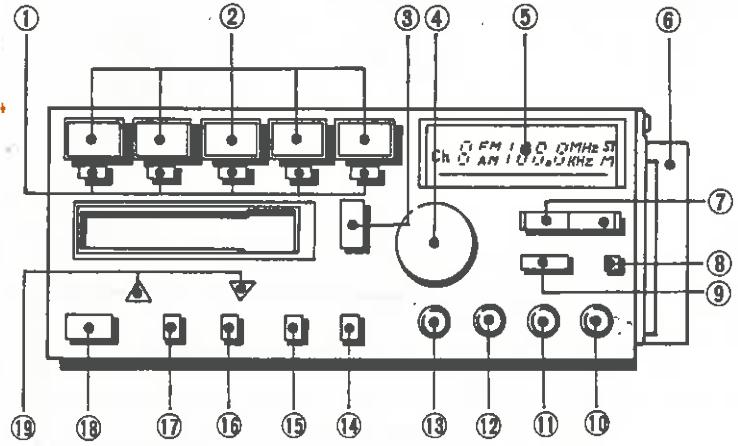


HITACHI SERVICE MANUAL

For NISSAN FAIRLADY Z
NISSAN PART No. 2811501P00



SPECIFICATIONS

[TUNER SECTION]

Circuit system:	Superheterodyne PLL synthesized tuner
Tuning range:	FM: 87.9 MHz to 107.9 MHz AM: 530 kHz to 1,610 kHz
Intermediate frequency:	FM: 10.7 MHz AM: 450 kHz
Sensitivity:	FM: 4 dB (Max.), 10 dB (Pra.) AM: 15 dB (Max.), 28 dB (Pra.)
Automatic tuning sensitivity:	FM: 32 dB (DX), 50 dB (LOCAL) AM: 32 dB (DX), 52 dB (LOCAL)

[TAPE DECK SECTION]

Playback system:	4 track 2 channel 2 program stereo playback
Tape:	Cassette tape
Tape speed:	4.75 cm/sec.
Program change system:	Auto reverse or push button system

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

AUTO REVERSE CASSETTE PLAYER WITH FM/AM DIGITAL TUNER

TK No. 2049E

CSK-7601ZG

CONNECTOR TERMINALS

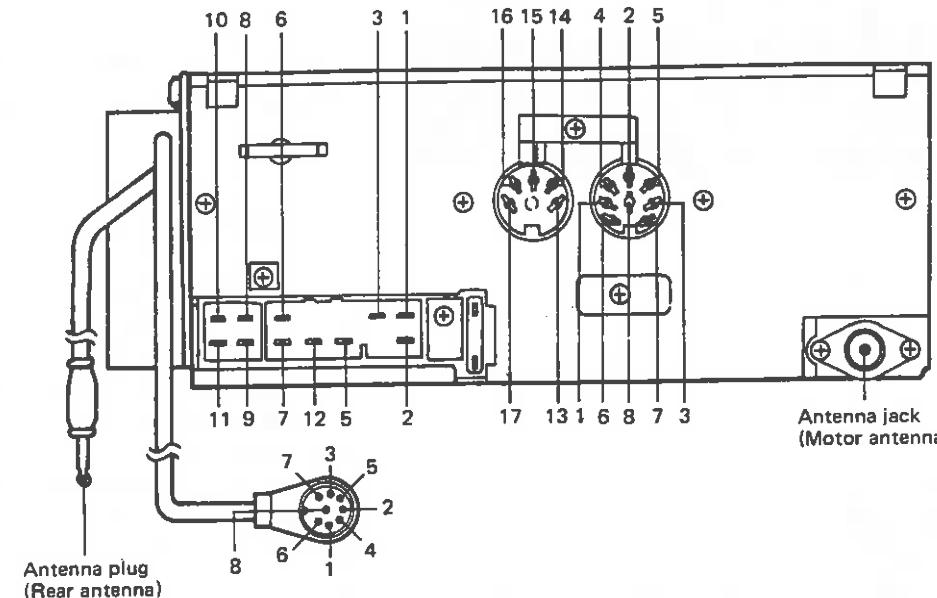


Fig. 1

Connector	Terminal No.	Connector Purpose	Connector	Terminal No.	Connector Purpose
For Automobile Use (12P-S Connector)	1	ACC Power Input	For Main Amp (5P DIN Socket)	13	Power Output
	2	Backup Power Input		14	L-ch Signal Output
	3	Power Input for Lights		15	Ground
	4	—		16	R-ch Signal Output
	5	Power Output for Antenna Motor		17	Muting Signal Output
For Diversity Unit (8P DIN Plug)	6	Left Front Speaker Output	For Diversity Unit (8P DIN Plug)	1	ASCS Control Signal Output
	7	Right Front Speaker Output		2	Ground
	8	—		3	Local Oscillation Signal Input
	9	—		4	Sensor Input
	10	Left Speaker Common (-)		5	Varicap Impressed Voltage Input
	11	Right Speaker Common (-)		6	Signal Input
	12	Ground		7	Signal Output
	1	ASCS Control Signal Input		8	Power Input
For Diversity Unit (8P DIN Socket)	2	Ground			
	3	Local Oscillation Signal Output			
	4	Sensor Output			
	5	Varicap Impressed Voltage Output			
	6	Signal Output			
	7	Signal Input			
	8	Power Output			

DISASSEMBLY

1. Top Panel

Remove the 7 fixing screws Ⓐ

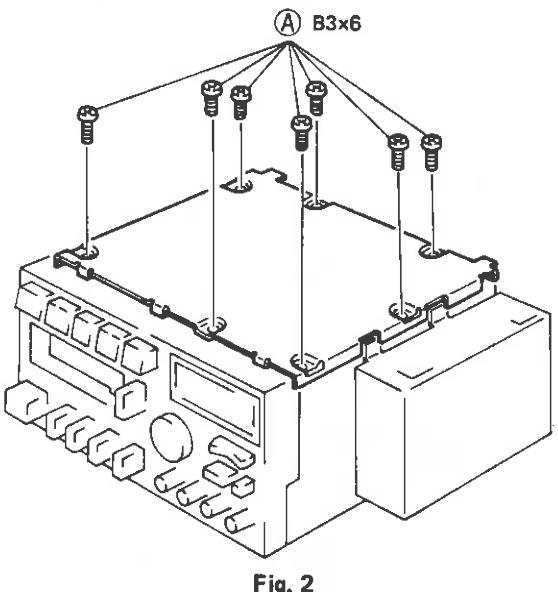


Fig. 2

2. Escutcheon

Remove the flexible circuit board (at the 6 positions), the 3 connectors and the volume control knob after removing the top panel (see Item 1). Then, remove the 4 fixing screws Ⓑ. Remove the flexible board as shown in Fig. 4.

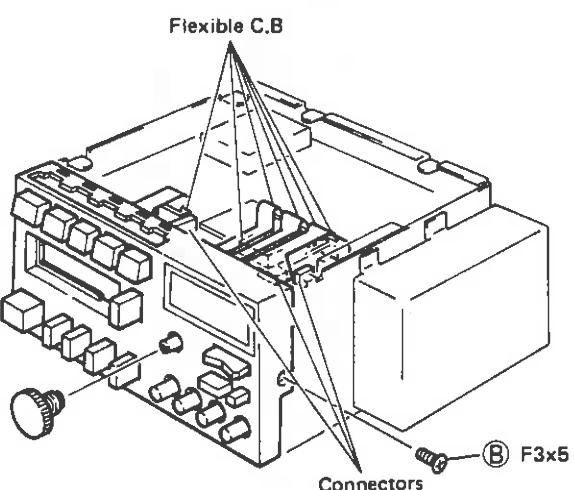


Fig. 3

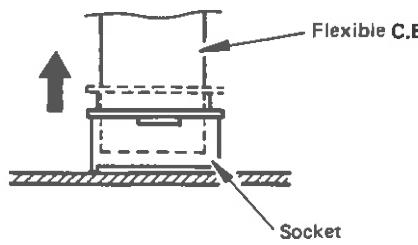


Fig. 4

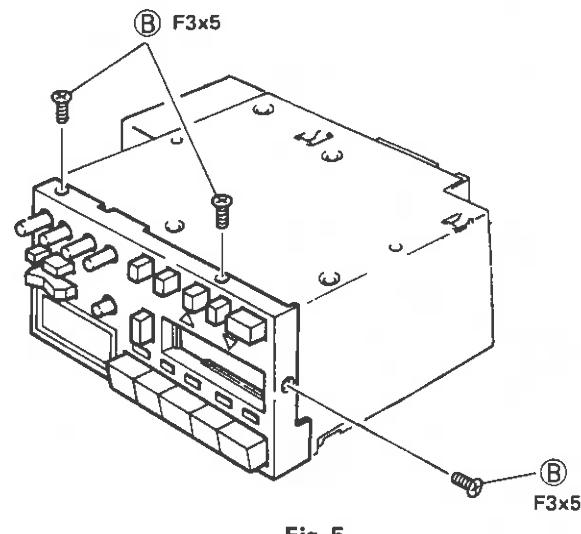


Fig. 5

3. Rear Panel

Remove the 6 fixing screws Ⓒ after removing the top panel (see Item 1).

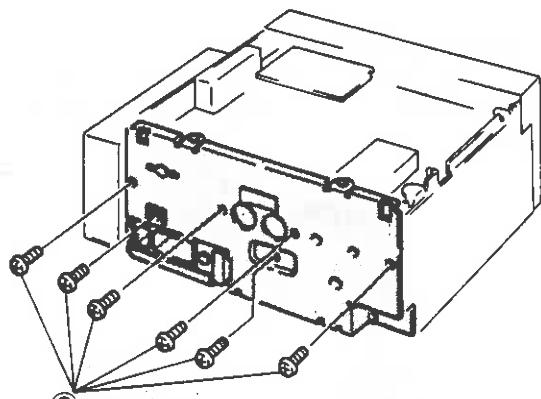


Fig. 6

4. Diversity Unit

Remove the 2 fixing screws Ⓓ.

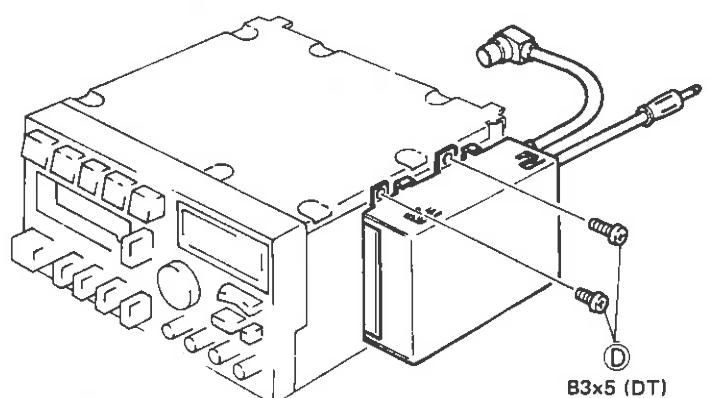


Fig. 7

5. Tuner Circuit Board

Unsolder the 6 lead wires, disconnect the 3 connectors and remove the 5 fixing screws Ⓔ.

