 3 screws and 2 hex-head nuts.

P.C. Board	Rem (R) Expl
Main Amplifier (L Channel) P.C. Board	a) b) c) d)
Main Amplifier (R Channel) P.C. Board	a) b) c) d)
Power Supply P.C. Board (Main Rectiting Unit)	
IF P.C. Board	
Mic & Osc. P.C. Board	
Equalizer P.C. Board	
LED P.C. Board (L Channel)	
LED P.C. Board (R channel)	
FM Read Out P.C. Board	
FM Servo Lock P.C. Board	(P)
Power Supply P.C. Board (Regulator unit)	(P)

The screw numbers and P.C.B.

How to remove off other PWB Units

P.C. Board	Remove screws (Ref. No. on Exploded View)	Quanty	Position of screws	Remarks
Main Amplifier (L Channel) P.C. Board	a) 212	3	Left back side of chassis	} Removing Main Amp. } Unit from chassis } Removing Main Amp. } P.C. Board from heat sink
	b) 210	2	Left side of rear panel	
	c) 221	4	Securing PCB to brackets	
	d) 205	1	Securing Varistor diode to heat sink	
Main Amplifier (R Channel) P.C. Board	a) 212	3	Right back side of chassis	} Removing Main Amp. } Unit from chassis } Removing Main Amp. } P.C. Board from heat sink
	b) 210	2	Right side of rear panel	
	c) 221	4	Securing P.C.B to brakets	
	d) 205	1	Securing Varister diode to heat sink	
Power Supply P.C. Board (Main Rectiting Unit)	212	4	Opposite side of chassis	
IF P.C. Board	214	6	Center of chassis	
Mic & Osc. P.C. Board	212	1	Right front side of Opposite side of chassis	
Equalizer P.C. Board	212	1	Right front side of opposite side of chassis	
LED P.C. Board (L Channel)	214	2	Front chassis	Remove LED display board (L) from PWB assembly by raising up the bend of display board.
LED P.C. Board (R channel)	214	3	Front chassis	Remove LED display board (R) from PWB assembly rasing up the bend of display board.
FM Read Out P.C. Board	214	2	Left of chassis	
FM Servo Lock P.C. Board	61 (PWB holder)	2	Right front of chassis	Take off the hooks of the P.C.B holder
Power Supply P.C. Board (Regulator unit)	61 (PWB holder)	2	Left—front of the opposite side of chassis	Take off the hooks of the P.C. B holder

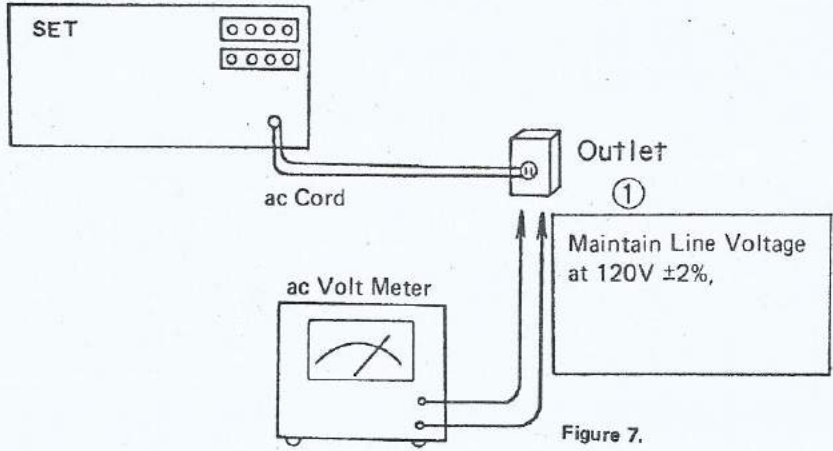
The screw numbers and P.C.B. holders numbers which are required to remove, are distinguished in the exploded view as a mark of 214

Alignment Instructions

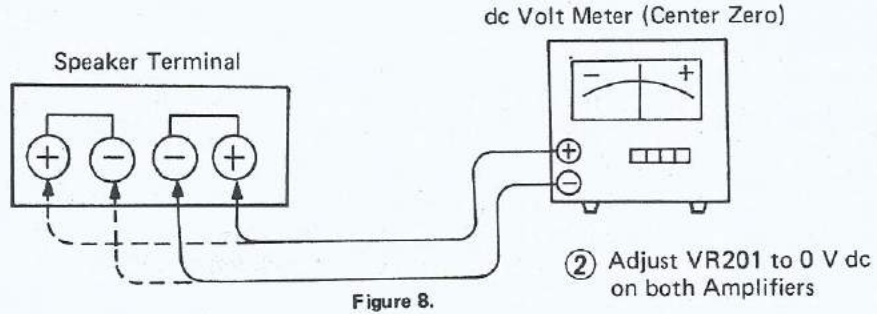
dc Balance and Idling Current Adjustment (Figures 7, 8 and 9)

Before making adjustments, set front controls as follows.

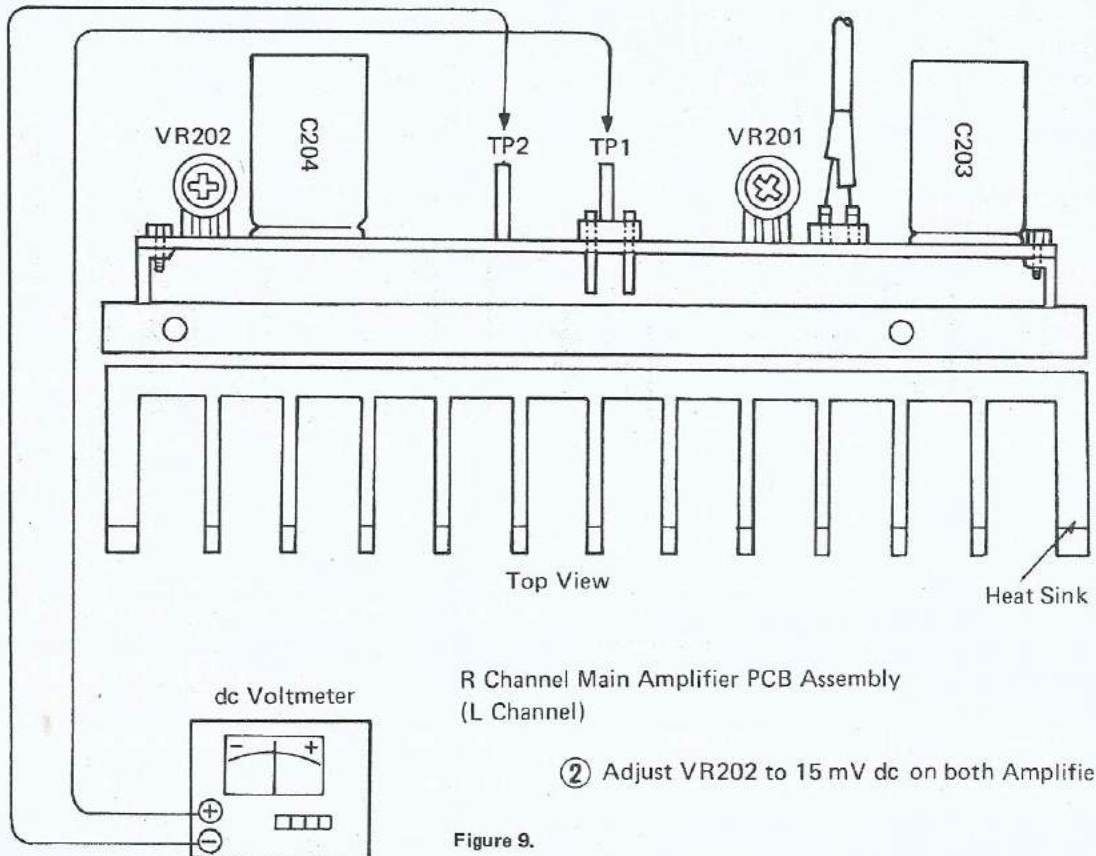
Function Switch: "AUX"
 Attenuator Control: Min. position
 Mic Volume: OFF position



dc Balance Adjustment



Idling Current Adjustment



Power Meter Alignment (Figure 10.)

1. Set the output level across 8 ohm dummy load to 31.6V (125W). Adjust VR501 to indicate 0 dB on left channel LED Power Meter.
2. Repeat above step while adjusting VR502 to indicate 0 dB on right channel LED power Meter.

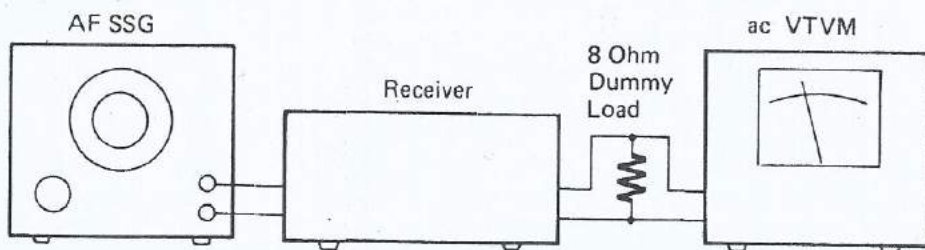
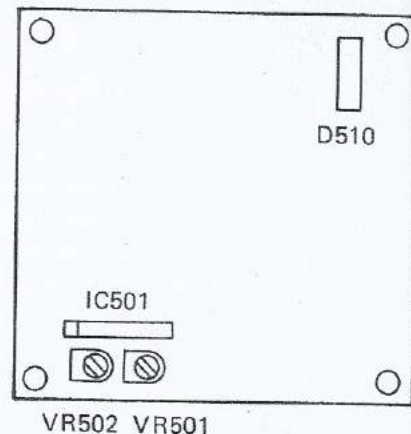


Figure 10.



Power Supply PCB Assembly
(under left side of bottom plate)

Clipping Indicator Alignment (Figure 11)

1. Connect 8 ohm dummy loads to the left and right channel output terminals.
2. Set the speaker impedance switch to 8 ohm position.
3. Supply a 400 Hz signal to left channel.
4. Set the left channel output level to 34V RMS.
5. Adjust VR352 until the clipping indicator begins to glow.
6. Repeat step 4 while supplying a 400 Hz AF signal to right channel. Adjust VR351 until the clipping indicator begins to glow.
7. Change dummy loads to 4 ohm
8. Supply a 400 Hz AF signal to left channel
9. Set the left channel output level to 25V RMS.
10. Adjust VR354 until the clipping indicator begins to glow.
11. Repeat step 9 while supplying a 400 Hz AF signal to right channel. Adjust VR353 until the clipping indicator begins to glow.

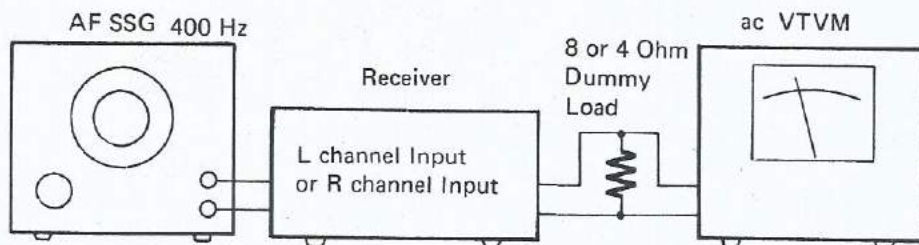
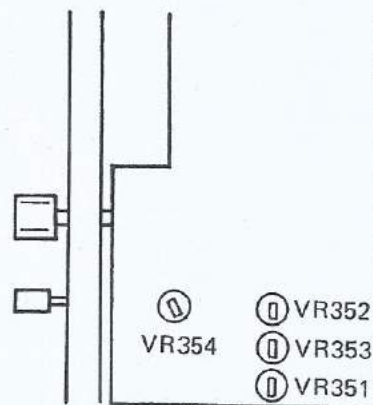


Figure 11



Power Meter Driver
PCB Assembly
(adjustments can be reached through the board, with the unit up side down and bottom plate removed.)

Tuner Alignment

FM Alignment

Function switch: "FM"
Muting switch: "OFF"

1. FM IF Alignment (10.7 MHz)

a) Selectivity Curve Alignment (Use IF Sweep Generator and Oscilloscope (Figures 12, 16 and 17))

Alignment Point	Alignment Method	Signal Input Point	Signal Output Point
T51	Wave Height Max. Symmetric	FE2 ←→ 1(G)	IF36 ←→ 13 (G)

Example of Scope Wave Form



Figure 12.

Note: Alignment should be done with weak input signal

b) S-Curve Alignment (Use IF Sweep Generator & Oscilloscope & dc Voltmeter) (Figures 13, 16 and 17)

Alignment Point	Alignment Method	Signal Input Point	Signal Output Point
T101 Lower Core	To indicate 0V on dc Voltmeter	IF1 ←→ 2 (G)	IF14 ←→ 13 (G)
T101 Upper Core	Adjust for maximum linearity		

Example of Scope S Curve

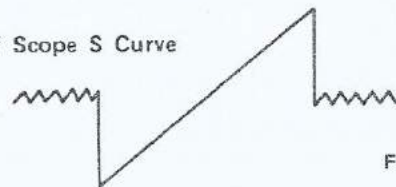


Figure 13.

Note: 1) Connect dc Voltmeter to R120 Lead Wires.
2) Alignment should be done with weak input signal.

2. FM Receiving Frequency Alignment (Figures 16 and 19)

SSG Frequency	VC Position	Signal Input	Signal Output	Alignment Point	Alignment Method
109 MHz	Min capacitance	300Ω Antenna terminal	AF Output Terminal	TC54	Adjusts to receive signals

Note: Signal intensity from FM signal generator should be 2 – 5μV.

3. FM Tracking Alignment (Figures 16 and 19)

SSG Frequency	VC Position	Signal Input	Signal Output	Alignment Point	Alignment Method
106 MHz	Corresponding Tuning Point on meter	300 Ω Antenna Terminal	AF Output Terminal	TC51, TC52, TC53	To have max. Sensitivity

Note: Signal intensity from FM signal generator should be 2 – 5μV.

4. Distortion Alignment (Figures 16 and 19)

SSG Frequency	SG Output	Mod. Frequency	Modulation	Tuning Point	Alignment Point
98 MHz	1 mV	1,000 Hz	±75 kHz Dev.	Center of Tuning Meter	T101 Upper Core

Note: Adjust T101 Upper Core for Optimal Dist. Point.

5. FM Stereo Alignment (Figures 14, 16 and 20)

Alignment Point	Counter Connection Point	Alignment Method
VR101	IF37 ← → 23 (G)	Adjust OSC Frequency to 76 kHz ±0.2 kHz

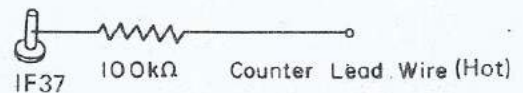


Figure 14.

Note: Never fail to put a 100kΩ resistor in Series between IF37 and Frequency counter.

6. Separation Alignment (Figures 16 and 19)

SG Frequency	SG Output	Mod. Frequency	Modulation	Tuning Point	Alignment Point	Alignment Method
98 MHz	1 mV	1,000 Hz Composites	±67.5 kHz	Center of Tuning Meter	VR102	Best Separation Point (L – R)
		19 kHz Pilot				

7. Rec Level Signal Alignment (Figures 15 and 19)

- Receive 98 MHz 1 mV signal from SG. then achieve 0 dB on output Level at "FM" Function.
- Set to "Rec Level Check" function, then decrease 6 dB from above output Level by adjusting VR401.

AM Alignment

Function Switch: "AM"

1. AM IF Alignment (455 kHz) (Use IF Sweep Generator & Oscilloscope) (Figures 15, 16 and 18)

Function Switch : "AM"

Alignment Point	Alignment Method	Signal Input Point	Signal Output Point
T102 (2 adjustment)	Wave Height max. Symmetry	Bar antenna	IF38 ← → 29 (G)
T103			

Example of Wave Form

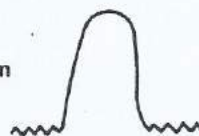


Figure 15.

- Note:
- The connection to IF38 Lead Wire to be made with a Film Capacitor 0.47 – 1μF.
 - Alignment to be done with weak input signal.

2. AM RF Alignment

a) Receiving Frequency Range Alignment (Figures 16 and 21)

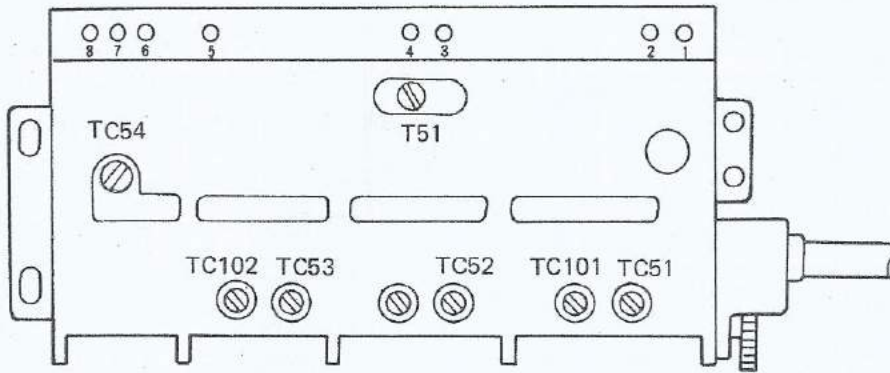
SSG Frequency	VC Position	Alignment Point	Signal Input Point	Signal Output Point	Alignment Method
515 kHz	Max. capacitance	L104	Bar Antenna	Output Jacks	Adjust to receive signal
1700 kHz	Min. capacitance	TC102			Adjust to receive signal

b) Tracking Alignment (Figure 16 and 21)

SG Frequency	VC Position	Alignment Point	Signal Input Point	Signal Output Point	Alignment Method
600 kHz	Corresponding Tuning Point on Meter	Bar Antenna Coil	Bar Antenna	Output Jacks	– To have Max. sensitivity –
1400 kHz		TC101			

Note: Alignment to be done with weak input

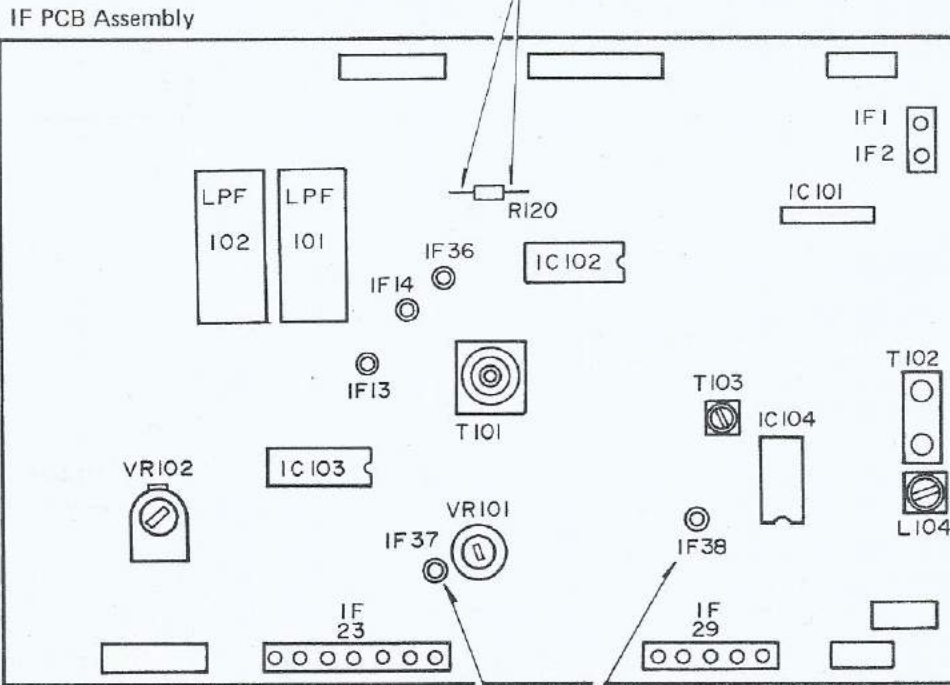
Alignment Location Diagram



1. Ground
2. Antenna Input
3. IF Output
4. Ground
5. +B
6. OSC. Output
7. Ground
8. AFC Terminal

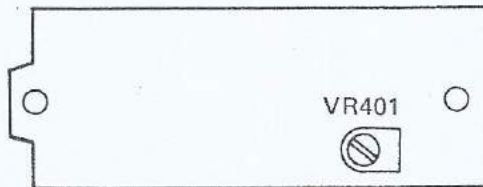
Front End (F/E)

Selectivity Curve Alignment Output Point
(Connect dc Voltmeter to R120 Lead Wires.)



AM IF Alignment Output Point
(To be in series with Capacitor)

Connect 100kΩ Resistor in series
to minimize the influence of
Frequency Counter Cable.



MIC. & OSC. PCB Assembly

Figure 16.

Equipment Connections

Connection of FM IF Alignment

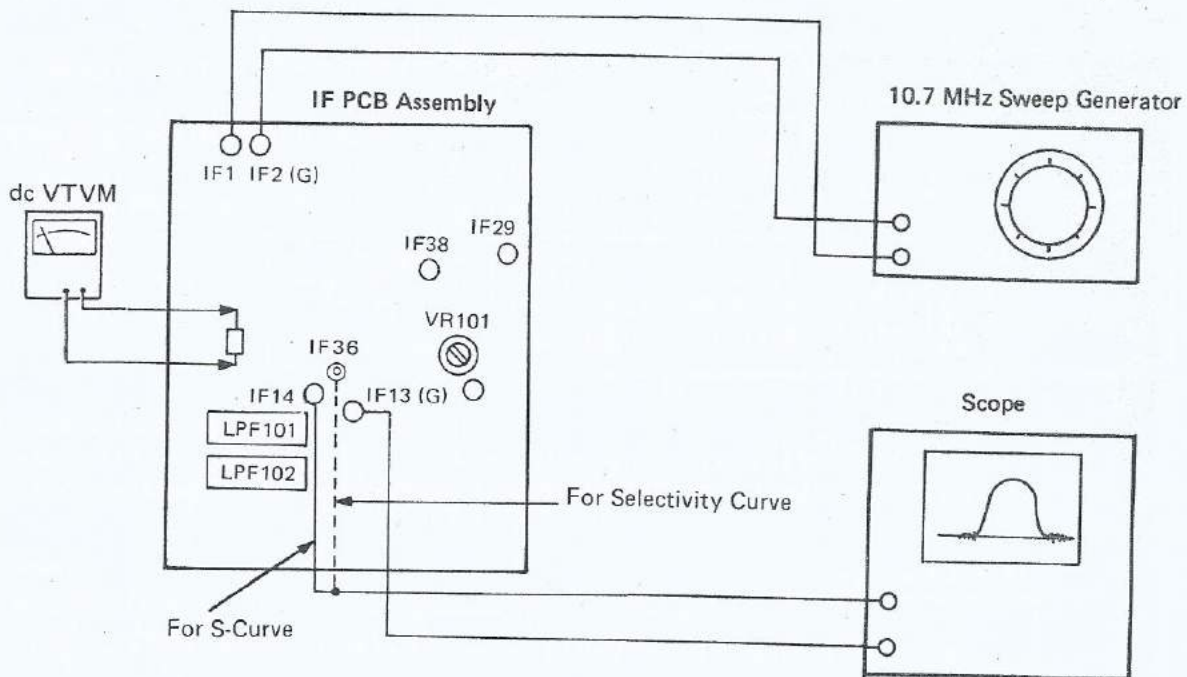


Figure 17.

Connection of AM IF Alignment

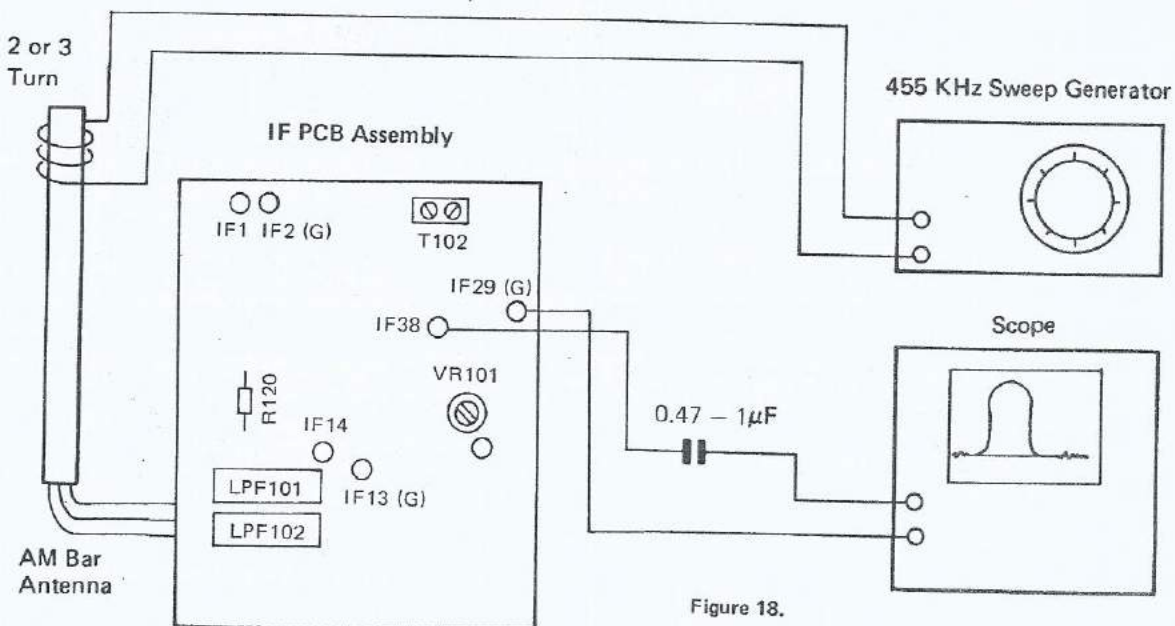


Figure 18.

Connection of FM RF and MPX Stereo Alignment

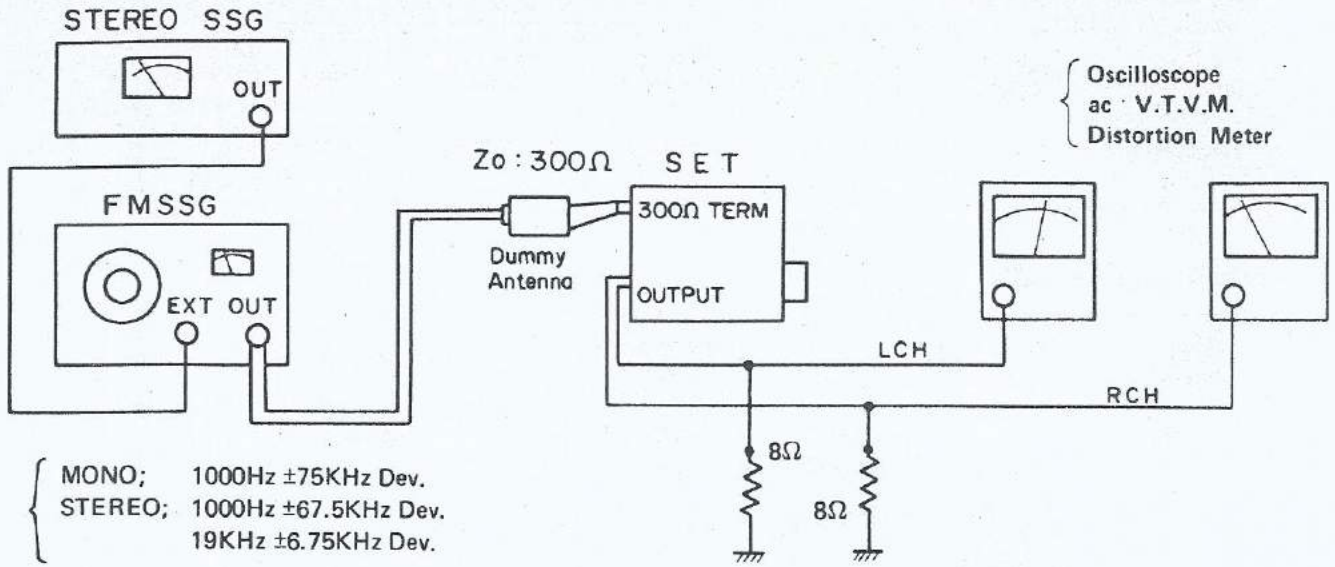


Figure 19.

Connection of FM MPX VCO Alignment

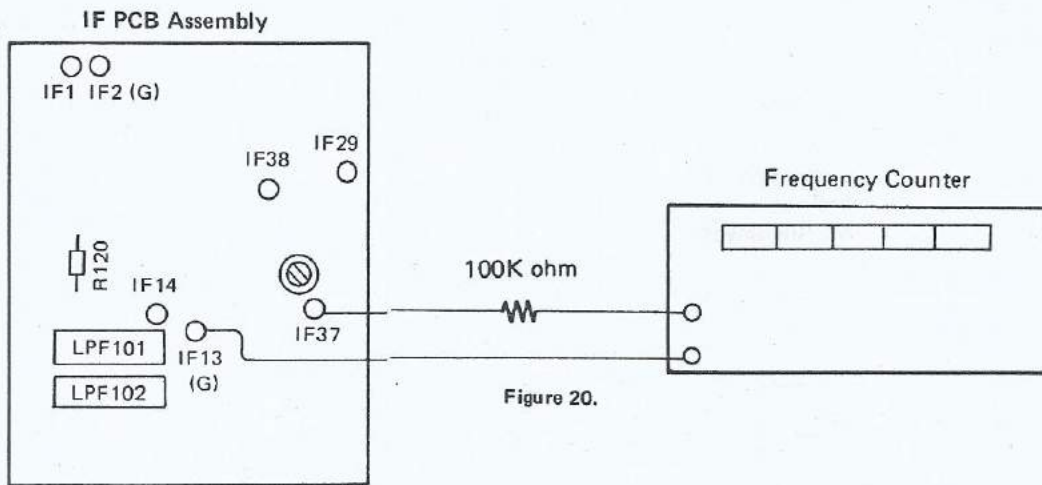


Figure 20.

Connection of AM RF Alignment

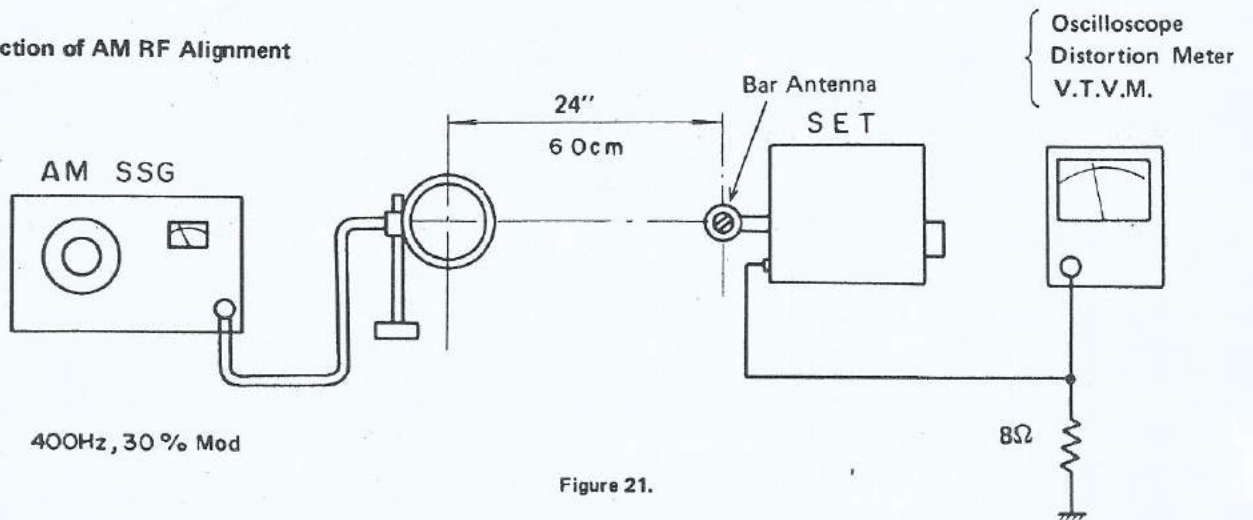


Figure 21.

AM/FM Signal Meter Alignment

– AM – (Figures 22 and 23)

SSG Frequency	SSG Output	Signal Input Point	Tuning Point	Alignment Point	Alignment Method
1000kHz	1 V	Bar Antenna	1000kHz	VR602	Adjust to light 1 – 7 Segments.

– FM – (Figures 22 and 24)

SSG Frequency	SSG Output	Tuning Point	Alignment Point	Alignment Method
98MHz	100 mV	98MHz	VR601	Adjust to light 1 – 7 Segments

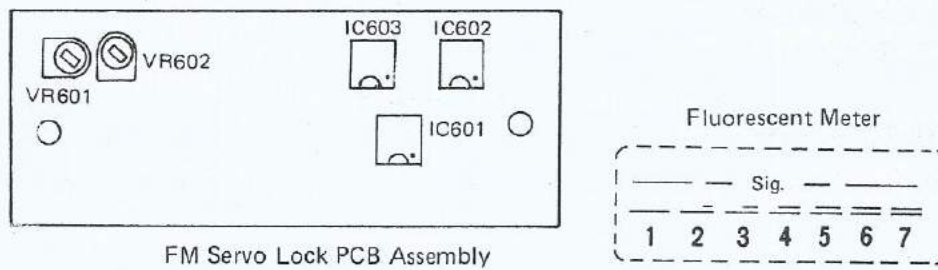
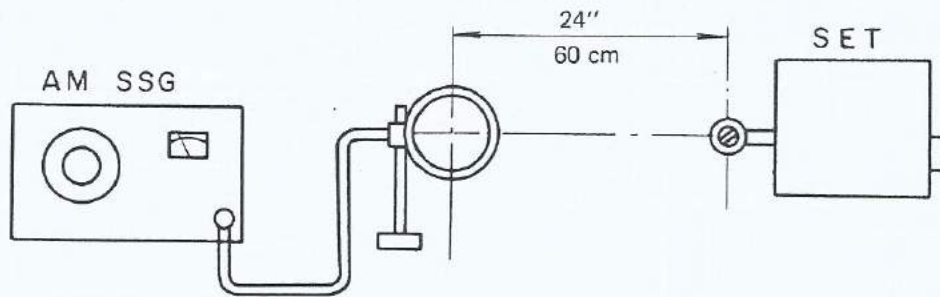


Figure 22.

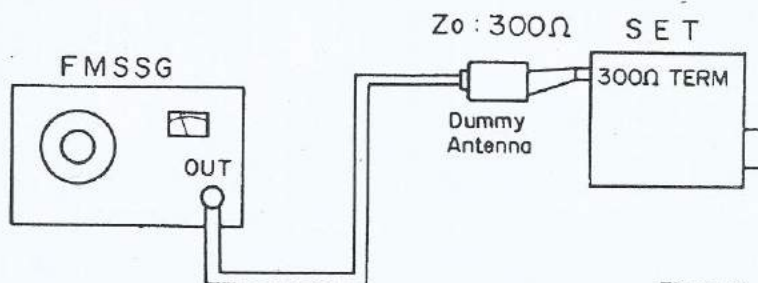
Connection of Signal Meter (AM) Alignment



400Hz, 30 % Mod

Figure 22.

