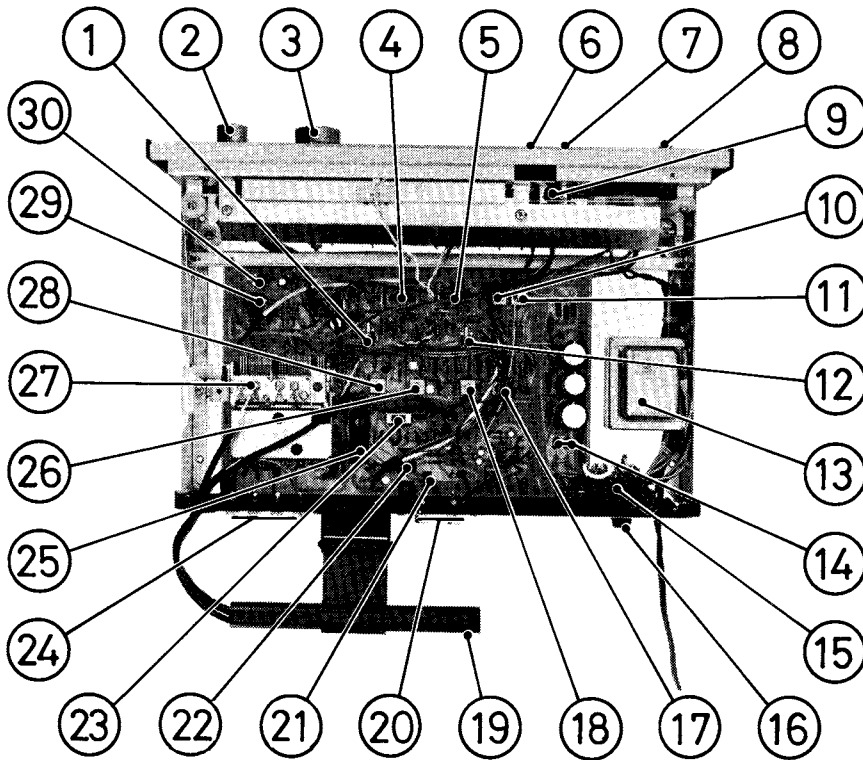


technical manual

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CHASSIS LAYOUT



- | | |
|--|--|
| 1. VR802, FM Meter Level Adj. | 16. F001, AC Fuse |
| 2. Function Selector | 17. T203, AM IFT 3rd |
| 3. Tuning Knob | 18. T202, AM IFT 2nd |
| 4. IC101, FM IF 2nd Amp. | 19. L002, AM Antenna Coil |
| 5. IC102, FM IF 3rd Amp. | 20. Output Jacks |
| 6. S3, FM Muting Switch | 21. VR301, FM Stereo Separation Adj. |
| 7. S2, FM MPX Filter Switch | 22. IC301, FM MPX Decoder |
| 8. S4, Power Switch | 23. S5, FM De-emphasis Selector Switch |
| 9. PL8, FM Stereo Indicator Lamp | 24. AM/FM Antenna Terminal Strip |
| 10. T101, FM IFT Ratio (PRI.) | 25. L301, MPX Coil 19KHz/38KHz Tone |
| 11. T102, FM IFT Ratio (SEC.) | 26. T202, AM IFT 1st |
| 12. VR101, FM Mono-Stereo Switching Level Adj. | 27. AM/FM Front end |
| 13. T001, Power Transformer | 28. L201, AM OSC Coil |
| 14. D701, 702, Rectifier | 29. L801, FM Muting Coil, 10.7MHz Tone |
| 15. Line Voltage Selector | 30. VR801, FM Muting Level Adj. |

PRECAUTIONS

1. Always disconnect the chassis from power line when soldering. Turning the power switch OFF is not enough. Power leakage paths through the heating element may destroy transistors and IC.
2. Never attempt to do any work on the transistor amplifiers without first disconnecting the AC line cord and waiting until the power supply filter capacitors have discharged.

AM ALIGNMENT PROCEDURE

Instruments: AM Signal Generator and AC VTVM.

NOTES: Set Selector switch to AM position.

Input signal must be kept as low as possible to avoid AVC action.

Step	Generator		Turning Dial Setting	Output Indicator Connected to	Adjust	Adjust for
	Coupling	Frequency				
1	Tr202 Base through a 0.01 mfd capacitor.	455 KHz (400 Hz 30% Mod.)	Non interfering at low end of scale.	AC VTVM to OUT-PUT jack.	T203, T202 and T201	Maximum reading on VTVM.
2	Connect to short loop of wire. Radiate signal into ferrite loopstick antenna.	600 KHz (400 Hz 30% Mod.)	600 KHz		L201 (OSC) L002 (ANT)	
3		1400 KHz (400 Hz 30% Mod.)	1400 KHz		CT5 (OSC) CT4 (ANT) (on Front end)	
4	Repeat steps 2 and 3 until no further improvement is noticed.					

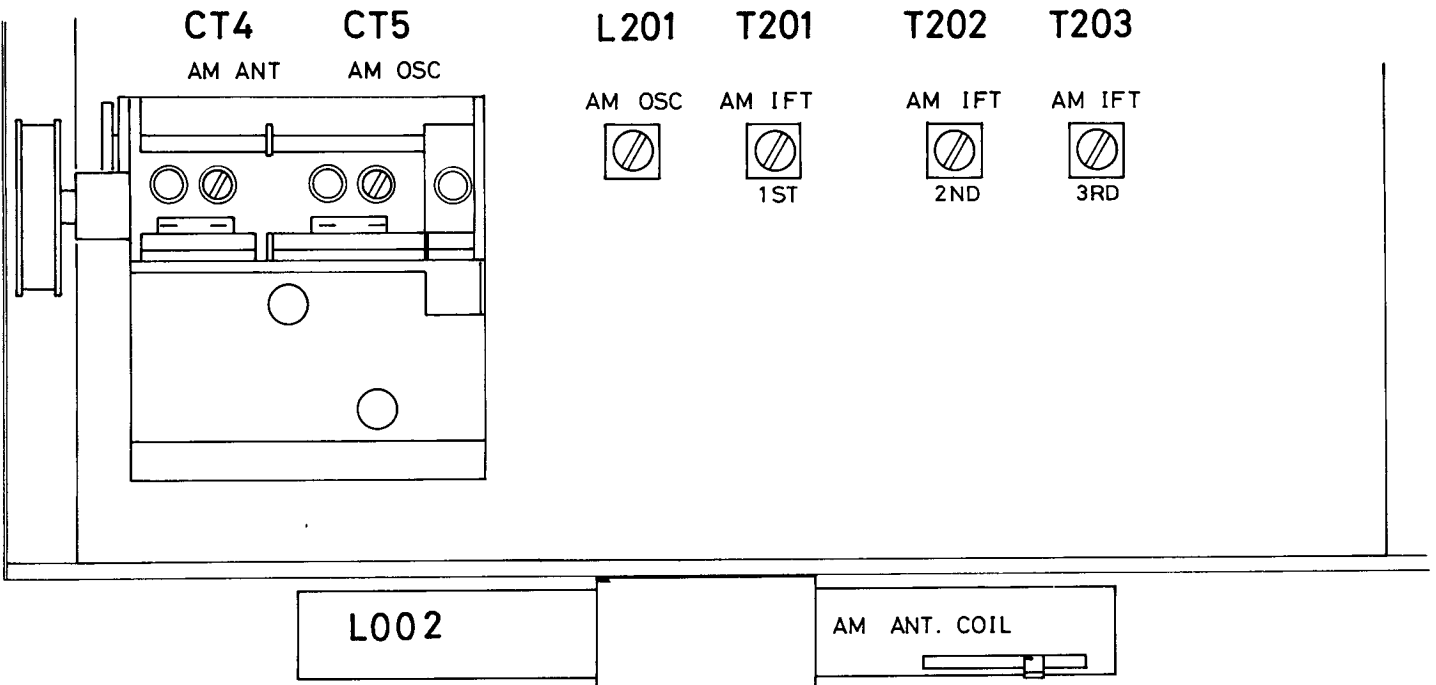


Figure 1. Chassis Top View AM Portion

FM IF & RF ALIGNMENT PROCEDURE

Instruments: FM Signal Generator, Oscilloscope and H.D. Analyzer.