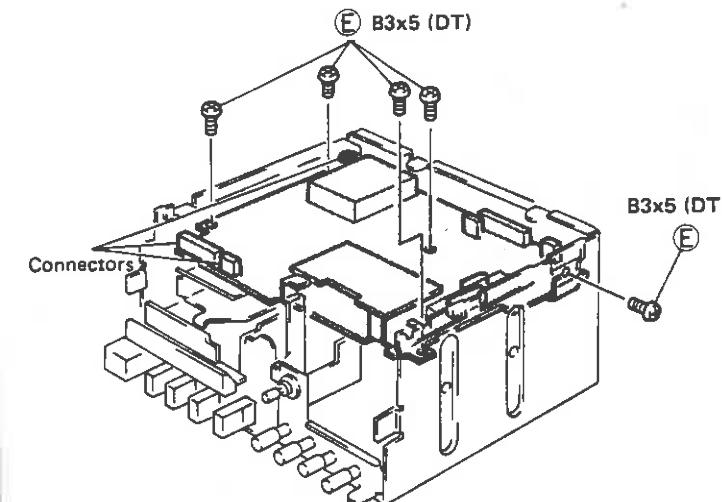


Fig. 8

7. Cassette Player Mechanism

Remove the 4 fixing screws Ⓖ after removing the tuner board (see Item 5), main amp board block (see Item 6).

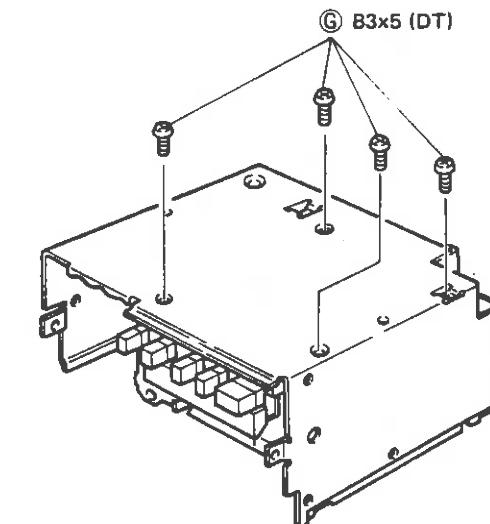


Fig. 10

6. Main Amp Circuit Board Block

Remove the diversity unit (see Item 4), tuner circuit board (see Item 5), disconnect the connector and remove the 6 fixing screws Ⓕ.

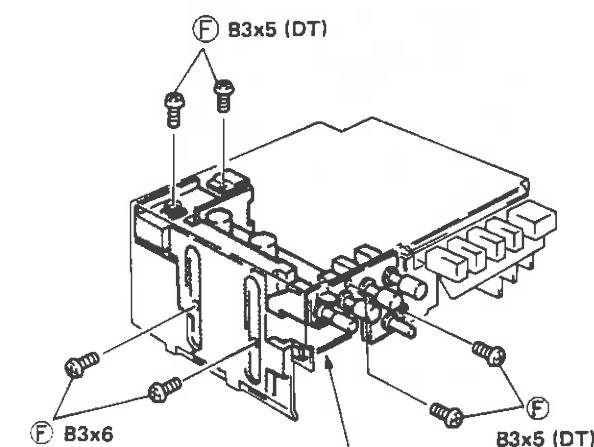


Fig. 9

8. Cassette Player Circuit Board

Remove the cassette player mechanism (see Item 7) and remove the 6 fixing screws Ⓗ.

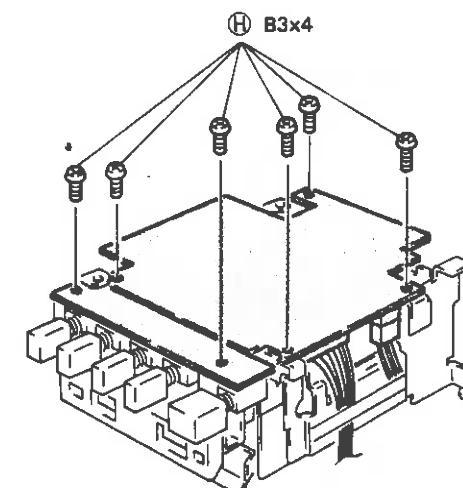


Fig. 11

ADJUSTMENT

1. Tuner Section

Before adjusting the electronic tuner, clear the preset frequencies in Channels 1 to 5. To clear the frequencies, perform the initial reset operation. After making the initial

reset, use the frequencies assigned for adjusting each preset channel.

CHANNEL		1	2	3	4	5
MEMORY FREQUENCY	AM	530 kHz	600 kHz	1000 kHz	1400 kHz	1610 kHz
	FM	87.9 MHz	90.1 MHz	98.1 MHz	106.1 MHz	107.9 MHz

Item	Adjustments	Measuring instrument & connection			Measuring frequency (See Note 2)	Adjust	Reading
		Measuring instrument (See Note 1)	Input terminal	Output terminal			
Set RT251 to middle position.							
1	AM-IF	• Genescope (450 kHz)	Antenna terminal	TP251	450 kHz	T251 T252	Output Max. right and left symmetry.
		• AM signal generator (400 Hz, 30% mod., 20 dB) • Oscilloscope			1000 kHz (CH3)		Output Max.
		• AM signal generator (400 Hz, 30% mod.) • DC volt meter (Input impedance over 1 MΩ)	Antenna terminal	TP101	1610 kHz (CH5) 530 kHz (CH1)	CT153 L155	7.5V±0.1V 1.0V±0.1V
Repeat (1) and (2).							
3	AM-ANT (Tracking)	• AM signal generator (400 Hz, 30% mod.) • VTVM	Antenna terminal	TP251	600 kHz±0.1 kHz (CH2) 1400 kHz±0.1 kHz (CH4)	T151 L154 CT151 CT152	Output Maximum
		• Repeat (1) and (2).					
		• AM signal generator (400 Hz, 30% mod., 74 dB) • VTVM	Antenna terminal	TP101	1000 kHz±0.1 kHz (CH3)	RT251	(See Note 3)
5	AM-stop sensitivity	1 Apply 5V DC to TP102 (Auto-tuning state). 2 Set DX/LOCAL switch to DX.					
		• AM signal generator (Non-modulation 32 dB) • DC volt meter	Antenna terminal	TP255	1000 kHz±0.1 kHz (CH3)	RT252	0.9V±0.1V
6	FM-IF	Set RT201 at center of variable range.					
		• Genescope (10.7 MHz)	TP103	TP002	10.7MHz±0.02MHz	T101	(See Note 4)
		• T201				T201	(See Note 5)
7	FM-OSC (Covering)	• FM signal generator (400 Hz, 30% mod.) • DC volt meter (Input impedance over 1 MΩ)	Antenna terminal	TP101	107.9 MHz (CH5) 87.9 MHz (CH1)	CT103 L103	6.3V±0.1V 2.0V±0.1V
		• Repeat (1) and (2).					
		• FM signal generator (400 Hz, 30% mod.) • VTVM	Antenna terminal	TP101	90.1MHz (CH2) 106.1MHz (CH4)	L101 CT101 L102 CT102	Output Maximum
Repeat (1) and (2).							

Item	Adjustments	Measuring instrument & connection			Measuring frequency (See Note 2)	Adjust	Reading
		Measuring instrument (See Note 1)	Input terminal	Output terminal			
9	FM-limiter	• FM signal generator (400 Hz, 30% mod., 18 dB) • VTVM	Antenna terminal	Speaker terminal (4Ω load)	98.1MHz (CH3)	RT201	0.9V±0.05V
(1)		Set RT201 (Diversity) at center of variable range.					
(2)		• Genescope (10.7 MHz)			TP1	TP4	10.7MHz±0.02MHz
(3)		• FM signal generator (Non-modulation, 60 dB) • DC voltmeter			TP2 TP3	T202	(See Note 7)
10	Diversity FM-IF	• FM signal generator (400 Hz, 30% mod.) • VTVM	Antenna terminal (Diversity)	Speaker terminal (4Ω load)	98.1MHz (CH3)	T202	0±0.1V
(1)		Set RT201 (Diversity) at center of variable range.					
(2)		• Genescope (10.7 MHz)			TP1	L1	Output Max. (See Note 6)
11	Diversity FM-ANT (Tracking)	• FM signal generator (400 Hz, 30% mod.) • VTVM	Antenna terminal (Diversity)	Speaker terminal (4Ω load)	90.1MHz (CH 2)	L2 L3	Output Maximum
(1)		Repeat (1) and (2).			106.1MHz (CH 4)		
(2)		• FM signal generator (400Hz, 30% mod.) • VTVM			TP5 (R415A)	RT201	0.9V±0.05V
12	Diversity Sensitivity	• FM signal generator (400Hz, 30% mod.) • VTVM	Antenna terminal (Diversity)	Speaker terminal (4Ω load)	106.1MHz (CH 4)	L801	Output Maximum
(1)		Set RT201 (Diversity) at center of variable range.					
13	Diversity FM-limiter	• FM signal generator (400Hz, 30% mod. 18dB) • DC voltmeter	Antenna terminal (Diversity)	TP5 (R415A)	98.1MHz (CH3)	RT201	0.9V±0.05V
(1)		1 Apply 5V DC to TP102 (Auto-tuning state). 2 Set DX/LOCAL switch to DX.					
14	FM-stop sensitivity	• FM signal generator (400 Hz, 22.5 kHz dev., 32 dB) • DC voltmeter	Antenna terminal	TP255	98.1MHz (CH3)	RT202	1.05V±0.1V
(2)		• Oscillator (19 kHz, 100mV) • VTVM			TP004 (See Note 8)		
15	Subcarrier trap	• Oscillator (19 kHz, 100mV) • VTVM	Antenna terminal	Speaker terminal (4Ω load)	98.1 MHz (CH3)	RT001	Output Maximum
(1)		Short-circuit TP003.					
(2)		• FM signal generator (400 Hz, 22.5 kHz dev., 74 dB) • Oscillator (150 kHz, 80mV) • VTVM					
16	FM-noise canceller	Release short-circuit of TP003.	Antenna terminal	Speaker terminal (4Ω load)	98.1 MHz (CH3)	RT001	(See Note 9)
(1)		• FM signal generator (400 Hz, 22.5 kHz dev., 74 dB) • Oscillator (150 kHz, 80mV) • VTVM					
(2)		• FM signal generator (400 Hz, 22.5 kHz dev., 74 dB) • Oscillator (150 kHz, 80mV) • VTVM					
17	FM-multiplex	• FM signal generator (Non-modulation, 74 dB) • Frequency counter	Antenna terminal	TP301 (See Note 10)	98.1 MHz (CH3)	RT301	19kHz±0.1kHz
(1)		• FM stereo signal generator (98.1 MHz, stereo mod., 55 dB) Pilot signal : 10% mod. Main signal : 30% mod. • VTVM					
18	FM-separation	• FM stereo signal generator (98.1 MHz, stereo mod., 35 dB) Pilot signal : 10% mod. Main signal : 30% mod. • VTVM	Antenna terminal	Speaker terminal (4Ω load)	98.1 MHz (CH3)	RT302	Equalizes right-left separation
(1)		• FM stereo signal generator (98.1 MHz, stereo mod., 35 dB) Pilot signal : 10% mod. Main signal : 30% mod. • VTVM					
19	FM-ASCS	Perform Items 16, 17 separation adjustment again.	Antenna terminal	Speaker terminal (4Ω load)	98.1 MHz (CH3)	RT002	Separation 10dB
(2)							

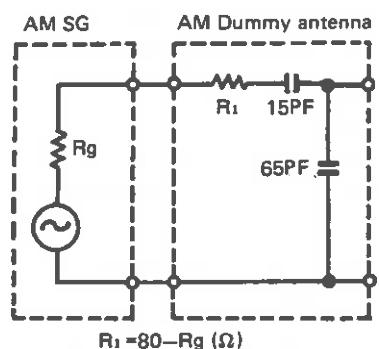


Fig. 12

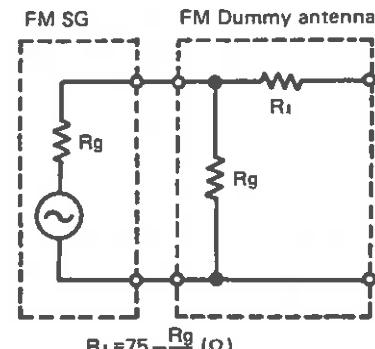


Fig. 13

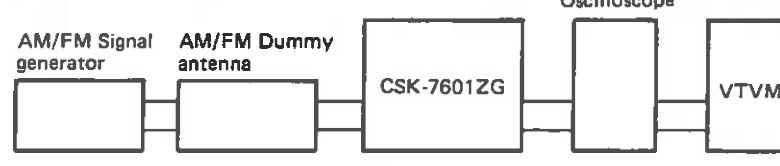


Fig. 14

Note :

1. When adding signal generator output to the antenna terminals, connect the measuring equipment as shown in Figure 14. Increase input during coarse adjustment. As adjustment proceeds, adjust at the necessary minimum limit of input.
 2. After initial reset operation, press the preset button specified in parenthesis () which allows selection of the frequency assigned for adjustment.
 3. When adding a 1000kHz (400Hz, 30% modulation) 74dB μ signal to the antenna terminals through an AM dummy antenna relay, set the output level at 0dB. Then, with input at 20dB μ , adjust RT251 so that the output level is -10dB.