Connection of Signal Meter (FM) Alignment



1000Hz ±75kHz Dev.

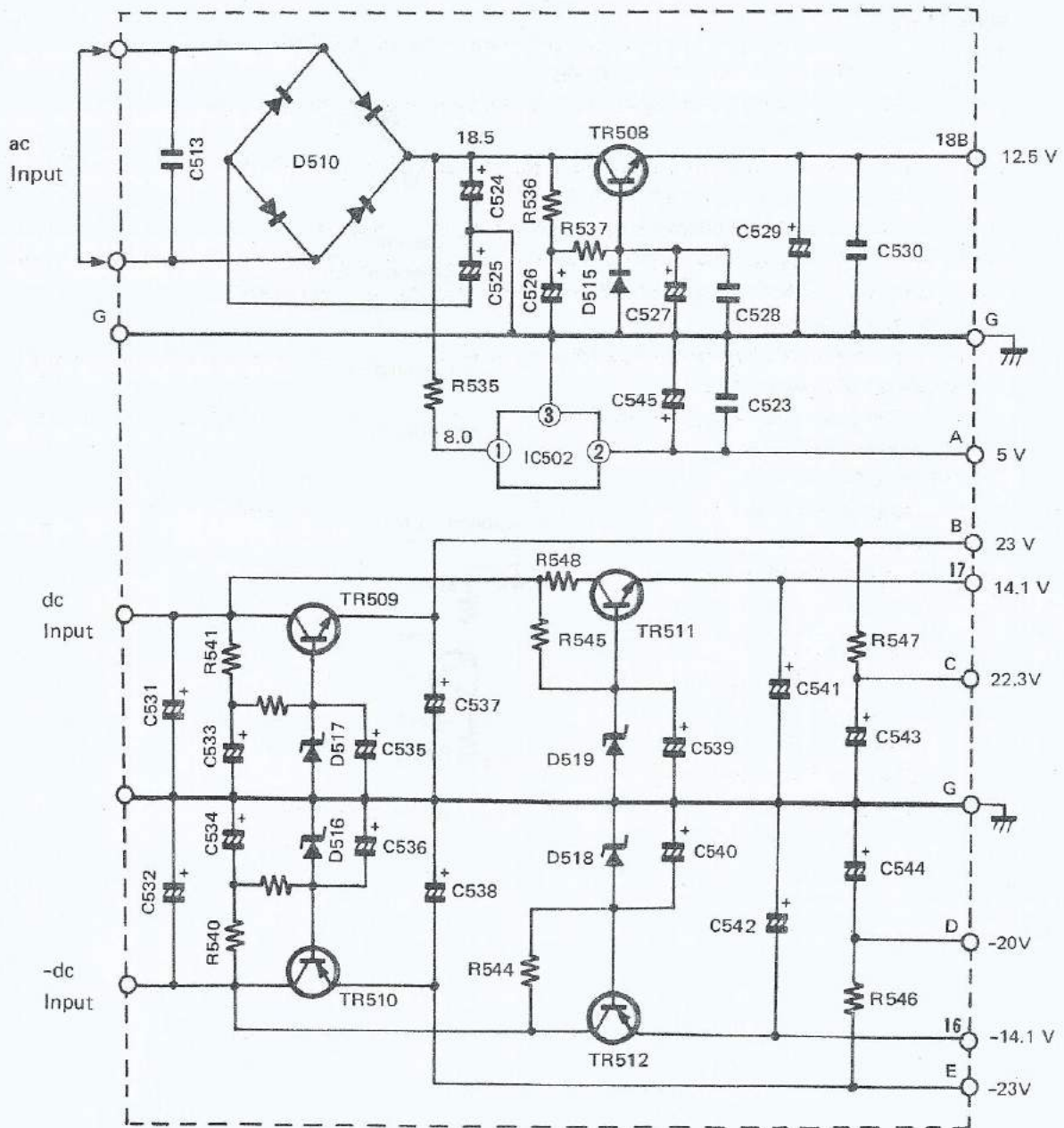
Figure 24.

Circuit Explanation of Power Supply Circuit

These circuits are stabilizer circuits for the Power sources of pre-amplifier, phono equalizer, tuner etc.

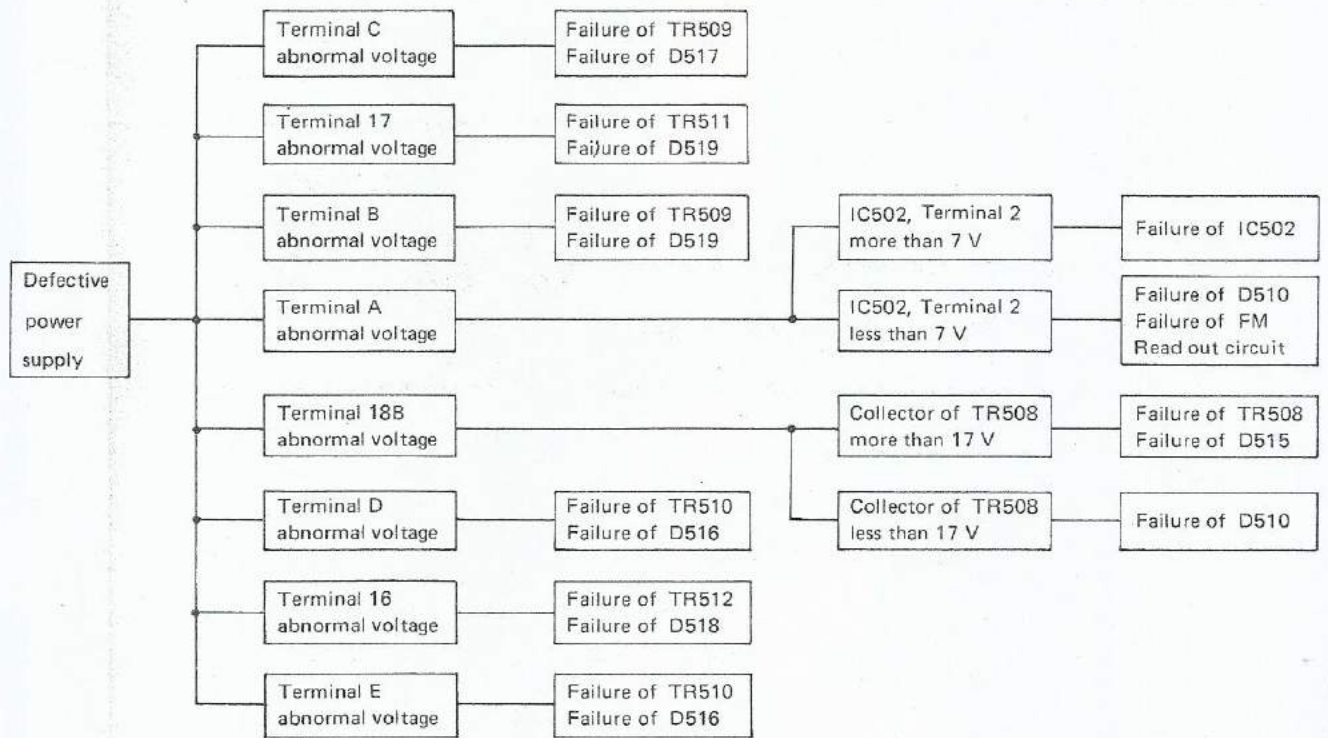
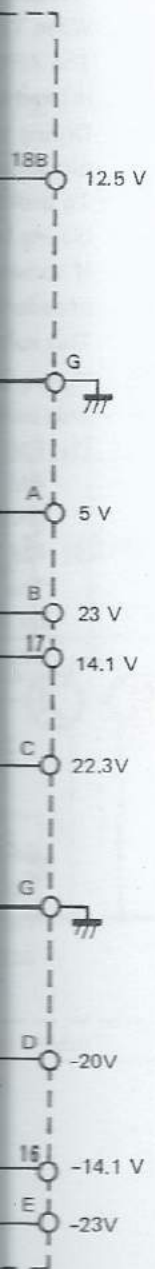
- The power source for pre-amplifier and phono equalizer is stabilized by transistors TR509 and TR510, Zener diodes D516 and D517, and capacitors C535 and C536.
 - Terminals B and F supply preamplifier with $\pm 23V \pm 2V$.
 - Terminals C and D supply phono equalizer with $+22.3V \pm 2V$ and $-20V \pm 2V$.
- The power source for operational amplifier in FM servo lock circuit is stabilized by Transistors TR511 and TR512, Zener diodes D518 and D519, and Capacitors C539 and C540. The operational amplifier is supplied by terminals 16 and 17 with a voltage of $\pm 14.1 V \pm 2V$.
- The power source for tuner circuit rectified by D501 and C524 is stabilized by Transistor TR508, Zener diode D515 and capacitor C527. The tuner circuit is supplied by terminal 18B with a voltage of $12.5V \pm 1V$.
- FM frequency readout circuit requires a very precise DC voltage for stable operation. This voltage is stabilized by voltage regulator IC (IC502) and is supplied by terminal A with a voltage of $+5V \pm 5\%$.

Power Supply Circuit



TR510, Zener
 TR511 and
 is supplied by
 B, Zener diode
 1V.
 voltage of +5V

Troubleshooting of Power Supply Circuit



Circuit Explanation of Clipping Indicator Circuit

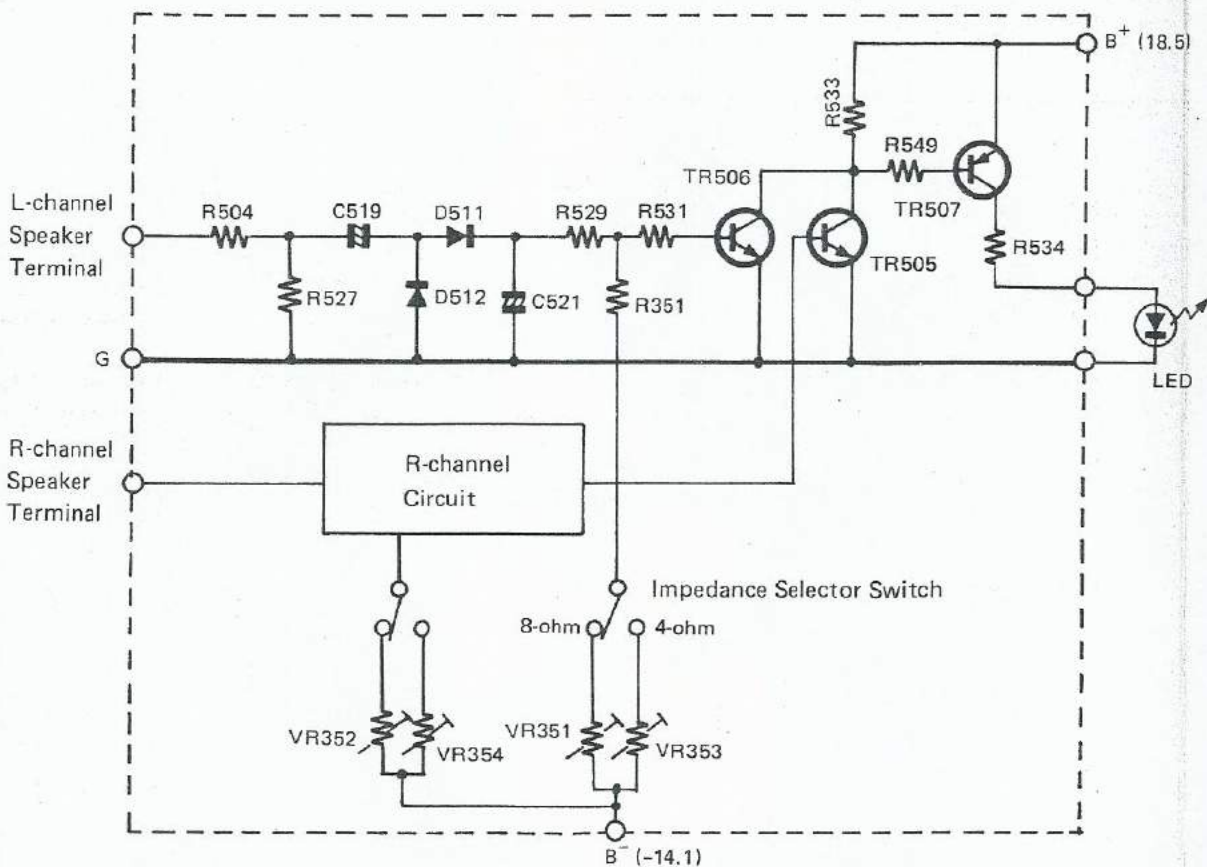
As the output level of main amplifier is restricted by the $\pm B$ voltages, the output level clips when input signal of main amplifier increases a lot.

To avoid listening to clipped and distorted signals this circuit lights up an LED indicator when clipping occurs.

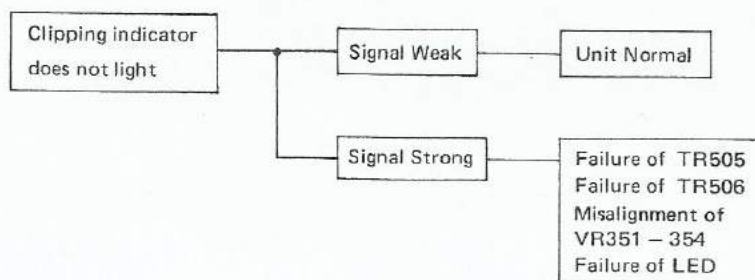
Circuit works as follows:

1. The base terminal of TR506 is biased in negative, as it is connected to $-B$ line through R351 and variable resistor (VR351 or VR353). In normal operation TR506 is cut off.
2. AF signal from L channel speaker terminal is converted to positive DC signal D511, D512 and introduced to base terminal of TR506.
3. When audio output increases the negative bias of base terminal of TR506 is cancelled and finally it becomes a positive potential and TR506 is turned on.
4. When TR506 is turned on, TR507 turns on and LED will light.
5. VR353 is equipped to adjust the turning on point when the output signal begins clipping (4 ohm lead).
6. VR351 is equipped to adjust the turning on point when the output signal begins clipping (8 ohm lead). R channel circuit works in the same way as L channel.

Clipping Indicator Circuit



Troubleshooting of Clipping Indicator Circuit



Circuit Explanation of Servo locked and Tuning meter display

1. Servo locked (Auto locked) Circuit

This circuit automatically switches AFC (Automatic Frequency Control) loop when triggered by noise induced by someone.

Pin 10 of IC102 (FM IF Amplifier and Detector IC) has a fixed voltage of 5.6V DC typically. This voltage is the reference voltage of AFC circuit.

The voltage on pin 7 of IC is set to vary as follows:

- (1) When receiver is correctly tuned 5.6V (same voltage of pin 10)
- (2) When receiver is detuned or drifts to lower side of signal 5.6 -2V
- (3) When receiver is detuned or drifts to higher side of signal 5.6 +2V

This voltage variation can be used as a AFC signal by supplying it to AFC terminal of FM Front end.

In normal operation relay RY601 is off, and AFC signal from P7 of IC102 is feedback to AFC terminal of FM Front end.

When someone touches the tuning knob, the noise component induced is injected to IC601 (1/2) and amplified in IC601 (1/2).

It is converted to positive DC voltage by diodes D601 and D602 and turns on TR604.

When TR604 turns on, relay RY601 turns on.

The AFC loop is connected to P10 of IC102. This results in turning AFC loop off because AFC terminal voltage is fixed by the reference voltage of P10 of IC102.

During tuning, if someone is touching another metal part of receiver, the noise component is grounded and can not activate above circuit.

To avoid this problem IC601(2/2) is provided. R607 and R608 have very high impedance and these resistors are biasing IC601 (2/2) to set the pin 7 of IC601 (2/2) to 0V.

If someone touches tuning knob and other metal chassis, the impedance of a human body (it is lower than the impedance of R607) changes the biasing point of IC and generates positive DC voltage on pin 7 of IC601 (2/2). This voltage makes TR604 turn on, and cuts AFC loop off in the same way as above.

2. Tuning and Signal Display

This unit is equipped with fluorescent Signal/Tuning meter instead of conventional Signal/Tuning meter.

(1) FM/AM signal strength meter

FM or AM signal is converted to DC signal in IF amplifier circuit, and is supplied to fluorescent indicator unit to drive signal meter.

(2) FM Tuning meter

The voltage of pin 7 and pin 10 of IC102 is supplied to high impedance differential amplifier constructed by IC602 and IC603.

The output voltage of IC603 (pin 6) is as follows:

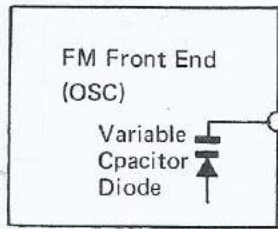
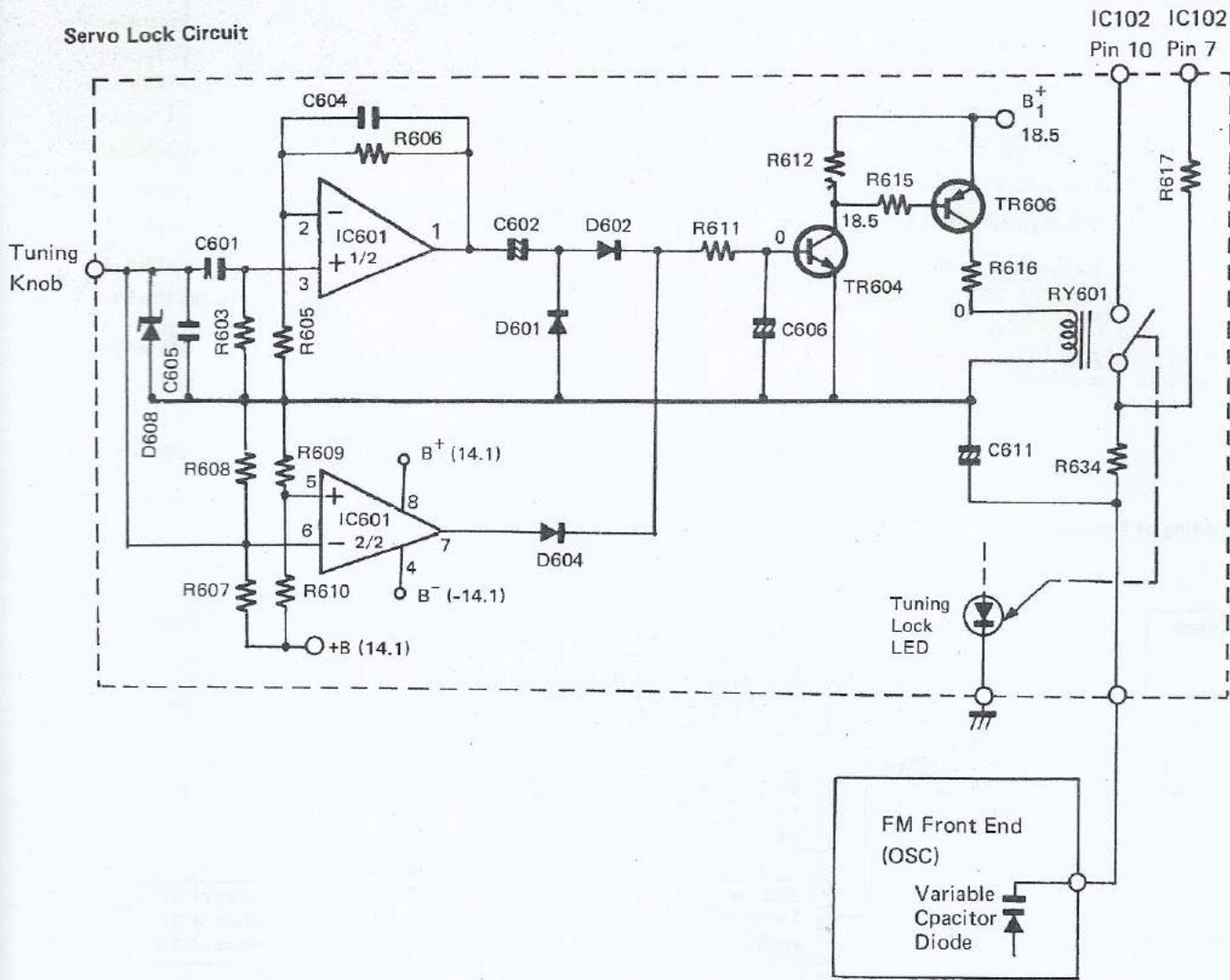
$$V_{\text{pin 6}} = \frac{R625}{R623} \times (5.6 \text{ V} - V_{\text{pin 7}})$$

As the voltage on P7 varies from (5.6 -2)V to (5.6 +2)V according to tuning.

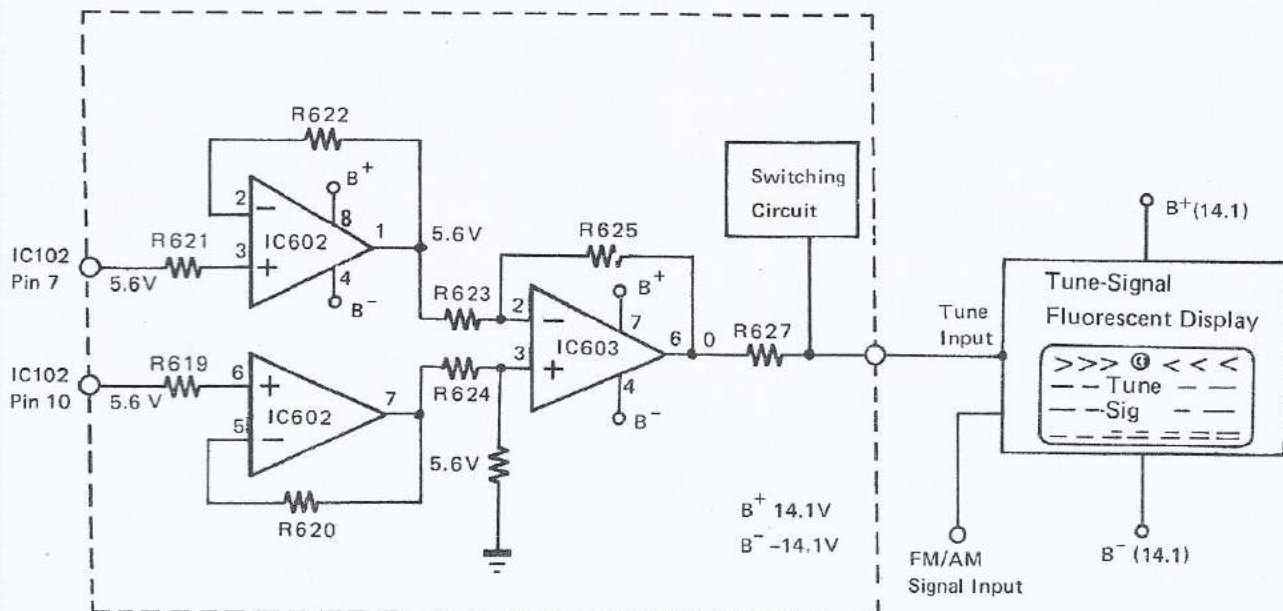
Vpin 6 varies from (0 +2)V to (0 -2)V.

Tuning indicator (fluorescent indicator) unit is actuated by this voltage.

Servo Lock Circuit



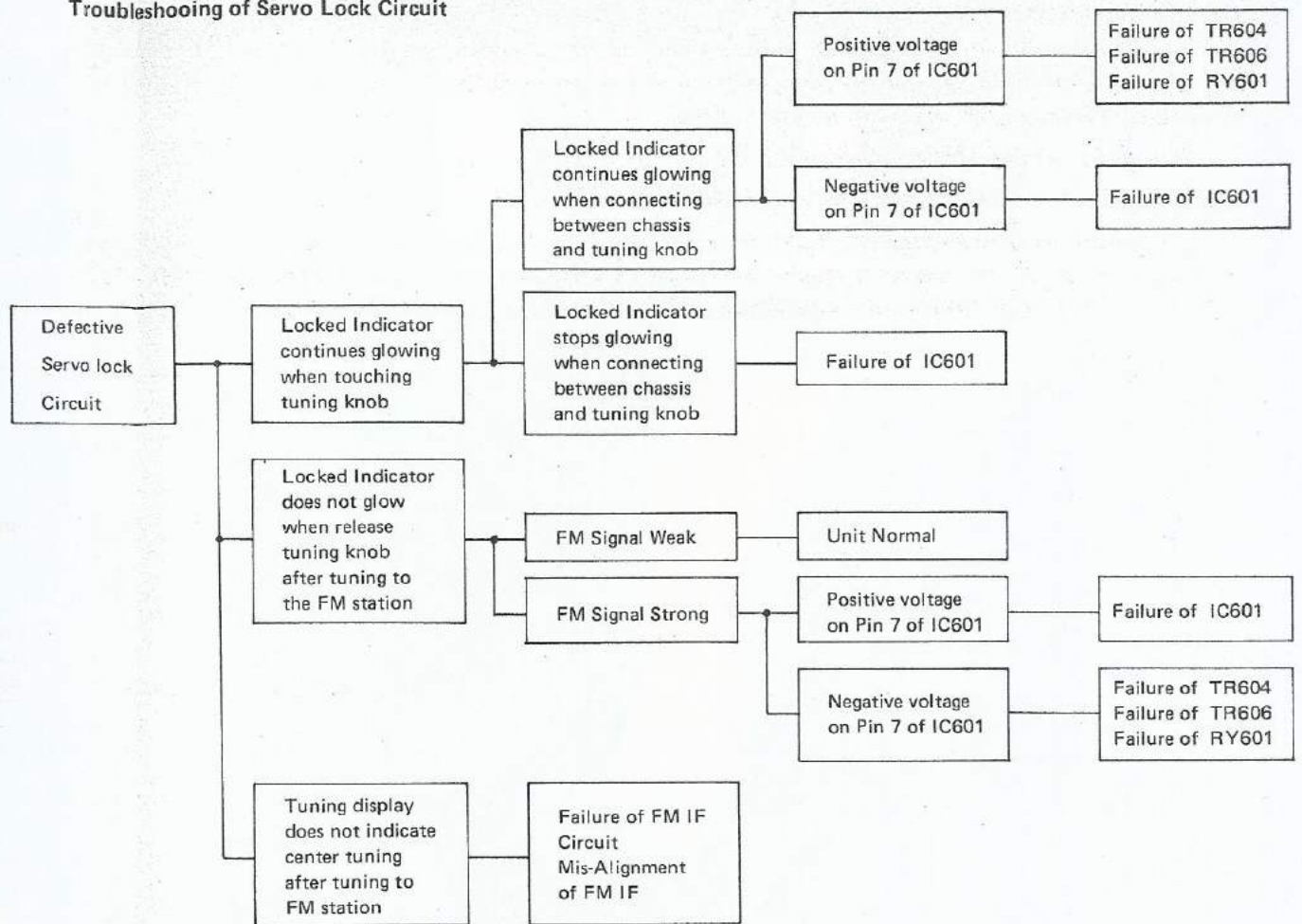
Tune-Signal Fluorescent Display Circuit



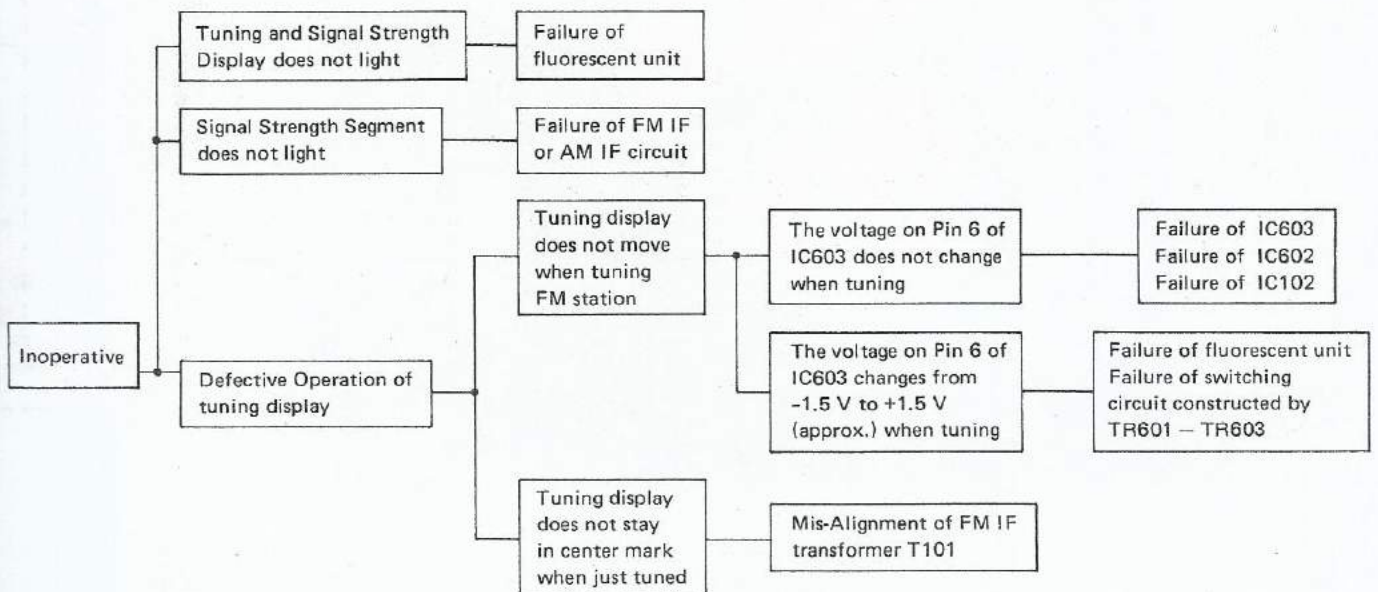
Inoperative



Troubleshooting of Servo Lock Circuit



Troubleshooting of Tuning and Sigal Display Circuit



Circuit Explanation of Protection Circuit

The Protection Circuit is designed to remove power from the speakers when a failure occurs. This is accomplished by turning off TR502 thereby de-energizing the relay and switching the speakers out of the circuit. Under normal conditions TR502 is the only transistor that is turned on.

Two common failures that could occur are:

Failure No. 1 – The Output (Positive Speaker Terminal) is not at 0 VDC.

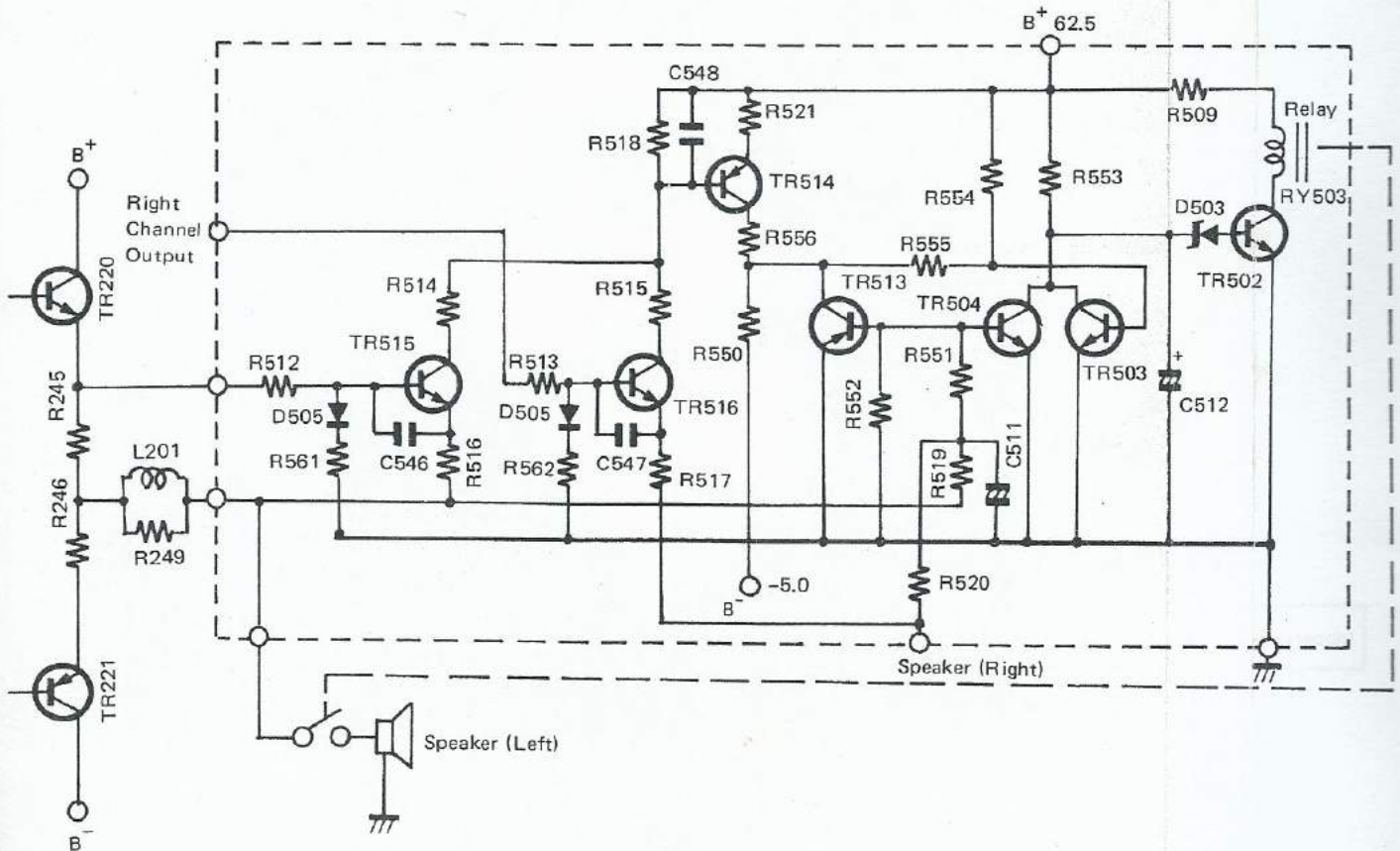
If a problem exists in the output (TR220, TR221), a positive or negative voltage will appear at the output (positive speaker terminal). This voltage is coupled to the base of TR504 and TR513 – if its a positive voltage TR504 will turn on. Turning on TR504 will cause TR502 to turn off and the relay will be de-energized. If a negative voltage

appears a
TR503 et
Note: TR
or
Failure
When the
causing t
voltage o
With TR5

Troubleshooting of S

Relay RY503
does not
turn on

Protection Circuit



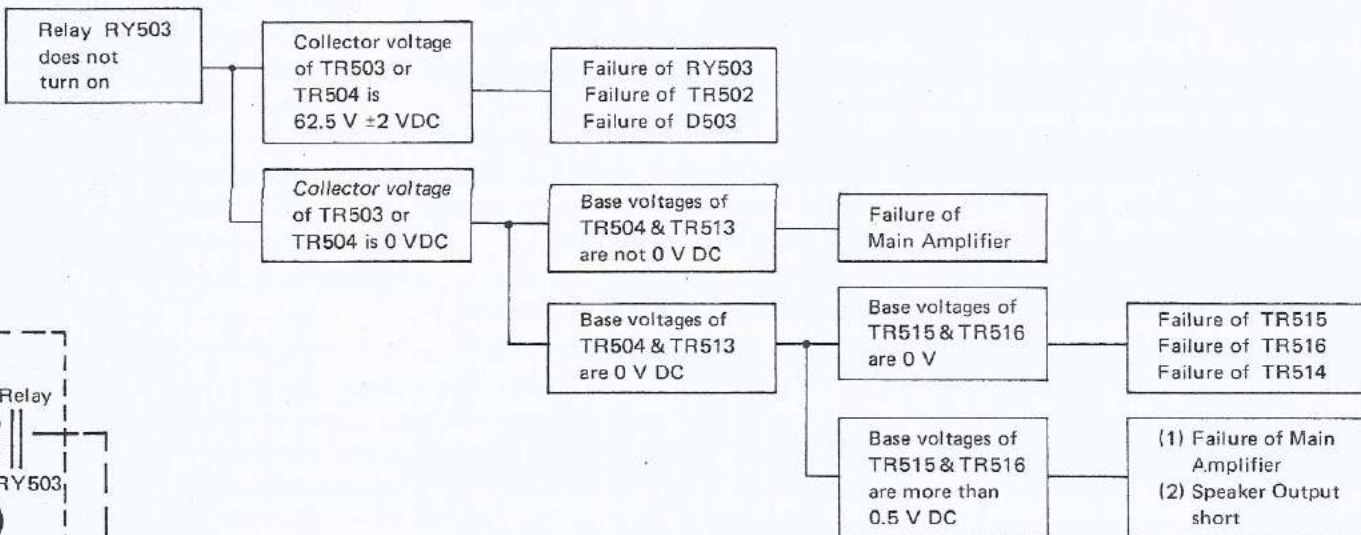
appears at the output — TR513 turns on causing the base of TR503 to go positive thereby turning it on. Turning on TR503 effectively grounds TR502's base and turns it off causing the relay to de-energize.