- Set Selector Switch to "FM" position.
- Set Muting Switch and MPX Fil. Switch to "OFF" position.
- Set Potentiometer VR101 to mid-position.
- Connect FM Signal Generator to FM Antenna Terminals.
- Connect Oscilloscope and H.D. Analyzer to OUTPUT Jack.

A. FM IF Alignment

1. Set Signal Generator Frequency at 98MHz (400Hz, 100% Mod.) and adjust the receiver to maximum output point by turning the tuning knob. (The antenna terminal voltage should be 1mV).
2. Adjust oscillation to maximum point by adjusting T102 and T1 (Front end).
3. Set distortion to minimum by adjusting T101.

B. FM RF Alignment

1. Set Signal Generator frequency to 106MHz and also the receiver to 106MHz on the dial board by turning a tuning knob. Adjust CT3 to obtain maximum output level.
2. Set the receiver to 90MHz, then Signal Generator frequency to 90MHz until the output of the receiver becomes maximum. Make sure Signal Generator frequency stays within 90MHz ~ ±150KHz.
3. Sensitivity on this alignment must be attempted at 106MHz by adjusting CT1 and CT2 to obtain maximum point and fine tune to balance sensitivity at 90MHz and 106MHz.

4. Adjust Coils L3 (FM OSC) and L2 (FM RF) as described below only when tracking and sensitivity adjustments are not attained by adjusting CT1, CT2 and CT3.
 - a. Fine tune Signal Generator and receiver to 90MHz and adjust L2 and L3 so that maximum output is obtained.
 - b. Fine tune Signal Generator and receiver to 106MHz and adjust CT1, CT2 and CT3 so that maximum output is obtained.
 - c. Repeat steps a and b to obtain enough effect.

CAUTION: Bandpass Filters (X101 and X102) incorporated in FM IF circuit are classified into 5 divisions according to their center frequencies. It is thus necessary to use the same frequency division in case of exchanging the Bandpass Filter. Divisions of bandpass frequencies are indicated by colored dots as shown in the following chart.

Red	10.70MHz	±30KHz
Blue	10.67MHz	±30KHz
Orange	10.73MHz	±30KHz
Black	10.64MHz	±30KHz
White	10.76MHz	±30KHz

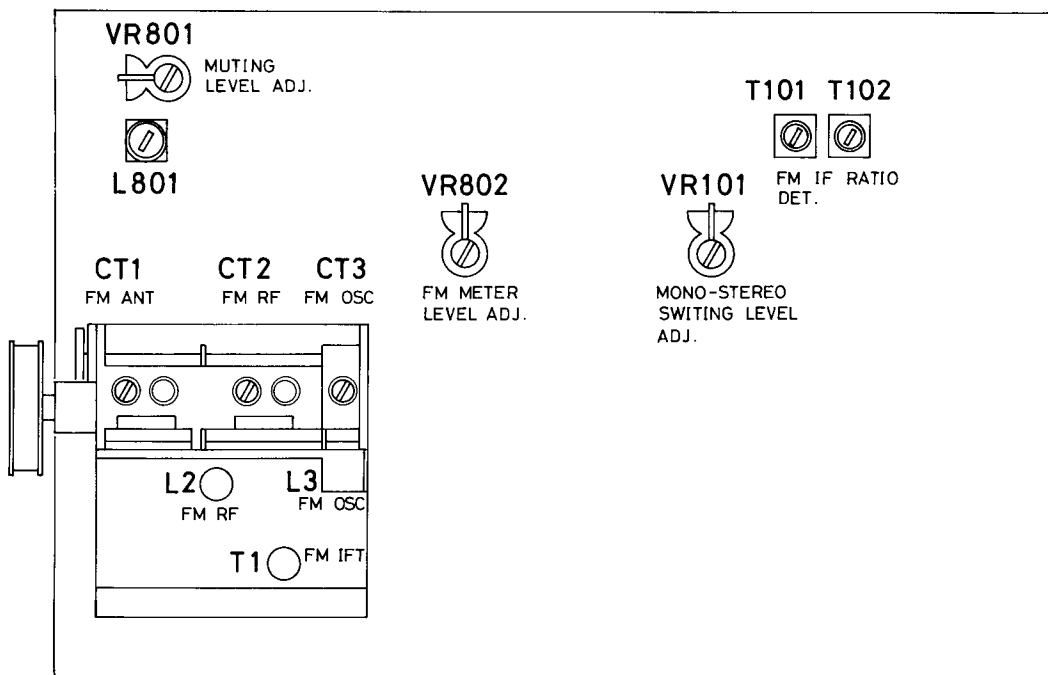


Figure 2. Chassis Top View FM Portion

FM MPX ALIGNMENT PROCEDURE

Instruments: FM Stereo Generator, AC VTVM and Oscilloscope.

NOTE: The FM IF Amplifier Alignment must be completed before attempting this FM-Stereo Alignment.

Poor IF alignment will result in poor FM-Stereo Adjustment.

Set Separation Adj. VR301 to mid-position.

Set Selector switch to FM Stereo.

Connect Stereo Generator to FM antenna terminals.

Step	Stereo Generator		Output Indicator Connected to	Adjust	Adjust for
	Modulation	RF Deviation			
1	19 KHz Pilot signal only	2 – 5%	Oscilloscope to Test Point	L301 (Black, Yellow)	Maximum Amplitude on scope.
2	Composite 1 KHz signal to Left channel only	Pilot 10% Signal 70%	Oscilloscope and VTVM to Left channel OUTPUT jack.	L301 (Yellow)	Maximum and undistorted sine wave on scope.
3			Oscilloscope and VTVM to Right channel OUTPUT jack.	VR301	
4	Composite 1 KHz signal to Right channel only		Same as in step 2		
5	Repeat the steps 3 and 4 until no further improvement is noticed.				

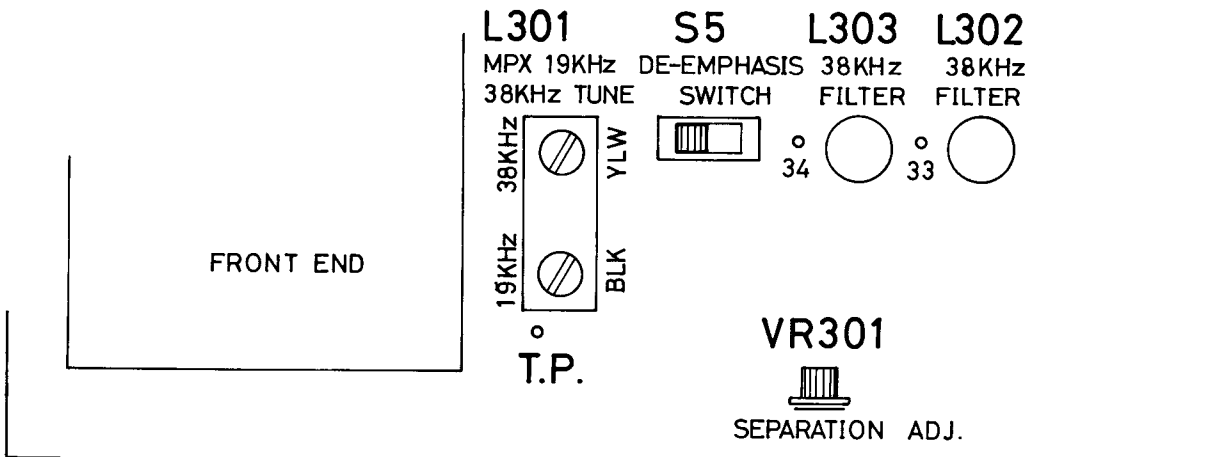


Figure 3. Chassis Top View FM MPX Portion

FM MONO-STEREO AUTOMATIC SWITCHING LEVEL

ADJUSTMENT PROCEDURE

1. Connect a VTVM and Oscilloscope to the OUTPUT jack (LEFT or Right).
2. Feed the FM signal whose MPX has been varied into the FM ANT terminals.
MPX VARIATION:
Pilot 10%
Modulation Frequency 1KHz Left or Right
RF Deviation ± 45 KHz
3. Set the frequency at 98 MHz (when there is disrupting signal, choose another setting).
4. Set the Selector switch to FM.
5. Turn CCW the MONO – STEREO Auto-switching Level Adj. VR101; this is a condition in which Auto-switching does not function.
6. Adjust the FM MPX so that the distortion and separation will be best.
7. Adjust the VR101 so that when the antenna input level is $30\mu\text{V}$ or more, Stereo will switch in and when the input is below the $30\mu\text{V}$ level, Mono will switch in.
8. After adjustment, check to make sure that, indeed, when the antenna input level exceeds $30\mu\text{V}$, Stereo will switch in.