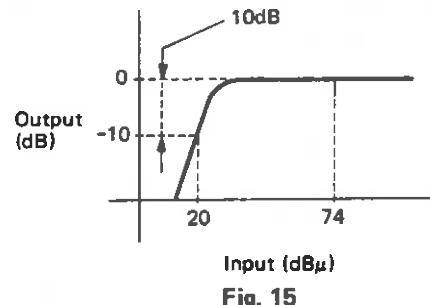


Fig. 19

4. Adjust T101 so that gain is maximum and the waveform in Figure 16 is obtained.

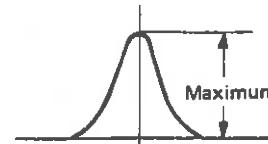


Fig. 16

9. (1) Short-circuit TP003 and feed a signal of 98.1 MHz (400Hz, 22.5kHz dev.), 74dB μ to the antenna terminals through the dummy antenna. Apply a signal of 150kHz, 80mV to TP002 and turn RT001 to adjust it to the position where the output drops abruptly while observing the VTVM connected to the 4Ω load of the speaker terminals.

- (2) Lower the level at 150kHz and read the level when

the output increases. When the output does not lower with RT001 fully turned, increase the output at 150 kHz (80mV) and read the level at 150kHz when the output drops abruptly to confirm that the value is $80\text{mV}\pm20\text{mV}$.

10. Connect the frequency counter to TP301 and enter a series $100\text{k}\Omega$ resistor across the circuit.

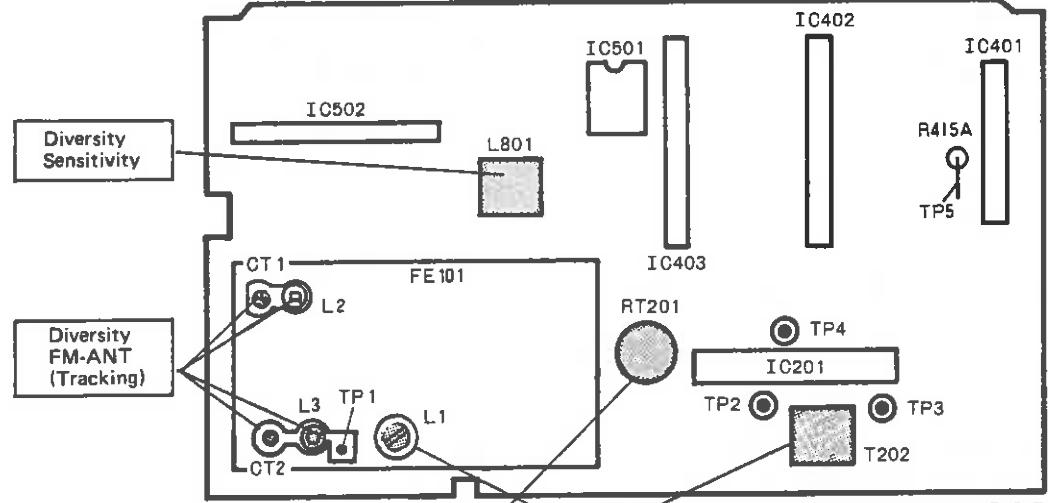
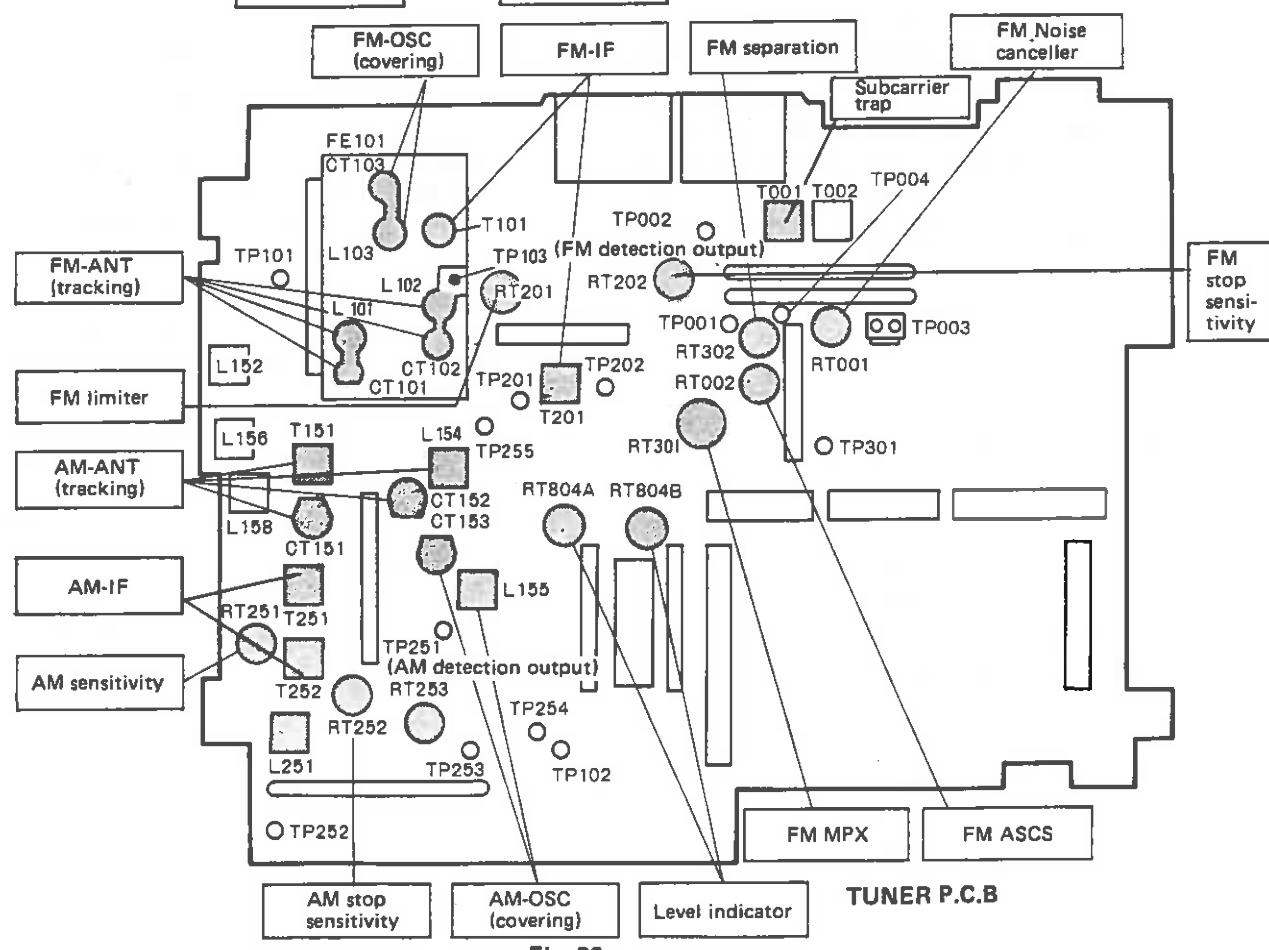


Fig. 19



TUNER P.C.B

2. Tape Deck Section

Before adjusting the head, pressure roller and capstan clean them with alcohol.

1. Head azimuth adjustment

Input	Adjustment Value	Adjustment Location
Azimuth Alignment Tape (1kHz, -10dB)	—	—
Azimuth Alignment Tape (10kHz, -10dB)	0 ± 4 dB	Head Azimuth Adjustment Screw

Adjustment Instructions

- (1) Connect the VTVM to the output terminals. Play an azimuth alignment tape (1kHz, -10dB) in both forward and reverse directions. Set the reading of output voltage to 0dB.
- (2) Next, play an azimuth alignment tape (10kHz, -10dB) in both forward and reverse directions. Adjust the head azimuth so that the second output voltage is within ±4dB of the azimuth alignment tape (1kHz, -10dB) playback output voltage (0dB).

2. Playback output voltage adjustment

Input	Adjustment Value	Adjustment Location
Dolby Test Tape (400Hz, 200nWb)	775 ± 10mV	RT802A (left-forward) RT801A (left-reverse) RT801B (right-forward) RT802B (right-reverse)

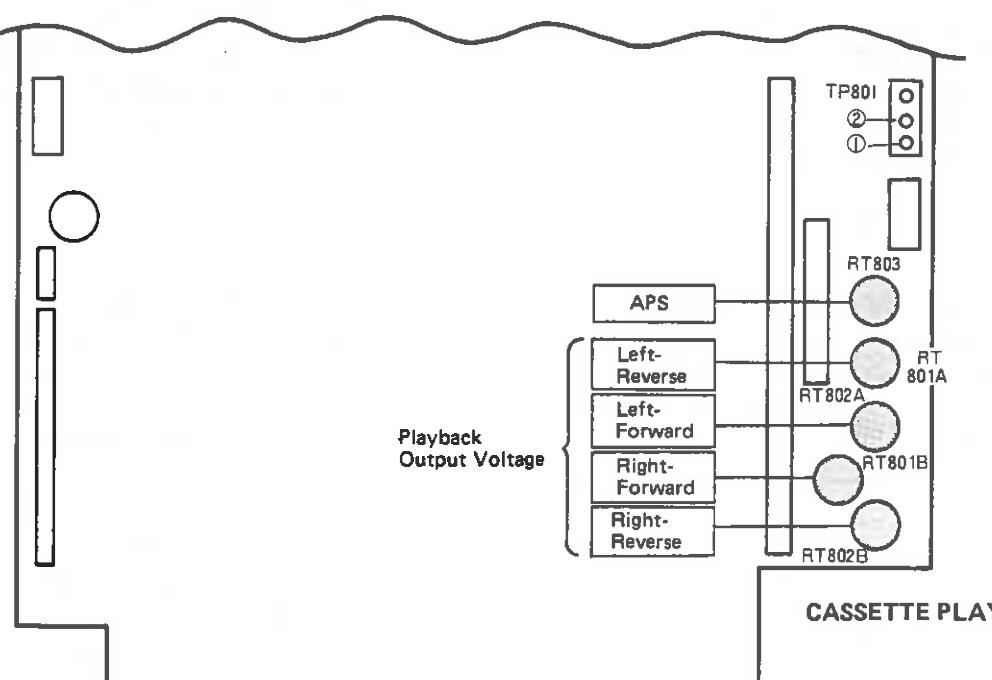


Fig. 21

Adjustment Instructions

Connect the VTVM to J803 (13P connector) pins ⑤ (L ch, pink), ⑥ (R ch, blue) of the cassette player circuit board. Play the Dolby test tape (400Hz, 200nWb) in both forward and reverse directions. Adjust the semivariable resistors (RT801A,B, RT802A,B) so that output voltage is set at the adjustment value.