Note: The circuit just described is also responsible for the delay in relay activation when the unit is initially turned on. The speaker relay will not activate until both outputs have stabilized to a 0 VDC level.

Failure No. 2 — Positive Speaker Terminals accidentally Grounded.

When this happens the voltage on the emitter of TR220/221 (L channel) rises. This rise in voltage turns on TR515, causing the base of TR514 to go lower and thereby it also turns on. The conduction of TR514 causes the base voltage of TR503 to go positive. Biasing TR503 on, effectively grounds the base of TR502, causing it to turn off. With TR502 off, the relay is once again de-energized.

Troubleshooting of Speaker Protector Circuit



Circuit Explanation of LED Power Meter Circuit

- This circuit consists of five ICs (IC501, IC351, IC352, IC353, IC354) and 2 power indicators—each constructed by 17 LEDs.

The output signal of L channel main amplifier is supplied to pin 6 of IC501 through C518.

This signal is changed to a logarithmically compressed DC voltage signal and comes out on pin 8 of IC501.

The R channel signal is supplied to pin 4 through C517, and DC voltage signal appears on P2 of IC501.

The peak hold time of the power meter is decided by the capacitance of C514 and C515.

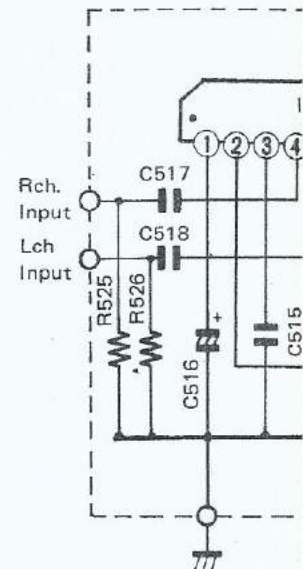
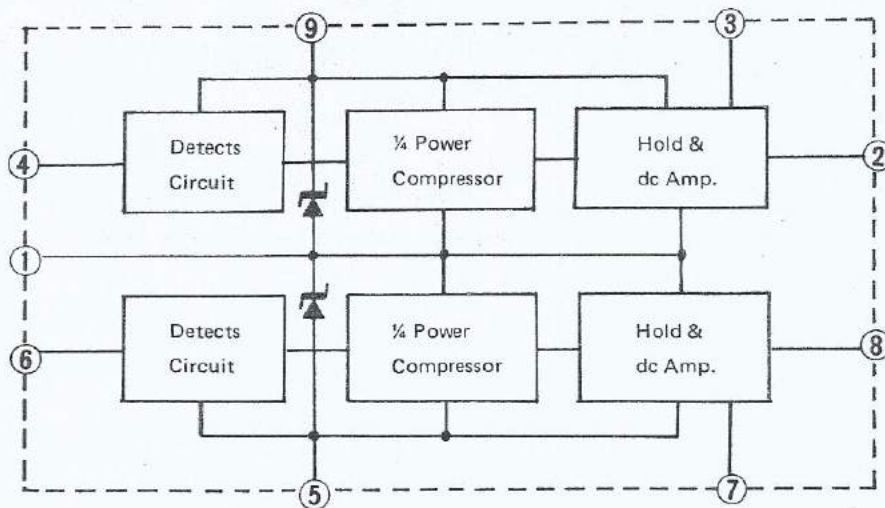
IC351 and IC353 drive L channel LED power indicator; IC352 and IC354 drive R channel LED power indicator

Since one IC can drive 12 LEDs, two ICs are connected in series to drive 17 LEDs.

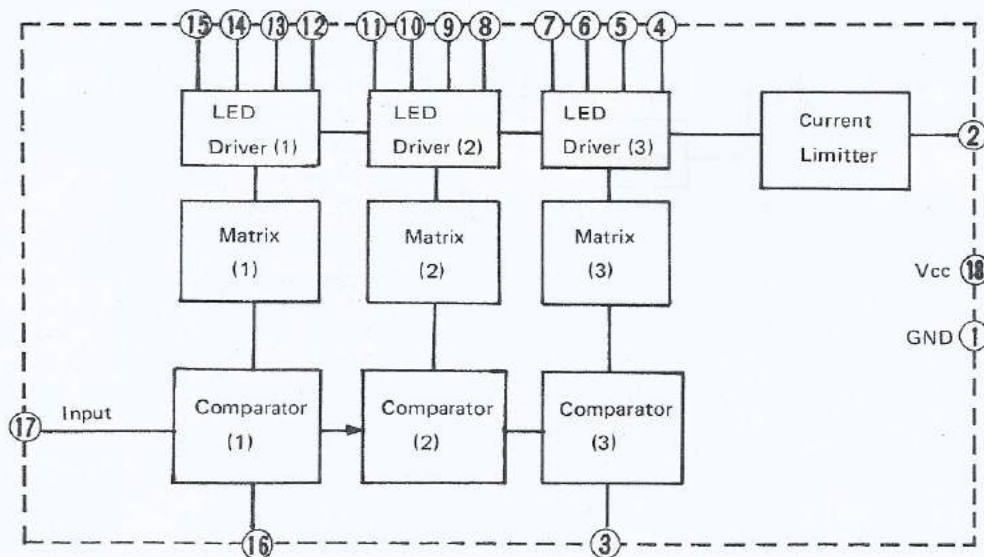
DC voltage signal from IC501 is supplied to pin 17 of IC351 – IC354. LEDs glow in proportion to the input signal.

VR501, VR502 are variable resistors to adjust the scale of the power meter to meet with actual output power.

IC501 Functional Block Diagram



IC351 – 354 Functional Block Diagram



constructed

C501.

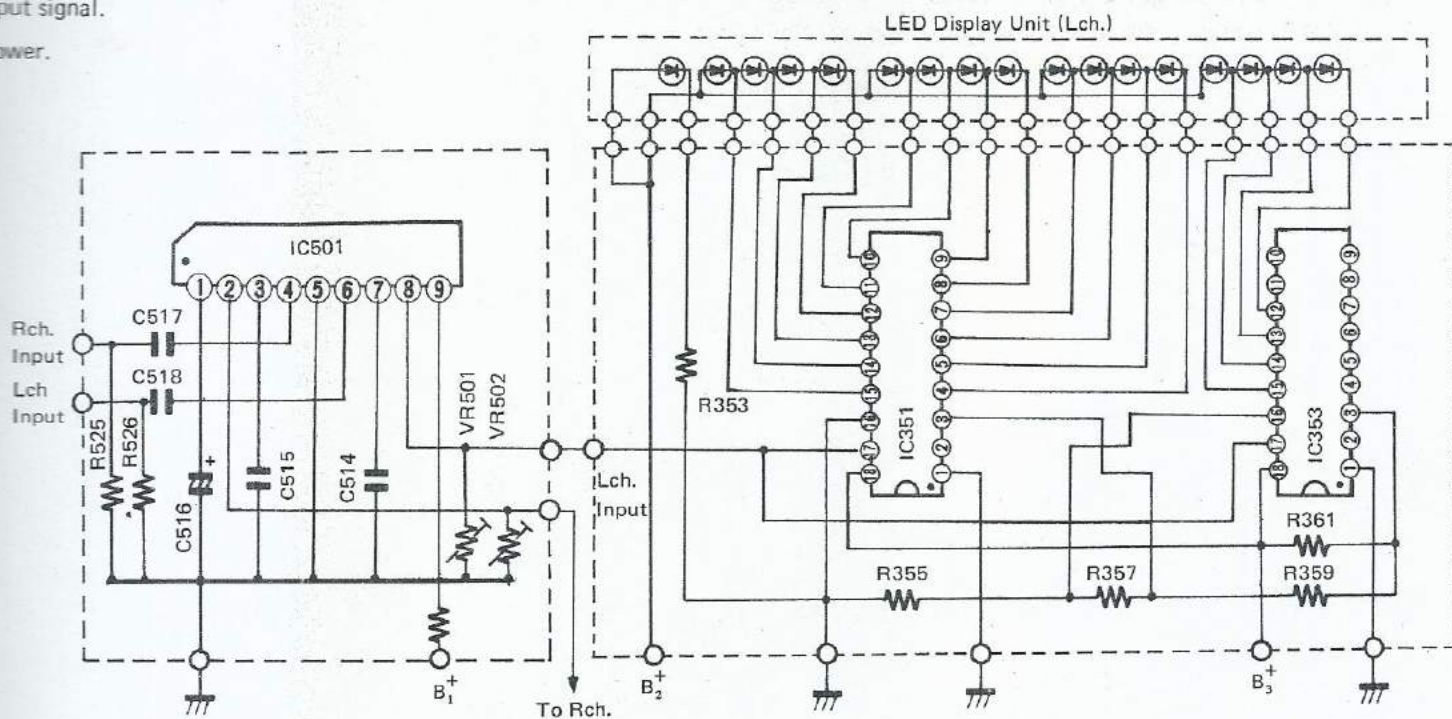
01.

power indicator

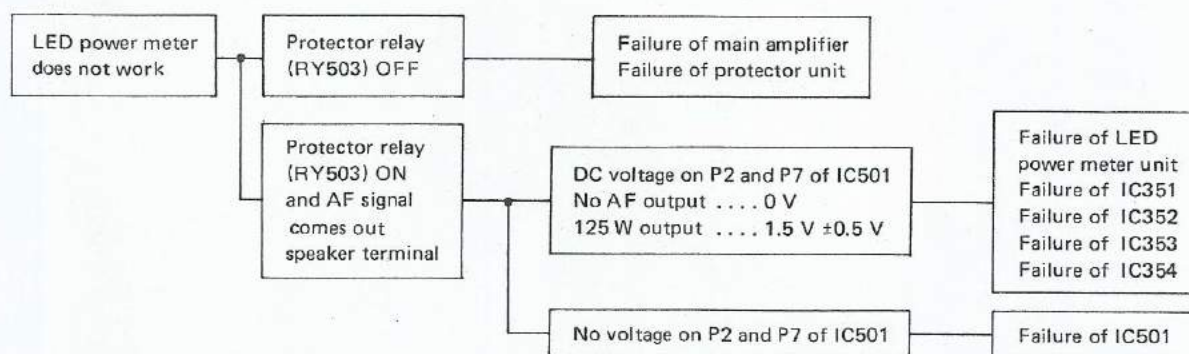
the input signal.

output power.

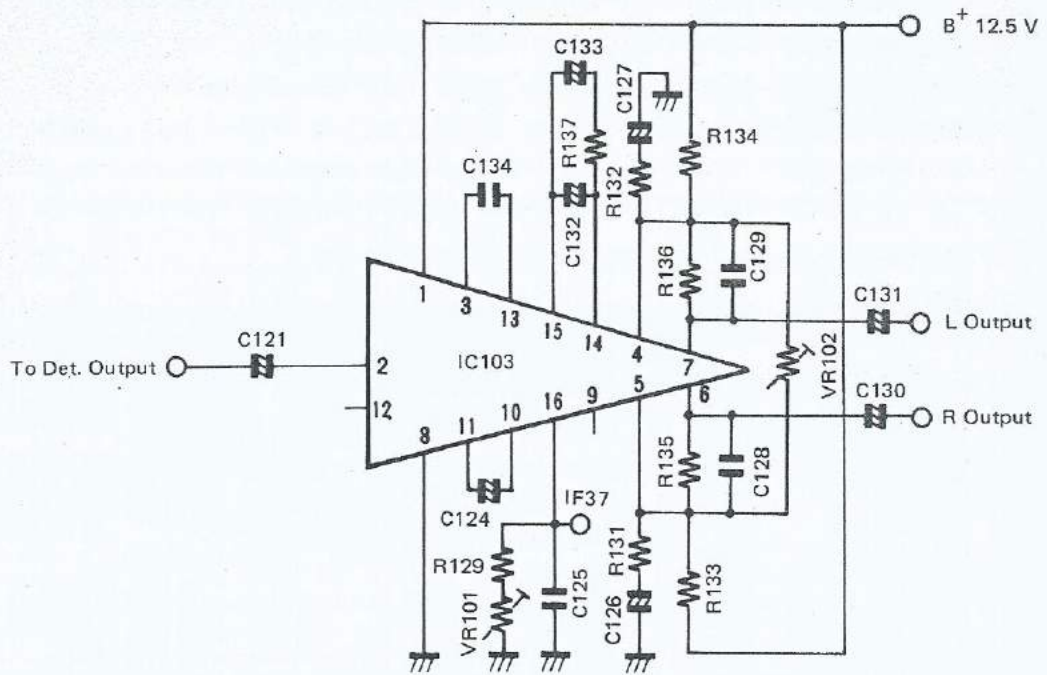
LED Power Meter Driver Circuit



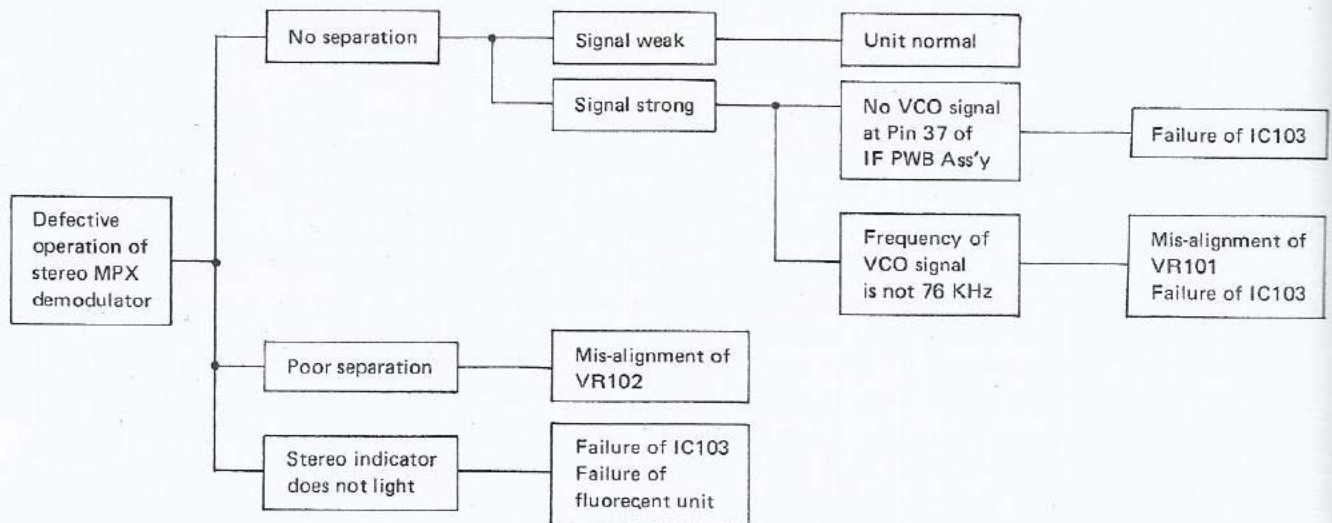
Troubleshooting of LED Power Meter Circuit



Stereo MPX Demodulator Circuit



Troubleshooting of Stereo MPX Demodulator Circuit



Circuit Explanation for FM Frequency Readout Circuit

- This Circuit consists of two ICs (IC451 and IC452) and fluorescent indicator panel.

Local oscillator signal from FM tuner is supplied to pin 13 of IC452 through capacitor C451.

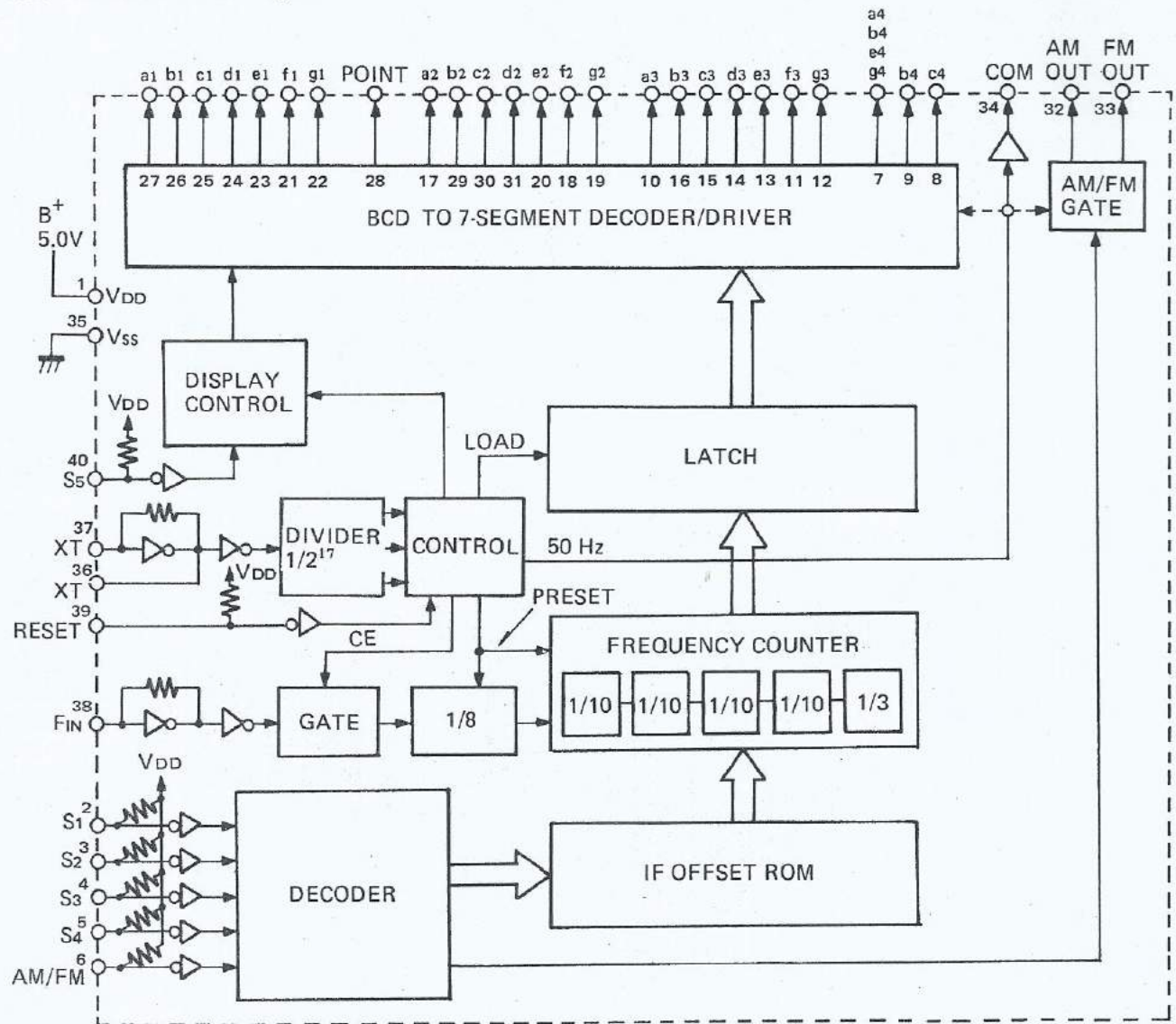
IC452 is Pre-scaler which works as a frequency divider of local oscillator frequency.

The local oscillator signal has a frequency range from 98.2 to 119.7 MHz.

Pre-scaler divides the frequency of local oscillator frequency into 1/100, i.e. from 0.982 to 1,197 MHz since the local oscillator frequency is too high to operate IC451.

IC451 counts the frequency of the input signal and corrects the difference of IF frequency. The signal counted is supplied to Segment decoder/Driver circuit. Segment decoder/Driver circuit generates voltages for each segment of Fluorescent Indicator Panel.

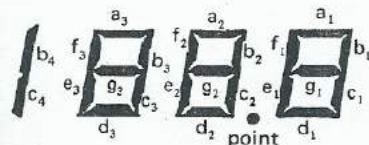
IC451 Functional Block Diagram



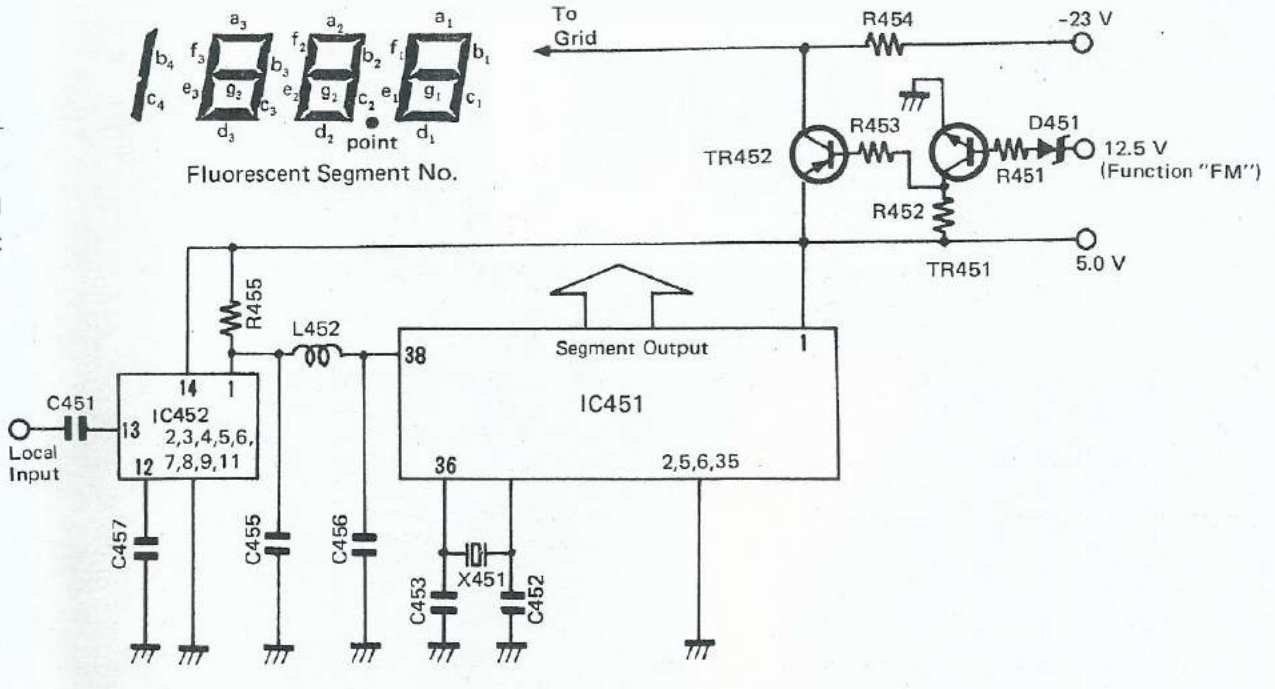
FM Readout Circuit

1,197 MHz since the local osci-

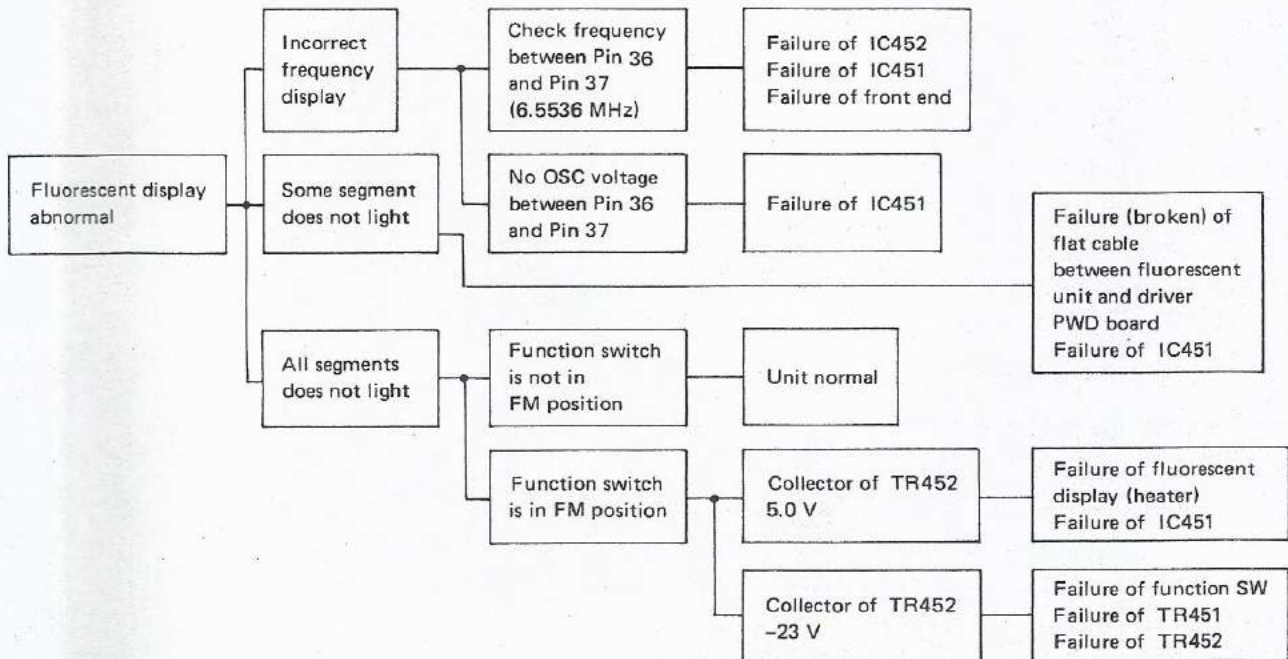
The signal counted is supplied
for each segment of Fluorescent




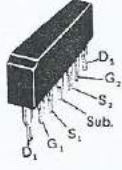



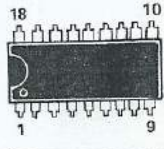

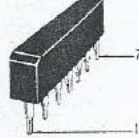
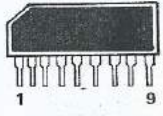

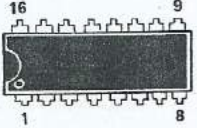


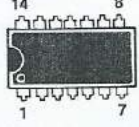

Fluorescent Segment No.



Troubleshooting of FM Readout Circuit



Transistor & IC Lead Identification

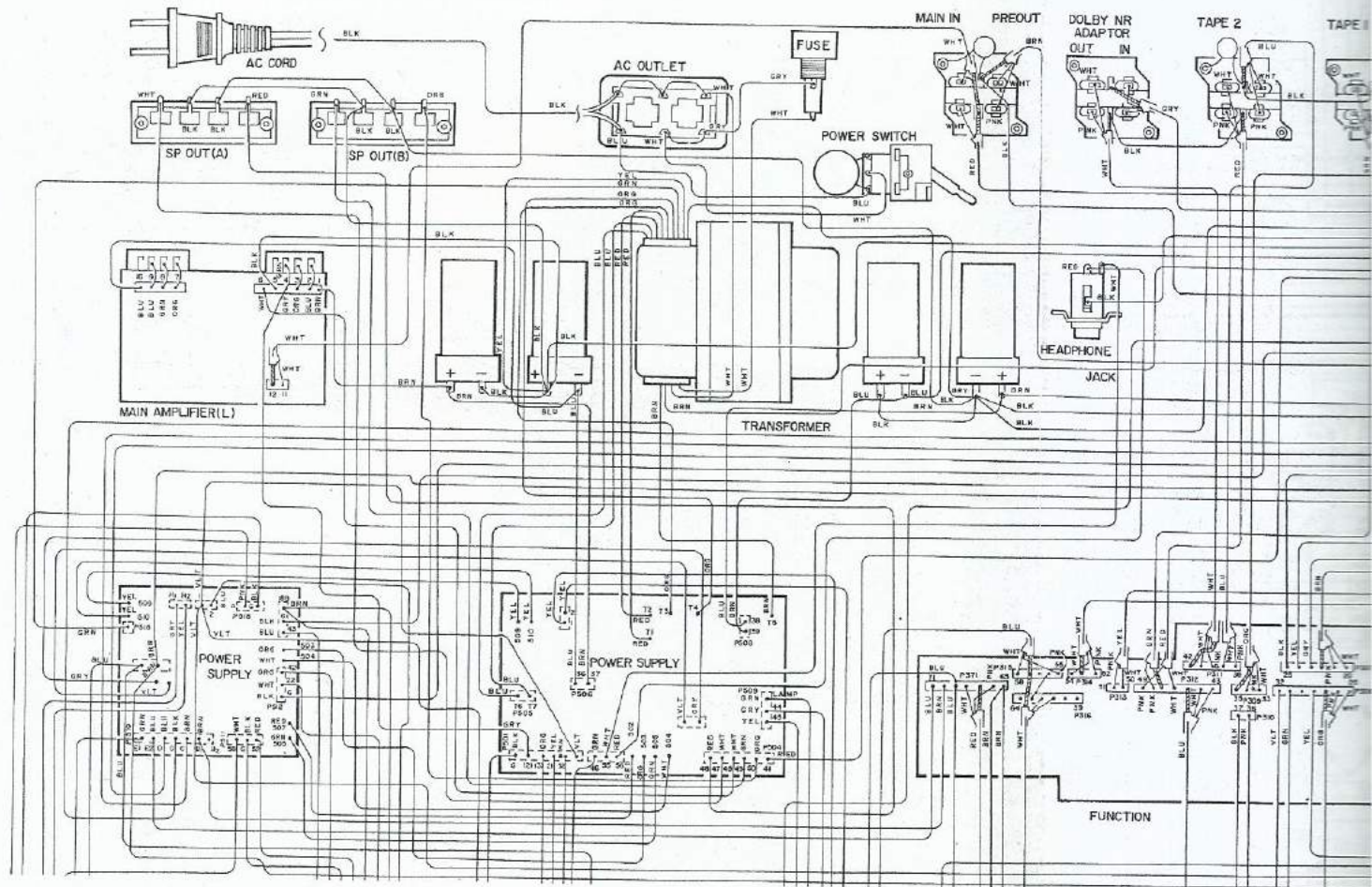
<p>2SD746 2SB706</p> 	<p>TR220 TR221</p>	<p>μPA-63H</p> 	<p>TR201</p>	<p>LM-1458N μPC-741C</p> 	<p>IC601 IC602 IC603</p>																																																												
<p>2SA726 2SC1313</p> 	<p>TR05 TR06 TR07 TR08</p>	<p>μPC-78MO^S μPC-1430^S</p> <p>1 Input 2 Output 3 GND</p> 	<p>IC502</p>	<p>UAA-180</p> 	<p>IC351 IC352 IC353 IC354</p>																																																												
<p>2SK30D</p> 	<p>TR106 TR107</p>	<p>μPC-555</p> 	<p>IC101</p>	<p>TA-7318P</p> 	<p>IC501</p>																																																												
<p>2SA915 2SA916 2SC1940 2SC1941</p> 	<p>TR205 TR207 TR208 TR209 TR216 TR217 TR502</p>	<p>HA-1137W HA-1196</p> 	<p>IC102 IC103</p>	<p>MSM-5525</p> 	<p>IC451</p>																																																												
<p>2SB536 2SB596 2SD381 2SD526</p> 	<p>TR218 TR219 TR508 TR509 TR510 TR511 TR512</p>	<p>HA-1151 MSL-2318</p> 	<p>IC104 IC452</p>																																																														
<p>2SC945 2SC900 2SC1845 2SC1775 2SA733 2SA991 2SA872</p> 	<table style="width: 100%; border: none;"> <tbody> <tr> <td>TR01</td> <td>TR203</td> <td>TR302</td> <td>TR404</td> <td>TR506</td> <td>TR605</td> </tr> <tr> <td>TR02</td> <td>TR204</td> <td>TR303</td> <td>TR405</td> <td>TR507</td> <td>TR606</td> </tr> <tr> <td>TR03</td> <td>TR206</td> <td>TR304</td> <td>TR406</td> <td>TR513</td> <td>TR701</td> </tr> <tr> <td>TR04</td> <td>TR210</td> <td>TR305</td> <td>TR407</td> <td>TR514</td> <td>TR702</td> </tr> <tr> <td>TR101</td> <td>TR211</td> <td>TR306</td> <td>TR451</td> <td>TR515</td> <td>TR703</td> </tr> <tr> <td>TR102</td> <td>TR212</td> <td>TR307</td> <td>TR452</td> <td>TR516</td> <td>TR704</td> </tr> <tr> <td>TR103</td> <td>TR213</td> <td>TR308</td> <td>TR501</td> <td>TR601</td> <td></td> </tr> <tr> <td>TR104</td> <td>TR214</td> <td>TR401</td> <td>TR503</td> <td>TR602</td> <td></td> </tr> <tr> <td>TR105</td> <td>TR215</td> <td>TR402</td> <td>TR504</td> <td>TR603</td> <td></td> </tr> <tr> <td>TR202</td> <td>TR301</td> <td>TR403</td> <td>TR505</td> <td>TR604</td> <td></td> </tr> </tbody> </table>					TR01	TR203	TR302	TR404	TR506	TR605	TR02	TR204	TR303	TR405	TR507	TR606	TR03	TR206	TR304	TR406	TR513	TR701	TR04	TR210	TR305	TR407	TR514	TR702	TR101	TR211	TR306	TR451	TR515	TR703	TR102	TR212	TR307	TR452	TR516	TR704	TR103	TR213	TR308	TR501	TR601		TR104	TR214	TR401	TR503	TR602		TR105	TR215	TR402	TR504	TR603		TR202	TR301	TR403	TR505	TR604	
TR01	TR203	TR302	TR404	TR506	TR605																																																												
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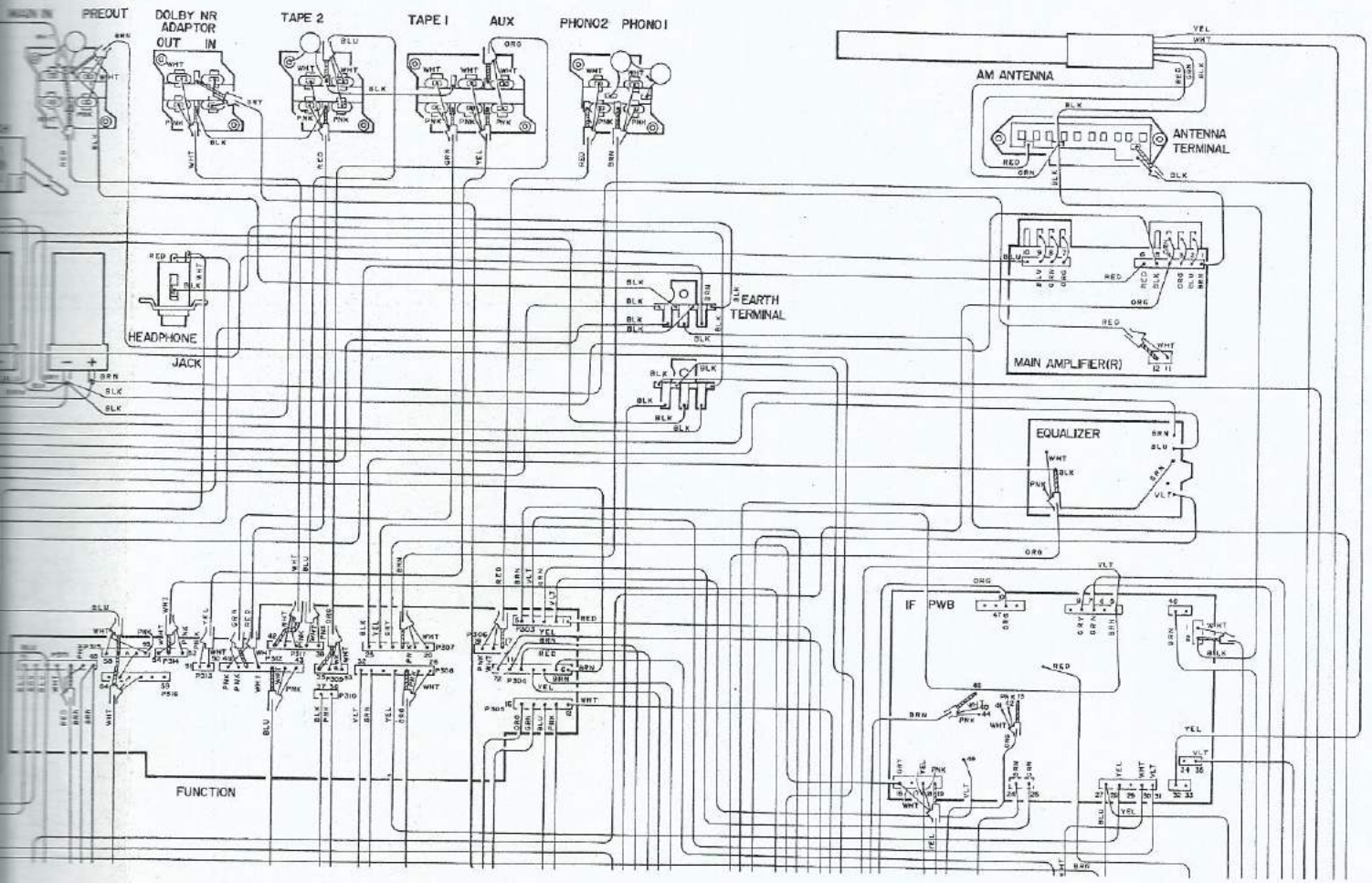
Failure (broken) of
cable
between fluorescent
light and driver
PC board
Failure of IC451