FM METER LEVEL & FM MUTING LEVEL

ADJUSTMENT PROCEDURE

FM METER LEVEL ADJUSTMENT

Note: The FM IF and FM RF alignment must be completed before attempting this Adjustment.

Set the antenna input level (terminal voltage) to 1-mV by controlling the Signal Generator. Adjust the potentiometer VR802 so that the Tuning Meter indicates toward "8" on the scale.

FM MUTING LEVEL ADJUSTMENT

Note: The circuit on FM IF and FM RF should be set in proper way before the following steps of muting adjustment are taken.

Instrument: FM Signal Generator and Oscilloscope.

Set Selector switch to "FM" and Muting switch to "ON" position.

Connect the FM Signal Generator to the FM antenna terminals and connect oscilloscope to the output jack (Left or Right

channel).

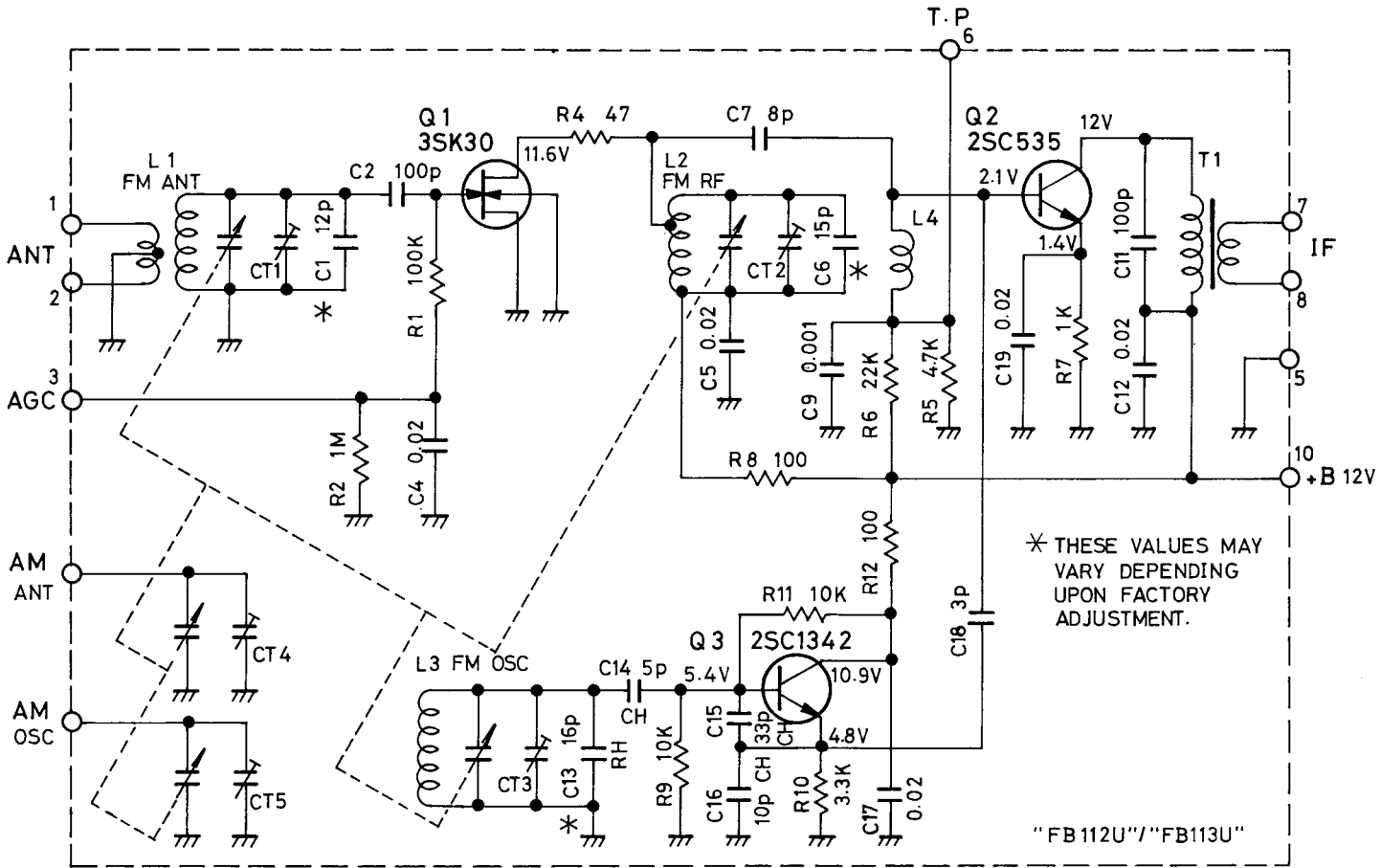
Set the frequency at 98 MHz (when there is disrupting signal, choose another setting).

1. Rotate potentiometer VR801 (for Muting Level Adjustment) and adjust it to the point where output waveform just disappears on oscilloscope.
2. Next, adjust L801 to obtain maximum output waveform on oscilloscope.
3. Adjust Signal Generator output level to obtain antenna input level of $30\mu\text{V}$.
4. Rotate VR801 and set it to the point where output waveform just disappears.
5. Make sure that output waveform just appears on oscilloscope when antenna input level becomes $100\mu\text{V}$ by increasing the FM Signal Generator output level, and it disappears when antenna input level becomes $30\mu\text{V}$ again by decreasing the FM Signal Generator output level.