3. APS (Automatic Program Search) adjustment

Input	Adjustment value	Adjustment Location
APS (TMT-6261)	—	RT803

Adjustment Instructions

Connect the oscilloscope to TP801- ② . Fast feed (APS FF) the APS test tape from the winding start in the forward direction, and adjust RT803 so that TP801- ② is "Hi" (0.7V) when the level at TP801- ① is -35dB and is "Lo" (0V) when the level is -40dB.

4. Level indicator adjustment

Input	Adjustment Value	Adjustment Location
Test Tape (1kHz, 0dB)	3 indicators each on the left and right light when the speaker output is 0.5W.	RT804A,B (Refer to Fig. 20)

Adjustment Instructions

Play the test tape (1kHz, 0dB) and adjust RT804A,B so that 3 indicators each on the left and right light when the speaker output is 0.5W.

INSPECTION OF MECHANISM

Adjustment/inspection item		Reference value	Remarks
1	Torque	Take-up	Measure the torque of the reel disc in the forward/reverse direction in the PLAY mode.
		F.Forward	Measure the torque of the reel disc in the F.FORWARD mode
		Rewind	Measure the torque of the reel disc in the REWIND mode
2	Back-tension	During Forward direction	Measure the torque of the reel disc in the reverse direction in the PLAY mode.
		During Reverse direction	Measure the torque of the reel disc in the forward direction in the PLAY mode.
3	Pressure roller compression force	350 ± 50 gr	Note 1
4	Flywheel thrust gap	0.05 – 0.2mm	
5	Head installation position adjustment	3.2 ± 0.3 mm	Note 2

- (6) **Installing cassette insertion switch and power switch**
Move the both microswitch fully in the direction of the arrows and install them. After tightening the screws, paint them with the screw lock compound.

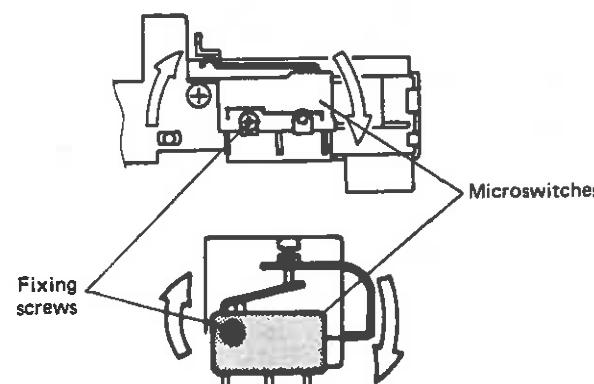


Fig. 22

- (8) **Installing solenoid**
Install the solenoid 1 while moving it in the direction of arrow (C) and install the solenoid 2 in the direction of arrow (D).

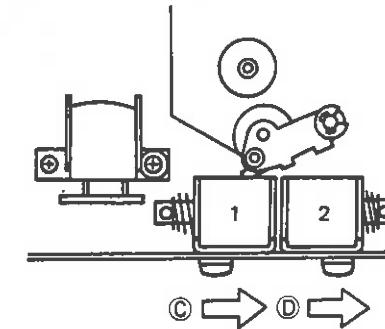


Fig. 24

- (7) **Forward/reverse switching slider stroke adjustment**
Bend sections A and B of the switching slider to adjust so that the slide switch is changed over securely when the tape running direction is changed over between forward and reverse.

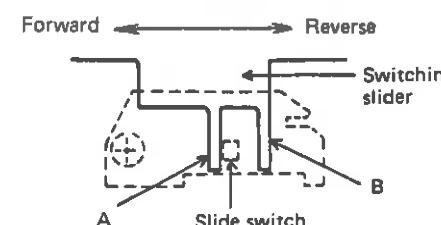


Fig. 23

- (9) **Head position adjustment during APS**
Set the unit to the APS operation state and adjust the APS locking magnet position so that the head protrudes is 2.1 ± 0.1 mm. After tightening the screw, paint it with the screw lock compound.

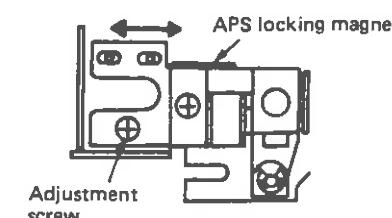


Fig. 25

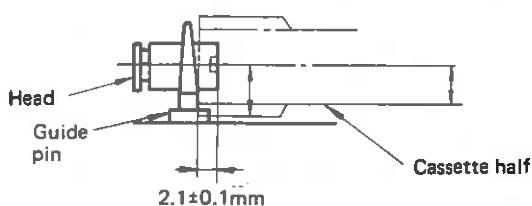


Fig. 26

(10) Head plate locking adjustment

Tighten the electromagnet fixing screw while holding it so that electromagnet and MG piece is in close contact with E and F. Confirm that the head plate locks securely when the terminal voltage of the electromagnet is 6.0V. After adjustment paint the screw with the screw lock compound.

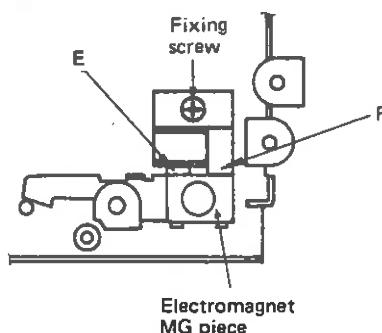


Fig. 27

Note (1) Set the unit to the play mode. Press the arrow section with the fan-shaped tension gauge and measure the value when the pressure roller stops. (Measure both the left and right pressure rollers.)

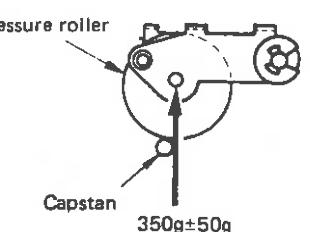


Fig. 28

Note (2) Confirm that the head is positioned as shown in Fig. 29 when the unit is in the play mode.

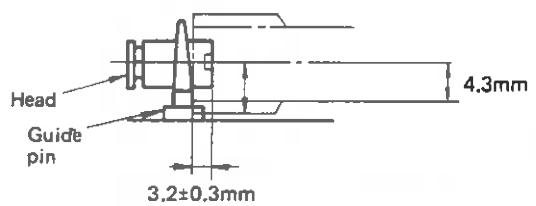


Fig. 29

LUBRICATION

Lubricate one or two drops of oil to rotating point or lubricate grease to sliding point. Lubricate the respective parts listed below once every 1000 hours or once a year under normal conditions of use. Avoid oiling them excessively, or rotation may become irregular because of oil splashes.

Lubrication		Oil or Grease
Spring resonance prevention		Froil (GB-TS-1)
Rotary section	Metal and metal	Pan motor oil (10W-40)
	Mold and metal	Sonic slider oil (#1600)
Sliding section	Metal and metal	Hitasol (MO-138)
	Mold and mold Mold and metal	White grease (FL-LUBE-A)

Note

- 1 Voltage measured at base of chassis with minimum volume control and no signal
() are shown in recording condition
2 Nomenclature of Resistors and Capacitors

Circuit No.	
Value	No indicated Ω (Ohm) M: 1000k Ω
Tolerance	No indicated $\pm 5\%$ K: $\pm 10\%$ M: $\pm 20\%$
Wattage	No indicated $1/4$ W
Sort	No indicated Carbon film RC : Composition RW : Wire wound RS : Oxide metal film RN : Fixed metal film

Circuit No.	
Value	No indicated μF P : PF
Tolerance	No indicated $\pm 10\%$ J : $\pm 5\%$ M : $\pm 20\%$ Z : $\pm 80\% - 20\%$ D : $\pm 0.5pF$ C : $\pm 0.25pF$
Sort	Ceramic Electrolytic Mylar Polyester Styrol
Voltage	No indicated 50WV

- 3 Be sure to make your orders of resistors and capacitors with value, voltage, tolerance and sort.
4 When replacing capacitors marked with * use specified ones stated on parts list since required temperature characteristics.