Failure of fluorescent
display (heater)
Failure of IC451

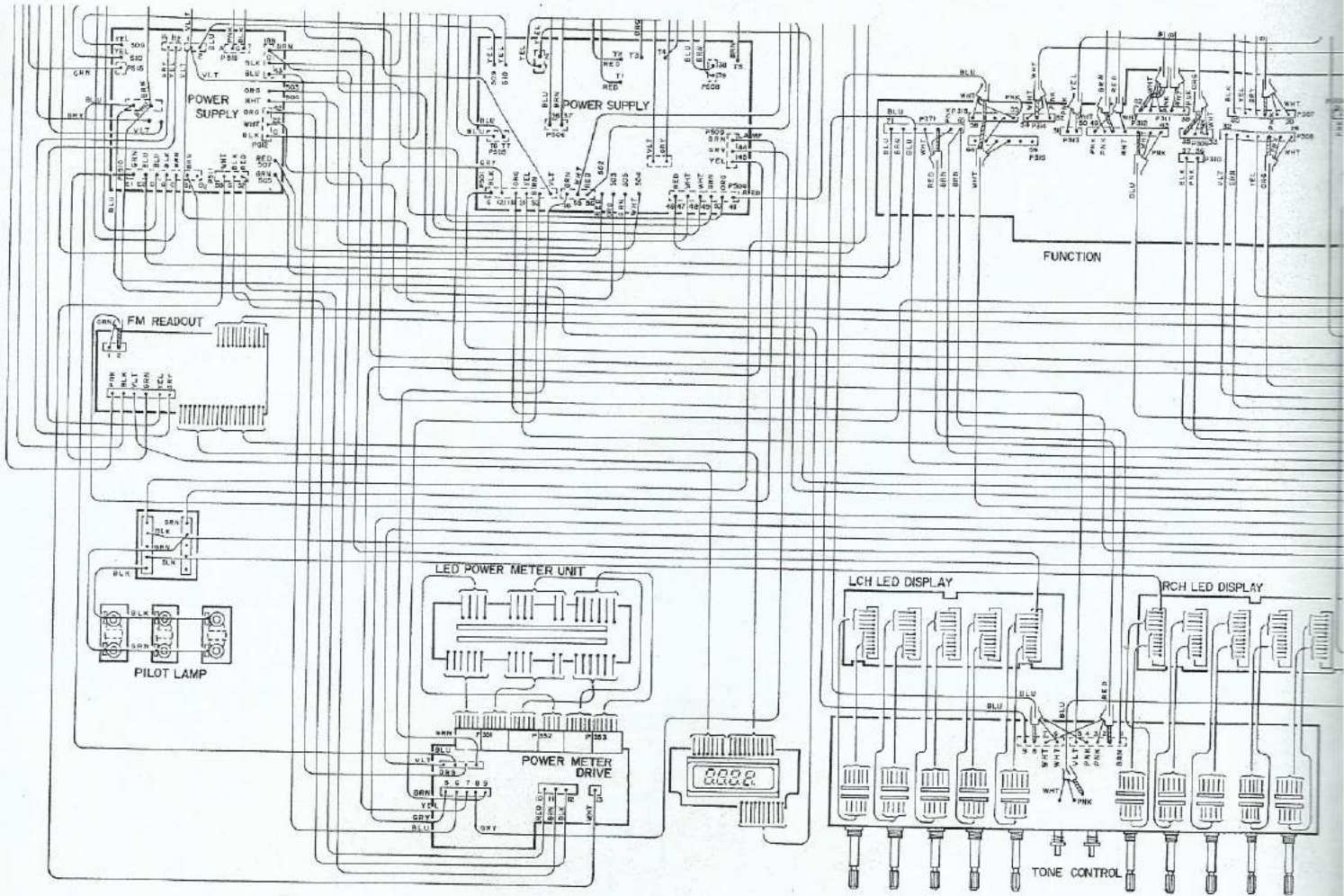
Failure of function SW
Failure of TR451
Failure of TR452

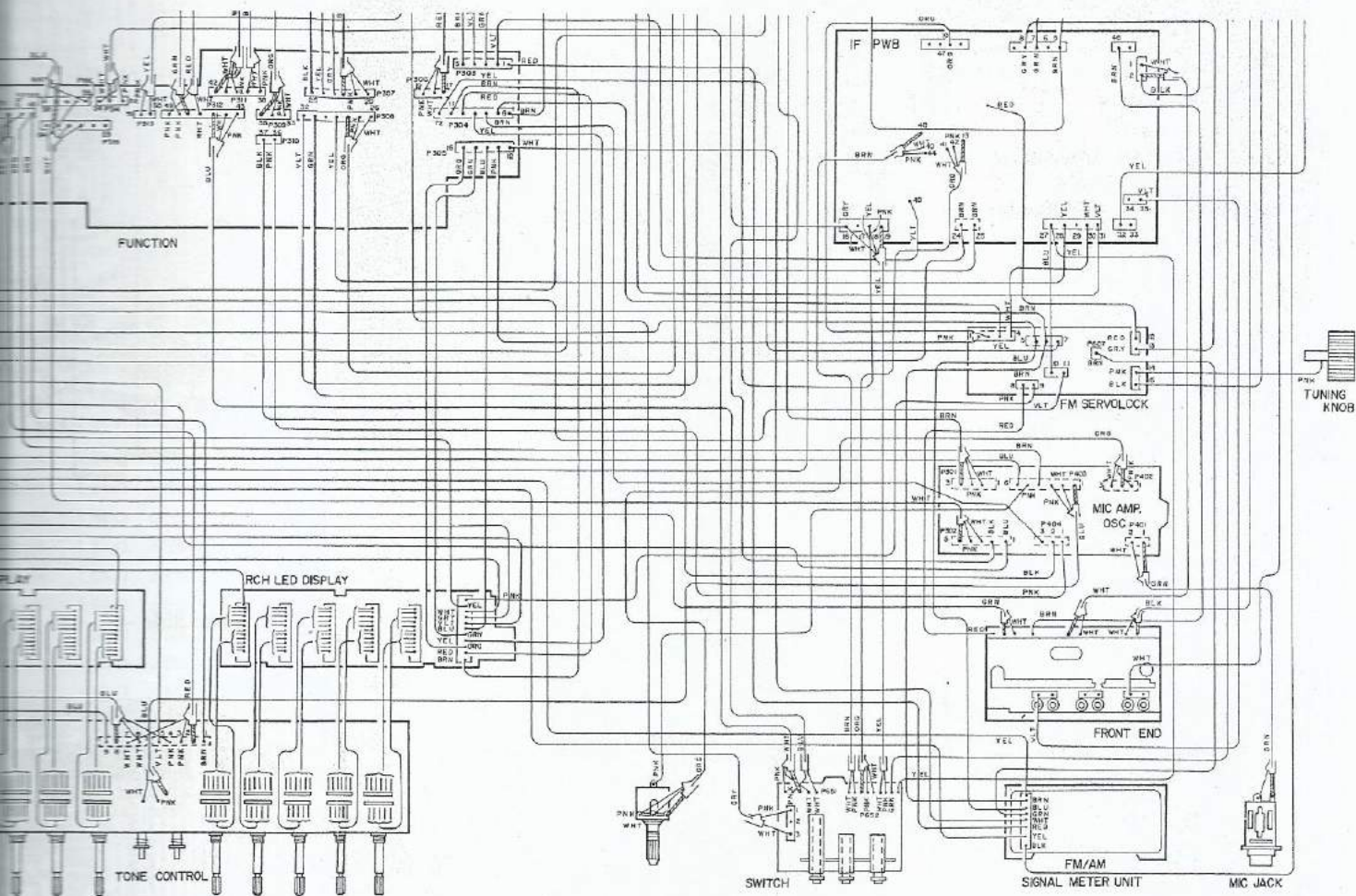
Wiring Diagram (up side)





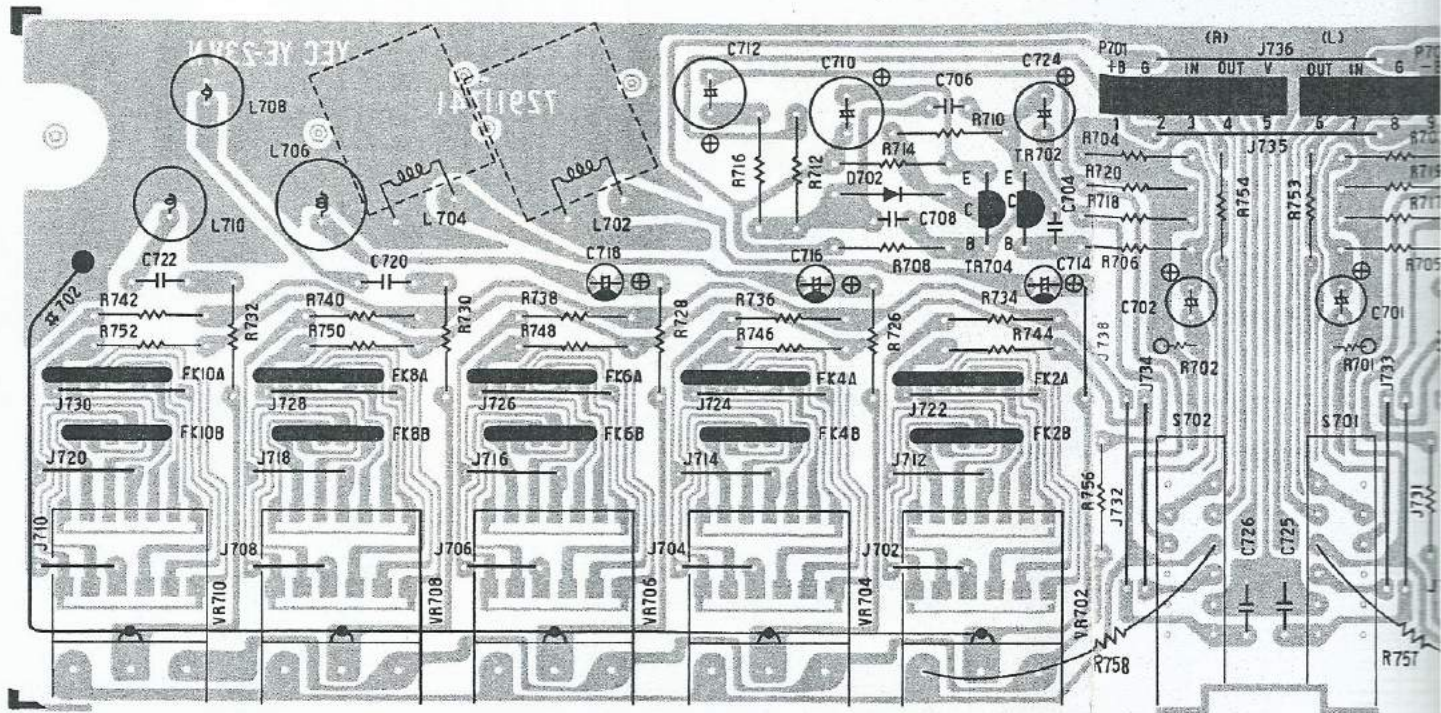
Wiring Diagram (down side)



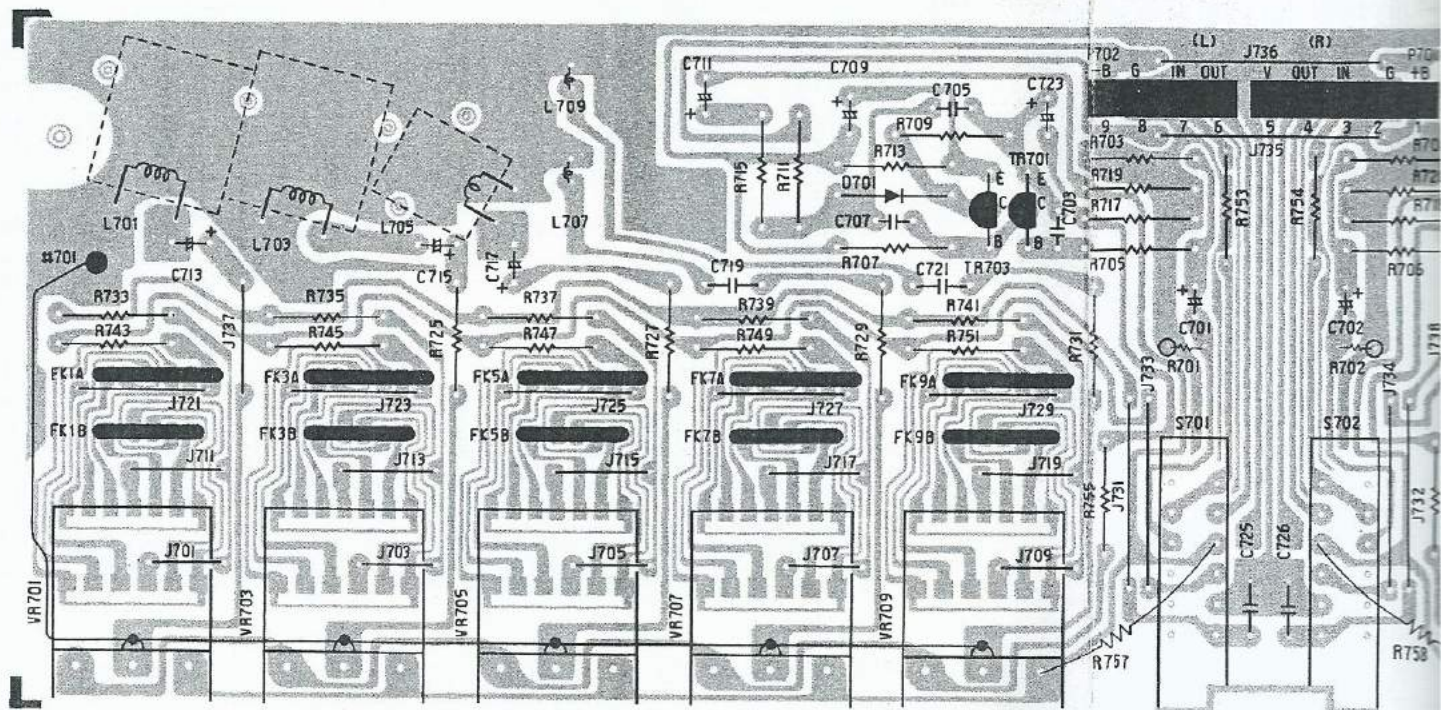


Tone Control P.C. Board

— Component Side —

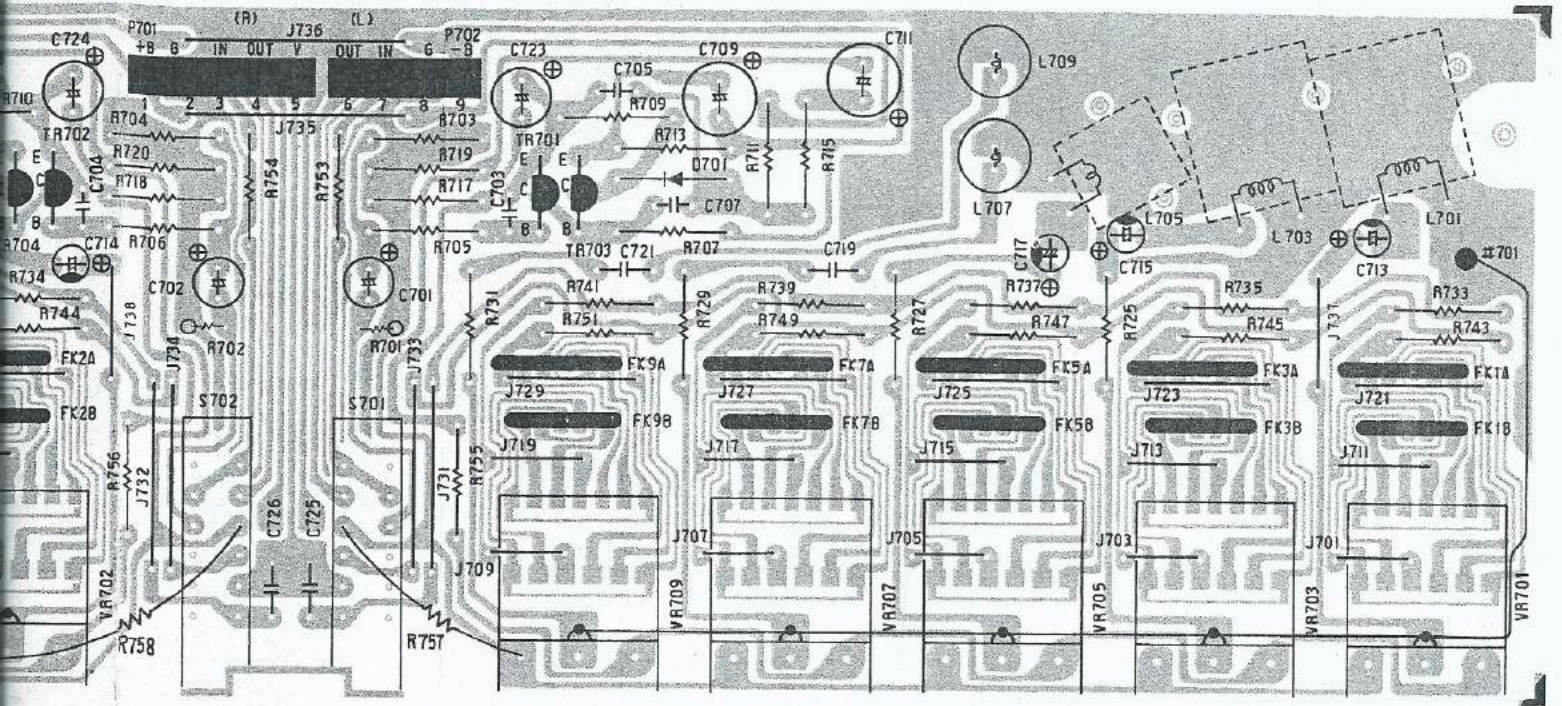


— Solder Side —

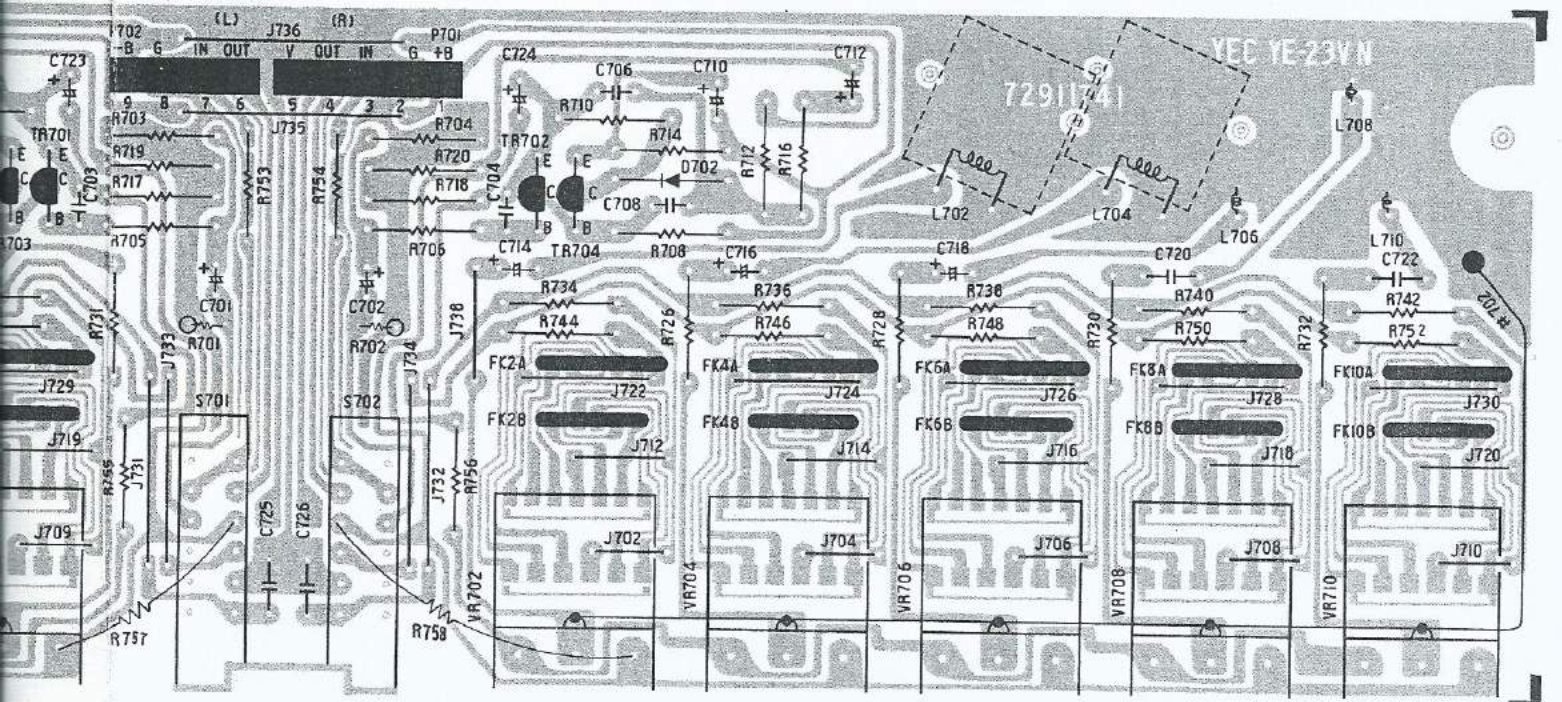


Tone Control P.C. Board

— Component Side —



— Solder Side —



Tone Control P.C. Board

Ref. No.	JCPenney Part No.	Supplier Part No.	Description
	1120-5192	73099059	Connector Wire 11P
	1120-5200	73099060	Connector Wire 11P
	1120-5218	73099061	Connector Wire 12P
	1120-5226	73099062	Connector Wire 12P
C701	1095-1515	43980057	C, Elec. 50V 4.7 μ F
C702	1095-1515	43980057	C, Elec. 50V 4.7 μ F
C703	1104-9359	42130208	C, Ceramic 50V 390pF \pm 10%
C704	1104-9359	42130208	C, Ceramic 50V 390pF \pm 10%
C705	1114-6027	42331062	C, Ceramic 50V 27pF \pm 10%
C706	1114-6027	42331062	C, Ceramic 50V 27pF \pm 10%
C707	1114-0001	42331003	C, Ceramic 50V 3pF \pm 10%
C708	1114-0001	42331003	C, Ceramic 50V 3pF \pm 10%
C709	1095-1630	43991046	C, Elec. 25V 47 μ F
C710	1095-1630	43991046	C, Elec. 25V 47 μ F
C711	1115-9472	43980030	C, Elec. 25V 10 μ F
C712	1115-9472	43980030	C, Elec. 25V 10 μ F
C713	1114-0118	43950093	C, Tantalum 35V 3.3 μ F \pm 10%
C714	1114-0118	43950093	C, Tantalum 35V 3.3 μ F \pm 10%
C715	1114-0100	43950089	C, Tantalum 35V 0.68 μ F \pm 10%
C716	1114-0100	43950089	C, Tantalum 35V 0.68 μ F \pm 10%
C717	1114-0092	43950085	C, Tantalum 35V 0.15 μ F \pm 10%
C718	1114-0092	43950085	C, Tantalum 35V 0.15 μ F \pm 10%
C719	1101-2689	42754070	C, Mylar 50V 0.039 μ F \pm 10%
C720	1101-2689	42754070	C, Mylar 50V 0.039 μ F \pm 10%
C721	1101-2663	42754063	C, Mylar 50V 0.01 μ F \pm 10%
C722	1101-2663	42754063	C, Mylar 50V 0.01 μ F \pm 10%
C723	1095-1630	43991046	C, Elec. 25V 47 μ F
C724	1095-1630	43991046	C, Elec. 25V 47 μ F
C725	1101-2713	42754075	C, Mylar 50V 0.1 μ F \pm 10%
C726	1101-2713	42754075	C, Mylar 50V 0.1 μ F \pm 10%
D701	1095-0772	36001009	Diode Si, 1S-2473
D702	1095-0772	36001009	Diode Si, 1S-2473
L701	1120-3940	61911089	Filter Coil 2H \pm 10%
L702	1120-3940	61911089	Filter Coil 2H \pm 10%
L703	1120-3957	61911090	Filter Coil 660mH \pm 10%
L704	1120-3957	61911090	Filter Coil 660mH \pm 10%
L705	1120-3965	61911091	Filter Coil 160mH \pm 10%
L706	1120-3965	61911091	Filter Coil 160mH \pm 10%
L707	1120-3973	61911092	Filter Coil 39mH \pm 10%
L708	1120-3973	61911092	Filter Coil 39mH \pm 10%
L709	1103-5763	61911016	Filter Coil 10mH \pm 10%
L710	1103-5763	61911016	Filter Coil 10mH \pm 10%
R701	1095-3693	40112225	R, Carbon 150k Ω \pm 5% $\frac{1}{4}$ W
R702	1095-3693	40112225	R, Carbon 150k Ω \pm 5% $\frac{1}{4}$ W
R703	1095-3610	40102227	R, Carbon 180k Ω \pm 5% $\frac{1}{4}$ W
R704	1095-3610	40102227	R, Carbon 180k Ω \pm 5% $\frac{1}{4}$ W
R705	1100-8562	40102173	R, Carbon 1k Ω \pm 5% $\frac{1}{4}$ W
R706	1100-8562	40102173	R, Carbon 1k Ω \pm 5% $\frac{1}{4}$ W
R707	1095-1085	40102233	R, Carbon 330k Ω \pm 5% $\frac{1}{4}$ W
R708	1095-1085	40102233	R, Carbon 330k Ω \pm 5% $\frac{1}{4}$ W
R709	1100-8224	40102191	R, Carbon 5.6k Ω \pm 5% $\frac{1}{4}$ W
R710	1100-8224	40102191	R, Carbon 5.6k Ω \pm 5% $\frac{1}{4}$ W
R711	1099-9712	40102187	R, Carbon 3.9k Ω \pm 5% $\frac{1}{4}$ W
R712	1099-9712	40102187	R, Carbon 3.9k Ω \pm 5% $\frac{1}{4}$ W
R713	1095-1044	40102177	R, Carbon 1.5k Ω \pm 5% $\frac{1}{4}$ W
R714	1095-1044	40102177	R, Carbon 1.5k Ω \pm 5% $\frac{1}{4}$ W
R715	1100-8224	40102191	R, Carbon 5.6k Ω \pm 5% $\frac{1}{4}$ W
R716	1100-8224	40102191	R, Carbon 5.6k Ω \pm 5% $\frac{1}{4}$ W
R717	1100-8257	40102201	R, Carbon 15k Ω \pm 5% $\frac{1}{4}$ W
R718	1100-8257	40102201	R, Carbon 15k Ω \pm 5% $\frac{1}{4}$ W
R719	1100-8273	40102213	R, Carbon 47k Ω \pm 5% $\frac{1}{4}$ W
R720	1100-8273	40102213	R, Carbon 47k Ω \pm 5% $\frac{1}{4}$ W
R725	1100-8547	40102161	R, Carbon 330 Ω \pm 5% $\frac{1}{4}$ W
R726	1100-8547	40102161	R, Carbon 330 Ω \pm 5% $\frac{1}{4}$ W
R727	1095-1036	40102163	R, Carbon 390 Ω \pm 5% $\frac{1}{4}$ W
R728	1095-1036	40102163	R, Carbon 390 Ω \pm 5% $\frac{1}{4}$ W
R729	1099-9696	40102165	R, Carbon 470 Ω \pm 5% $\frac{1}{4}$ W
R730	1099-9696	40102165	R, Carbon 470 Ω \pm 5% $\frac{1}{4}$ W
R731	1099-9704	40102166	R, Carbon 510 Ω \pm 5% $\frac{1}{4}$ W
R732	1099-9704	40102166	R, Carbon 510 Ω \pm 5% $\frac{1}{4}$ W
R733	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R734	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R735	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R736	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R737	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R738	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R739	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R740	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R741	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R742	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R743	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R744	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R745	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R746	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R747	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R748	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R749	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R750	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R751	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R752	1100-8570	40102179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
R753	1095-1051	40102183	R, Carbon 2.7k Ω \pm 5% $\frac{1}{4}$ W
R754	1095-1051	40102183	R, Carbon 2.7k Ω \pm 5% $\frac{1}{4}$ W
R755	1100-8539	40102153	R, Carbon 150 Ω \pm 5% $\frac{1}{4}$ W
R756	1100-8539	40102153	R, Carbon 150 Ω \pm 5% $\frac{1}{4}$ W
S701	1120-3999	65904100	Push Switch (2 Section)
TR701	1101-9411	35901405	Transistor 2SA-872E
TR702	1101-9411	35901405	Transistor 2SA-872E
TR703	1101-9437	35946006	Transistor 2SC-1775F
TR704	1101-9437	35946006	Transistor 2SC-1775F
VR701	1105-5795	41950286	R, Variable with Switch 200k Ω
VR702	1105-5795	41950286	R, Variable with Switch 200k Ω
VR703	1105-5795	41950286	R, Variable with Switch 200k Ω
VR704	1105-5795	41950286	R, Variable with Switch 200k Ω
VR705	1105-5795	41950286	R, Variable with Switch 200k Ω
VR706	1105-5795	41950286	R, Variable with Switch 200k Ω
VR707	1105-5795	41950286	R, Variable with Switch 200k Ω
VR708	1105-5795	41950286	R, Variable with Switch 200k Ω
VR709	1105-5795	41950286	R, Variable with Switch 200k Ω
VR710	1105-5795	41950286	R, Variable with Switch 200k Ω
	1121-1588	87324J01	PCB Tone Control Ass'y ①

① Field repair. Don't exchange.