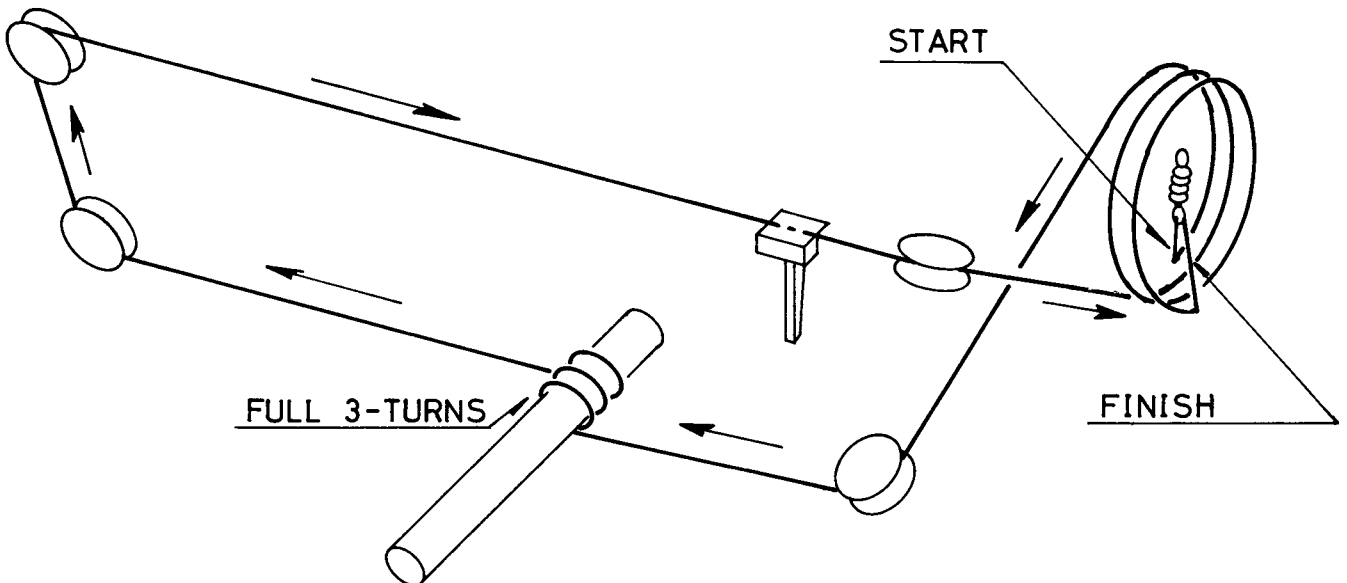
TROUBLE SHOOTING

- I. Both AM and FM are inoperative,
 - A. If the Dial lamps do not light, check to see if the AC fuse F001, is not blown.
 1. If AC fuse is blown,
 - a. Power Transformer, T001 may be shorted out, or
 - b. Capacitor, C701 or 702 may be shorted out, or
 - c. Rectifier, D701 or 702 may be shorted out.
 2. If AC fuse is not blown,
 - a. Power Switch, S4 may be faulty, or
 - b. Fuse Connection may be faulty.
 - B. If the Dial lamps do light, measure voltage at B2 (refer to circuit diagram).
 1. If there is no voltage at B1,
 - a. Power Transformer may be faulty, or
 - b. Capacitor, C001 may be shorted out, or
 - c. Front end may be faulty.
(+B circuit on front end may be shorted out).
- II. AM is inoperative,
 - A. Measure voltage at pin No. 20 (refer circuit diagram).
 1. If there is no voltage,
 - a. Selector switch connection may be faulty.
 2. If there is proper voltage,
 - a. Transistor Q201, 202 or 203 may be faulty, or
 - b. Coil L201 may be faulty, or
 - c. IFT T201, 202 or 203 may be faulty.
- III. FM is inoperative,
 - A. Check to see if there is signal at pin No. 3 of IC301.
 1. If there is no signal,
 - a. IC101 or 102 may be faulty, or
 - b. Transistor Q101 may be faulty, or
 - c. Coil T101 or 102 may be faulty, or
 - d. Capacitor C301 may be faulty, or
 - e. Front end may be faulty.
 2. If there is signal, (Muting switch "OUT" position)
 - a. IC301 may be faulty, or
 - b. Muting switch connection may be faulty.