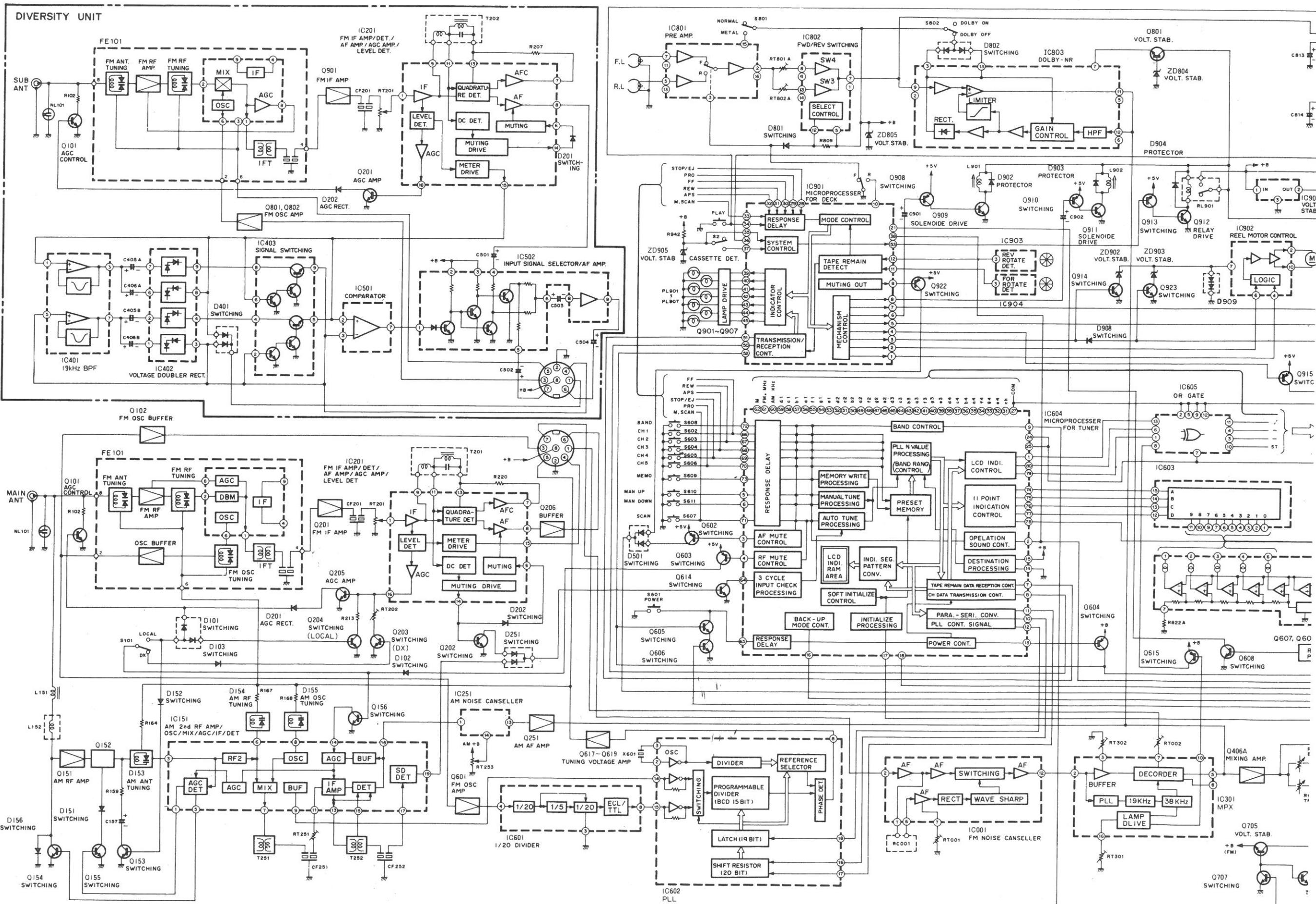
Cautions on use of MOS IC

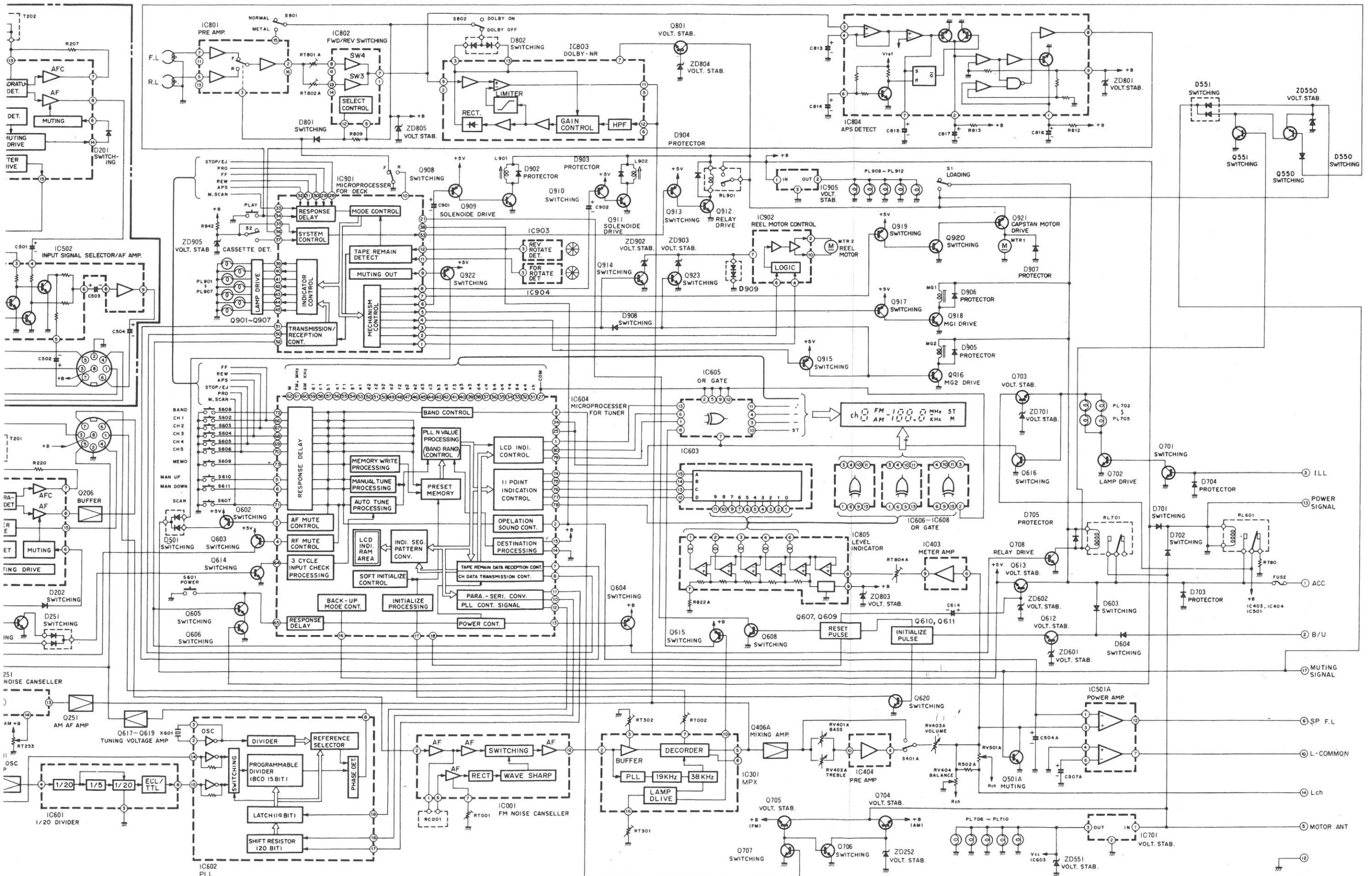
- The MOS IC is inserted in black foam for shipment. This foam is a conductor which short-circuits between the leads to prevent damage. Do not remove ICs from this foam during their storage. Avoid removing ICs from this foam, placing them on plastic which is likely to be charged with static electricity or inserting them into styrofoam.
- High voltages may be applied during soldering caused by leakages from the soldering iron, so be sure to ground the tip of the soldering iron or use a low voltage soldering iron.
- The human body, clothes made of synthetic fibres or nylon gloves may be charged with several thousands volts of static electricity because of friction, so a workers should be grounded.
- Be sure to ground measuring instruments such as oscilloscopes, VTVMs, etc. used for repairs.

Type of head	
P Pan head screw	BT Binding head tapping screw
F Flat countersunk head screw	BL Bolt
B Binding head screw	W Washer
T Round head tapping screw	E "E" ring
Length (L mm)	
Diameter (D mm)	

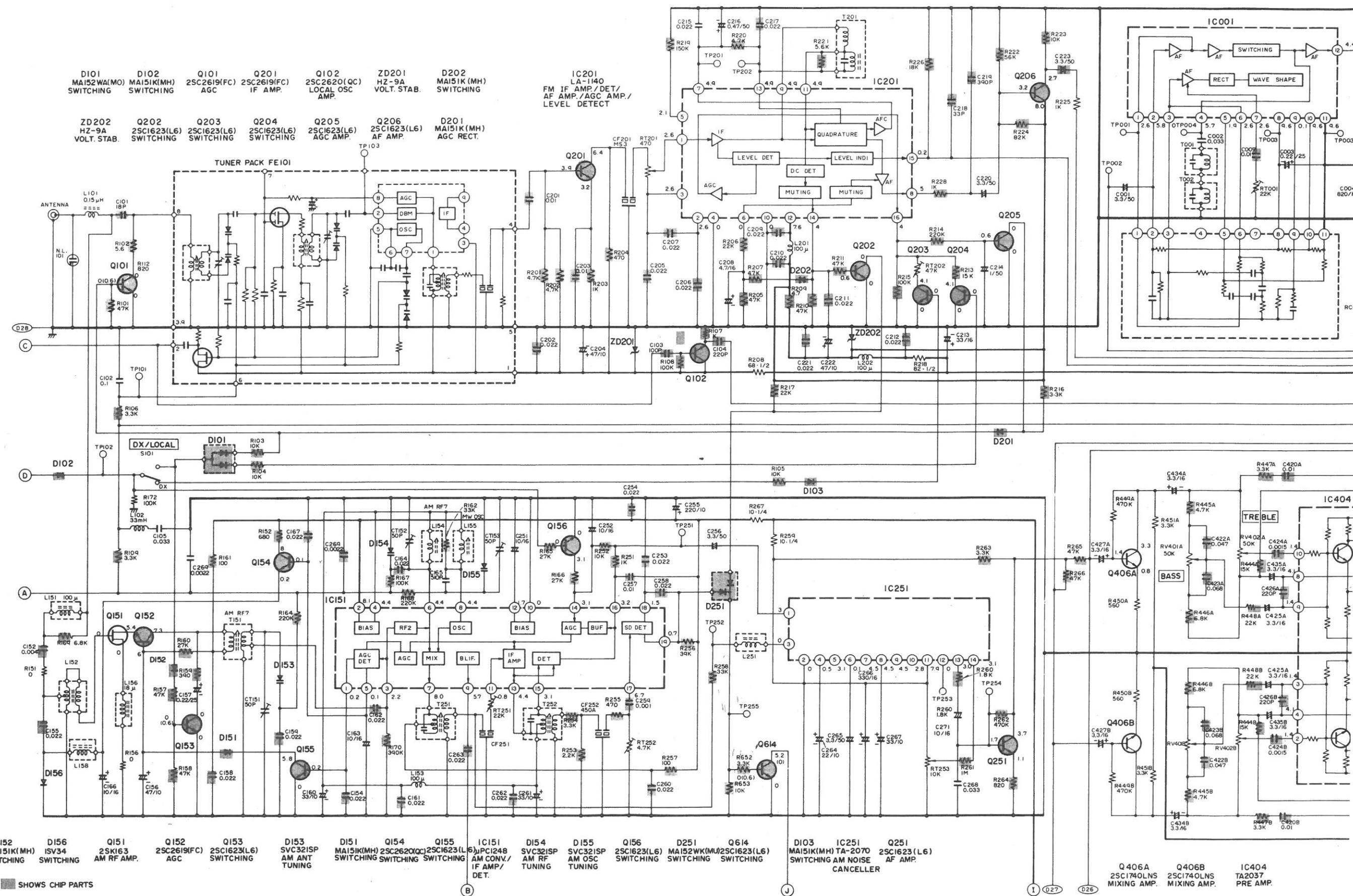
When ordering hardware excluding stated on these lists be sure to make your orders with type and size

BLOCK DIAGRAM

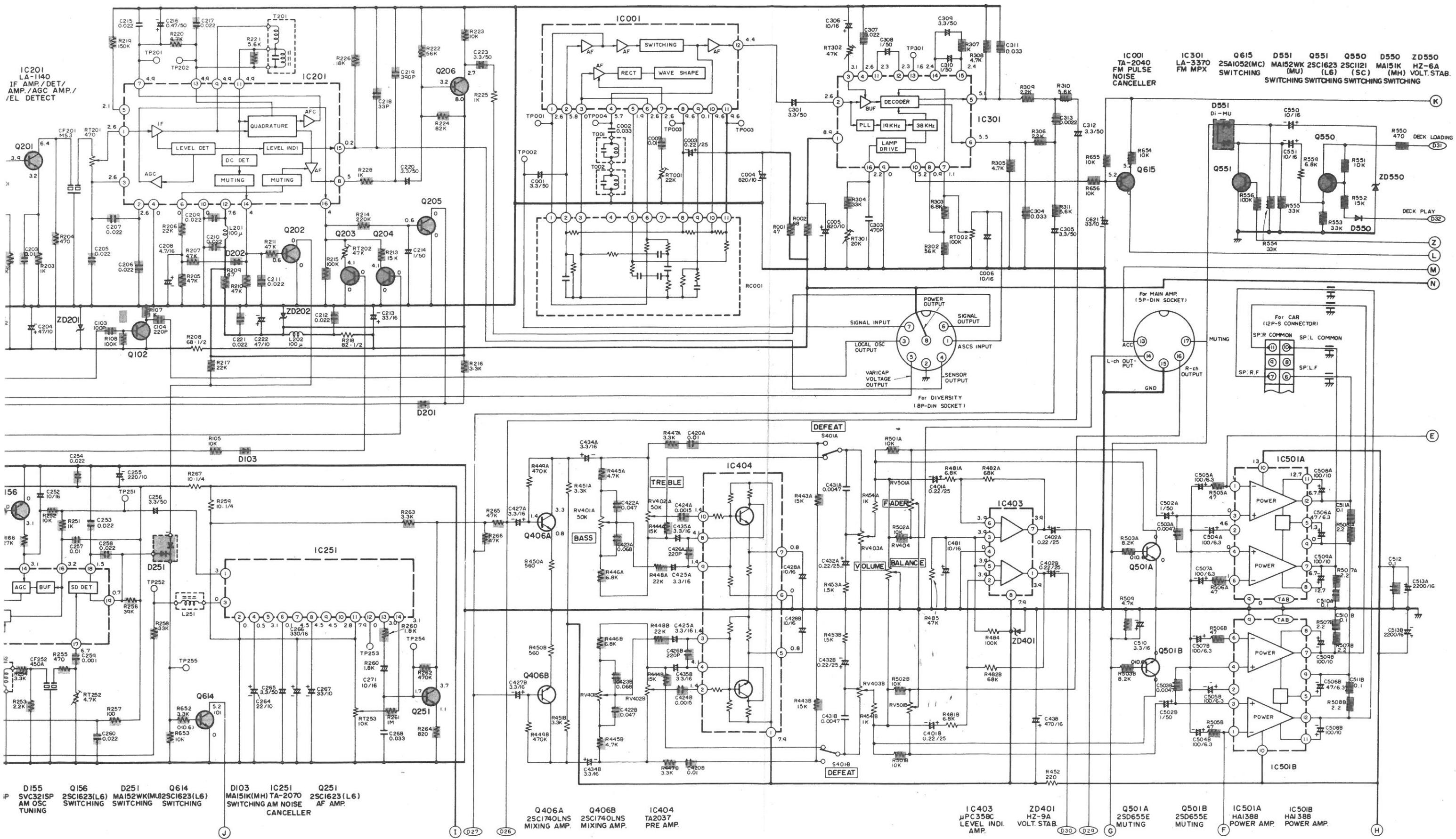




SCHEMATIC DIAGRAM (TUNER/AUDIO SECTION)