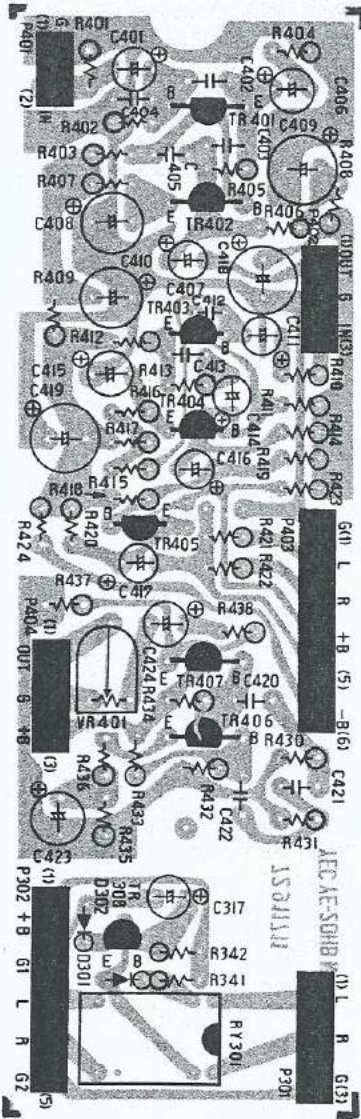
Main Amp P.C. Board (For L and R channels)

Ref. No.	JCPanney Part No.	Supplier Part No.	Description	Ref. No.	JCPanney Part No.	Supplier Part No.	Description
C201	1114-0662	43980053	C, Elec. 50V 1 μ F	R230	1099-9928	40912149	R, Carbon 100 Ω \pm 5% $\frac{1}{4}$ W
C202	1102-1417	42331045	C, Ceramic 50V 100pF \pm 5%	R231	1099-9928	40912149	R, Carbon 100 Ω \pm 5% $\frac{1}{4}$ W
C203	1114-0084	43910034	C, Elec. 80V 220 μ F	R232	1104-9798	40982199	R, Carbon 12k Ω \pm 5% $\frac{1}{4}$ W
C204	1114-0084	43910034	C, Elec. 80V 220 μ F	R233	1104-9798	40982199	R, Carbon 12k Ω \pm 5% $\frac{1}{4}$ W
C205	1095-4014	43991047	C, Elec. 25V 100 μ F	R234	1104-9806	40982201	R, Carbon 15k Ω \pm 5% $\frac{1}{4}$ W
C206	1114-0068	42754054	C, Mylar 50V 1800pF \pm 10%	R235	1104-9806	40982201	R, Carbon 15k Ω \pm 5% $\frac{1}{4}$ W
C207	1114-0019	42331031	C, Ceramic 50V 27pF \pm 5%	R236	1099-9944	40912173	R, Carbon 1.0k Ω \pm 5% $\frac{1}{2}$ W
C208	1105-9367	42203337	C, Ceramic 500V 47pF \pm 5%	R237	1104-6356	40982179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
C211	1114-0597	42975003	C, Poly. 100V 0.68 μ F \pm 10%	R238	1104-6356	40982179	R, Carbon 1.8k Ω \pm 5% $\frac{1}{4}$ W
C212	1105-5837	42039551	C, Ceramic 500V 100pF \pm 10%	R239	1104-6208	40982155	R, Carbon 180 Ω \pm 5% $\frac{1}{4}$ W
C213	1102-1417	42331045	C, Ceramic 50V 100pF \pm 5%	R240	1104-6208	40982155	R, Carbon 180 Ω \pm 5% $\frac{1}{4}$ W
C214	1102-1417	42331045	C, Ceramic 50V 100pF \pm 5%	R241	1104-2686	40982146	R, Carbon 75 Ω \pm 5% $\frac{1}{4}$ W
C215	1095-1580	43991028	C, Elec. 16V 10 μ F	R242	1104-2686	40982146	R, Carbon 75 Ω \pm 5% $\frac{1}{4}$ W
C216	1095-1580	43991028	C, Elec. 16V 10 μ F	R243	1104-6147	40912149	R, Carbon 100 Ω \pm 5% $\frac{1}{2}$ W
C217	1105-5837	42039551	C, Ceramic 500V 100pF \pm 10%	R244	1104-6147	40912149	R, Carbon 100 Ω \pm 5% $\frac{1}{2}$ W
C218	1105-5837	42039551	C, Ceramic 500V 100pF \pm 10%	R245	1099-9993	40970002	R, Metal 0.33 Ω \pm 10% 5W
C219	1101-2663	42754063	C, Mylar 50V 0.01 μ F \pm 10%	R246	1099-9993	40970002	R, Metal 0.33 Ω \pm 10% 5W
C222	1101-2697	42754071	C, Mylar 50V 0.047 μ F \pm 10%	R247	1099-9886	40912117	R, Carbon 4.7 Ω \pm 5% $\frac{1}{2}$ W
D201	1095-1770	36902033	Diode Zener, RD-24EB	R248	1099-9886	40912117	R, Carbon 4.7 Ω \pm 5% $\frac{1}{2}$ W
D202	1095-0772	36001009	Diode Si, 1S-2473	R249	1099-9878	40352125	R, Metal 10 Ω \pm 5% 2W
D203	1095-0558	36901012	Diode Si, STV-3H (Y)	R250	1099-9878	40352125	R, Metal 10 Ω \pm 5% 2W
D204	1095-0558	36901012	Diode Si, STV-3H (Y)	TH201	1099-9654	38902003	Thermistor 75 Ω
D205	1099-9647	38005004	Diode Si, VD-1212	TR201	1099-8888	37901048	IC μ PA-63H (1) L
D206	1095-0772	36001009	Diode Si, 1S-2473	or	1121-1638	37901049	IC μ PA-63H (1) M
D207	1095-0772	36001009	Diode Si, 1S-2473	TR202	1099-8763	35947405	Transistor 2SC-1845E
D208	1095-0772	36001009	Diode Si, 1S-2473	or	1121-1679	35947406	Transistor 2SC-1845F
D209	1095-0772	36001009	Diode Si, 1S-2473	TR203	1099-8763	35947405	Transistor 2SC-1845E
L201	1120-3981	61911097	Filter Coil 1.0 μ H	or	1121-1679	35947406	Transistor 2SC-1845F
R201	1104-9871	40982233	R, Carbon 330k Ω \pm 5% $\frac{1}{4}$ W	TR204	1099-8763	35947405	Transistor 2SC-1845E
R202	1104-6299	40982173	R, Carbon 1.0k Ω \pm 5% $\frac{1}{4}$ W	or	1121-1679	35947406	Transistor 2SC-1845F
R203	1104-9830	40982215	R, Carbon 56k Ω \pm 5% $\frac{1}{4}$ W	TR205	1099-8664	35004112	Transistor 2SA-916L
R204	1099-9951	40912187	R, Carbon 3.9k Ω \pm 5% $\frac{1}{4}$ W	or	1099-8714	35900912	Transistor 2SA-915L
R205	1104-9780	40982185	R, Carbon 3.3k Ω \pm 5% $\frac{1}{4}$ W	TR206	1095-2638	35003517	Transistor 2SA-733Q
R206	1104-9780	40982185	R, Carbon 3.3k Ω \pm 5% $\frac{1}{4}$ W	TR207	1099-8664	35004112	Transistor 2SA-916L
R207	1104-6147	40982149	R, Carbon 100 Ω \pm 5% $\frac{1}{4}$ W	or	1099-8714	35900912	Transistor 2SA-915L
R208	1104-6147	40982149	R, Carbon 100 Ω \pm 5% $\frac{1}{4}$ W	TR208	1099-8706	35053012	Transistor 2SC-1941L
R209	1104-9814	40982208	R, Carbon 30k Ω \pm 5% $\frac{1}{4}$ W	or	1095-1721	35944012	Transistor 2SC-1940L
R210	1104-6323	40982178	R, Carbon 1.6k Ω \pm 5% $\frac{1}{4}$ W	TR209	1099-8706	35053012	Transistor 2SC-1941L
R211	1104-6323	40982178	R, Carbon 1.6k Ω \pm 5% $\frac{1}{4}$ W	or	1095-1721	35944012	Transistor 2SC-1940L
R212	1104-6265	40982163	R, Carbon 390 Ω \pm 5% $\frac{1}{4}$ W	TR210	1095-2638	35003517	Transistor 2SA-733Q
R213	1104-6299	40982173	R, Carbon 1.0k Ω \pm 5% $\frac{1}{4}$ W	TR211	1099-8680	35047217	Transistor 2SC-945Q
R214	1104-9814	40982208	R, Carbon 30k Ω \pm 5% $\frac{1}{4}$ W	TR212	1099-8680	35047217	Transistor 2SC-945Q
R215	1104-6299	40982173	R, Carbon 1.0k Ω \pm 5% $\frac{1}{4}$ W	TR213	1095-2638	35003517	Transistor 2SA-733Q
R216	1104-6299	40982173	R, Carbon 1.0k Ω \pm 5% $\frac{1}{4}$ W	TR214	1099-8680	35047217	Transistor 2SC-945Q
R217	1104-6141	40982147	R, Carbon 82 Ω \pm 5% $\frac{1}{4}$ W	TR215	1095-2638	35003517	Transistor 2SA-733Q
R218	1104-6141	40982147	R, Carbon 82 Ω \pm 5% $\frac{1}{4}$ W	TR216	1099-8706	35053012	Transistor 2SC-1941L
R219	1122-6321	40930040	R, Metal 22k Ω \pm 5% 1W	or	1095-1721	35944012	Transistor 2SC-1940L
R220	1099-9910	40912147	R, Carbon 82 Ω \pm 5% $\frac{1}{2}$ W	TR217	1099-8664	35004112	Transistor 2SA-916L
R221	1099-9902	40912143	R, Carbon 56 Ω \pm 5% $\frac{1}{2}$ W	or	1099-8714	35900912	Transistor 2SA-915L
R222	1099-9902	40912143	R, Carbon 56 Ω \pm 5% $\frac{1}{2}$ W	TR218	1099-8789	35963111	Transistor 2SD-381K (G-21)
R223	1122-6354	40352195	R, Metal 8.2k Ω \pm 5% 1W	TR219	1099-8755	35922311	Transistor 2SB-536K (G-21)
R224	1099-9936	40912154	R, Carbon 160 Ω \pm 5% $\frac{1}{2}$ W	VR201	1105-5829	41950289	R, Variable 100 Ω
R225	1099-9936	40912154	R, Carbon 160 Ω \pm 5% $\frac{1}{2}$ W	VR202	1105-5829	41950289	R, Variable 100 Ω
R226	1104-9806	40982201	R, Carbon 15k Ω \pm 5% $\frac{1}{4}$ W		1121-1505	87324A01	PCB Main Amp. Ass'y ①
R227	1104-9863	40982230	R, Carbon 240k Ω \pm 5% $\frac{1}{4}$ W				
R228	1099-9894	40912141	R, Carbon 47 Ω \pm 5% $\frac{1}{2}$ W				
R229	1099-9894	40912141	R, Carbon 47 Ω \pm 5% $\frac{1}{2}$ W				

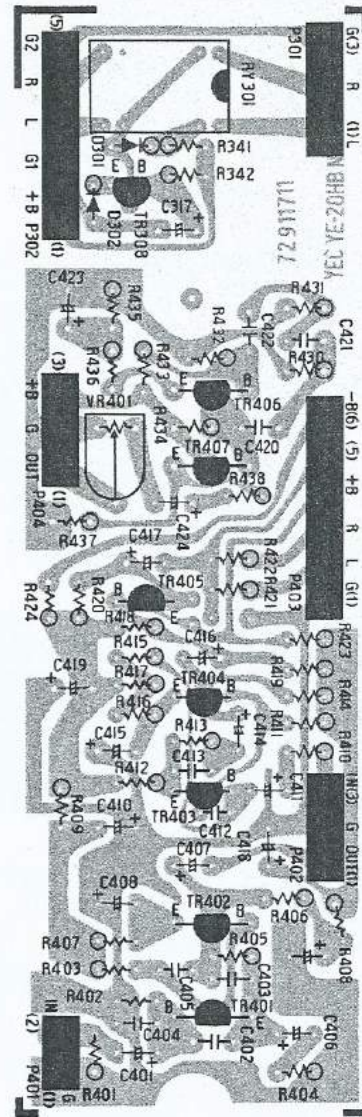
① Field repair. Don't exchange.

Mic & OSC P.C. Board

- Component Side -



- Solder Side -



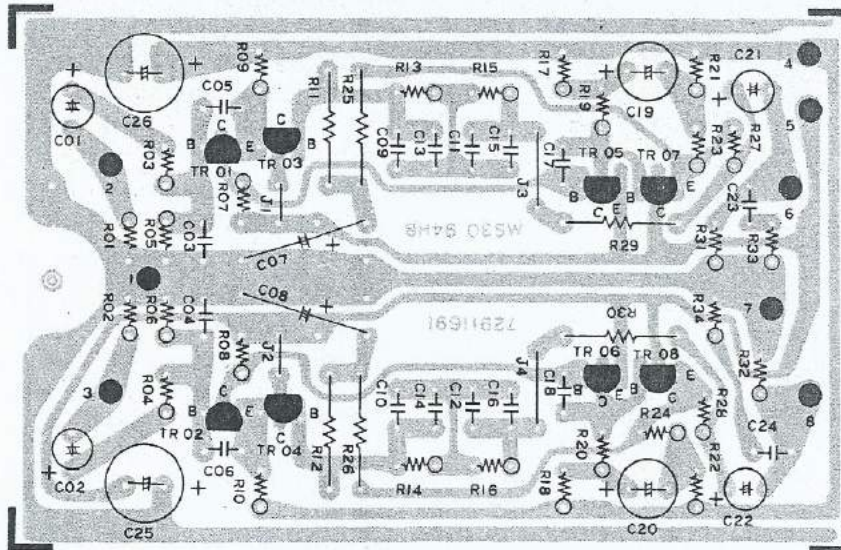
Mic. and OSC P.C. Board

Ref. No.	JCPenney Part No.	Supplier Part No.	Description	Ref. No.	JCPenney Part No.	Supplier Part No.	Description
C317	1095-1630	43991046	C, Elec. 25V 47 μ F	R431	1100-8414	40112197	R, Carbon 10k Ω \pm 5% $\frac{1}{4}$ W
C401	1114-0662	43980053	C, Elec. 50V 1 μ F	R432	1100-8448	40112201	R, Carbon 15k Ω \pm 5% $\frac{1}{4}$ W
C402	1095-3768	42331065	C, Ceramic 50V 47pF \pm 10%	R433	1100-8497	40112217	R, Carbon 68k Ω \pm 5% $\frac{1}{4}$ W
C403	1114-0043	42331069	C, Ceramic 50V 100pF \pm 10%	R434	1100-8414	40112197	R, Carbon 10k Ω \pm 5% $\frac{1}{4}$ W
C404	1114-0043	42331069	C, Ceramic 50V 100pF \pm 10%	R435	1100-8398	40112185	R, Carbon 3.3k Ω \pm 5% $\frac{1}{4}$ W
C405	1114-0043	42331069	C, Ceramic 50V 100pF \pm 10%	R436	1099-9761	40112147	R, Carbon 82 Ω \pm 5% $\frac{1}{4}$ W
C406	1120-3882	43991069	C, Elec. 50V 4.7 μ F	R437	1100-8406	40112189	R, Carbon 4.7k Ω \pm 5% $\frac{1}{4}$ W
C407	1095-2273	43981067	C, Elec. 50V 2.2 μ F	R438	1099-9795	40112191	R, Carbon 5.6k Ω \pm 5% $\frac{1}{4}$ W
C408	1114-4540	43991045	C, Elec. 25V 33 μ F	RY301	1120-4039	65910047	Relay PRB-2
C409	1120-3890	43993041	C, Elec. 25V 100 μ F	TR308	1099-8672	35047216	Transistor 2SC-945P
C410	1120-3890	43993041	C, Elec. 25V 100 μ F	or	1099-8680	35047217	Transistor 2SC-945Q
C411	1114-0662	43980053	C, Elec. 50V 1 μ F	TR401	1099-8722	35901705	Transistor 2SA-991E
C412	1095-3768	42331065	C, Ceramic 50V 47pF \pm 10%	or	1099-8730	35901706	Transistor 2SA-991F
C413	1114-0035	42331063	C, Ceramic 50V 33pF \pm 10%	TR402	1101-9437	35946006	Transistor 2SC-1775F
C414	1114-0704	43991067	C, Elec. 50V 2.2 μ F	TR403	1101-9437	35946006	Transistor 2SC-1775F
C415	1114-4540	43991045	C, Elec. 25V 33 μ F	TR404	1101-9437	35946006	Transistor 2SC-1775F
C416	1114-4516	43970026	C, Elec. 50V 0.1 μ F	TR405	1099-8672	35047216	Transistor 2SC-945P
C417	1095-1614	43991043	C, Elec. 25V 10 μ F	TR406	1094-8354	35047218	Transistor 2SC-945R
C418	1120-3890	43993041	C, Elec. 25V 100 μ F	or	1099-8680	35047217	Transistor 2SC-945Q
C419	1120-3890	43993041	C, Elec. 25V 100 μ F	TR407	1094-8354	35047218	Transistor 2SC-945R
C420	1114-6248	42754064	C, Mylar 50V 0.012 μ F \pm 10%	or	1099-8680	35047217	Transistor 2SC-945Q
C421	1114-6248	42754064	C, Mylar 50V 0.012 μ F \pm 10%	VR401	1103-6050	41950025	R, Variable 5k Ω
C422	1114-6248	42754064	C, Mylar 50V 0.012 μ F \pm 10%		1121-1554	87324F01	PCB Mic and OSC Ass'y ①
C423	1095-1598	43991031	C, Elec. 16V 47 μ F				
C424	1095-1580	43991028	C, Elec. 16V 10 μ F				
D301	1095-0772	36001009	Diode Si, 1S-2473				
D302	1099-8805	36003077	Diode Zener, RD5.1EB				
R341	1100-8315	40112149	R, Carbon 100 Ω \pm 5% $\frac{1}{4}$ W				
R342	1095-3685	40112223	R, Carbon 120k Ω \pm 5% $\frac{1}{4}$ W				
R401	1100-8422	40112199	R, Carbon 12k Ω \pm 5% $\frac{1}{4}$ W				
R402	1100-8471	40112213	R, Carbon 47k Ω \pm 5% $\frac{1}{4}$ W				
R403	1099-9811	40112227	R, Carbon 180k Ω \pm 5% $\frac{1}{4}$ W				
R404	1100-8380	40112181	R, Carbon 2.2k Ω \pm 5% $\frac{1}{4}$ W				
R405	1100-8497	40112217	R, Carbon 68k Ω \pm 5% $\frac{1}{4}$ W				
R406	1100-8448	40112201	R, Carbon 15k Ω \pm 5% $\frac{1}{4}$ W				
R407	1095-2075	40112183	R, Carbon 2.7k Ω \pm 5% $\frac{1}{4}$ W				
R408	1100-8331	40112157	R, Carbon 220 Ω \pm 5% $\frac{1}{4}$ W				
R409	1100-8331	40112157	R, Carbon 220 Ω \pm 5% $\frac{1}{4}$ W				
R410	1100-8364	40112173	R, Carbon 1k Ω \pm 5% $\frac{1}{4}$ W				
R411	1095-1150	40112219	R, Carbon 82k Ω \pm 5% $\frac{1}{4}$ W				
R412	1100-8364	40112173	R, Carbon 1k Ω \pm 5% $\frac{1}{4}$ W				
R413	1099-9803	40112211	R, Carbon 39k Ω \pm 5% $\frac{1}{4}$ W				
R414	1100-8414	40112197	R, Carbon 10k Ω \pm 5% $\frac{1}{4}$ W				
R415	1095-1150	40112219	R, Carbon 82k Ω \pm 5% $\frac{1}{4}$ W				
R416	1099-9787	40112187	R, Carbon 3.9k Ω \pm 5% $\frac{1}{4}$ W				
R417	1099-9779	40112167	R, Carbon 560 Ω \pm 5% $\frac{1}{4}$ W				
R418	1100-8505	40112221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W				
R419	1100-8497	40112217	R, Carbon 68k Ω \pm 5% $\frac{1}{4}$ W				
R420	1095-1127	40112193	R, Carbon 6.8k Ω \pm 5% $\frac{1}{4}$ W				
R421	1100-8414	40112197	R, Carbon 10k Ω \pm 5% $\frac{1}{4}$ W				
R422	1100-8414	40112197	R, Carbon 10k Ω \pm 5% $\frac{1}{4}$ W				
R423	1100-8331	40112157	R, Carbon 220 Ω \pm 5% $\frac{1}{4}$ W				
R424	1100-8331	40112157	R, Carbon 220 Ω \pm 5% $\frac{1}{4}$ W				
R430	1100-8414	40112197	R, Carbon 10k Ω \pm 5% $\frac{1}{4}$ W				

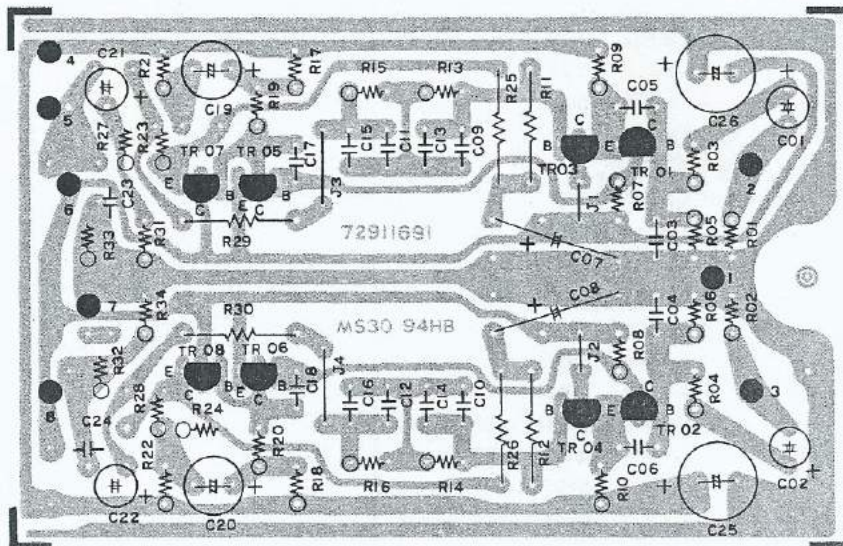
① Field repair. Don't exchange.

Equalizer P. C. Board

- Component Side -



- Solder Side -



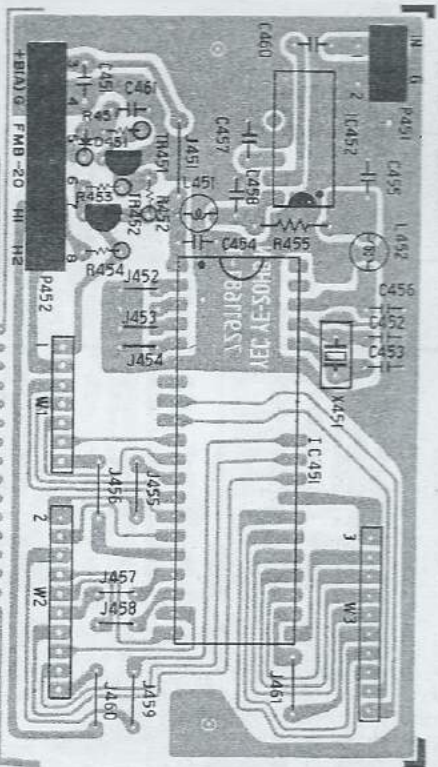
Equalizer P.C. Board

Ref. No.	JCPenney Part No.	Supplier Part No.	Description
C01	1095-1507	43980055	C, Elec. 50V 2.2 μ F
C02	1095-1507	43980055	C, Elec. 50V 2.2 μ F
C03	1102-1425	42332056	C, Ceramic 50V 82pF \pm 10%
C04	1102-1425	42332056	C, Ceramic 50V 82pF \pm 10%
C05	1095-2190	42332057	C, Ceramic 50V 100pF \pm 10%
C06	1095-2190	42332057	C, Ceramic 50V 100pF \pm 10%
C07	1095-2240	43021029	C, Elec. 16V 22 μ F
C08	1095-2240	43021029	C, Elec. 16V 22 μ F
C09	1095-2224	42975018	C, Poly. 50V 3300pF \pm 2%
C10	1095-2224	42975018	C, Poly. 50V 3300pF \pm 2%
C11	1095-2232	42975019	C, Poly. 50V 1000pF \pm 2%
C12	1095-2232	42975019	C, Poly. 50V 1000pF \pm 2%
C13	1095-2208	42970131	C, Poly. 50V 150pF \pm 5%
C14	1095-2208	42970131	C, Poly. 50V 150pF \pm 5%
C15	1095-2166	42332025	C, Ceramic 50V 15pF \pm 5%
C16	1095-2166	42332025	C, Ceramic 50V 15pF \pm 5%
C17	1095-2158	42332014	C, Ceramic 50V 9pF
C18	1095-2158	42332014	C, Ceramic 50V 9pF
C19	1095-1549	43991004	C, Elec. 6.3V 100 μ F
C20	1095-1549	43991004	C, Elec. 6.3V 100 μ F
C21	1095-1507	43980055	C, Elec. 50V 2.2 μ F
C22	1095-1507	43980055	C, Elec. 50V 2.2 μ F
C23	1102-1391	42130205	C, Ceramic 50V 220pF \pm 10%
C24	1102-1391	42130205	C, Ceramic 50V 220pF \pm 10%
C25	1095-1630	43991046	C, Elec. 25V 47 μ F
C26	1095-2299	43991048	C, Elec. 25V 220 μ F
R01	1100-8505	40112221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W
R02	1100-8505	40112221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W
R03	1095-3651	40112155	R, Carbon 180 Ω \pm 5% $\frac{1}{4}$ W
R04	1095-3651	40112155	R, Carbon 180 Ω \pm 5% $\frac{1}{4}$ W
R05	1100-8505	40112221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W
R06	1100-8505	40112221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W
R07	1095-2091	40112192	R, Carbon 6.2k Ω \pm 5% $\frac{1}{4}$ W
R08	1095-2091	40112192	R, Carbon 6.2k Ω \pm 5% $\frac{1}{4}$ W
R09	1100-8505	40112221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W
R10	1100-8505	40112221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W
R11	1099-9977	40930039	R, Metal 1.69k Ω \pm 1% $\frac{1}{4}$ W
R12	1099-9977	40930039	R, Metal 1.69k Ω \pm 1% $\frac{1}{4}$ W
R13	1095-2125	40930017	R, Metal 910k Ω \pm 2% $\frac{1}{4}$ W
R14	1095-2125	40930017	R, Metal 910k Ω \pm 2% $\frac{1}{4}$ W
R15	1095-2133	40930018	R, Metal 75k Ω \pm 1% $\frac{1}{4}$ W
R16	1095-2133	40930018	R, Metal 75k Ω \pm 1% $\frac{1}{4}$ W
R17	1095-2109	40112216	R, Carbon 62k Ω \pm 5% $\frac{1}{4}$ W
R18	1095-2109	40112216	R, Carbon 62k Ω \pm 5% $\frac{1}{4}$ W
R19	1100-8430	40112200	R, Carbon 13k Ω \pm 5% $\frac{1}{4}$ W
R20	1100-8430	40112200	R, Carbon 13k Ω \pm 5% $\frac{1}{4}$ W
R21	1095-2083	40112186	R, Carbon 3.6k Ω \pm 5% $\frac{1}{4}$ W
R22	1095-2083	40112186	R, Carbon 3.6k Ω \pm 5% $\frac{1}{4}$ W
R23	1095-2059	40112160	R, Carbon 300 Ω \pm 5% $\frac{1}{4}$ W
R24	1095-2059	40112160	R, Carbon 300 Ω \pm 5% $\frac{1}{4}$ W
R25	1094-8743	40102245	R, Carbon 1M Ω \pm 5% $\frac{1}{4}$ W
R26	1094-8743	40102245	R, Carbon 1M Ω \pm 5% $\frac{1}{4}$ W
R27	1095-2067	40112168	R, Carbon 620 Ω \pm 5% $\frac{1}{4}$ W
R28	1095-2067	40112168	R, Carbon 620 Ω \pm 5% $\frac{1}{4}$ W

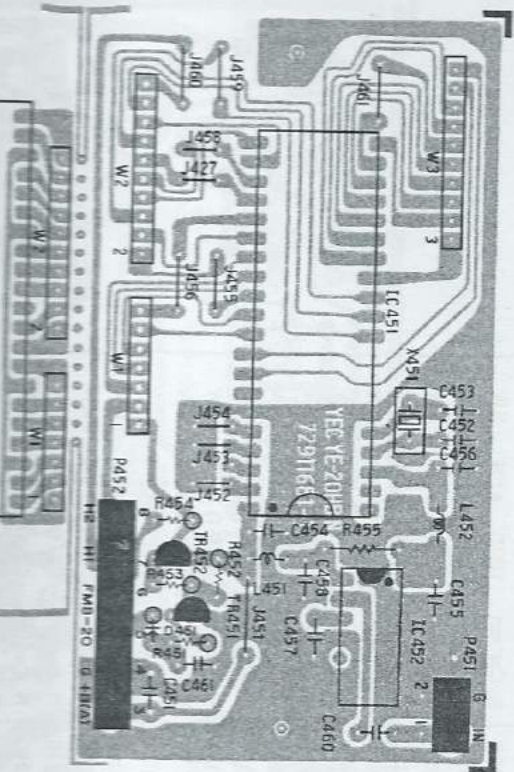
Ref. No.	JCPenney Part No.	Supplier Part No.	Description
R29	1095-2026	40102178	R, Carbon 1.6k Ω \pm 5% $\frac{1}{4}$ W
R30	1095-2026	40102178	R, Carbon 1.6k Ω \pm 5% $\frac{1}{4}$ W
R31	1100-8505	40112221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W
R32	1100-8505	40112221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W
R33	1100-8372	40112175	R, Carbon 1.2k Ω \pm 5% $\frac{1}{4}$ W
R34	1100-8372	40112175	R, Carbon 1.2k Ω \pm 5% $\frac{1}{4}$ W
TR01	1099-8722	35901705	Transistor 2SA-991E
or	1099-8730	35901706	Transistor 2SA-991F
TR02	1099-8722	35901705	Transistor 2SA-991E
or	1099-8730	35901706	Transistor 2SA-991F
TR03	1099-8722	35901705	Transistor 2SA-991E
or	1099-8730	35901706	Transistor 2SA-991F
TR04	1099-8722	35901705	Transistor 2SA-991E
or	1099-8730	35901706	Transistor 2SA-991F
TR05	1095-1739	35945807	Transistor 2SC-1313G
TR06	1095-1739	35945807	Transistor 2SC-1313G
TR07	1095-1689	35901106	Transistor 2SA-726F
TR08	1095-1689	35901106	Transistor 2SA-726F
	1121-1539	87324D01	PCB Equalizer Ass'y ①

① Field repair. Don't exchange.

— Component Side —



— Solder Side —

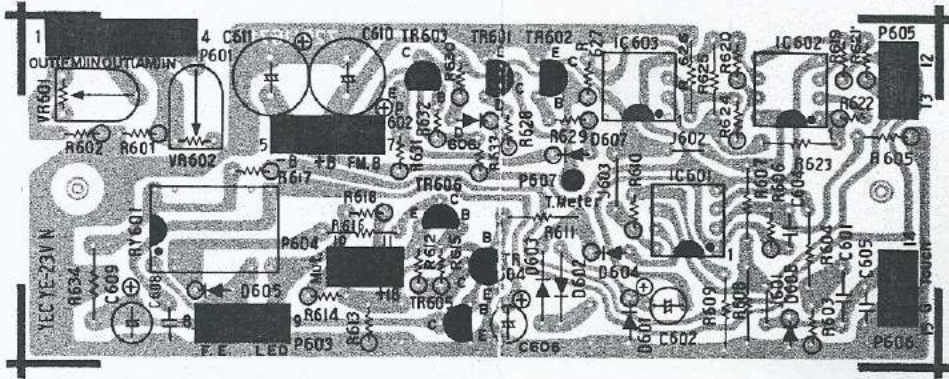


Ref. No.	JCFenny Part No.	Supplier Part No.	Description
C451	1102-1375	42110429	C. Ceramic 50V 0.022μF
C452	1114-0548	42332037	C. Ceramic 50V 47pF ±5%
C453	1114-0548	42332037	C. Ceramic 50V 47pF ±5%
C454	1102-1367	42110425	C. Ceramic 50V 0.01μF
C455	1114-0548	42332037	C. Ceramic 50V 47pF ±5%
C456	1114-0548	42332037	C. Ceramic 50V 47pF ±5%
C457	1102-1367	42110425	C. Ceramic 50V 0.01μF
C458	1102-1367	42110425	C. Ceramic 50V 0.01μF
C460	1114-0548	42332037	C. Ceramic 50V 47pF ±5%
C461	1102-1367	42110425	C. Ceramic 50V 0.01μF
D451	1099-8797	36003037	Diode Zener RD9.1EB
IC451	1099-8896	37903041	IC MSM-5525
IC452	1099-8904	37903042	IC MSL-2318
L451	1120-3924	61052031	Filter Coil 150μH
L452	1120-3924	61052031	Filter Coil 150μH
R451	1100-8471	40112213	R. Carbon 47kΩ ±5% 1/4W
R452	1100-3471	40112213	R. Carbon 47kΩ ±5% 1/4W
R453	1095-1143	40112209	R. Carbon 33kΩ ±5% 1/4W
R454	1100-8422	40112199	R. Carbon 12kΩ ±5% 1/4W
R455	1104-6380	40982181	R. Carbon 2.2kΩ ±5% 1/4W
TR451	1099-8680	35047217	Transistor 2SC-945Q
or	1094-8354	35047218	Transistor 2SC-945R
TR452	1099-8656	35003516	Transistor 2SA-733P
or	1095-2638	35003517	Transistor 2SA-733Q
W1	1120-4112	70490701	Jumper Wire
W2	1120-4120	70491001	Jumper Wire
W3	1120-4138	70491002	Jumper Wire
X451	1121-1695	64920125	X'tal 6.5536MHz
	1120-4096	67930001	Fluorescent Display
	1121-1620	87324N01	PCB FM Readout Assy

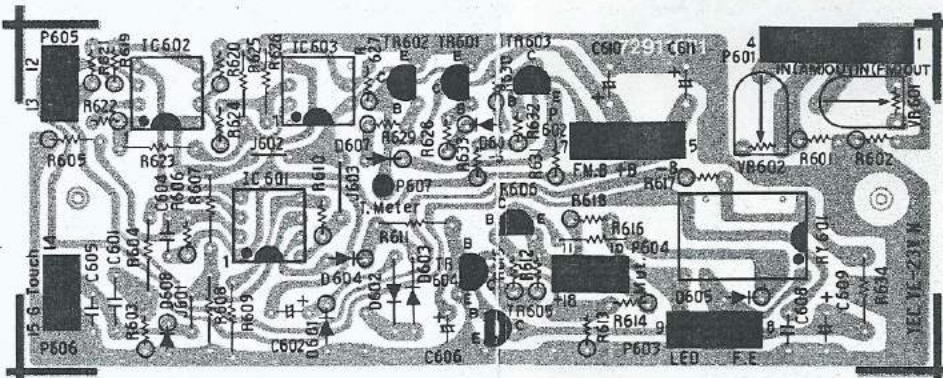
① Field repair. Don't exchange.