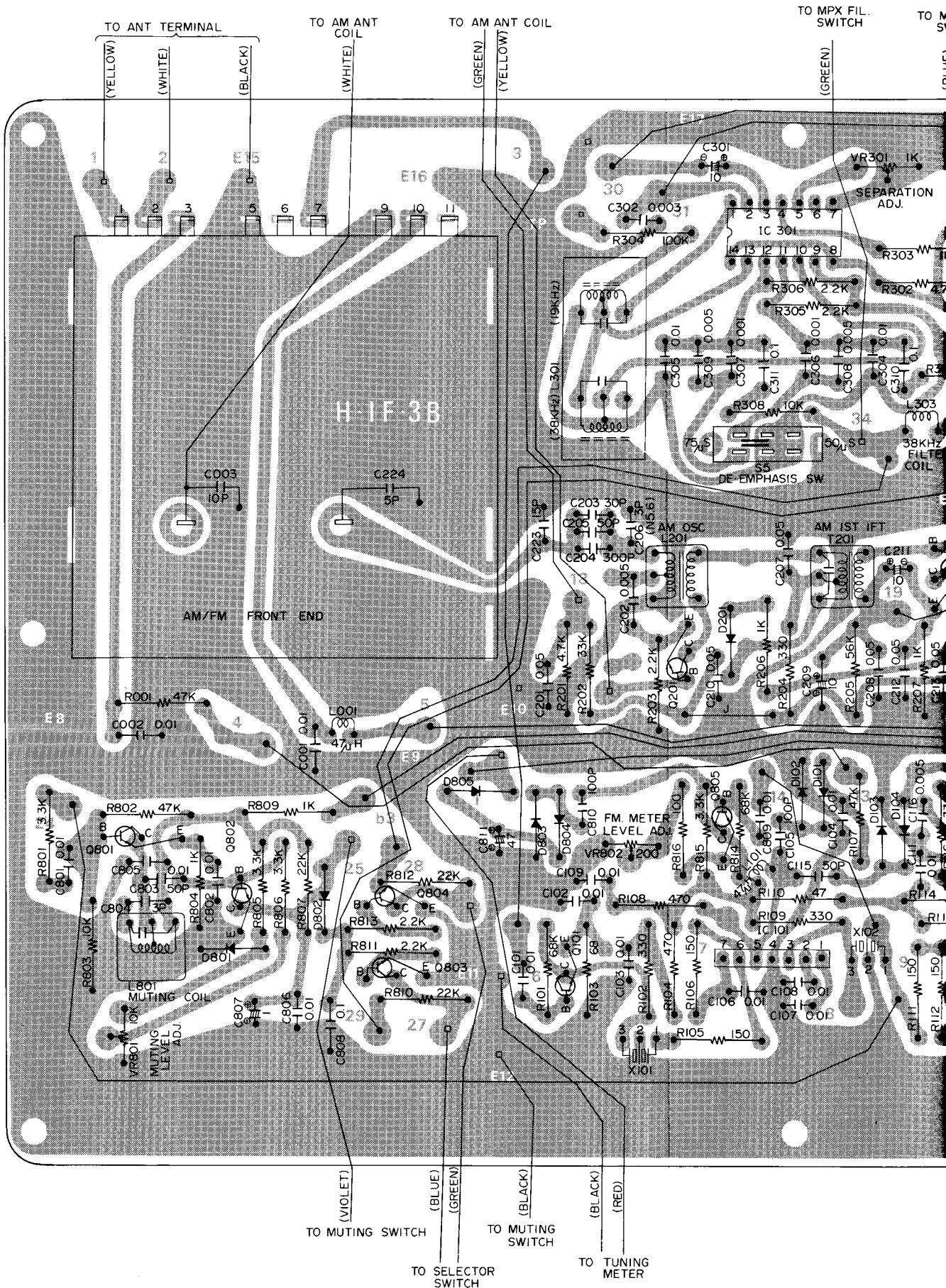
FRONT END SCHEMATIC DIAGRAM



DIAL STRINGING DIAGRAM



CIRCUIT BOARD DIAGRAM



PT COIL

TO MPX FIL. SWITCH

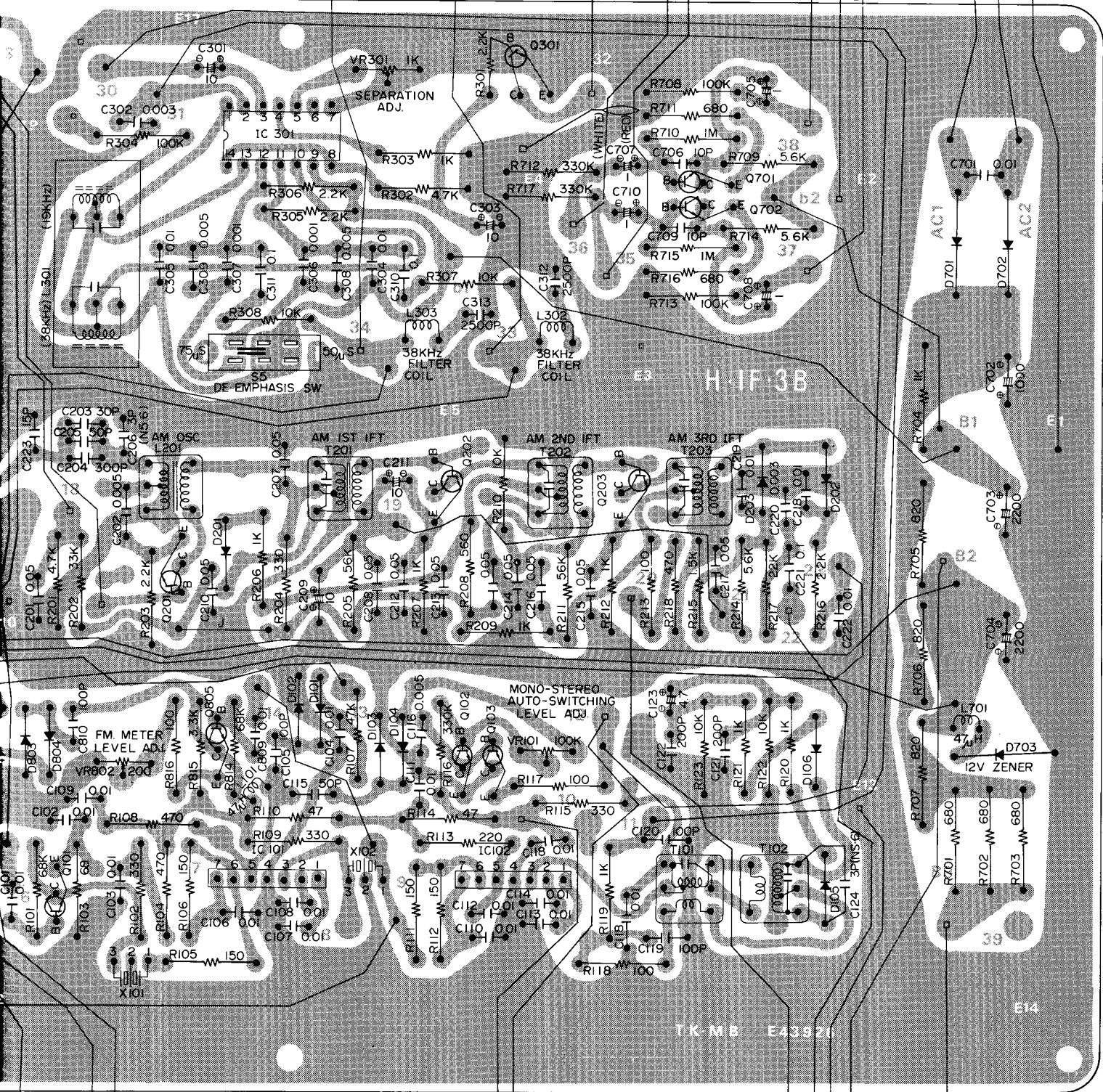
TO MPX FIL. SWITCH

TO STEREO IND. LAMP

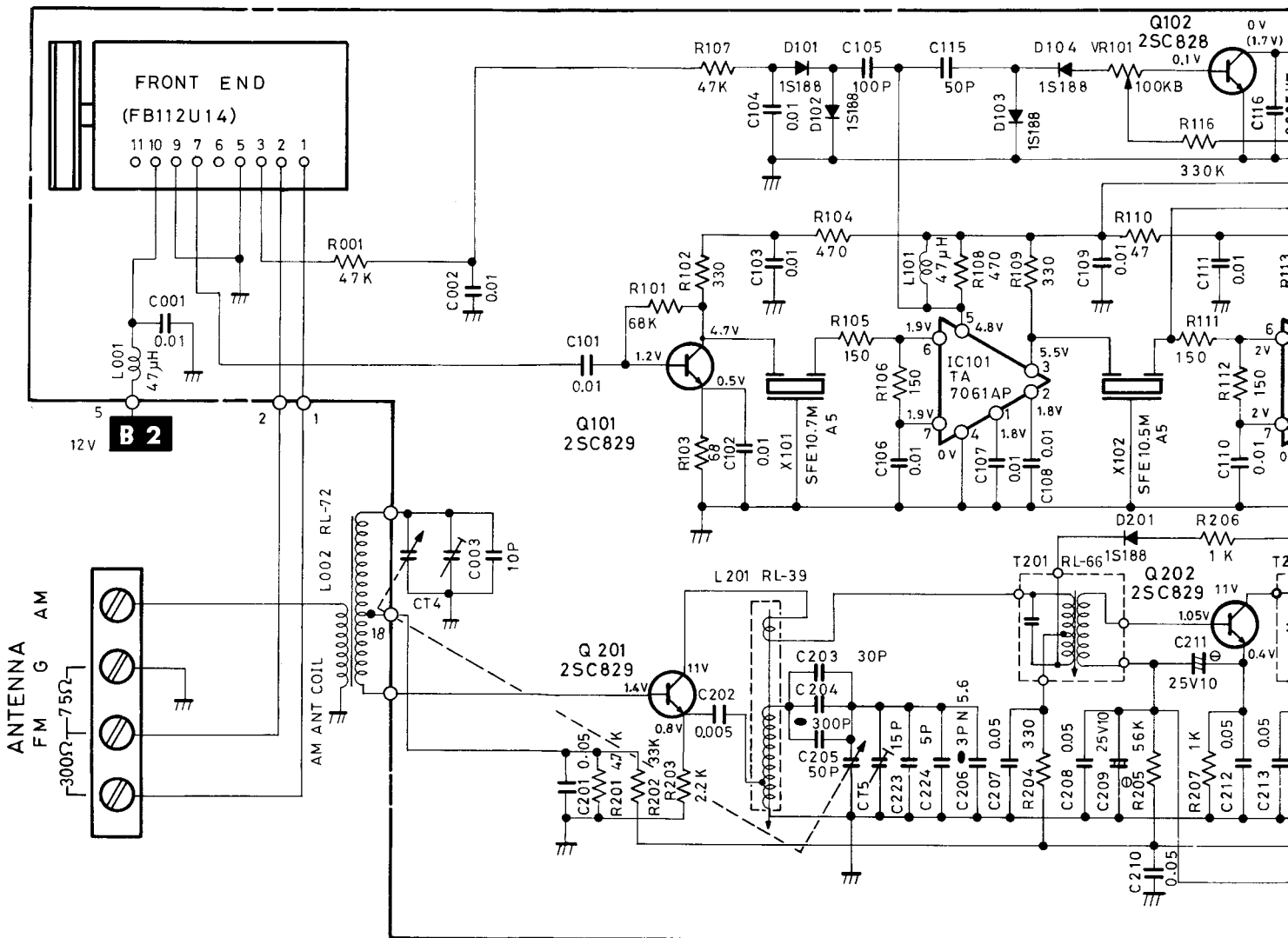
TO SELECTOR SWITCH

TO OUTPUT JACK

TO POWER TRANS.



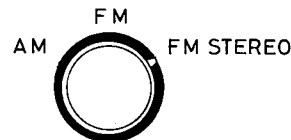
SCHEMATIC DIAGRAM



CERAMIC FILTER

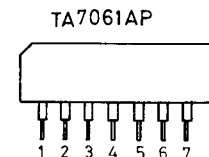
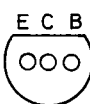
	RED (A)	BLUE (B)	ORANGE (C)
CENTER FREQ	10.7MHz	10.67MHz	10.73MHz
FREQ	±30KHz	±30KHz	±30KHz

ITEM	SCHEMATIC LOCATION	
	C	R
FM IF AMP	C124	R123
AM IF AMP	C224	R218
FM MUTING	C811	R816
FM MPX	C313	R308
AF AMP & POWER SUPPLY	C710	R717

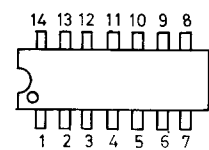


(BOTTOM VIEW)