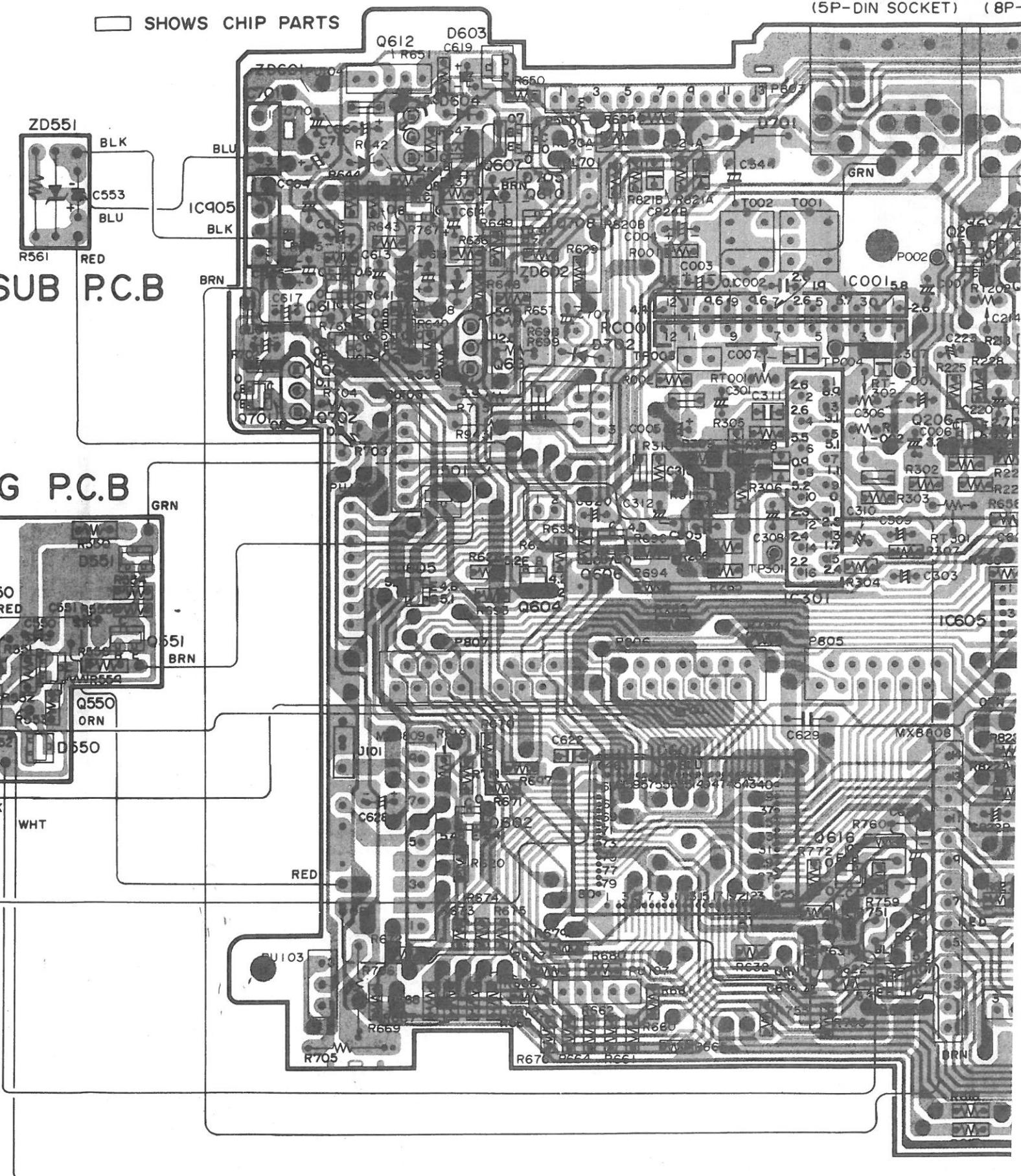
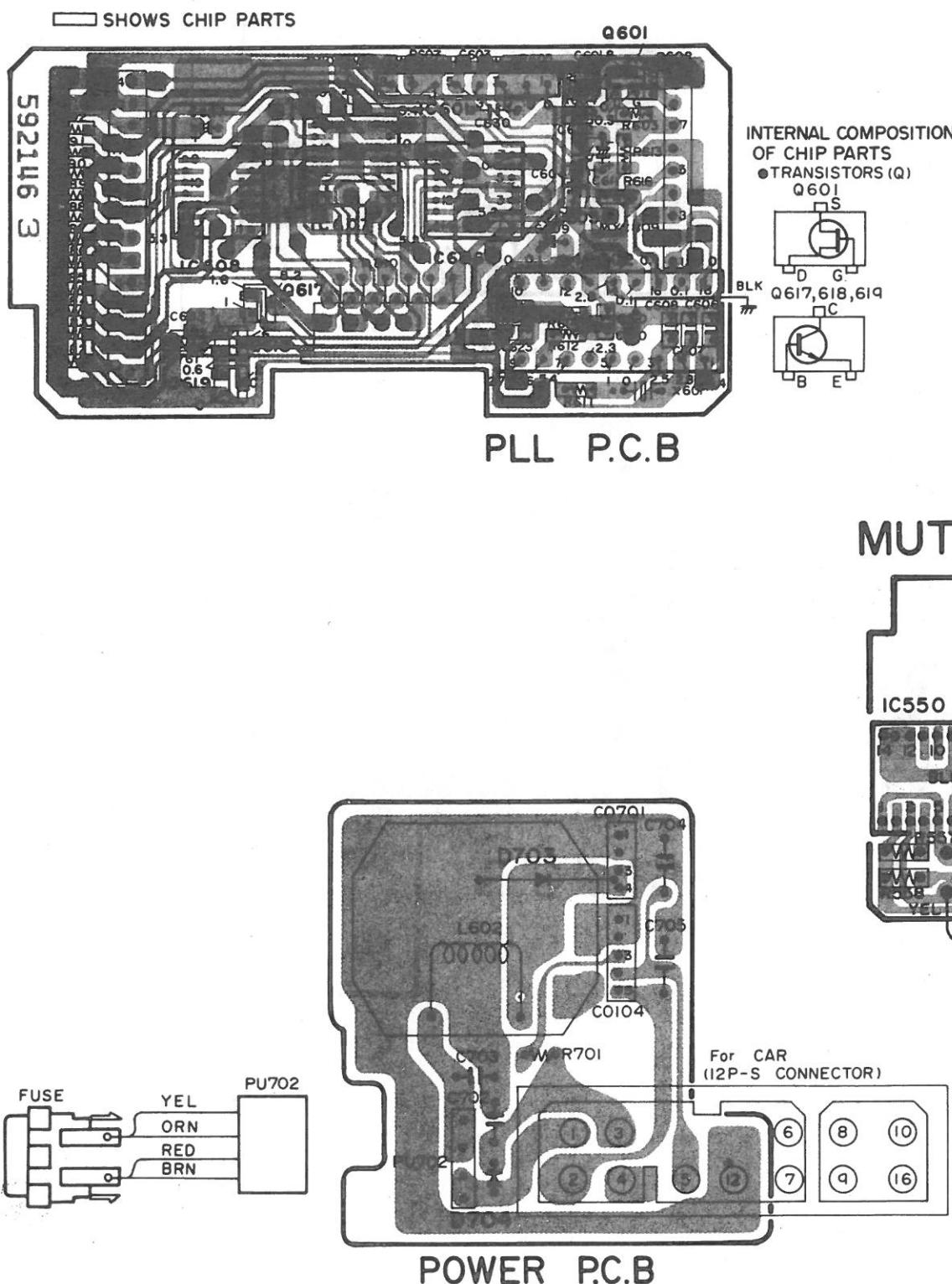