FM Servo Lock P.C. Board

— Component Side —



— Solder Side —



Servo Lock P.C. Board

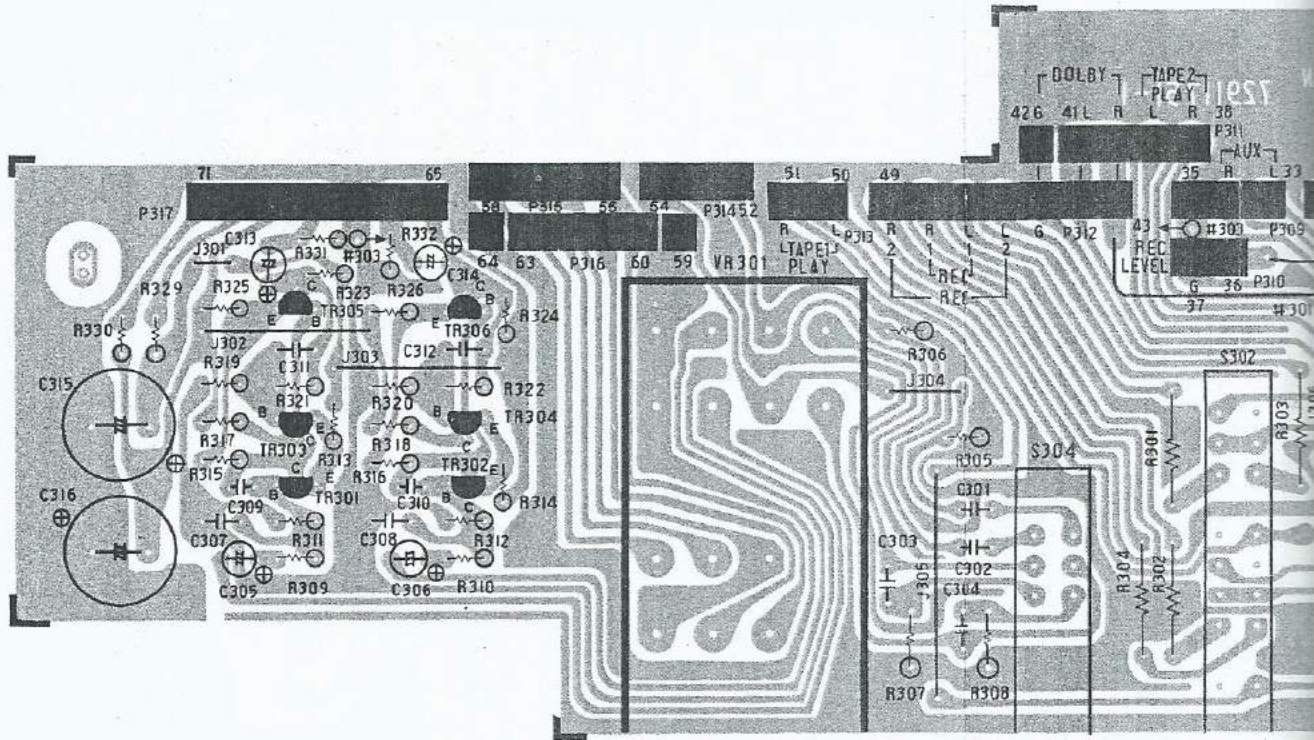
Ref. No.	JCPenney Part No.	Supplier Part No.	Description
C601	1101-2713	42754075	C, Mylar 50V 0.1 μ F \pm 10%
C602	1095-4022	43991055	C, Elec. 35V 4.7 μ F
C604	1102-1417	42331045	C, Ceramic 50V 100pF \pm 5%
C605	1102-1417	42331045	C, Ceramic 50V 100pF \pm 5%
C606	1095-4022	43991055	C, Elec. 35V 4.7 μ F
C608	1102-1367	42110425	C, Ceramic 50V 0.01 μ F
C609	1114-0704	43991067	C, Elec. 50V 2.2 μ F
C610	1095-1598	43991031	C, Elec. 16V 47 μ F
C611	1095-1598	43991031	C, Elec. 16V 47 μ F
D601	1095-0772	36001009	Diode Si, 1S-2473
D602	1095-0722	36001009	Diode Si, 1S-2473
D603	1095-0722	36001009	Diode Si, 1S-2473
D604	1095-0722	36001009	Diode Si, 1S-2473
D605	1095-0722	36001009	Diode Si, 1S-2473
D606	1095-0722	36001009	Diode Si, 1S-2473
D607	1095-0722	36001009	Diode Si, 1S-2473
D608	1094-8180	36003042	Diode Zener, RD-13EB
IC601	1103-5656	37901034	IC LM-1458N
IC602	1103-5656	37901034	IC LM-1458N
IC603	1099-8870	37901045	IC μ PC741
R601	1104-9921	40983197	R, Carbon 10k Ω \pm 5% $\frac{1}{4}$ W
R602	1104-9913	40983189	R, Carbon 4.7k Ω \pm 5% $\frac{1}{4}$ W
R603	1105-5787	40983245	R, Carbon 1M Ω \pm 5% $\frac{1}{4}$ W
R604	1104-6299	40982173	R, Carbon 1k Ω \pm 5% $\frac{1}{4}$ W
R605	1104-6299	40983173	R, Carbon 1k Ω \pm 5% $\frac{1}{4}$ W
R606	1105-5779	40983243	R, Carbon 820k Ω \pm 5% $\frac{1}{4}$ W
R607	1104-9889	40982251	R, Carbon 1.8M Ω \pm 5% $\frac{1}{4}$ W
R608	1104-9889	40982251	R, Carbon 1.8M Ω \pm 5% $\frac{1}{4}$ W
R609	1104-9830	40982215	R, Carbon 56k Ω \pm 5% $\frac{1}{4}$ W
R610	1104-9855	40983221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W
R611	1104-9855	40982221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W
R612	1104-9962	40983213	R, Carbon 47k Ω \pm 5% $\frac{1}{4}$ W
R613	1105-5787	40983245	R, Carbon 1M Ω \pm 5% $\frac{1}{4}$ W
R614	1104-9970	40983215	R, Carbon 56k Ω \pm 5% $\frac{1}{4}$ W
R615	1104-9954	40983209	R, Carbon 33k Ω \pm 5% $\frac{1}{4}$ W
R616	1104-6232	40982159	R, Carbon 270 Ω \pm 5% $\frac{1}{4}$ W
R617	1104-9988	40983221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W
R618	1104-9905	40983177	R, Carbon 1.5k Ω \pm 5% $\frac{1}{4}$ W
R619	1104-9962	40983213	R, Carbon 47k Ω \pm 5% $\frac{1}{4}$ W
R620	1104-9921	40983197	R, Carbon 10k Ω \pm 5% $\frac{1}{4}$ W
R621	1104-9962	40983213	R, Carbon 47k Ω \pm 5% $\frac{1}{4}$ W
R622	1104-9921	40983197	R, Carbon 10k Ω \pm 5% $\frac{1}{4}$ W
R623	1104-9822	40982213	R, Carbon 47k Ω \pm 5% $\frac{1}{4}$ W
R624	1104-9962	40983213	R, Carbon 47k Ω \pm 5% $\frac{1}{4}$ W
R625	1104-9848	40982217	R, Carbon 68k Ω \pm 5% $\frac{1}{4}$ W
R626	1104-9848	40982217	R, Carbon 68k Ω \pm 5% $\frac{1}{4}$ W
R627	1104-9939	40983201	R, Carbon 15k Ω \pm 5% $\frac{1}{4}$ W
R628	1105-5761	40983241	R, Carbon 680k Ω \pm 5% $\frac{1}{4}$ W
R629	1105-5761	40983241	R, Carbon 680k Ω \pm 5% $\frac{1}{4}$ W
R630	1104-9947	40983207	R, Carbon 27k Ω \pm 5% $\frac{1}{4}$ W
R631	1104-9947	40983207	R, Carbon 27k Ω \pm 5% $\frac{1}{4}$ W
R632	1105-5753	40983239	R, Carbon 560k Ω \pm 5% $\frac{1}{4}$ W
R633	1104-9988	40983221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W
R634	1104-9855	40982221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W

Ref. No.	JCPenney Part No.	Supplier Part No.	Description
RY601	1120-4039	65910047	Relay PRB-2
TR601	1099-8672	35047216	Transistor 2SC-945P
TR602	1099-8656	35003516	Transistor 2SA-733P
TR603	1099-8672	35047216	Transistor 2SC-945P
TR604	1099-8672	35047216	Transistor 2SC-945P
TR605	1101-2531	35048321	Transistor 2SC-900U
TR606	1099-8656	35003516	Transistor 2SA-733P
VR601	1114-5497	41950215	R, Variable 200k Ω
VR602	1095-3396	41950023	R, Variable 50k Ω
	1121-1521	87324C01	PCB Servo Lock Ass'y ①

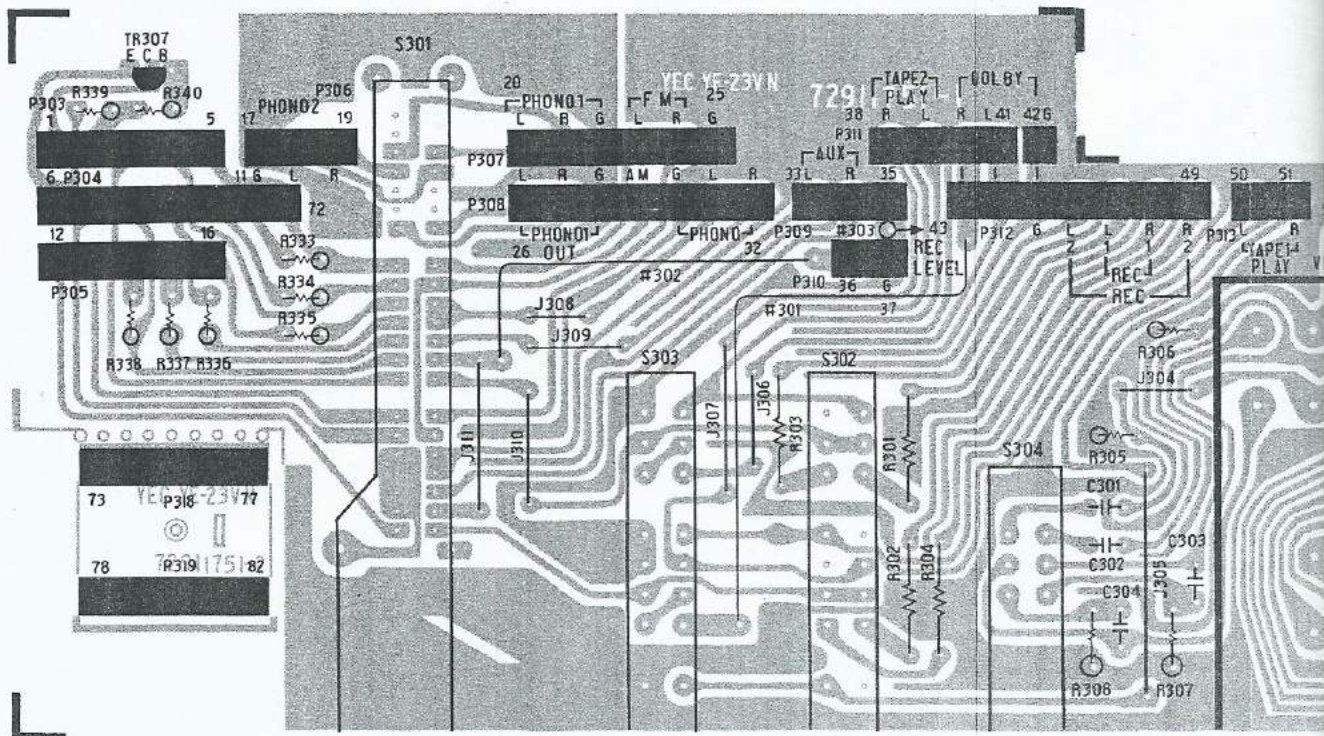
① Field repair. Don't exchange.

Function P.C. Board

— Component Side —

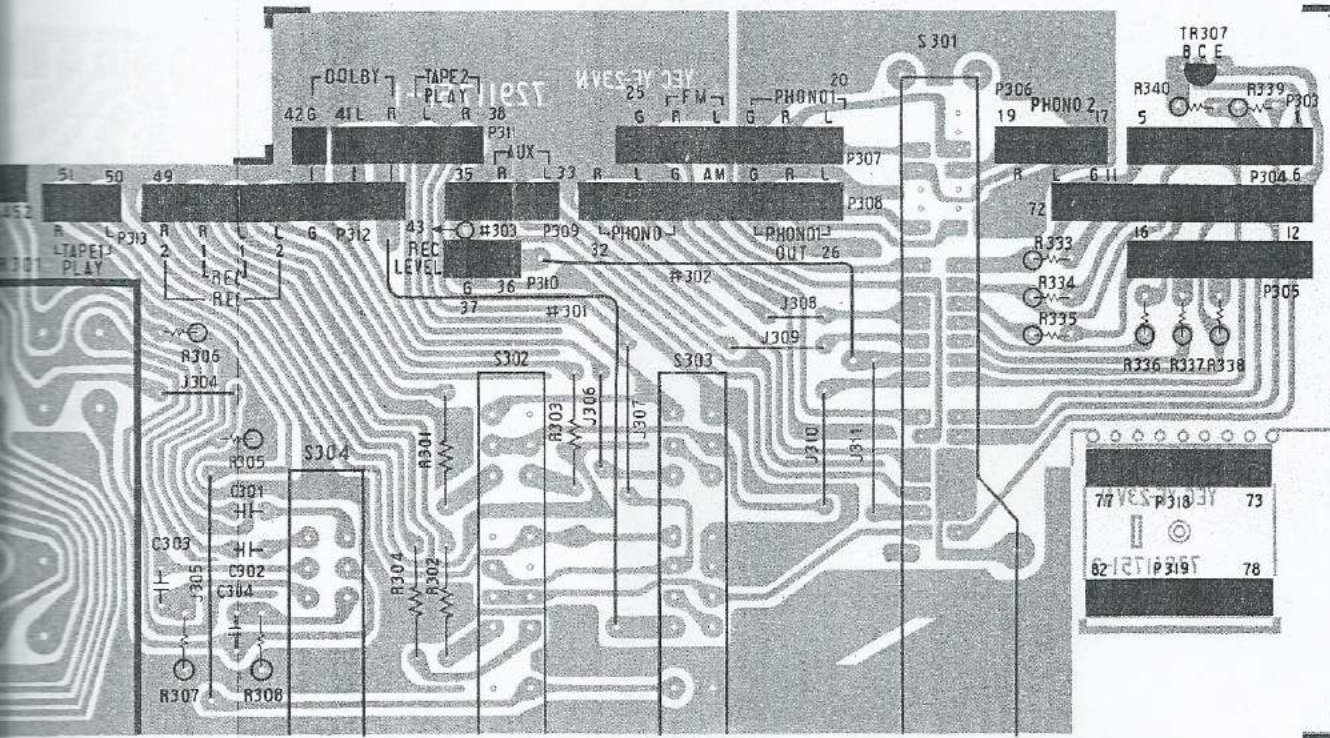


— Solder Side —

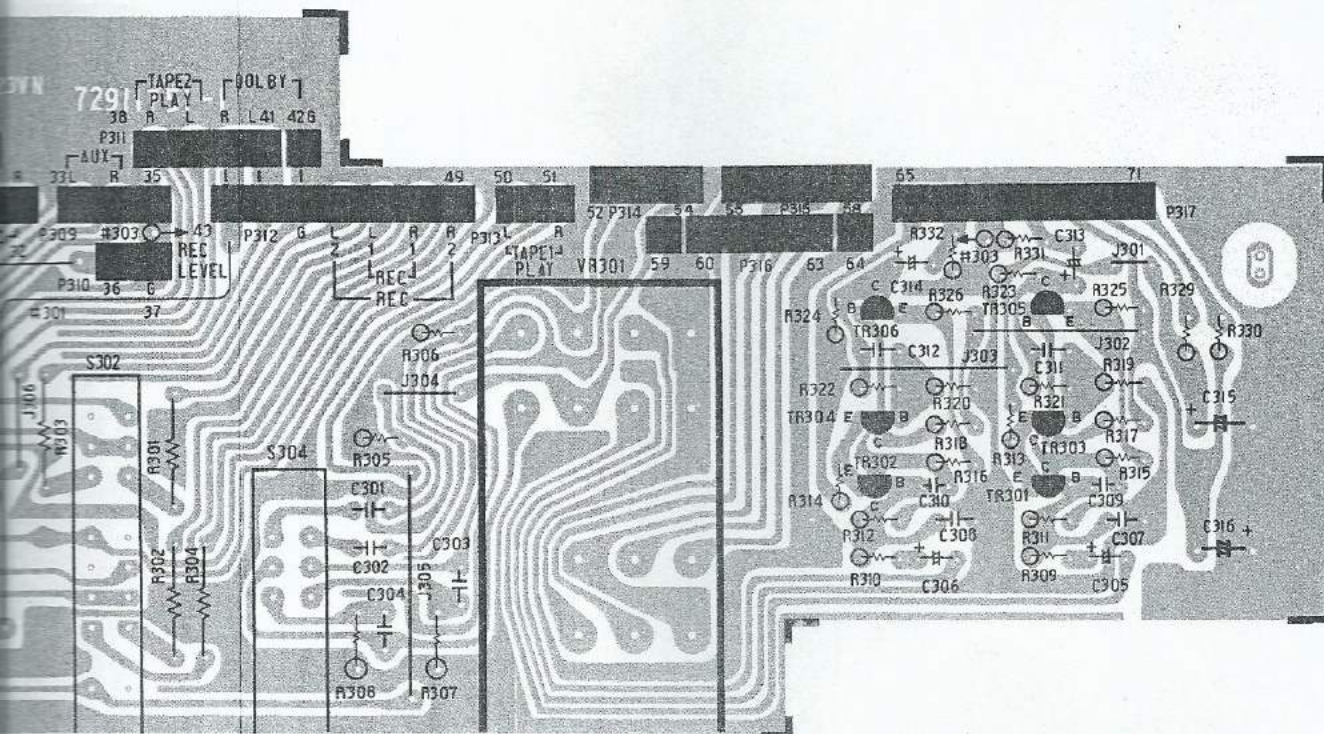


Function P.C. Board

— Component Side —



— Solder Side —



Function P.C. Board

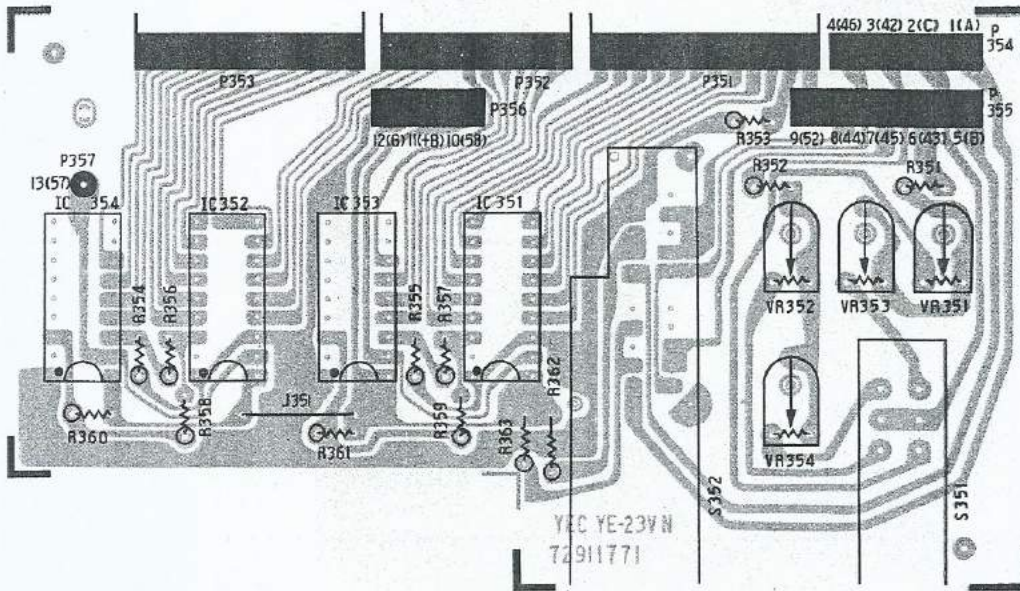
Ref. No.	JCPenney Part No.	Supplier Part No.	Description
C301	1095-3750	42331043	C, Ceramic 50V 82pF ±5%
C302	1095-3750	42331043	C, Ceramic 50V 82pF ±5%
C303	1095-3792	42754067	C, Mylar 50V 0.022μF ±10%
C304	1095-3792	42754067	C, Mylar 50V 0.022μF ±10%
C305	1095-1507	43980055	C, Elec. 50V 2.2μF
C306	1095-1507	43980055	C, Elec. 50V 2.2μF
C307	1094-9857	42331066	C, Ceramic 50V 56pF ±10%
C308	1094-9857	42331066	C, Ceramic 50V 56pF ±10%
C309	1095-3768	42331065	C, Ceramic 50V 47pF ±10%
C310	1095-3768	42331065	C, Ceramic 50V 47pF ±10%
C311	1094-9832	42331058	C, Ceramic 50V 12pF ±10%
C312	1094-9832	42331058	C, Ceramic 50V 12pF ±10%
C313	1114-0654	43980014	C, Elec. 16V 10μF
C314	1114-0654	43980014	C, Elec. 16V 10μF
C315	1114-0688	43991050	C, Elec. 25V 470μF
C316	1114-0688	43991050	C, Elec. 25V 470μF
R301	1100-8190	40102181	R, Carbon 2.2kΩ ±5% ¼W
R302	1100-8190	40102181	R, Carbon 2.2kΩ ±5% ¼W
R303	1100-8190	40102181	R, Carbon 2.2kΩ ±5% ¼W
R304	1100-8190	40102181	R, Carbon 2.2kΩ ±5% ¼W
R305	1100-8505	40112221	R, Carbon 100kΩ ±5% ¼W
R306	1100-8505	40112221	R, Carbon 100kΩ ±5% ¼W
R307	1100-8463	40112207	R, Carbon 27kΩ ±5% ¼W
R308	1100-8463	40112207	R, Carbon 27kΩ ±5% ¼W
R309	1100-8380	40112181	R, Carbon 2.2kΩ ±5% ¼W
R310	1100-8380	40112181	R, Carbon 2.2kΩ ±5% ¼W
R311	1095-1168	40112229	R, Carbon 220kΩ ±5% ¼W
R312	1095-1168	40112229	R, Carbon 220kΩ ±5% ¼W
R313	1095-1150	40112219	R, Carbon 82kΩ ±5% ¼W
R314	1095-1150	40112219	R, Carbon 82kΩ ±5% ¼W
R315	1100-8406	40112189	R, Carbon 4.7kΩ ±5% ¼W
R316	1100-8406	40112189	R, Carbon 4.7kΩ ±5% ¼W
R317	1100-8364	40112173	R, Carbon 1kΩ ±5% ¼W
R318	1100-8364	40112173	R, Carbon 1kΩ ±5% ¼W
R319	1099-9795	40112191	R, Carbon 5.6kΩ ±5% ¼W
R320	1099-9795	40112191	R, Carbon 5.6kΩ ±5% ¼W
R321	1100-8471	40112213	R, Carbon 47kΩ ±5% ¼W
R322	1100-8471	40112213	R, Carbon 47kΩ ±5% ¼W
R323	1099-9795	40112191	R, Carbon 5.6kΩ ±5% ¼W
R324	1099-9795	40112191	R, Carbon 5.6kΩ ±5% ¼W
R325	1100-8307	40112145	R, Carbon 68Ω ±5% ¼W
R326	1100-8307	40112145	R, Carbon 68Ω ±5% ¼W
R329	1095-2042	40112143	R, Carbon 56Ω ±5% ¼W
R330	1095-2042	40112143	R, Carbon 56Ω ±5% ¼W
R331	1100-8471	40112213	R, Carbon 47kΩ ±5% ¼W
R332	1100-8471	40112213	R, Carbon 47kΩ ±5% ¼W
R333	1100-8364	40112173	R, Carbon 1kΩ ±5% ¼W
R334	1100-8364	40112173	R, Carbon 1kΩ ±5% ¼W
R335	1100-8364	40112173	R, Carbon 1kΩ ±5% ¼W
R336	1100-8364	40112173	R, Carbon 1kΩ ±5% ¼W
R337	1100-8364	40112173	R, Carbon 1kΩ ±5% ¼W
R338	1100-8364	40112173	R, Carbon 1kΩ ±5% ¼W
R339	1100-8471	40112213	R, Carbon 47kΩ ±5% ¼W
R340	1100-3455	40112205	R, Carbon 22kΩ ±5% ¼W

Ref. No.	JCPenney Part No.	Supplier Part No.	Description
S301	1120-4047	65912014	Rotary Switch
S302	1095-0830	65911022	Lever Switch
S303	1095-0830	65911022	Lever Switch
S304	1095-0822	65911009	Lever Switch
TR301	1101-9411	35901405	Transistor 2SA-872E
TR302	1101-9411	35901405	Transistor 2SA-872E
TR303	1101-9411	35901405	Transistor 2SA-872E
TR304	1101-9411	35901405	Transistor 2SA-872E
TR305	1101-9437	35946006	Transistor 2SC-1775F
TR306	1101-9437	35946006	Transistor 2SC-1775F
TR307	1095-2638	35003517	Transistor 2SA-733Q
VR301	1105-5803	41950287	Attenuator 4-gang
	1121-1596	87324K01	PCB Function Ass'y ①

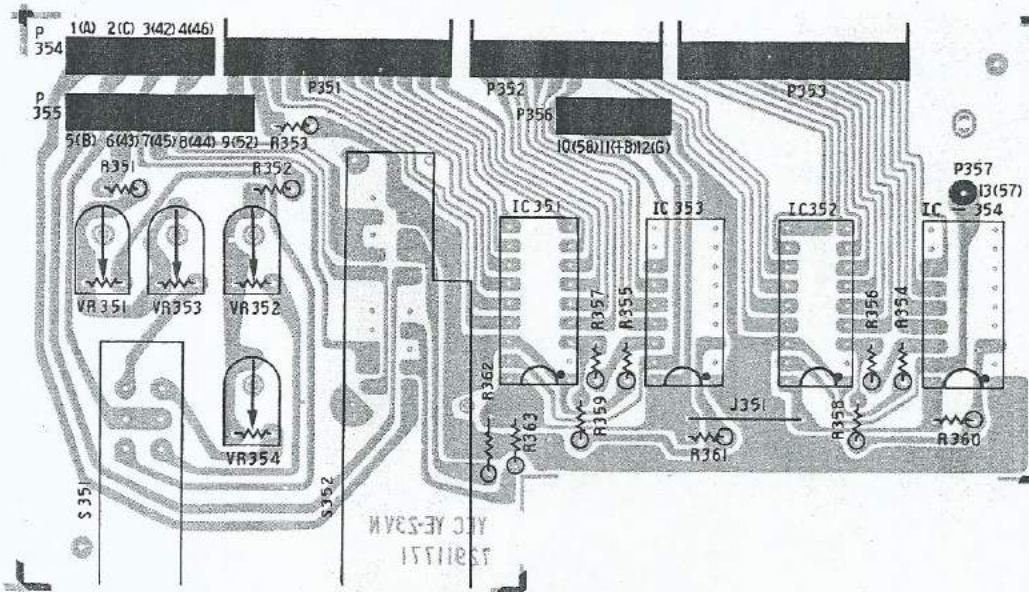
① Field repair. Don't exchange.

Power Meter Dirver P.C. Board

— Component Side —



— Solder Side —



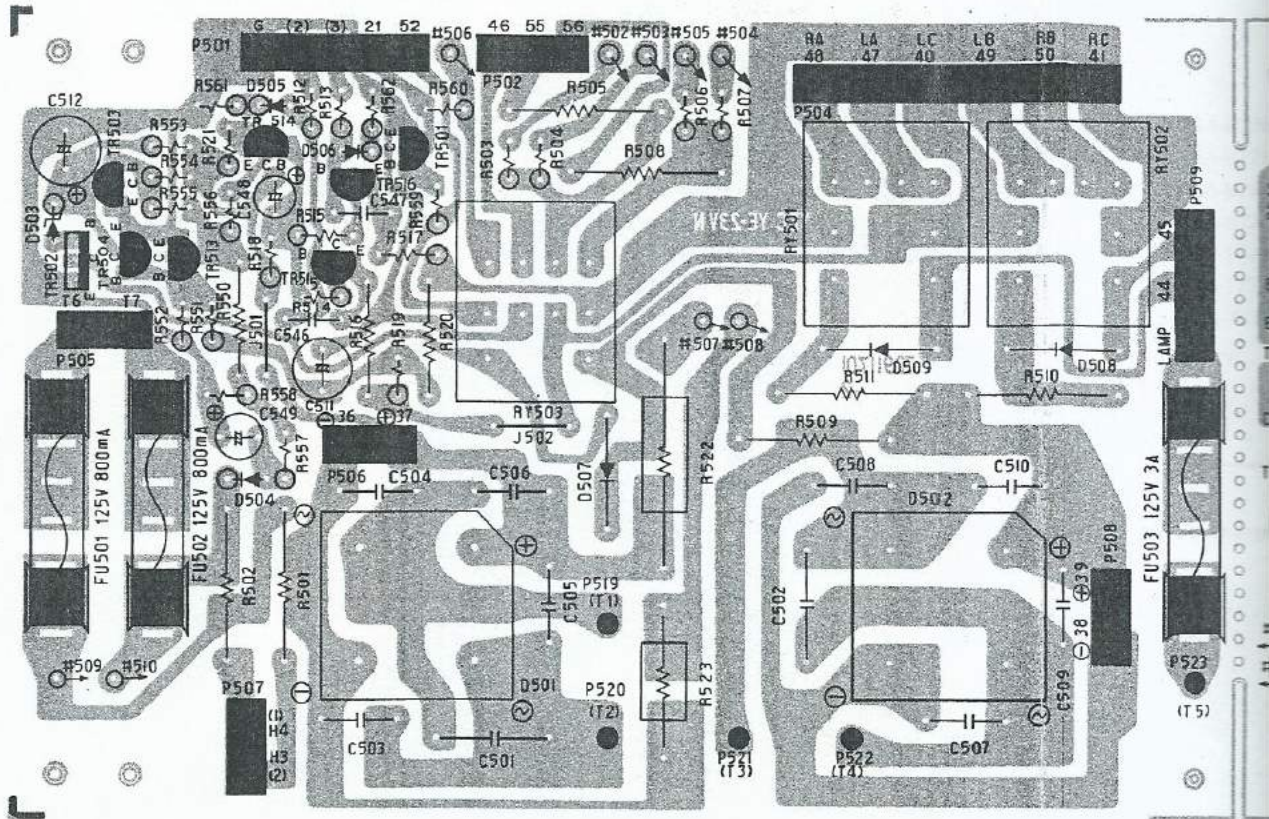
Power Meter Driver P.C. Board

Ref. No.	JCPenney Part No.	Supplier Part No.	Description
IC351	1103-5672	37901036	IC UAA-180
IC352	1103-5672	37901036	IC UAA-180
IC353	1103-5672	37901036	IC UAA-180
IC354	1103-5672	37901036	IC UAA-180
R351	1100-8455	40112205	R, Carbon 22k Ω \pm 5% $\frac{1}{4}$ W
R352	1100-8455	40112205	R, Carbon 22k Ω \pm 5% $\frac{1}{4}$ W
R353	1095-1119	40112177	R, Carbon 1.5k Ω \pm 5% $\frac{1}{4}$ W
R354	1095-1127	40112193	R, Carbon 6.8k Ω \pm 5% $\frac{1}{4}$ W
R355	1095-1127	40112193	R, Carbon 6.8k Ω \pm 5% $\frac{1}{4}$ W
R356	1100-8356	40112165	R, Carbon 470 Ω \pm 5% $\frac{1}{4}$ W
R357	1100-8356	40112165	R, Carbon 470 Ω \pm 5% $\frac{1}{4}$ W
R358	1095-1127	40112193	R, Carbon 6.8k Ω \pm 5% $\frac{1}{4}$ W
R359	1095-1127	40112193	R, Carbon 6.8k Ω \pm 5% $\frac{1}{4}$ W
R360	1100-8497	40112217	R, Carbon 68k Ω \pm 5% $\frac{1}{4}$ W
R361	1100-8497	40112217	R, Carbon 68k Ω \pm 5% $\frac{1}{4}$ W
R362	1095-1119	40112177	R, Carbon 1.5k Ω \pm 5% $\frac{1}{4}$ W
R363	1095-1119	40112177	R, Carbon 1.5k Ω \pm 5% $\frac{1}{4}$ W
S351	1095-0822	65911009	Lever Switch
S352	1120-4054	65912015	Rotary Switch
VR351	1114-5497	41950215	R, Variable 220k Ω
VR352	1114-5497	41950215	R, Variable 200k Ω
VR353	1114-5497	41950215	R, Variable 200k Ω
VR354	1114-5497	41950215	R, Variable 200k Ω
	1120-4153	70905177	Connector 10P
	1120-4161	70905179	Connector 12P
	1121-1612	87324M01	PCB Power Meter Driver Ass'y ①

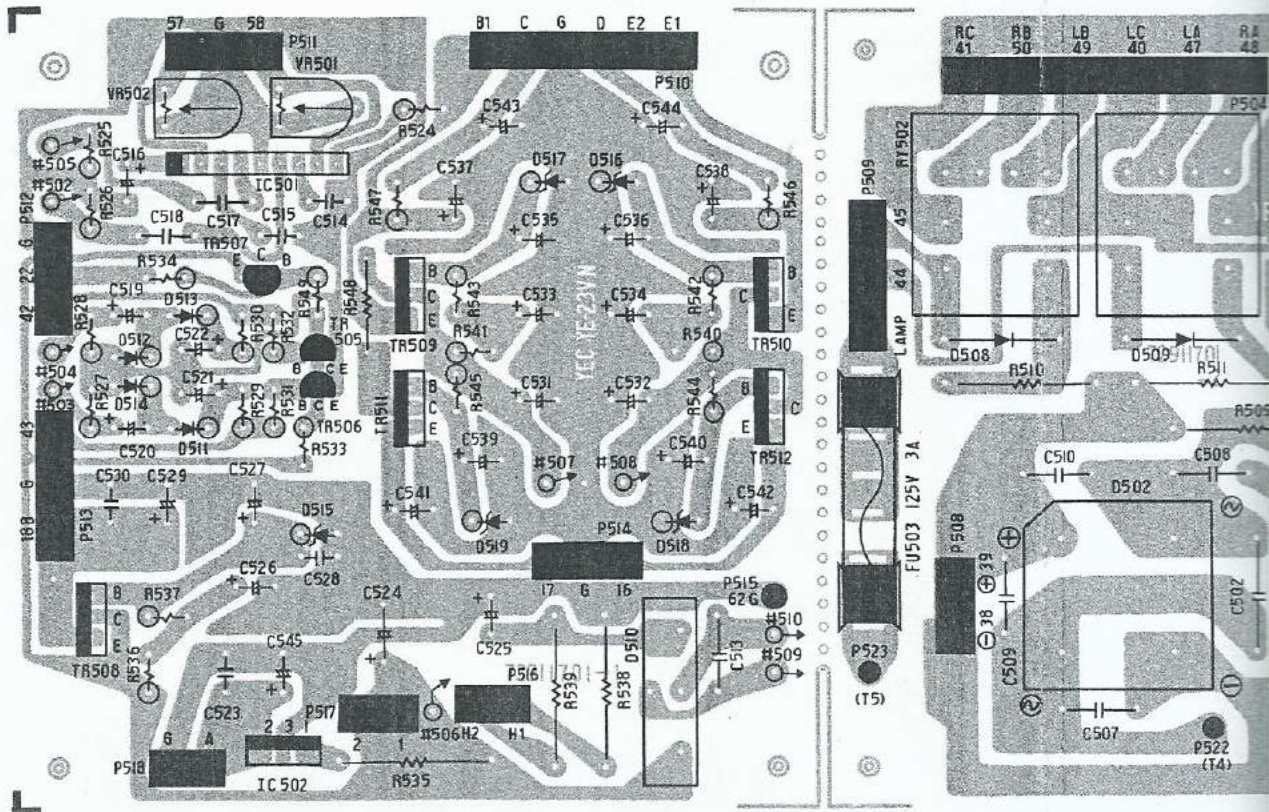
① Field repair. Don't exchange.