- 2SC536
- 2SA564A
- 2SC829
- 2SC828
- 2SC1384



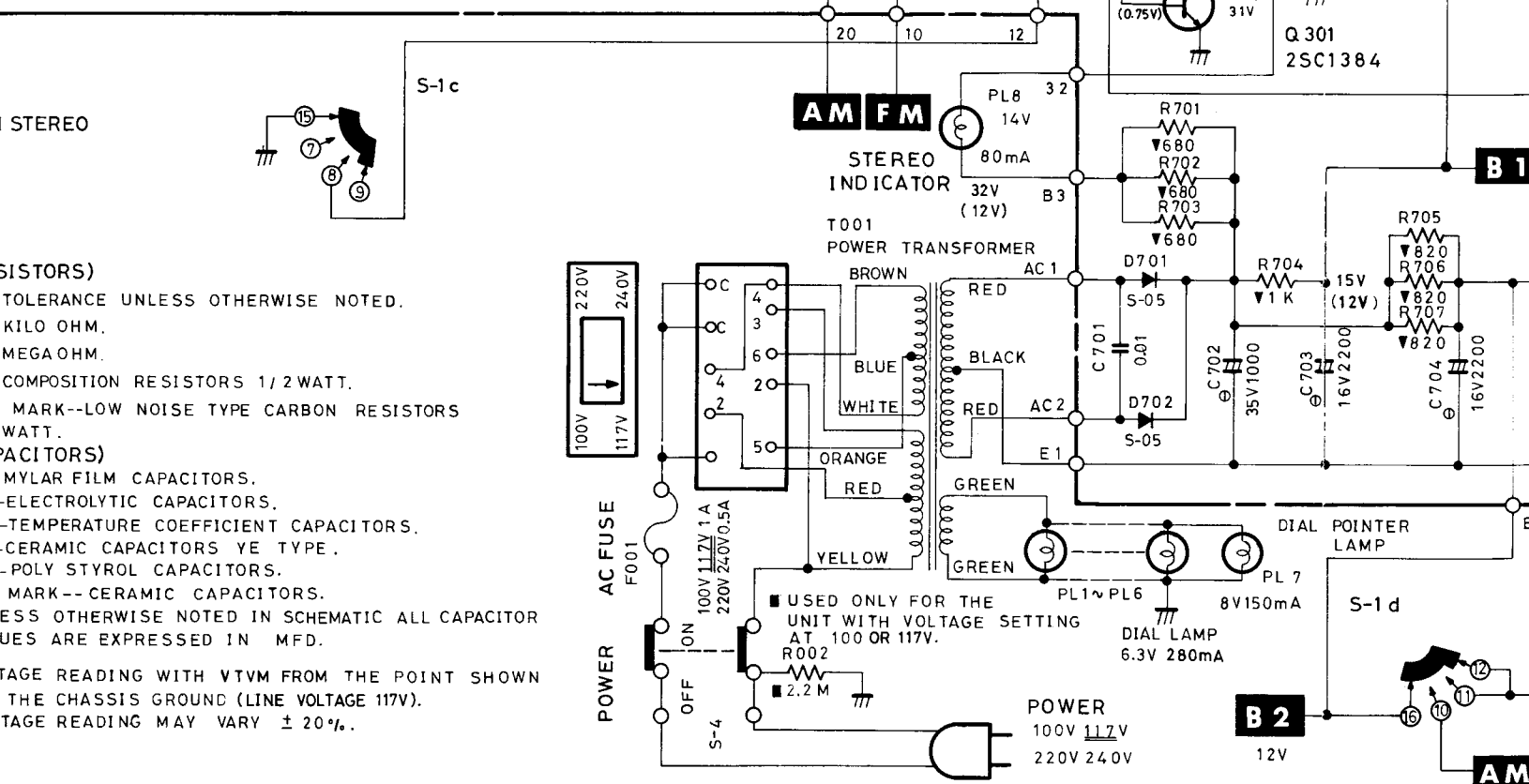
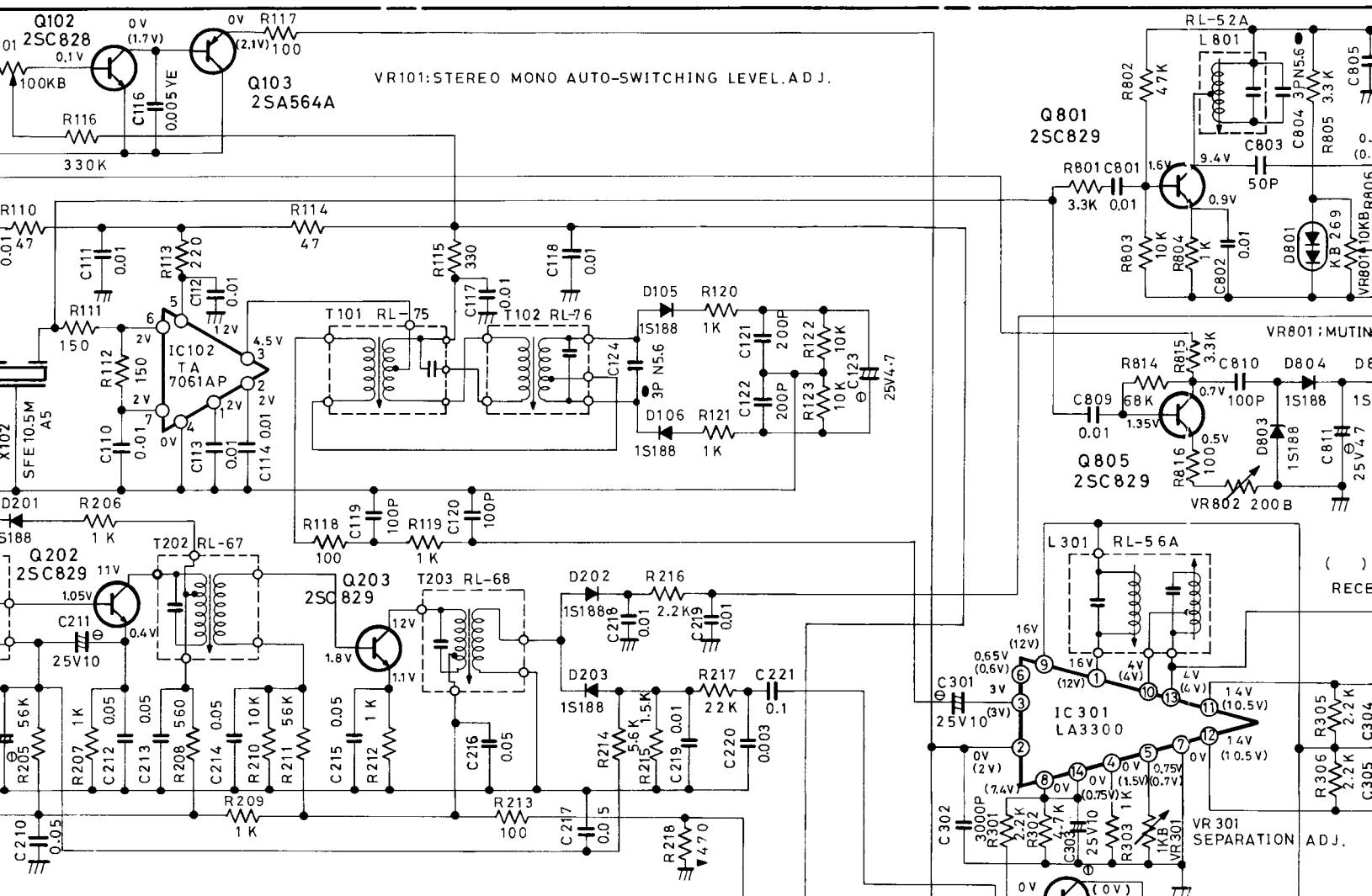
(TOP VIEW)