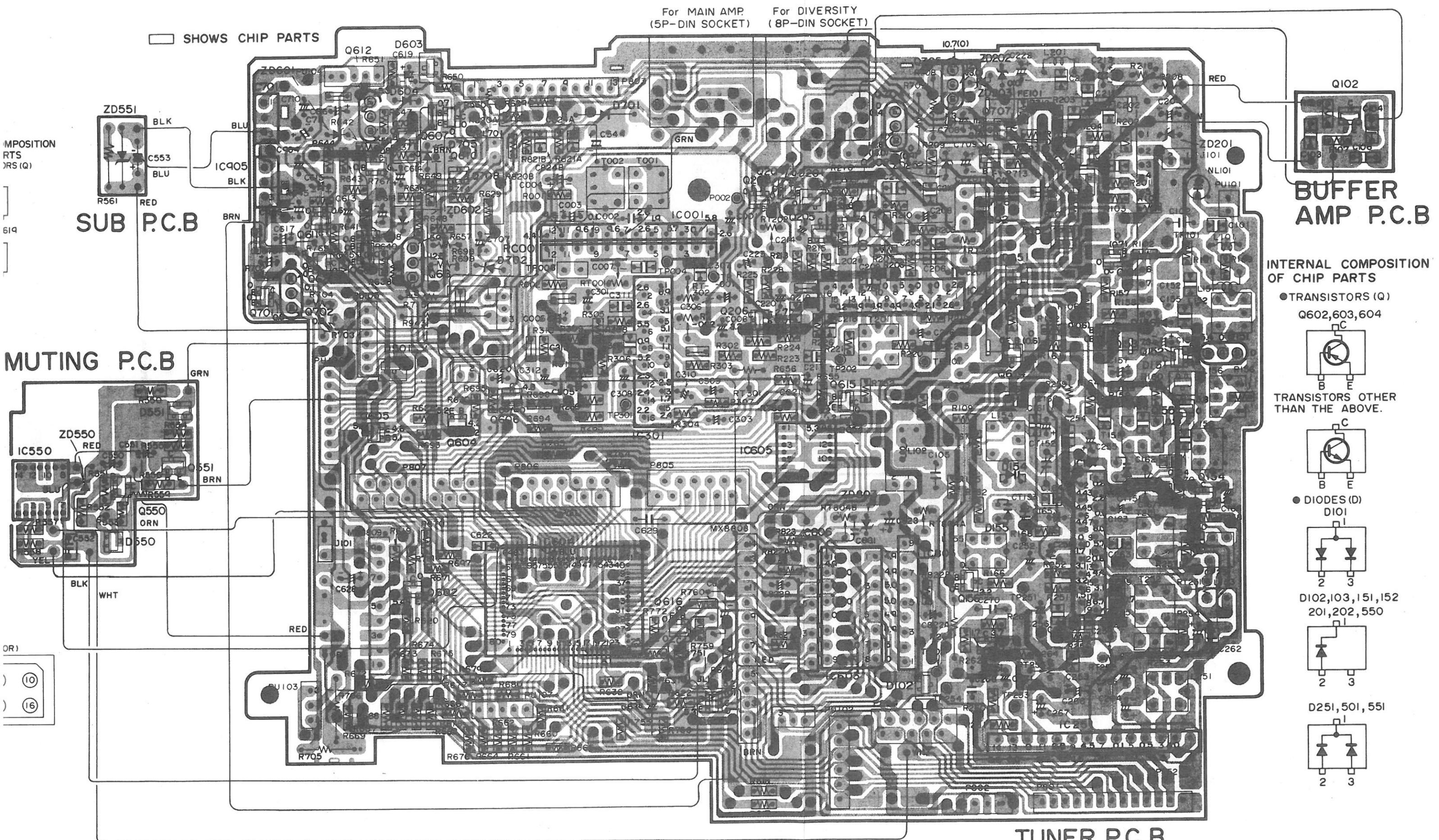
SHOWS CHIP PARTS



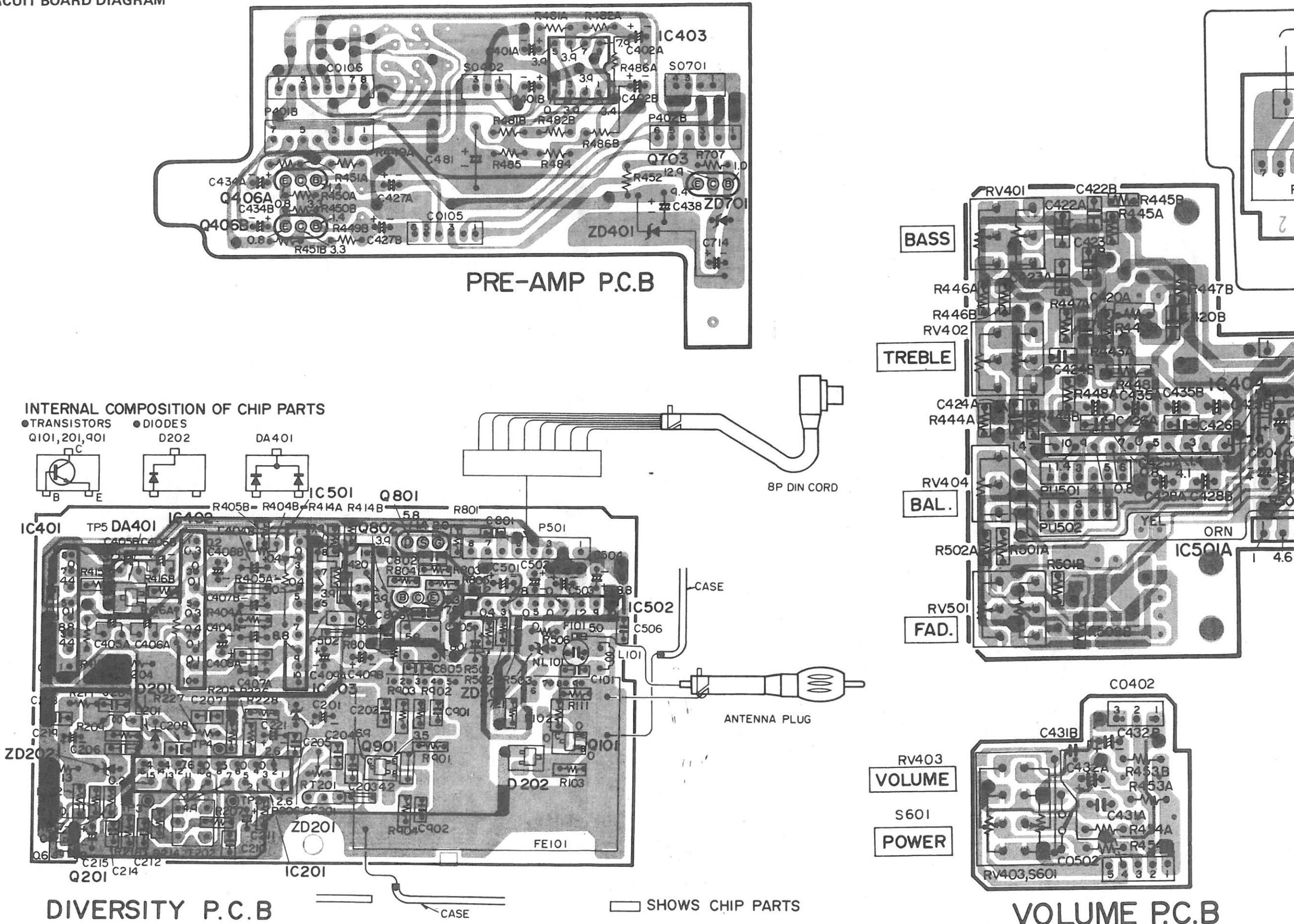
CIRCUIT BOARD DIAGRAM

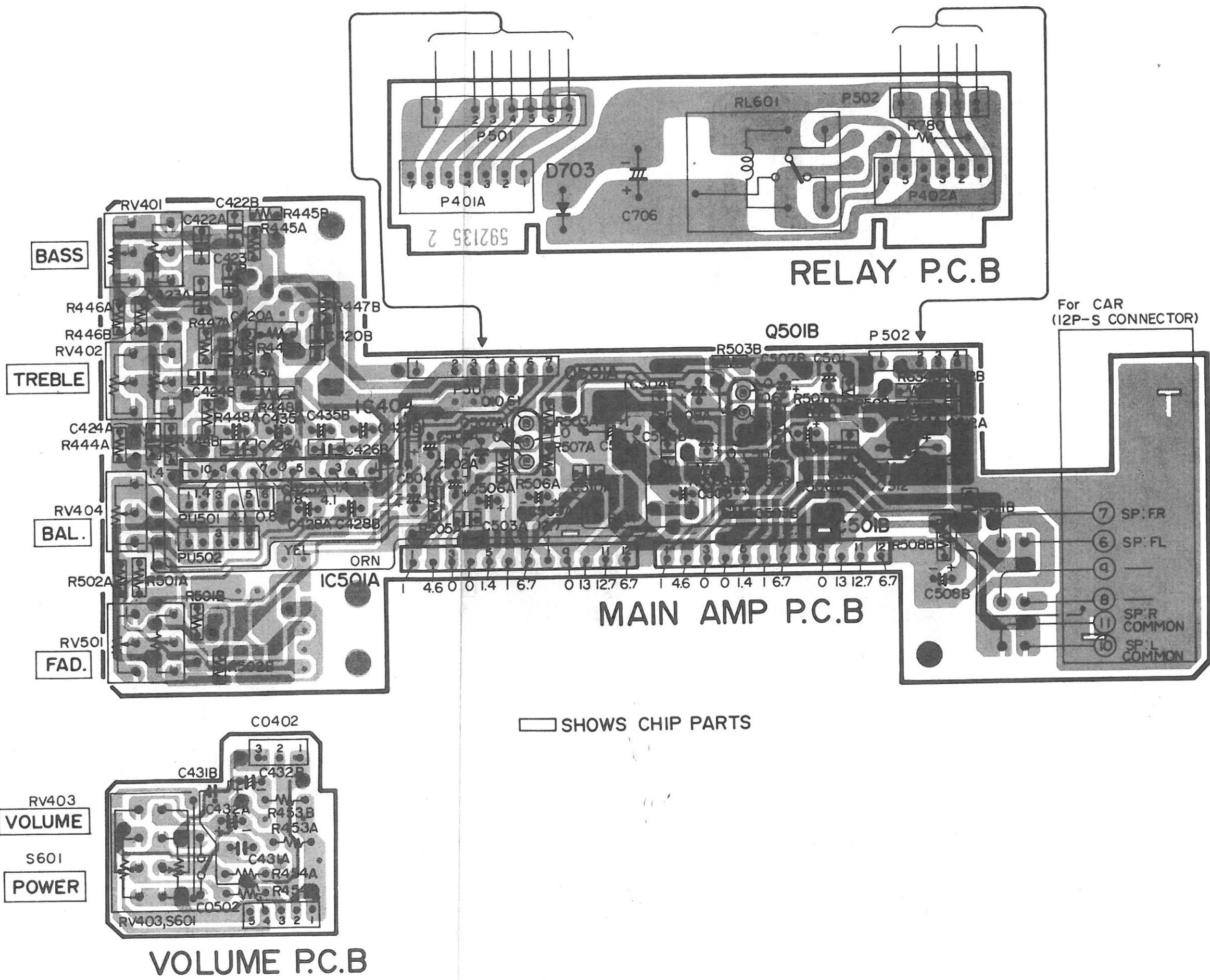
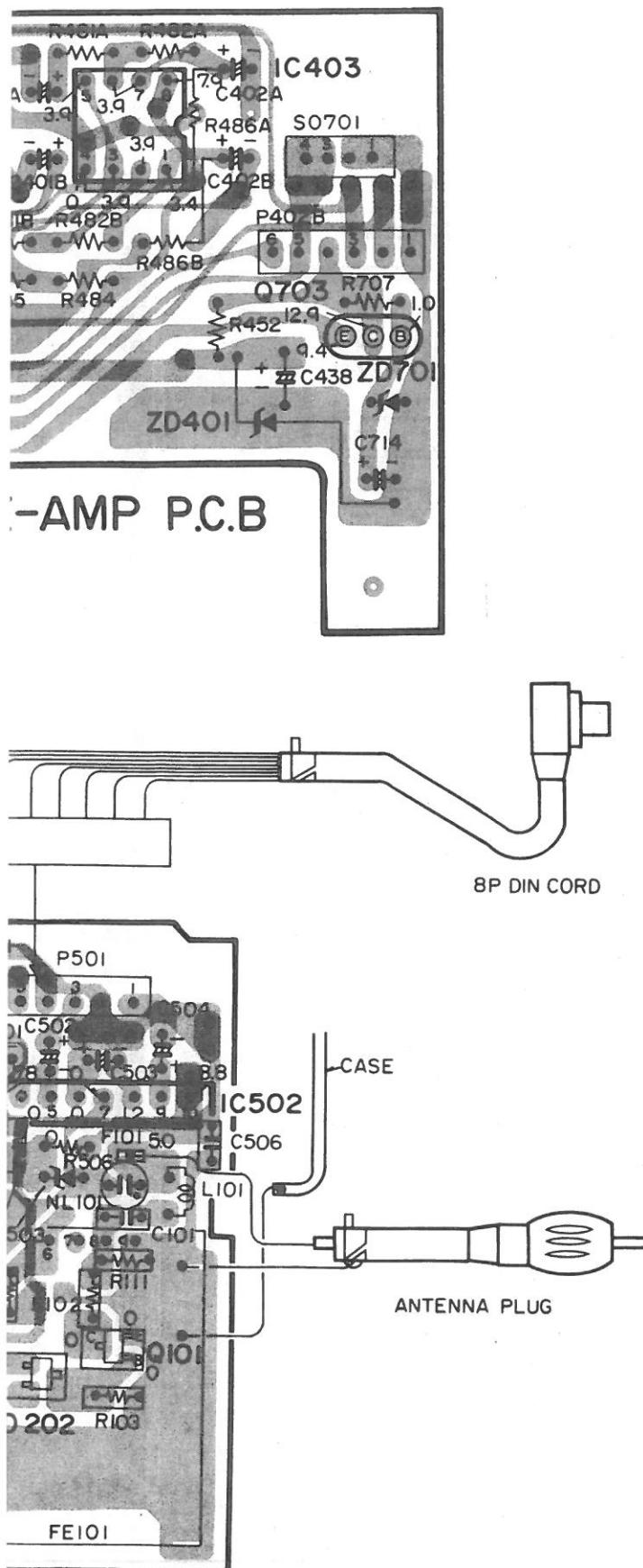
For MAIN AMP. (5P-DIN SOCKET) For (8P-