Power Supply P.C. Board

— Component Side —

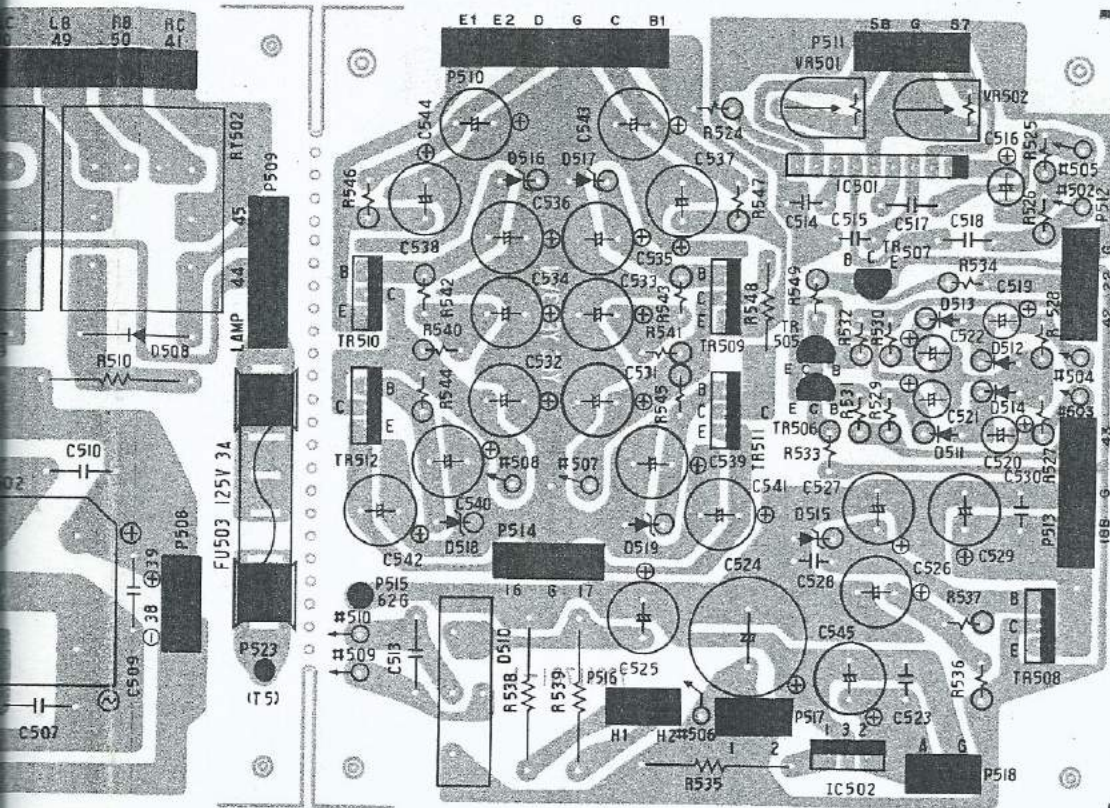


— Solder Side —

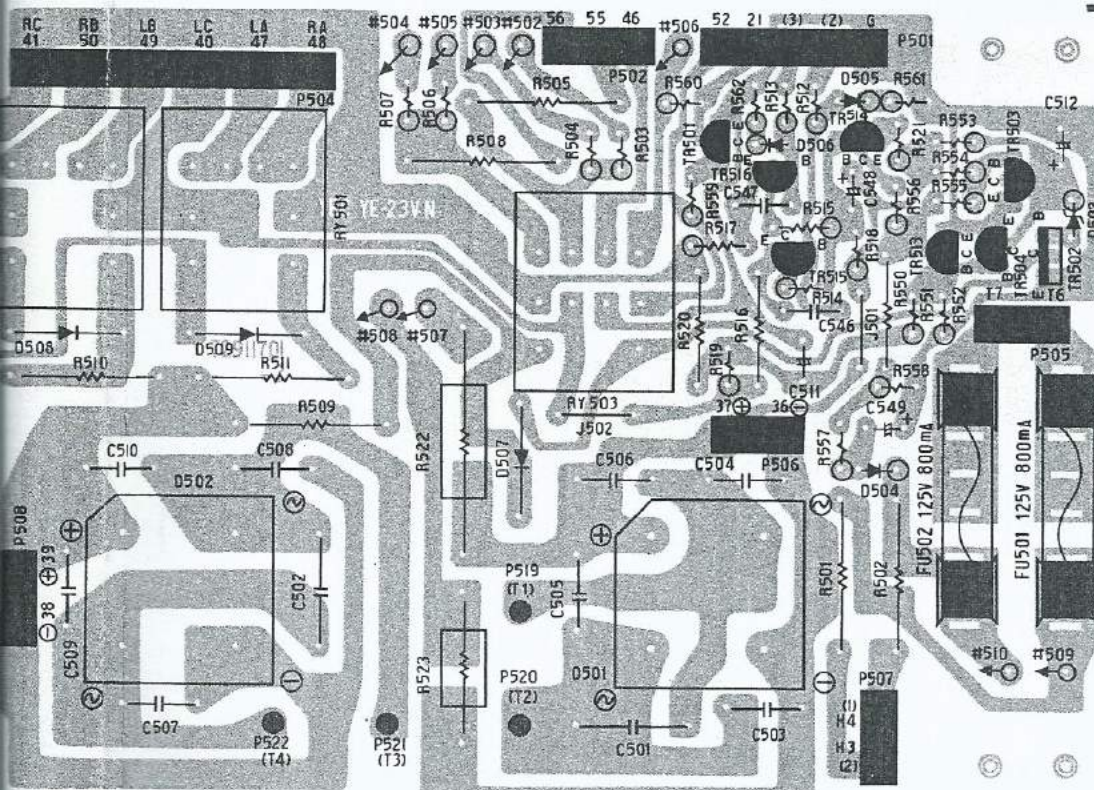


Power Supply P.C. Board

— Component Side —



— Solder Side —



Power Supply P.C. Board

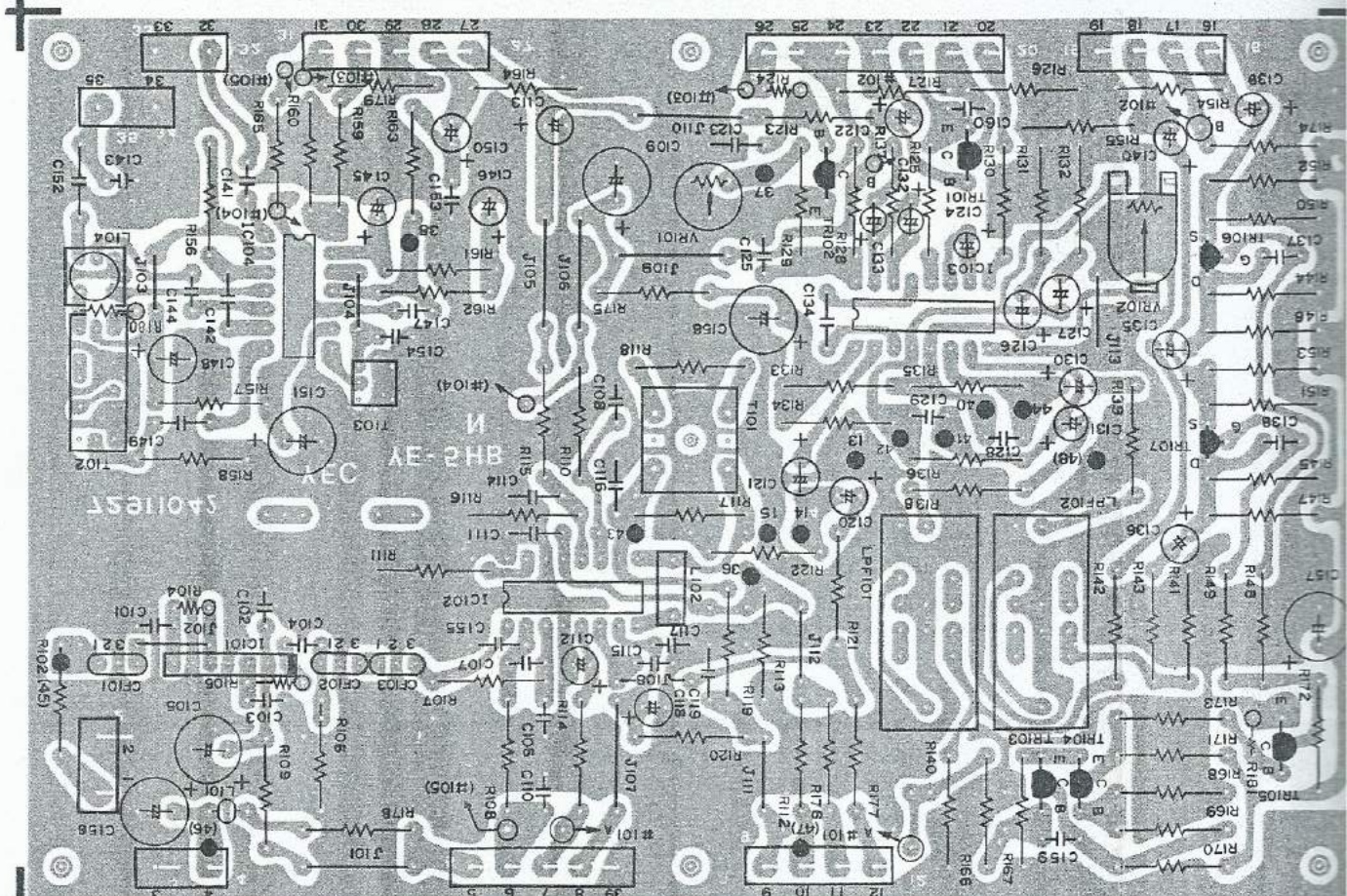
Ref. No.	JCPenney Part No.	Supplier Part No.	Description	Ref. No.	JCPenney Part No.	Supplier Part No.	Description
	1095-0863	71903012	Fuse Holder	D505	1095-0772	36001009	Diode Si, 1S-2473
C501	1114-6719	42970217	C, Film 250V 0.22 μ F \pm 10%	D506	1095-0772	36001009	Diode Si, 1S-2473
C502	1114-6719	42970217	C, Film 250V 0.22 μ F \pm 10%	D507	1095-0780	36107065	Rectifier Si, F14A
C503	1094-9816	42019575	C, Ceramic 500V 0.01 μ F	D508	1095-0780	36107065	Rectifier Si, F14A
C504	1094-9816	42019575	C, Ceramic 500V 0.01 μ F	D509	1095-0780	36107065	Rectifier Si, F14A
C505	1094-9816	42019575	C, Ceramic 500V 0.01 μ F	D510	1190-8821	36902052	Rectifier Si, S1RBA-20
C506	1094-9816	42019575	C, Ceramic 500V 0.01 μ F	D511	1095-0772	36001009	Diode Si, 1S-2473
C507	1094-9816	42019575	C, Ceramic 500V 0.01 μ F	D512	1095-0772	36001009	Diode Si, 1S-2473
C508	1094-9816	42019575	C, Ceramic 500V 0.01 μ F	D513	1095-0772	36001009	Diode Si, 1S-2473
C509	1094-9816	42019575	C, Ceramic 500V 0.01 μ F	D514	1005-0772	36001009	Diode Si, 1S-2473
C510	1094-9816	42019575	C, Ceramic 500V 0.01 μ F	D515	1094-8180	36003042	Diode Zener RD-13EB
C511	1095-2257	43311014	C, Elec. 16V 100 μ F	D516	1095-1770	36902033	Diode Zener RD-24EB
C512	1095-4014	43991047	C, Elec. 25V 100 μ F	D517	1095-1770	36902033	Diode Zener RD-24EB
C513	1094-9816	42019575	C, Ceramic 500V 0.01 μ F	D518	1099-8813	36902016	Diode Zener RD-15EB
C514	1101-2663	42754063	C, Mylar 50V 0.01 μ F \pm 10%	D519	1099-8813	36902016	Diode Zener RD-15EB
C515	1101-2663	42754063	C, Mylar 50V 0.01 μ F \pm 10%	IC501	1103-5664	37901035	IC TA-7318P
C516	1114-4557	43991065	C, Elec. 50V 0.47 μ F	IC502	1099-8862	37901014	IC μ PC14305
C517	1101-2713	42754075	C, Mylar 50V 0.1 μ F \pm 10%	or	1199-8912	37903043	IC μ PC78M05
C518	1101-2713	42754075	C, Mylar 50V 0.1 μ F \pm 10%	R501	1099-9837	40342655	R, Metal 180 Ω \pm 5% 2W
C519	1095-4030	43991066	C, Elec. 50V 1 μ F	R502	1099-9837	40342655	R, Metal 180 Ω \pm 5% 2W
C520	1095-4030	43991066	C, Elec. 50V 1 μ F	R503	1095-1143	40112209	R, Carbon 33k Ω \pm 5% 1/4W
C521	1114-4532	43982065	C, Elec. 50V 0.47 μ F	R504	1100-8471	40112213	R, Carbon 47k Ω \pm 5% 1/4W
C522	1114-4532	43982065	C, Elec. 50V 0.47 μ F	R505	1095-1259	40341657	R, Metal 220 Ω \pm 5% 1W
C523	1102-1375	42110429	C, Ceramic 50V 0.022 μ F	R506	1095-1143	40112209	R, Carbon 33k Ω \pm 5% 1/4W
C524	1101-2770	43991051	C, Elec. 25V 1000 μ F	R507	1100-8471	40112213	R, Carbon 47k Ω \pm 5% 1/4W
C525	1095-4014	43991047	C, Elec. 25V 100 μ F	R508	1095-1259	40341657	R, Metal 220 Ω \pm 5% 1W
C526	1120-3908	43993042	C, Elec. 25V 220 μ F	R509	1121-1703	40341669	R, Metal 680 Ω \pm 5% 1W
C527	1095-1606	43991033	C, Elec. 16V 220 μ F	R510	1121-1703	40341669	R, Metal 680 Ω \pm 5% 1W
C528	1102-1367	42110425	C, Ceramic 50V 0.01 μ F	R511	1121-1703	40341669	R, Metal 680 Ω \pm 5% 1W
C529	1101-2762	43991032	C, Elec. 16V 100 μ F	R512	1100-8380	40112181	R, Carbon 2.2k Ω \pm 5% 1/4W
C530	1102-1375	42110429	C, Ceramic 50V 0.022 μ F	R513	1100-8380	40112181	R, Carbon 2.2k Ω \pm 5% 1/4W
C531	1095-1663	43991073	C, Elec. 50V 47 μ F	R514	1100-8422	40112199	R, Carbon 2.2k Ω \pm 5% 1/4W
C532	1095-1663	43991073	C, Elec. 50V 47 μ F	R515	1100-8422	40112199	R, Carbon 2.2k Ω \pm 5% 1/4W
C533	1114-0696	43991059	C, Elec. 35V 47 μ F	R516	1099-9696	40102165	R, Carbon 470 Ω \pm 5% 1/4W
C534	1114-0696	43991059	C, Elec. 35V 47 μ F	R517	1100-8356	40112165	R, Carbon 470 Ω \pm 5% 1/4W
C535	1095-4041	43991047	C, Elec. 25V 100 μ F	R518	1100-3505	40112221	R, Carbon 100k Ω \pm 5% 1/4W
C536	1095-4041	43991047	C, Elec. 25V 100 μ F	R519	1100-8455	40112205	R, Carbon 22k Ω \pm 5% 1/4W
C537	1095-1630	43991046	C, Elec. 25V 47 μ F	R520	1100-8455	40102205	R, Carbon 22k Ω \pm 5% 1/4W
C538	1095-1630	43991046	C, Elec. 25V 47 μ F	R521	1100-8356	40112165	R, Carbon 470 Ω \pm 5% 1/4W
C539	1101-2762	43991032	C, Elec. 16V 100 μ F	R522	1099-9852	40343659	R, Metal 270 Ω \pm 5% 3W
C540	1101-2762	43991032	C, Elec. 16V 100 μ F	R523	1099-9845	40342663	R, Metal 390 Ω \pm 5% 2W
C541	1101-2762	43991032	C, Elec. 16V 100 μ F	R524	1095-1093	40112163	R, Carbon 390 Ω \pm 5% 1/4W
C542	1101-2762	43991032	C, Elec. 16V 100 μ F	R525	1095-1168	40112229	R, Carbon 220k Ω \pm 5% 1/4W
C543	1095-1630	43991046	C, Elec. 25V 47 μ F	R526	1095-1168	40112229	R, Carbon 220k Ω \pm 5% 1/4W
C544	1095-1630	43991046	C, Elec. 25V 47 μ F	R527	1100-8422	40112199	R, Carbon 12k Ω \pm 5% 1/4W
C545	1101-2762	43991032	C, Elec. 16V 100 μ F	R528	1100-8422	40112199	R, Carbon 12k Ω \pm 5% 1/4W
C546	1095-1283	42110437	C, Ceramic 50V 0.1 μ F	R529	1100-8471	40112213	R, Carbon 47k Ω \pm 5% 1/4W
C547	1095-1283	42110437	C, Ceramic 50V 0.1 μ F	R530	1100-8471	40112213	R, Carbon 47k Ω \pm 5% 1/4W
C548	1095-1614	43991043	C, Elec. 25V 10 μ F	R531	1095-1143	40112209	R, Carbon 33k Ω \pm 5% 1/4W
C549	1095-1614	43991043	C, Elec. 25V 10 μ F	R532	1095-1143	40112209	R, Carbon 33k Ω \pm 5% 1/4W
D501	1099-8839	36902053	Rectifier Si, S5VB40	R533	1095-3677	40112203	R, Carbon 18k Ω \pm 5% 1/4W
D502	1099-8839	36902053	Rectifier Si, S5VB40	R534	1095-1119	40112177	R, Carbon 1.5k Ω \pm 5% 1/4W
D503	1094-8180	36003042	Diode Zener, RD-13EB	R535	1099-9829	40342647	R, Metal 82 Ω \pm 5% 2W
D504	1095-0780	36107065	Rectifier Si, F14A	R536	1100-8364	40112173	R, Carbon 1k Ω \pm 5% 1/4W

Description	Ref. No.	JCPanney Part No.	Supplier Part No.	Description
1S-2473	R537	1100-8372	40112175	R, Carbon 1.2k Ω \pm 5% 1/4W
1S-2473	R538	1095-1259	40341657	R, Metal 220 Ω \pm 5% 1W
F14A	R539	1095-1242	40341653	R, Metal 150 Ω \pm 5% 1W
F14A	R540	1095-2075	40112183	R, Carbon 2.7k Ω \pm 5% 1/4W
F14A	R541	1095-2075	40112183	R, Carbon 2.7k Ω \pm 5% 1/4W
STRBA-20	R542	1095-1119	40112177	R, Carbon 1.5k Ω \pm 5% 1/4W
1S-2473	R543	1095-1119	40112177	R, Carbon 1.5k Ω \pm 5% 1/4W
1S-2473	R544	1100-8406	40112189	R, Carbon 4.7k Ω \pm 5% 1/4W
1S-2473	R545	1100-8406	40112189	R, Carbon 4.7k Ω \pm 5% 1/4W
1S-2473	R546	1100-8331	40112157	R, Carbon 220 Ω \pm 5% 1/4W
RD-13EB	R547	1095-2042	40112143	R, Carbon 56 Ω \pm 5% 1/4W
RD-24EB	R548	1122-6347	40912157	R, Carbon 220 Ω \pm 5% 1/2W
RD-24EB	R549	1100-8455	40112205	R, Carbon 22k Ω \pm 5% 1/4W
RD-15EB	R550	1094-9758	40102195	R, Carbon 8.2k Ω \pm 5% 1/4W
RD-15EB	R551	1099-9795	40112191	R, Carbon 5.6k Ω \pm 5% 1/4W
TA-7318P	R552	1094-9758	40112195	R, Carbon 8.2k Ω \pm 5% 1/4W
PC14305	R553	1100-8505	40112221	R, Carbon 100k Ω \pm 5% 1/4W
PC78M05	R554	1095-3701	40112231	R, Carbon 270k Ω \pm 5% 1/4W
180 Ω \pm 5% 2W	R555	1100-8414	40112197	R, Carbon 10k Ω \pm 5% 1/4W
180 Ω \pm 5% 2W	R556	1100-8414	40112197	R, Carbon 10k Ω \pm 5% 1/4W
33k Ω \pm 5% 1/4W	R557	1099-9795	40112191	R, Carbon 5.6k Ω \pm 5% 1/4W
47k Ω \pm 5% 1/4W	R558	1100-8380	40112181	R, Carbon 2.2k Ω \pm 5% 1/4W
220 Ω \pm 5% 1W	R559	1100-8471	40112213	R, Carbon 47k Ω \pm 5% 1/4W
33k Ω \pm 5% 1/4W	R560	1095-1119	40112177	R, Carbon 1.5k Ω \pm 5% 1/4W
47k Ω \pm 5% 1/4W	R561	1100-8414	40112197	R, Carbon 10k Ω \pm 5% 1/4W
220 Ω \pm 5% 1W	R562	1100-8414	40112197	R, Carbon 10k Ω \pm 5% 1/4W
680 Ω \pm 5% 1W	RY501	1120-4013	65910045	Relay, MS-4U(P) 48VDC
680 Ω \pm 5% 1W	RY502	1120-4013	65910045	Relay, MS-4U(P) 48VDC
680 Ω \pm 5% 1W	RY503	1120-4021	65910046	Relay, MS-4U 480VDC
2.2k Ω \pm 5% 1/4W	TR501	1099-8680	35047217	Transistor 2SC-945Q
2.2k Ω \pm 5% 1/4W	or	1094-8354	35047218	Transistor 2SC-945R
2.2k Ω \pm 5% 1/4W	TR502	1099-8698	35053011	Transistor 2SC-1941K
2.2k Ω \pm 5% 1/4W	TR503	1099-8763	35947405	Transistor 2SC-1845E
470 Ω \pm 5% 1/4W	TR504	1099-8763	35947405	Transistor 2SC-1845E
470 Ω \pm 5% 1/4W	TR505	1099-8680	35047217	Transistor 2SC-945Q
100k Ω \pm 5% 1/4W	TR506	1099-8680	35047217	Transistor 2SC-945Q
22k Ω \pm 5% 1/4W	TR507	1099-8656	35003516	Transistor 2SA-733P
22k Ω \pm 5% 1/4W	TR508	1101-9445	35960415	Transistor 2SD-526 (O)
470 Ω \pm 5% 1/4W	TR509	1101-9445	35960415	Transistor 2SD-526 (O)
270 Ω \pm 5% 3W	TR510	1101-9429	35920615	Transistor 2SB-596 (O)
390 Ω \pm 5% 2W	TR511	1101-9445	35960415	Transistor 2SD-526 (O)
390 Ω \pm 5% 1/4W	TR512	1101-9429	35920615	Transistor 2SB-596 (O)
220k Ω \pm 5% 1/4W	TR513	1101-9411	35901405	Transistor 2SA-872E
220k Ω \pm 5% 1/4W	TR514	1101-9411	35901405	Transistor 2SA-872E
12k Ω \pm 5% 1/4W	TR515	1101-9437	35946006	Transistor 2SC-1775F
12k Ω \pm 5% 1/4W	TR516	1101-9437	35946006	Transistor 2SC-1775F
47k Ω \pm 5% 1/4W	VR501	1101-2589	41950026	R, Variable 1k Ω
47k Ω \pm 5% 1/4W	VR502	1101-2589	41950026	R, Variable 1k Ω
33k Ω \pm 5% 1/4W		1121-1547	87324E01	PCB Power Supply Ass'y ①
33k Ω \pm 5% 1/4W				
18k Ω \pm 5% 1/4W				
1.5k Ω \pm 5% 1/4W				
82 Ω \pm 5% 2W				
1k Ω \pm 5% 1/4W				

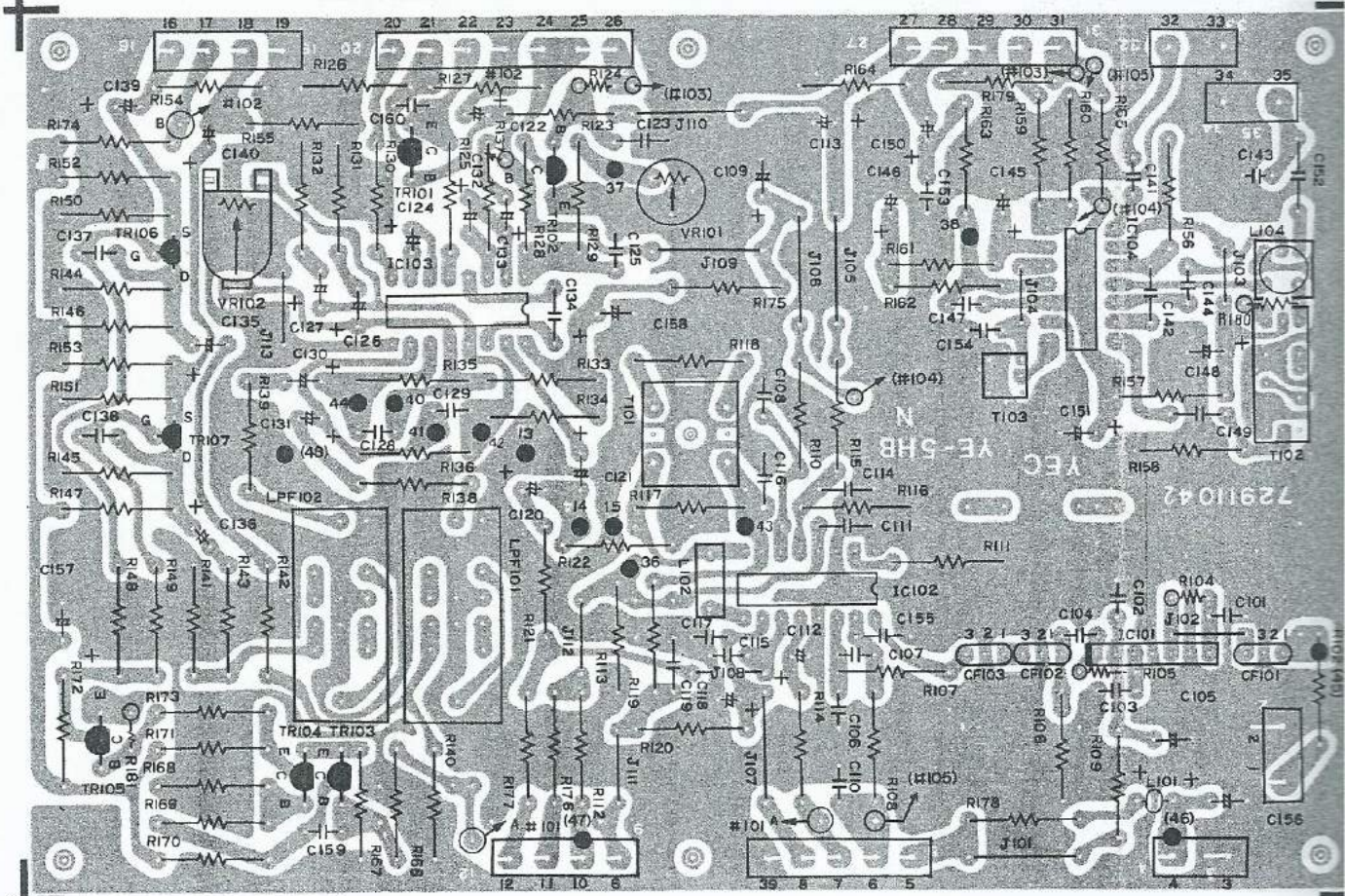
① Field repair. Don't exchange.

IF P.C. Board

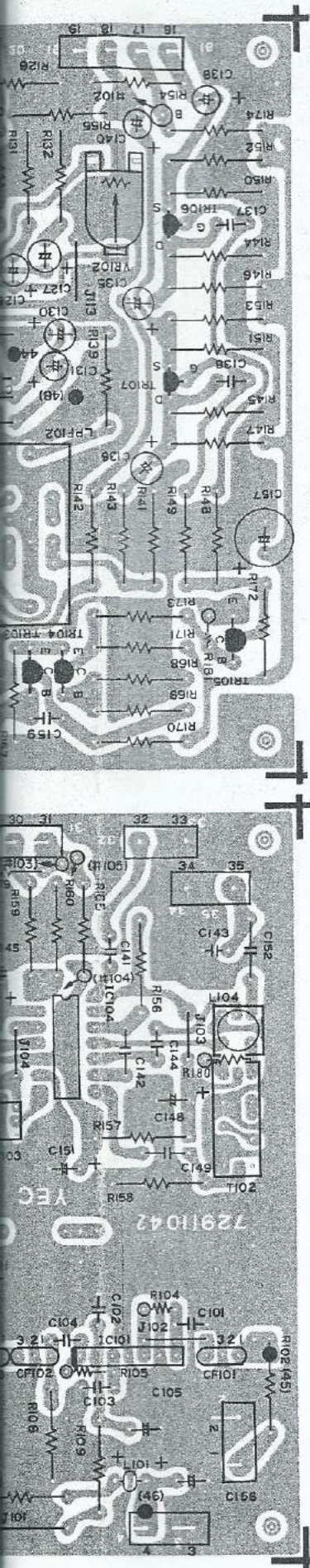
- Component Side -



- Solder Side -



IF P.C. Board



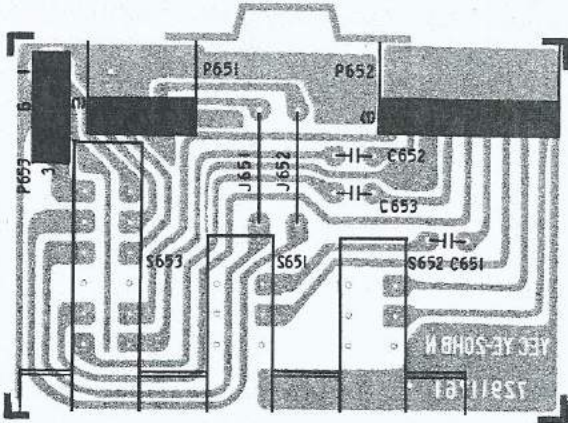
Ref. No.	JCPenney Part No.	Supplier Part No.	Description
C101	1102-1367	42110425	C, Ceramic 50V 0.01 μ F
C102	1102-1375	42110429	C, Ceramic 50V 0.022 μ F
C103	1102-1367	42110425	C, Ceramic 50V 0.01 μ F
C104	1102-1367	42110425	C, Ceramic 50V 0.01 μ F
C105	1102-1615	43011033	C, Elec. 16V 220 μ F
C106	1095-1275	42110433	C, Ceramic 50V 0.047 μ F
C107	1095-1275	42110433	C, Ceramic 50V 0.047 μ F
C108	1095-1275	42110433	C, Elec. 16V 0.047 μ F
C109	1102-1615	43011033	C, Ceramic 50V 220 μ F
C110	1102-1375	42110429	C, Ceramic 50V 0.022 μ F
C111	1095-1275	42110433	C, Ceramic 50V 0.047 μ F
C112	1114-6289	43011066	C, Elec. 50V 1 μ F
C113	1102-1656	43011067	C, Elec. 50V 2.2 μ F
C114	1102-1367	42110425	C, Ceramic 50V 0.01 μ F
C115	1102-1417	42331045	C, Ceramic 50V 100pF \pm 5%
C116	1095-1275	42110433	C, Ceramic 50V 0.047 μ F
C117	1102-1367	42110425	C, Ceramic 50V 0.01 μ F
C118	1102-1649	43011065	C, Elec. 50V 0.47 μ F
C119	1102-1367	42110425	C, Ceramic 50V 0.01 μ F
C120	1102-1649	43011055	C, Elec. 35V 4.7 μ F
C121	1114-6297	43515053	C, Tantalum 16V 4.7 μ F \pm 20%
C122	1114-6289	43011066	C, Elec. 50V 1 μ F
C123	1095-1275	42110433	C, Ceramic 50V 0.047 μ F
C124	1102-1680	43515067	C, Tantalum 35V 0.22 μ F \pm 20%
C125	1102-1524	42407145	C, Mica 50V 470pF \pm 5%
C126	1102-1581	43011028	C, Elec. 16V 10 μ F
C127	1102-1581	43011028	C, Elec. 16V 10 μ F
C128	1114-0571	42970015	C, Poly. 50V 560pF \pm 5%
C129	1114-0571	42970015	C, Poly. 50V 560pF \pm 5%
C130	1095-3982	43515055	C, Tantalum 16V 10 μ F \pm 20%
C131	1095-3982	43515055	C, Tantalum 16V 10 μ F \pm 20%
C132	1122-6339	43515099	C, Tantalum 25V 1.5 μ F \pm 20%
C133	1102-1664	43515052	C, Tantalum 16V 3.3 μ F \pm 20%
C134	1101-2697	42754071	C, Mylar 50V 0.047 μ F \pm 10%
C135	1102-1631	43011055	C, Elec. 35V 4.7 μ F
C136	1102-1631	43011055	C, Elec. 35V 4.7 μ F
C137	1114-0555	42754057	C, Mylar 50V 3300pF \pm 10%
C138	1114-0555	42754057	C, Mylar 50V 3300pF \pm 10%
C139	1102-1631	43011055	C, Elec. 35V 4.7 μ F
C140	1102-1631	43011055	C, Elec. 35V 4.7 μ F
C141	1102-1367	42110425	C, Ceramic 50V 0.01 μ F
C142	1102-1367	42110425	C, Ceramic 50V 0.01 μ F
C143	1114-0050	42335060	C, Ceramic 50V 18pF \pm 10%
C144	1101-2663	42754063	C, Mylar 50V 0.01 μ F \pm 10%
C145	1102-1631	43011055	C, Elec. 35V 4.7 μ F
C146	1095-4030	43991066	C, Elec. 50V 1 μ F
C147	1101-2622	42110925	C, Ceramic 50V 0.01 μ F
C148	1102-1599	43011031	C, Elec. 16V 47 μ F
C149	1102-1367	42110425	C, Ceramic 50V 0.01 μ F
C150	1102-1649	43011065	C, Elec. 50V 0.47 μ F
C151	1102-1615	43011033	C, Elec. 16V 220 μ F
C152	1114-6230	42407164	C, Mica 50V 430pF \pm 5%
C153	1095-1275	42110433	C, Ceramic 50V 0.047 μ F
C154	1102-1359	42110413	C, Ceramic 50V 1000pF