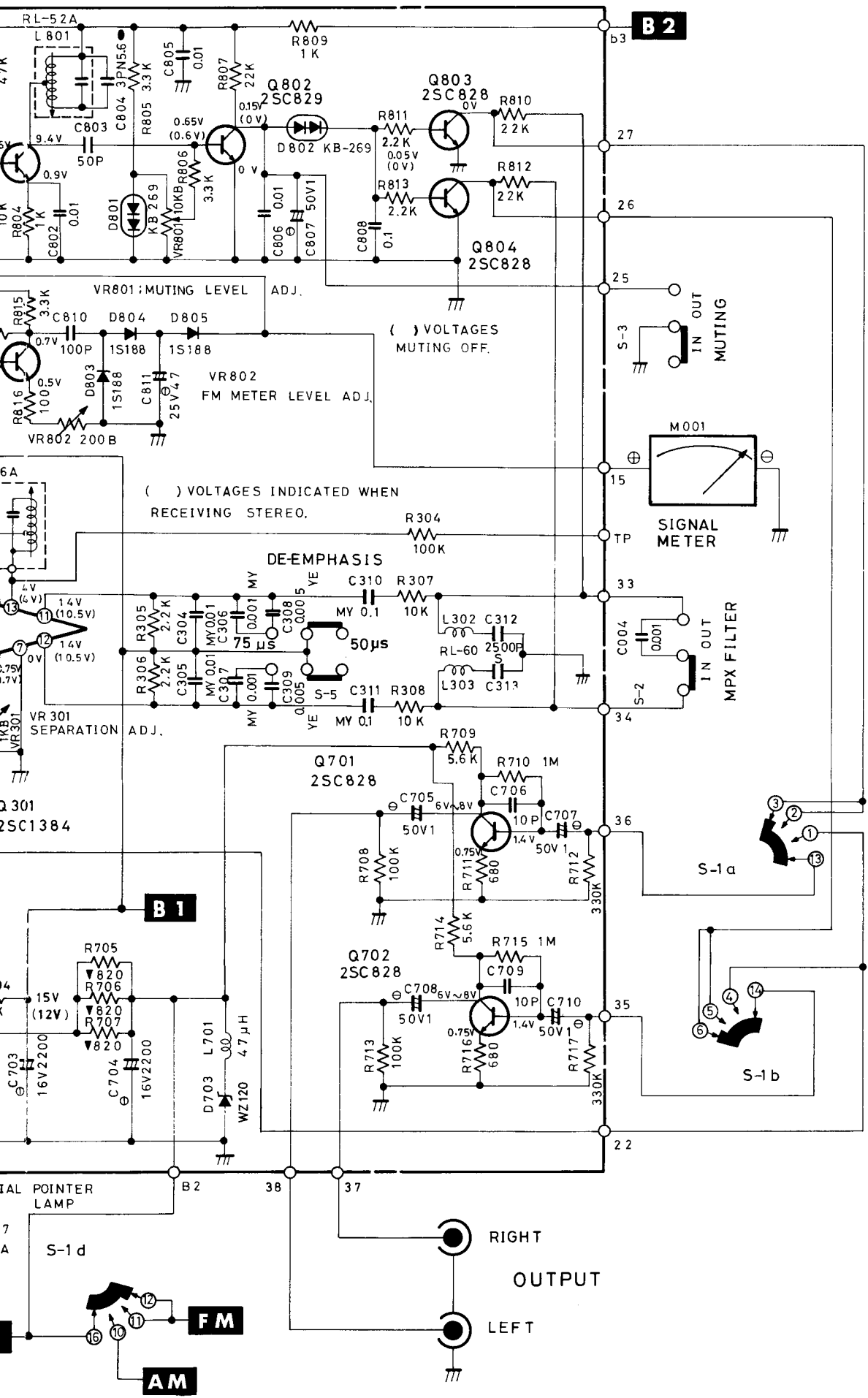
(RESISTORS)

5% TOLERANCE UNLESS
 K---KILO OHM.
 M---MEGA OHM.
 ▽---COMPOSITION RESISTOR
 NON MARK--LOW NOISE
 1/4 WATT.
 (CAPACITORS)
 MY--MYLAR FILM CAPACITOR
 ▭--ELECTROLYTIC CAPACITOR
 ●---TEMPERATURE COEFFICIENT
 YE--CERAMIC CAPACITOR
 S---POLY STYROL CAPACITOR
 NON MARK--CERAMIC CAPACITOR
 UNLESS OTHERWISE NOTED
 VALUES ARE EXPRESSED IN P.F.

VOLTAGE READING WITH RESISTOR
 TO THE CHASSIS GROUND
 VOLTAGE READING MAY VARY



(RESISTORS)
 TOLERANCE UNLESS OTHERWISE NOTED.
 KILO OHM.
 MEGA OHM.
 COMPOSITION RESISTORS 1/2 WATT.
 MARK--LOW NOISE TYPE CARBON RESISTORS
 WATT.
 (CAPACITORS)
 MYLAR FILM CAPACITORS.
 ELECTROLYTIC CAPACITORS.
 TEMPERATURE COEFFICIENT CAPACITORS.
 CERAMIC CAPACITORS YE TYPE.
 POLY STYROL CAPACITORS.
 MARK-- CERAMIC CAPACITORS.
 UNLESS OTHERWISE NOTED IN SCHEMATIC ALL CAPACITOR
 VALUES ARE EXPRESSED IN MFD.
 VOLTAGE READING WITH VTVM FROM THE POINT SHOWN
 TO THE CHASSIS GROUND (LINE VOLTAGE 117V).
 VOLTAGE READING MAY VARY ± 20%.



PARTS LIST

Schematic Location	Part No.	Description
RESISTORS		
R101	552068322	Carbon Film, 68K ±5%, 1/4W
R102, 109, } R115	552033122	Carbon Film, 330 ±5%, 1/4W
R103	552068022	Carbon Film, 68 ±5%, 1/4W
R104, 108	552047122	Carbon Film, 470 ±5%, 1/4W
R105, 106, } R111, 112	552015122	Carbon Film, 150 ±5%, 1/4W
R107	552047322	Carbon Film, 47K ±5%, 1/4W
R110, 114	552047022	Carbon Film, 47 ±5%, 1/4W
R113	552022122	Carbon Film, 220 ±5%, 1/4W
R116	552033422	Carbon Film, 330K ±5%, 1/4W
R117, 118	552010122	Carbon Film, 100 ±5%, 1/4W
R119, 120, } R121	552010222	Carbon Film, 1K ±5%, 1/4W
R122, 123	552010322	Carbon Film, 10K ±5%, 1/4W
VR101	510502130	Potentiometer, 100K, Mono-Stereo Auto-switching Level Adj.
R201	552047222	Carbon Film, 4.7K ±5%, 1/4W
R202	552033322	Carbon Film, 33K ±5%, 1/4W
R203, 216	552022222	Carbon Film, 2.2K ±5%, 1/4W
R204	552033122	Carbon Film, 330 ±5%, 1/4W
R205, 211	552056322	Carbon Film, 56K ±5%, 1/4W
R206, 207, } R209, 212	552010222	Carbon Film, 1K ±5%, 1/4W
R208	552056122	Carbon Film, 560 ±5%, 1/4W
R210	552010322	Carbon Film, 10K ±5%, 1/4W
R213	552010122	Carbon Film, 100 ±5%, 1/4W
R214	552056222	Carbon Film, 5.6K ±5%, 1/4W
R215	552015222	Carbon Film, 1.5K ±5%, 1/4W
R217	552022322	Carbon Film, 22K ±5%, 1/4W
R218	551047133	Composition, 470 ±10%, 1/2W
R301, 305, } R306	552022222	Carbon Film, 2.2K ±5%, 1/4W
R302	552047222	Carbon Film, 4.7K ±5%, 1/4W
R303	552010222	Carbon Film, 1K ±5%, 1/4W
R304	552010422	Carbon Film, 100K ±5%, 1/4W
R307, 308	552010322	Carbon Film, 10K ±5%, 1/4W
VR301	510502119	Potentiometer, 1K, Separation Adj.
R701, 702, } R703	551068133	Composition, 680 ±10%, 1/2W
R704	551010233	Composition, 1K ±10%, 1/2W
R705, 706, } R707	551082133	Composition, 820 ±10%, 1/2W
R708, 713	552010433	Carbon Film, 100K ±5%, 1/4W
R709, 714	552056222	Carbon Film, 5.6K ±5%, 1/4W
R710, 715	552010522	Carbon Film, 1M ±5%, 1/4W
R711, 716	552068122	Carbon Film, 680 ±5%, 1/4W
R712, 717	552033422	Carbon Film, 330K ±5%, 1/4W
R801, 805, } R806, 815	552033222	Carbon Film, 3.3K ±5%, 1/4W
R802	552047322	Carbon Film, 47K ±5%, 1/4W
R803	552010322	Carbon Film, 10K ±5%, 1/4W