Ref. No.	JCPenney Part No.	Supplier Part No.	Description	Ref. No.	JCPenney Part No.	Supplier Part No.	Description
C155	1095-1275	42110433	C, Ceramic 50V 0.047 μ F	R140	1100-8208	40102185	R, Carbon 3.3k Ω \pm 5% $\frac{1}{4}$ W
C156	1102-1615	43011033	C, Elec. 16V 220 μ F	R141	1100-8208	40102185	R, Carbon 3.3k Ω \pm 5% $\frac{1}{4}$ W
C157	1102-1615	43011033	C, Elec. 16V 220 μ F	R142	1100-8554	40102169	R, Carbon 680 Ω \pm 5% $\frac{1}{4}$ W
C158	1102-1615	43011033	C, Elec. 16V 220 μ F	R143	1100-8554	40102169	R, Carbon 680 Ω \pm 5% $\frac{1}{4}$ W
C159	1102-1367	42110425	C, Ceramic 50V 0.01 μ F	R144	1094-8727	40102239	R, Carbon 560 Ω \pm 5% $\frac{1}{4}$ W
C160	1102-1532	42754563	C, Mylar 50V 0.01 μ F \pm 10%	R145	1094-8727	40102239	R, Carbon 560 Ω \pm 5% $\frac{1}{4}$ W
CF101	1094-8479	61919005	Ceramic Filter 10.7MHz	R146	1095-3636	40102237	R, Carbon 470 Ω \pm 5% $\frac{1}{4}$ W
CF102	1094-8479	61919005	Ceramic Filter 10.7MHz	R147	1095-3636	40102237	R, Carbon 470 Ω \pm 5% $\frac{1}{4}$ W
CF103	1094-8479	61919005	Ceramic Filter 10.7MHz	R148	1099-9746	40102253	R, Carbon 2.2M Ω \pm 5% $\frac{1}{4}$ W
IC101	1114-6198	37902014	IC μ PC-555HF	R149	1099-9746	40102253	R, Carbon 2.2M Ω \pm 5% $\frac{1}{4}$ W
IC102	1094-8198	37902011	IC HA-1137W	R150	1094-8727	40102239	R, Carbon 560k Ω \pm 5% $\frac{1}{4}$ W
IC103	1094-8206	37902012	IC HA-1196	R151	1094-8727	40102239	R, Carbon 560k Ω \pm 5% $\frac{1}{4}$ W
IC104	1094-8214	37902013	IC HA-1151	R152	1095-3636	40102237	R, Carbon 470k Ω \pm 5% $\frac{1}{4}$ W
L101	1094-8412	61052047	Filter Coil 2.2 μ H	R153	1095-3636	40102237	R, Carbon 470k Ω \pm 5% $\frac{1}{4}$ W
L102	1094-8461	61911039	Filter Coil 18 μ H	R154	1100-8299	40102221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W
L104	1114-6339	61904266	AM OSC Coil	R155	1100-8299	40102221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W
LPF101	1094-8560	39907001	Low Pass Filter	R156	1095-1069	40102193	R, Carbon 6.8k Ω \pm 5% $\frac{1}{4}$ W
LPF102	1094-8560	39907001	Low Pass Filter	R157	1100-8539	40102153	R, Carbon 150 Ω \pm 5% $\frac{1}{4}$ W
R104	1100-8349	40112161	R, Carbon 330 Ω \pm 5% $\frac{1}{4}$ W	R158	1100-8281	40102215	R, Carbon 56k Ω \pm 5% $\frac{1}{4}$ W
R105	1100-8364	40112173	R, Carbon 1k Ω \pm 5% $\frac{1}{4}$ W	R159	1100-8190	40102181	R, Carbon 2.2k Ω \pm 5% $\frac{1}{4}$ W
R106	1100-8547	40102161	R, Carbon 330 Ω \pm 5% $\frac{1}{4}$ W	R160	1100-8224	40102191	R, Carbon 5.6k Ω \pm 5% $\frac{1}{4}$ W
R107	1100-8216	40102189	R, Carbon 4.7k Ω \pm 5% $\frac{1}{4}$ W	R161	1099-9753	40102707	R, Carbon 27k Ω \pm 5% $\frac{1}{4}$ W
R108	1094-8727	40102239	R, Carbon 560k Ω \pm 5% $\frac{1}{4}$ W	R162	1100-8265	40102207	R, Carbon 27k Ω \pm 5% $\frac{1}{4}$ W
R109	1100-8521	40102149	R, Carbon 100 Ω \pm 5% $\frac{1}{4}$ W	R163	1100-8232	40102197	R, Carbon 10k Ω \pm 5% $\frac{1}{4}$ W
R110	1100-8521	40102149	R, Carbon 100 Ω \pm 5% $\frac{1}{4}$ W	R164	1100-8265	40102207	R, Carbon 27k Ω \pm 5% $\frac{1}{4}$ W
R111	1100-8299	40102221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W	R166	1100-8273	40102213	R, Carbon 47k Ω \pm 5% $\frac{1}{4}$ W
R112	1099-9738	40102205	R, Carbon 22k Ω \pm 5% $\frac{1}{4}$ W	R167	1099-9688	40102159	R, Carbon 270 Ω \pm 5% $\frac{1}{4}$ W
R113	1100-8265	40102207	R, Carbon 27k Ω \pm 5% $\frac{1}{4}$ W	R168	1100-8216	40102189	R, Carbon 4.7k Ω \pm 5% $\frac{1}{4}$ W
R114	1100-8240	40102199	R, Carbon 12k Ω \pm 5% $\frac{1}{4}$ W	R169	1094-8719	40102209	R, Carbon 33k Ω \pm 5% $\frac{1}{4}$ W
R115	1100-8190	40102181	R, Carbon 2.2k Ω \pm 5% $\frac{1}{4}$ W	R170	1094-8719	40102209	R, Carbon 33k Ω \pm 5% $\frac{1}{4}$ W
R116	1100-8281	40102215	R, Carbon 56k Ω \pm 5% $\frac{1}{4}$ W	R171	1094-8719	40102209	R, Carbon 33k Ω \pm 5% $\frac{1}{4}$ W
R117	1100-8224	40102191	R, Carbon 5.6k Ω \pm 5% $\frac{1}{4}$ W	R172	1100-8232	40102197	R, Carbon 10k Ω \pm 5% $\frac{1}{4}$ W
R118	1100-8190	40102181	R, Carbon 2.2k Ω \pm 5% $\frac{1}{4}$ W	R173	1100-8273	40102213	R, Carbon 47k Ω \pm 5% $\frac{1}{4}$ W
R119	1100-8232	40102197	R, Carbon 10k Ω \pm 5% $\frac{1}{4}$ W	R174	1100-8521	40102149	R, Carbon 100 Ω \pm 5% $\frac{1}{4}$ W
R120	1099-9670	40102157	R, Carbon 220 Ω \pm 5% $\frac{1}{4}$ W	R175	1099-9720	40102137	R, Carbon 33 Ω \pm 5% $\frac{1}{4}$ W
R121	1100-8257	40102201	R, Carbon 15k Ω \pm 5% $\frac{1}{4}$ W	R178	1099-9662	40102129	R, Carbon 15 Ω \pm 5% $\frac{1}{4}$ W
R122	1100-8299	40102221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W	R179	1100-8190	40102181	R, Carbon 2.2k Ω \pm 5% $\frac{1}{4}$ W
R123	1094-8743	40102245	R, Carbon 1.0M Ω \pm 5% $\frac{1}{4}$ W	R180	1100-8299	40112221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W
R124	1094-9766	40112233	R, Carbon 330k Ω \pm 5% $\frac{1}{4}$ W	R181	1099-9795	40112191	R, Carbon 5.6k Ω \pm 5% $\frac{1}{4}$ W
R125	1100-8299	40102221	R, Carbon 100k Ω \pm 5% $\frac{1}{4}$ W	R182	1100-8562	40112173	R, Carbon 1k Ω \pm 5% $\frac{1}{4}$ W
R126	1100-8554	40102169	R, Carbon 680 Ω \pm 5% $\frac{1}{4}$ W	T101	1094-8420	61902022	IFT 10.7MHz
R127	1100-8224	40102191	R, Carbon 5.6k Ω \pm 5% $\frac{1}{4}$ W	T102	1102-1730	61919006	Ceramic Filter 455kHz
R128	1100-8224	40102191	R, Carbon 5.6k Ω \pm 5% $\frac{1}{4}$ W	T103	1094-8487	61902023	IFT 455kHz
R129	1095-1077	40102203	R, Carbon 18k Ω \pm 5% $\frac{1}{4}$ W	TR101	1094-8354	35047218	Transistor 2SC-945R
R131	1095-1069	40102193	R, Carbon 6.8k Ω \pm 5% $\frac{1}{4}$ W	TR102	1094-8354	35047218	Transistor 2SC-945R
R132	1095-1069	40102193	R, Carbon 6.8k Ω \pm 5% $\frac{1}{4}$ W	TR103	1094-8354	35047218	Transistor 2SC-945R
R133	1094-8719	40102209	R, Carbon 33k Ω \pm 5% $\frac{1}{4}$ W	TR104	1094-8354	35047218	Transistor 2SC-945R
R134	1094-8719	40102209	R, Carbon 33k Ω \pm 5% $\frac{1}{4}$ W	TR105	1094-8354	35047218	Transistor 2SC-945R
R135	1100-8273	40102213	R, Carbon 47k Ω \pm 5% $\frac{1}{4}$ W	TR106	1114-6180	35990103	FET 2SK-30D
R136	1100-8273	40102213	R, Carbon 47k Ω \pm 5% $\frac{1}{4}$ W	TR107	1114-6180	35990103	FET 2SK-30D
R137	1100-8562	40102173	R, Carbon 1k Ω \pm 5% $\frac{1}{4}$ W	VR101	1094-8388	41061008	R, Variable 4.7k Ω
R138	1100-8208	40102185	R, Carbon 3.3k Ω \pm 5% $\frac{1}{4}$ W	VR102	1094-8396	41950031	R, Variable 200k Ω
R139	1100-8208	40102185	R, Carbon 3.3k Ω \pm 5% $\frac{1}{4}$ W		1121-1513	87324B01	PCB IF Ass'y ①

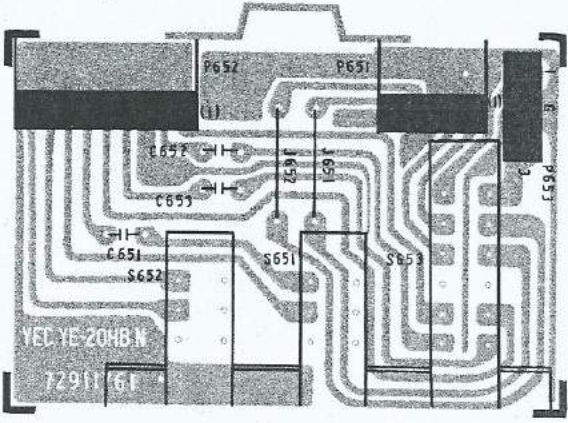
① Field repair. Don't exchange.

Switch P.C. Board

— Component Side —



— Solder Side —

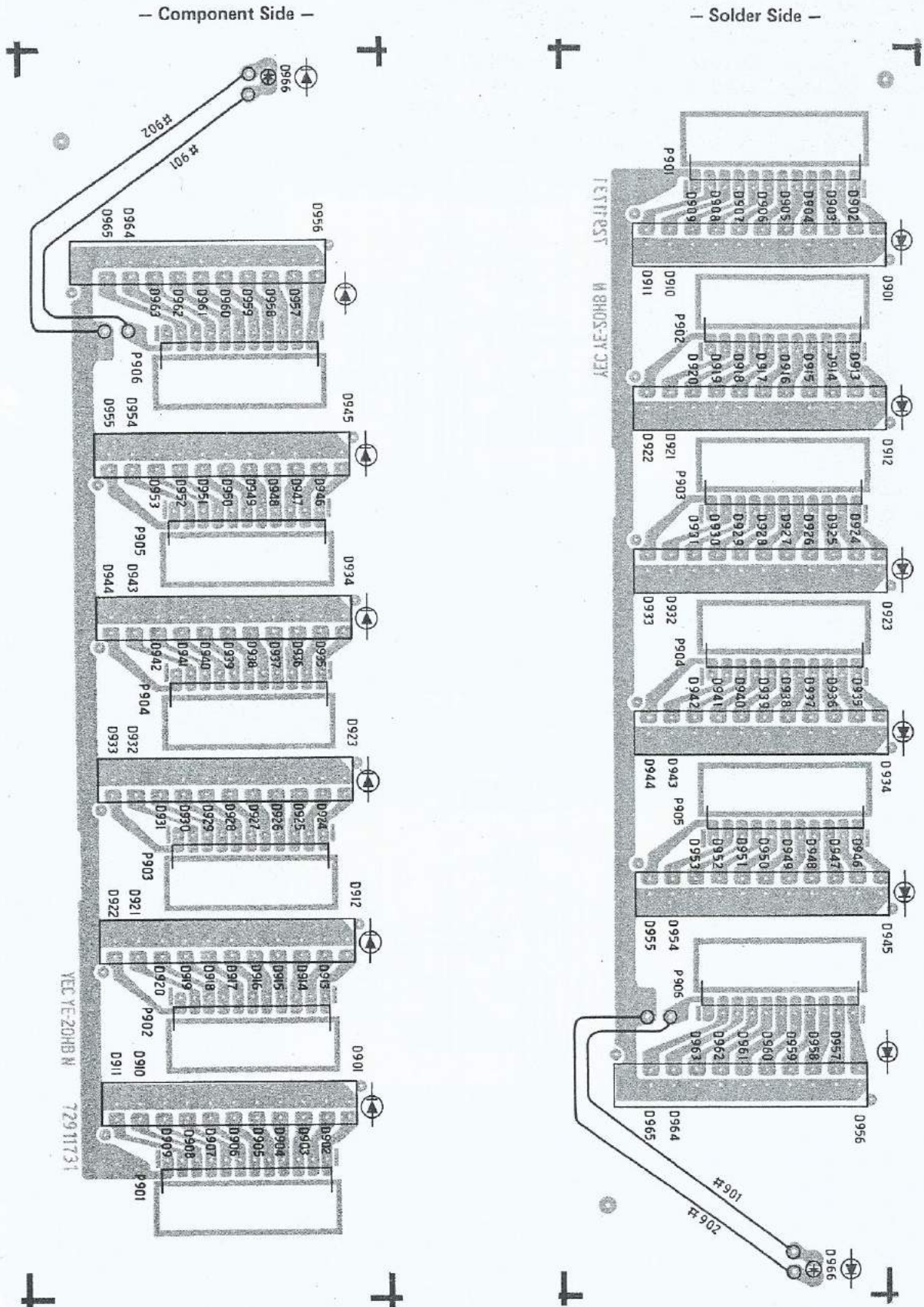


Switch P.C. Board

Ref. No.	JCPenney Part No.	Supplier Part No.	Description
C651	1102-1540	42754065	C, Mylar 50V 0.015 μ F \pm 10%
C652	1114-0589	42970019	C, Poly. 50V 1200pF \pm 5%
C653	1114-0589	42970019	C, Poly. 50V 1200pF \pm 5%
S651	1120-4005	65904101	Push Switch (3 Section)
	1120-4146	70905176	Connector 9P
	1121-1604	70905172	Connector 5P
	1117-5171	87324L01	PCB Switch Ass'y ①

① Field repair. Don't exchange.

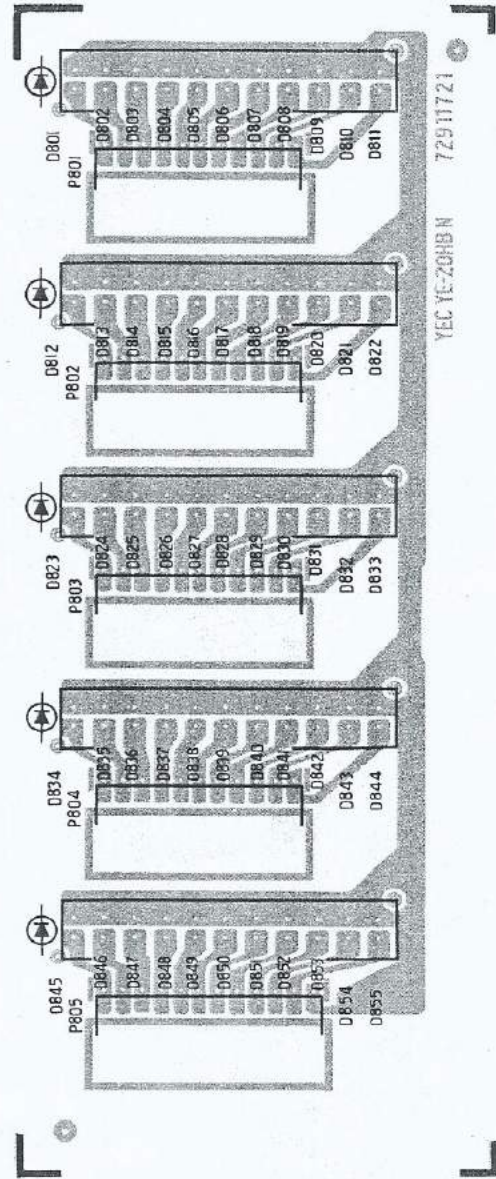
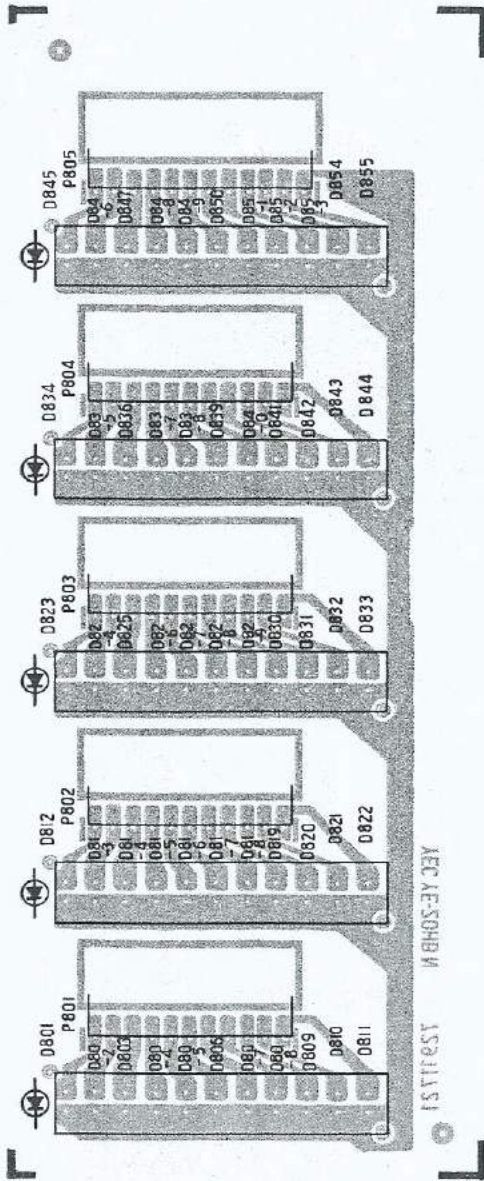
LED (L) P.C. Board



LED (R) P. C. Board

— Component Side —

— Solder Side —



LED P.C. Board (For L and R channels)

Ref. No.	JCPenney Part No.	Supplier Part No.	Description
	1099-8847	36904037	LED, TLR205
	1120-4179	70905202	Connector (180) 11P
	1120-4187	70905203	Connector (180) 12P
	1121-1562	87324G01	PCB LED (L) Ass'y ①
	1121-1570	87324H01	PCB LED (R) Ass'y ①

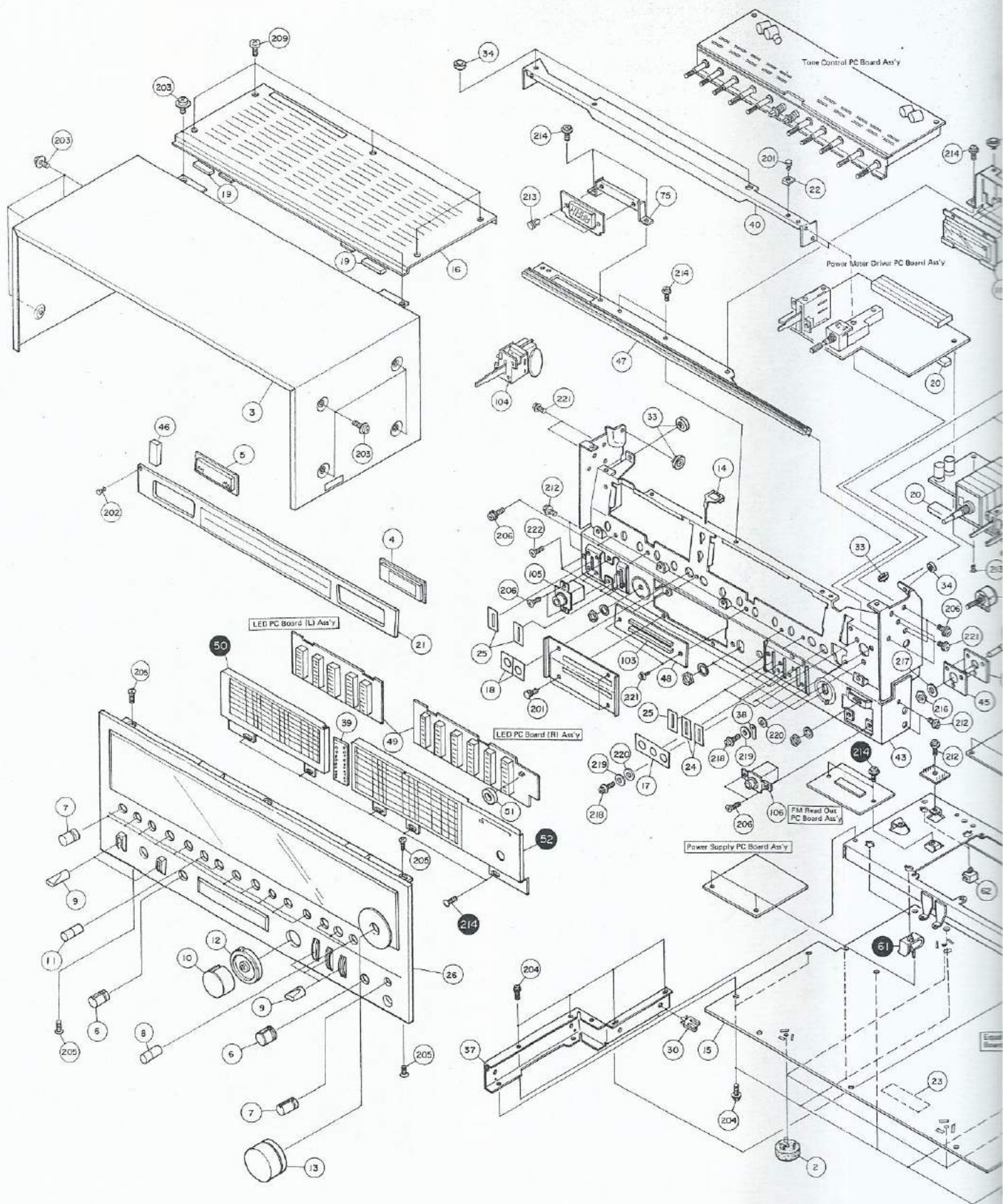
① Field repair. Don't exchange.

Misellaneous

Ref. No.	JCPenney Part No.	Supplier Part No.	Description
R001	1094-9782	40003577	R, Solid 2.2M Ω 1/2W
C001	1094-9824	42099018	C, Ceramic 125V 0.01 μ F UL
C006	1095-1291	42110933	C, Ceramic 50V 0.047 μ F
C007	1095-1291	42110933	C, Ceramic 50V 0.047 μ F
C008	1095-1291	42110933	C, Ceramic 50V 0.047 μ F
C009	1095-1291	42110933	C, Ceramic 50V 0.047 μ F
	1114-6321	61601007	Balun
FU501	1120-4088	66901044	Fuse 125V 800mA
FU502	1120-4088	66901044	Fuse 125V 800mA
FU503	1120-4062	66651402	Fuse 125V 3A
	1120-5234	73099063	Connector 10P (A) (power meter)
	1120-5242	73099064	Connector 12P (B) (power meter)
	1120-5259	73099065	Connector 12P (C) (power meter)
	1120-5267	73099066	Connector 4P (Dolby Adapter Switch)
	1120-5275	73099067	Connector 5P (Function PWB - Switch PWB)
	1120-5283	73099068	Connector 11P (Function Indicator)
	1120-5317	73099071	Connector 11P (FM/AM Signal meter)
	1094-8503	62910005	FM Antenna
		78911341	Instruction Book
		78950722	Warranty Card
		78951041	Show Card
	1103-5987	79759118	Speaker Cord
	1120-5309	73099070	Connector 4P (Power Transformer)
	1120-5291	73099069	Connector 9P (Power Transformer)

① See wiring diagram on Page 25.

Exploded View of Set



Cabinet and Chassis Parts List

Ref. No.	JCPenney Part No.	Supplier Part No.	Description	Ref. No.	JCPenney Part No.	Supplier Part No.	Description	Ref. No.
1	1115-8938	18282851	Joint Pin	55	1099-8318	18513041	Rear Panel	201
2	1114-4722	18286241	Foot (UL)	56	1099-8415	24280261	Cord Clamper	202
3	1099-4440	18355011	Cabinet Ass'y	57	1094-9295	18281491	Bar Antenna Holder	203
4	1099-4481	18403081	Filter (R)	58	1094-9253	11622821	Eyelet	204
5	1099-4515	18403091	Filter (L)	59	1103-5383	18511841	Spring Coil	205
6	1101-9320	18454691	Rotary Knob	60	1099-8342	18513121	Holder (R)	206
7	1103-5136	18455041	Tone Knob	61	1099-4374	18286762	P.C. Board Holder (A)	207
8	1103-5144	18455071	Push Knob	62	1099-4382	18286771	P.C. Board Holder (B)	208
9	1103-5151	18455301	Lever Knob	63	1099-8243	18512921	Chassis Base (F)	209
10	1099-4598	18456341	Attenuator Knob	64	1099-4432	18287721	Bushing	210
11	1099-4606	18456351	Push Knob	65	1099-8250	18512941	Chassis Base (B)	211
12	1099-4630	18456361	Balance Knob	66	1114-1819	18752531	Caution Label (Fuse)	212
13	1099-4648	18456371	Tuning Knob	67	1099-8185	18512861	Heat Sink Holder (LF)	213
14	1101-9387	18510911	Dial Pointer	68	1099-8201	18512881	Heat Sink Holder (LB)	214
15	1099-8276	18512981	Bottom Chassis	69	1099-8227	18512901	Heat Sink (L)	215
16	1099-8557	18513031	Board	70	1099-8367	18513261	Holder (L)	216
17	1094-9527	18602761	Blind Board (B)	71	1099-8177	18512851	Heat Sink Holder (RF)	217
18	1114-0480	18602981	Sheet	72	1099-8193	18512871	Heat Sink Holder (RB)	218
19	1099-8409	18603431	Cushion	73	1099-8219	18512891	Holder (R)	219
20	1099-8425	18603451	Cushion	74	1099-8235	18512911	Heat Sink (R)	220
21	1099-8441	18709491	Dial Scale	75	1099-8334	18513111	Fluorescent Holder	221
22	1099-8466	18709521	Scale Holder	101	1101-9510	67900129	Pilot Lamp 12V 5W	222
23	1114-1801	18750351	Caution Label (A)	102	1094-9964	71902044	Lamp Holder	223
24	1114-1959	19603771	Sheet (L)	103	1099-8854	36904038	LED Power Meter Unit	224
25	1114-1967	19603781	Sheet (S)	104	1095-1796	65804067	Power Switch	225
26	1120-5325	88324631	Front Panel Ass'y	105	1094-9949	70905148	Headphone Jack	226
27	1099-4663	18511032	Reflector	106	1120-4195	70905204	Microphone Jack	227
28	1094-9428	18511041	Reflector Holder	107	1105-5811	41950288	Volume, 50K	228
29	1114-4722	18282841	Wire Tie	108	1094-9931	70905138	ac Outlet 3P	229
30	1099-4325	18282961	Wire Clip	109	1094-9972	71903016	Fuse Holder	230
31	1094-9329	18285941	Lug	110	1114-6560	71903024	Output Terminal, Speakers	
32	1099-4341	18286002	Dial Drum	111	1095-3099	71905027	Antenna Terminal	
33	1103-5102	18286011	Pulley	112	1114-0738	71905067	4P Input Jack, Phono	
34	1099-4424	18287711	Pulley	113	1114-0753	71905073	4P Input Jack, Tape 2, Dolby NR, Main-Pre	
35	1094-9337	18504221	Lug					
36	1099-4754	18512831	Side Chassis (R)	114	1114-0779	71905105	6P Input Jack, AUX, Tape 1	
37	1099-8169	18512841	Side Chassis (L)	115	1120-4989	71905112	Ground Terminal	
38	1114-1405	11628501	Lug Terminal	116	1103-5979	79759115	Power Supply Cord	
39	1099-4556	18403101	Board (LED)	117	1120-3932	61903025	Bar Antenna	
40	1099-8268	18512971	Dial Pointer Rail	118	1120-4104	67930002	Fluorescent Meter Unit	
41	1099-8284	18512991	P.C. Board Holder	119	1099-8649	34401109	FM Tuner	
42	1099-8292	18513001	Tuning Shaft	120	1095-0871	71905029	Ground Terminal	
43	1099-8326	18513051	Sub Chassis Ass'y	P.T	1120-3916	45006092	Power Transformer	
44	1099-8359	18513131	Tuning Shaft Holder	FU				
45	1099-8391	18603391	Insulation Board	001	1120-4070	66901043	Fuse 125V 6A	
46	1099-8417	18603441	Light Shield Sheet	C002	1114-0076	43910033	C. Elec. 80V 6800µF	
47	1099-8433	18709461	Dial Sash	C003	1114-0076	43910033	C. Elec. 80V 6800µF	
48	1099-8458	18709511	Meter Display Board	C004	1114-0076	43910033	C. Elec. 80V 6800µF	
49	1099-4473	18403071	LED Holder	C005	1114-0076	43910033	C. Elec. 80V 6800µF	
50	1099-8482	18709541	LED Display Board (L)	TR				
51	1099-8383	18601611	Collar	221		35922017	Transistor 2SB-706Q	
52	1099-8474	18709531	LED Display Board (R)		1099-8748	35922018	Transistor 2SB-706R	
53	1094-9279	18280881	Bushing	220	1121-1687	35962717	Transistor 2SD-746Q	
54	1094-9303	18281761	Bar Antenna Clamper		1099-8771	35962718	Transistor 2SD-746R	

Description	Ref. No.	JCPenney Part No.	Supplier Part No.	Description	Ref. No.	JCPenney Part No.	Supplier Part No.	Description
	201	1103-5466	18850871	Push Revet				
	202	1103-5474	18852571	Push Revet				
Holder	203	1101-2184	18852671	Special Screw				
	204	1099-8623	24851701	Tapping Screw M4 x 8				
	205	1094-9725	24851971	Assembled Screw M3 x 8				
	206	1094-9659	23850871	Assembled Screw M3 x 5				
Holder (A)	207	1094-9675	23850951	Assembled Screw M3 x 8				
Holder (B)	208	1095-0152	91450302	Nut M3				
(F)	209	1121-1653	91664013	Round Head Tapping Screw 4 x 8				
(B)	210	1094-9592	18852251	Round Heat Screw M3 x 8				
(Fuse)	211	1099-8599	18853571	Special Nut				
Holder (LF)	212	1114-2007	24851551	Tapping Screw 3 x 8				
Holder (LB)	213	1094-9717	24851801	Push Revet				
	214	1094-9733	24852441	Tapping Screw 3 x 8				
	215	1099-8631	24852581	Special Washer				
Holder (RF)	216	1094-9550	18851751	Nut M9				
Holder (RB)	217	1094-9568	18851761	Spring Washer T0.7				
	218	1099-8565	18852161	Assembled Screw M3 x 10				
	219	1099-8573	18853261	Special Washer				
Holder	220	1099-8581	18853541	Insulation Bush				
2V 5W	221	1094-9709	24851541	Tapping Screw 3 x 6				
	222	1095-0145	91053032	Flat Head Screw M3 x 6				
Meter Unit	223	1094-9618	18852741	Special Screw				
	224	1094-9626	18852771	Round Head Tapping Screw 3 x 8				
Jack	225	1094-9634	18852811	Round Head Tapping Screw 3 x 12				
Jack								
K	226	1114-6578	91053066	Flat Head Screw M3 x 10				
	227	1099-8540	18852651	Assembled Screw M3 x 12				
	228	1094-9600	18852691	Tapping Screw 4 x 8				
Final, Speakers								
Final								
k, Phono								
k, Tape 2,								
Main-Pre								
k, AUX, Tape 1								
Final								
y Cord								
Meter Unit								
Final								
former								
A								
6800 μ F								
6800 μ F								
6800 μ F								
6800 μ F								
B-706Q								
B-706R								
D-746Q								
D-746R								

Do not discard !

Supplement A

Form No. CM-174

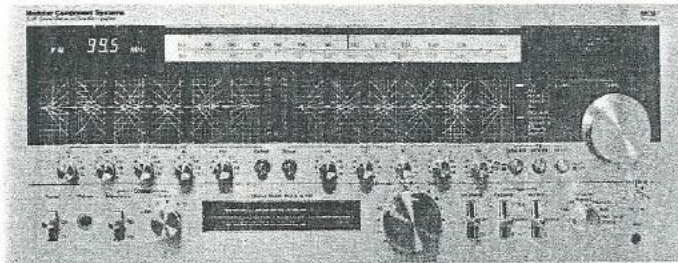
Models Affected: Model 3125 with Product Service No. 683-3125-00

AM/FM-MPX STEREO RECEIVER

ITO
74995

Model No. 3125 Catalog No. 853-2301

Product Service No. 683-3125-00



Use this supplement, together with Form No. CM-174 Original Issue, to Service Model 3125.

Form No. CM-174 Supplement A

Form No. CM-174 Supplement A

The following parts are added as alternates on page 31 and page 33 in. Form No. CM-174 Original Issue.

Assembly Name	Ref. No.	JCPenney Part No.	Supplier Part No.	Description
MIC & OSC P.C. Board	TR401 (or)		35902207	Transistor 2SA906G
Equalizer P.C. Board	TR 01 (or)		35902207	Transistor 2SA906G
Equalizer P.C. Board	TR 02 (or)		35902207	Transistor 2SA906G
Equalizer P.C. Board	TR 03 (or)		39502207	Transistor 2SA906G
Equalizer P.C. Board	TR 04 (or)		35902207	Transistor 2SA906G

IMPORTANT: The Base Emitter leads location of 2SA906G is reversed to 2SA991 used originally. When replacing 2SA906G, insert it from component side reversed to the P.C. Board pattern.