Schematic Location	Part No.	Description
R804, 809	552010222	Carbon Film, 1K ±5%, 1/4W
R807, 810, } R812	552022322	Carbon Film, 22K ±5%, 1/4W
R808		Not used
R811, 813	552022222	Carbon Film, 2.2K ±5%, 1/4W
R814	552068322	Carbon Film, 68K ±5%, 1/4W
R816	552010122	Carbon Film, 100 ±5%, 1/4W
VR801	510502126	Potentiometer, 10K, Muting Level Adj.
VR802	510502129	Potentiometer, 200, FM Meter Level Adj.
CAPACITORS		
C101, 102, } C103, 104, } C106, 107, } C108, 109, } C110, 111, } C112, 113, } C114, 117, } C118	440100985	Ceramic, 0.01mfd, 250V
C105, 119, } C120	440101183	Ceramic, 100pF ±10%, 250V
C121, 122	440201183	Ceramic, 200pF ±10%, 250V
C123	402470729	Electrolytic, 4.7mfd, 25V
C115	440501283	Ceramic, 50pF ±10%, 250V
C116	442501033	Ceramic, 0.005mfd ±10%, 50V
C201, 207, } C208, 210, } C212, 213, } C214, 215, } C216, 217	440500935	Ceramic, 0.05mfd, 50V
C202	440501085	Ceramic, 0.005mfd, 250V
C203	440301283	Ceramic, 30pF ±10%, 250V
C204	441301130	Ceramic, 300pF, NPO, 50V
C205	440501283	Ceramic, 50pF ±10%, 250V
C206	441301336	Ceramic, 3pF, N5.6, 50V
C209, 211	402100629	Electrolytic, 10mfd, 25V
C218, 219, } C222	440100985	Ceramic, 0.01mfd, 250V
C220	442301033	Ceramic, 0.003mfd ±10%, 50V
C221	440100835	Ceramic, 0.1mfd, 50V
C223	440151283	Ceramic, 10pF ±10%, 250V
C224	440501388	Ceramic, 5pF ±0.5pF, 250V
C301, 303	402100629	Electrolytic, 10mfd, 25V
C302	442301033	Ceramic, 0.003mfd ±10%, 50V
C304, 305	450100933	Mylar Film, 0.01mfd ±10%, 50V
C306, 306	450101033	Mylar Film, 0.001mfd ±10%, 50V
C308, 309	450501033	Mylar Film, 0.005mfd ±10%, 50V
C310, 311	450100933	Mylar Film, 0.1mfd ±10%, 50V
C312, 313	454251033	Polystyrene Film, 2500pF ±10%, 50V
C701	440100985	Ceramic, 0.01mfd, 250V
C702	402100439	Electrolytic, 1000mfd, 35V
C703, 704	402220419	Electrolytic, 2200mfd, 16V

Schematic		
Location	Part No.	Description
C705, 707, } C708, 710 }	402100749	Electrolytic, 1mfd, 50V
C706, 709	440101283	Ceramic, 10pF ±10%, 250V
C801, 802, } C805, 806, } C809	440100985	Ceramic, 0.01mfd, 250V
C803	440501283	Ceramic, 50pF ±10%, 50V
C804	441301336	Ceramic, 3pF, N5.6, 50V
C807	402100749	Electrolytic, 1mfd, 50V
C808	440100835	Ceramic, 0.1mfd, 50V
C810	440101183	Ceramic, 100pF ±10%, 250V
C811	402470629	Electrolytic, 47mfd, 25V
TRANSISTORS AND DIODES		
Q101	301201117	2SC829C, FM IF 1st Amp.
Q102	301201115	2SC828, Stereo Auto-switching Amp.
Q103	301001117	2SA564A, Stereo Auto-switching Amp.
IC101, 102	303452146	TA7061AP, FM IF Amp.
D101, 102, } D103, 104, } D105 106 }	300111008	1S188, FM Det., AGC Rect., etc.
Q201, 202, } Q203	301201117	2SC829C, AM Conv. & IF Amp.
D201, 202, } D203	300111008	1S188, AM Det., Overload Protector
Q301	301201132	2SC1384, FM Stereo Ind. Driver
IC301	303452145	LA3300, FM MPX Decoder
Q701, 702	301201115	2SC828, Audio Amp.
D701, 702	300919008	S-05-02, Rectifier
D703	300313003	WZ120, Zener Regulator, 12V, 0.5W
Q801, 802, } Q805	301201117	2SC829C, FM Muting, FM Meter Amp.
Q803, 804	301201115	2SC828, FM Muting
D801, 802	300212004	KB-269, FM Muting
COILS AND TRANSFORMERS		
T101	225501125	FM IFT, Ratio Det., RL-75
T102	225501126	FM IFT, Ratio Det., RL-76
X101, 102	229101134	Bandpass Filter, 10.7MHz, SFE10.7MA5 (Red Mark).
L101	220001121	RF Choke, 47 micro-Henry
T201	225301125	AM IFT, 1st, RL-66
T202	225301126	AM IFT, 2nd, RL-67
T203	225301127	AM IFT, 3rd, RL-68
L201	223301124	AM OSC, RL-39
L301	225601129	MPX 19KHz/38KHz tune, RL-56A
L302, 303	228641114	MPX 38KHz Filter, RL-60
L701	220001121	RF Choke, 47 micro-Henry
L801	226501115	Muting 10.7MHz tune, RL-52A
L001	220001121	RF Choke, 47 micro-Henry

Schematic		
Location	Part No.	Description
RESISTOR		
R001	552047322	Carbon Film, 47K ±5%, 1/4W
CAPACITORS		
C001, 002	440100985	Ceramic, 0.01mfd, 250V
C003	440101283	Ceramic, 10pF ±10%, 250V
	321304368	AM/FM Front end
S5	613000024	Switch, De-emphasis
	651300013	Dial Pulley
	770101225	Pin, Terminal
	140300346	Printed Circuit Board "H-IF-3"
	141311351	AM/FM Circuit Board Assembly
	131011245	Cabinet
	111911278	Front Panel
	116310054	Knob, Tuning
	116310053	Knob, Function Selector
	116210012	Button, Power switch
	116210008	Button, Muting & MPX Filter switch
	112011262	Dial Board
	151691121	Dial Pointer w/lamp (PL7)
T001	205001344	Power Transformer (100-120-220-240V)
L002	222391121	AM Antenna Coil
R002*	551022533	Resistor, Composition, 2.2M ±10%, 1/2W
C004	442101033	Capacitor, Ceramic, 0.001mfd ±10%, 50V
M001	231310019	Meter, Tuning
PL1, 2, 3, } PL4, 5, 6, }	352063028	Lamp, 6.3V, 0.28A, Dial Illumination
PL7	351080015	Lamp, 8V, 0.15A, Dial Pointer Light
PL8	351140008	Lamp, 14V, 80mA, FM Stereo Indicator
F001	341220010	Fuse, 1A-3AG, (100-120V area)
	341220005	Fuse, 0.5A-3AG, (220-240V area)
S1	601011247	Switch, Function Selector
S2, 3 (1 set)	614020402	Switch, Push 2-keys, Muting & MPX Fil.
S4	614010106	Switch, Push 1-key, Power Supply
	648211115	Bracket, Dial Lamp
	648211127	Bracket, Fuse
	648211121	Voltage Selector
	624100102	Pin Jack, 2P, Output
	641200104	Antenna Terminal Strip, 4P
	796301115	Power Supply Cord (UL/CSA)
	791001111	FM Indoor Antenna, T type, 300-ohm
	791001112	Shield Wire w/plug
	812001232	Packing Case
	811001222	Filter
	815001218	Styroform Molding
	855003560	Vinyl Bag, Packing
*used only for the unit with voltage setting at 100 — 120V.		