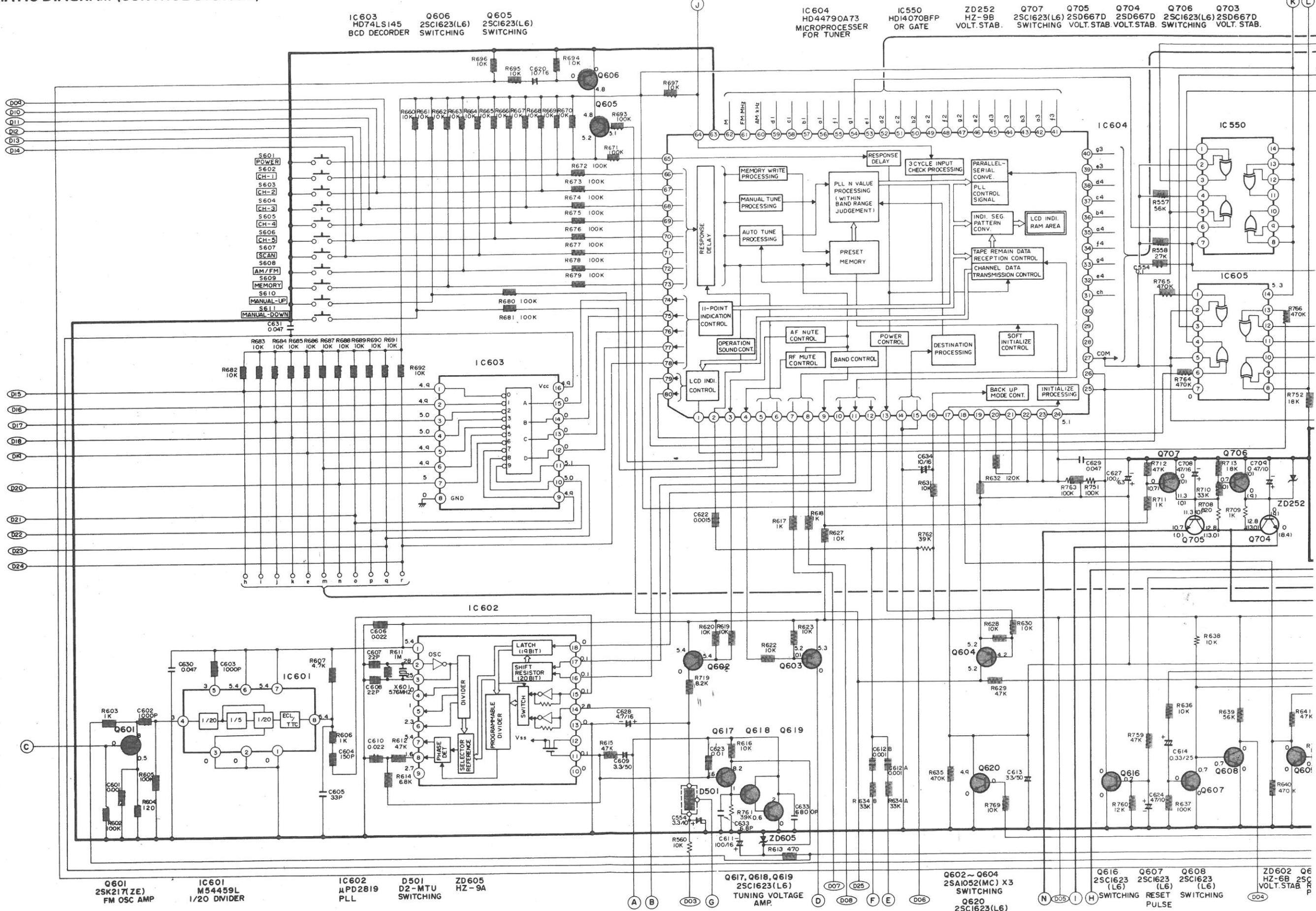


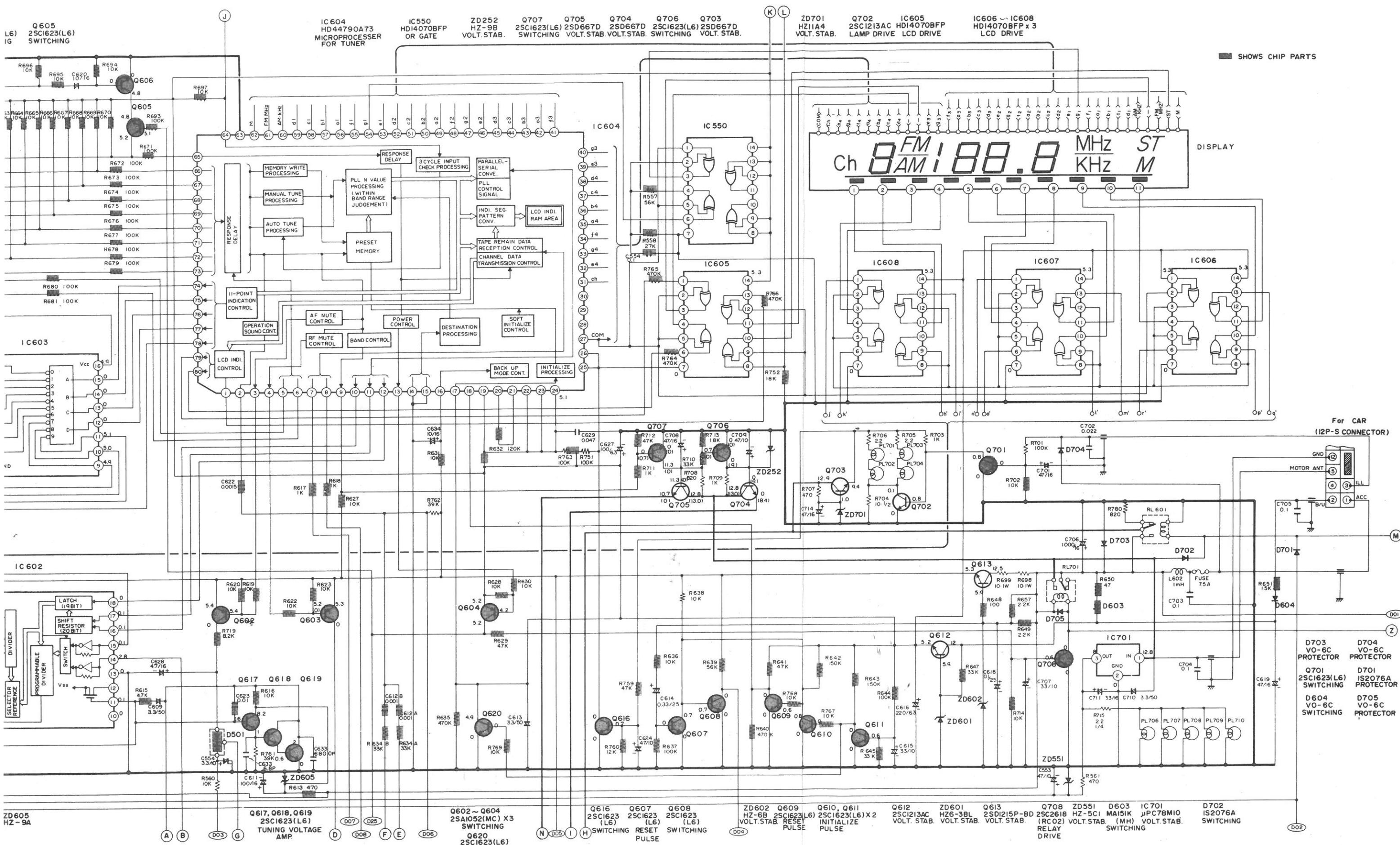
CIRCUIT BOARD DIAGRAM



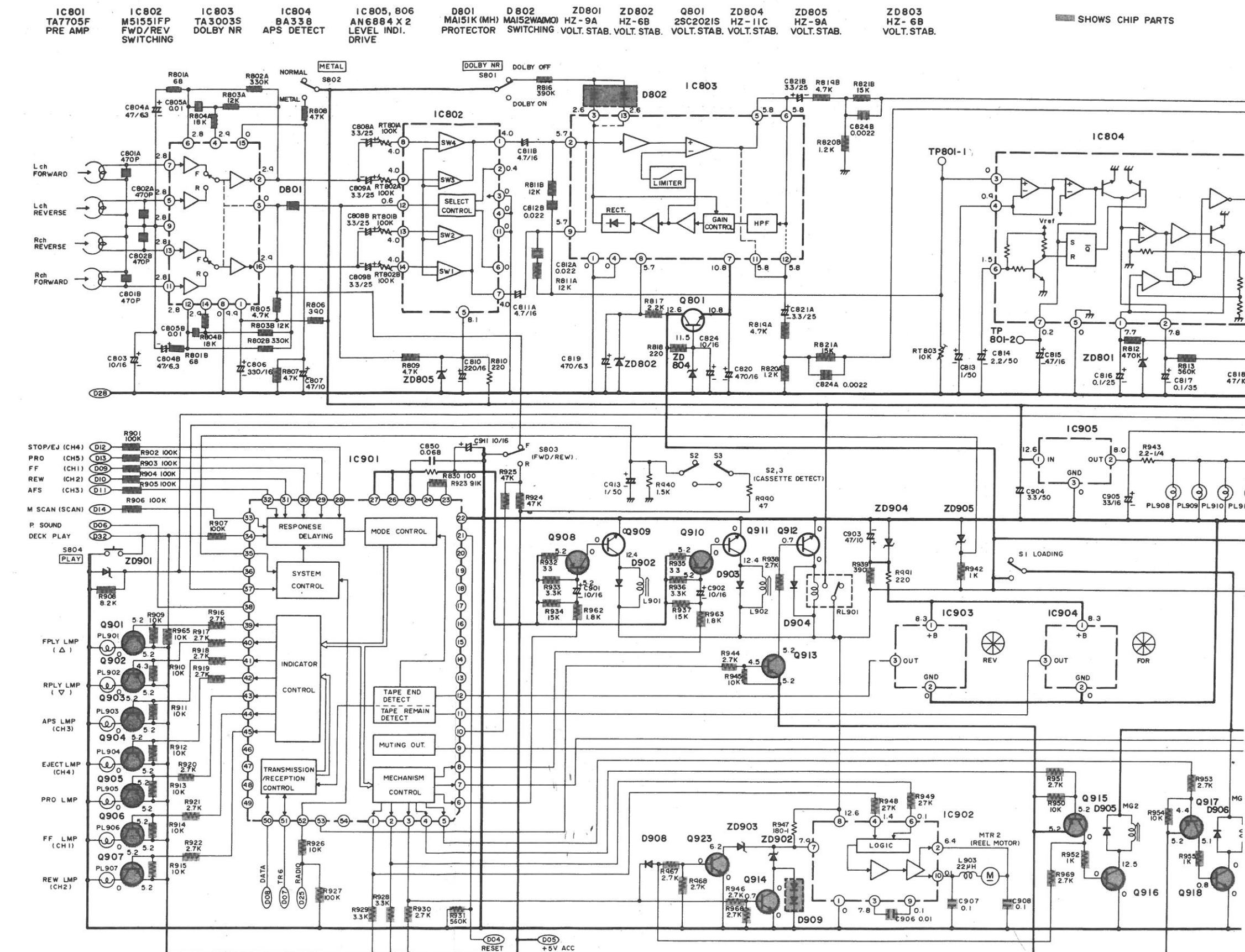


SCHEMATIC DIAGRAM (CONTROL SECTION)



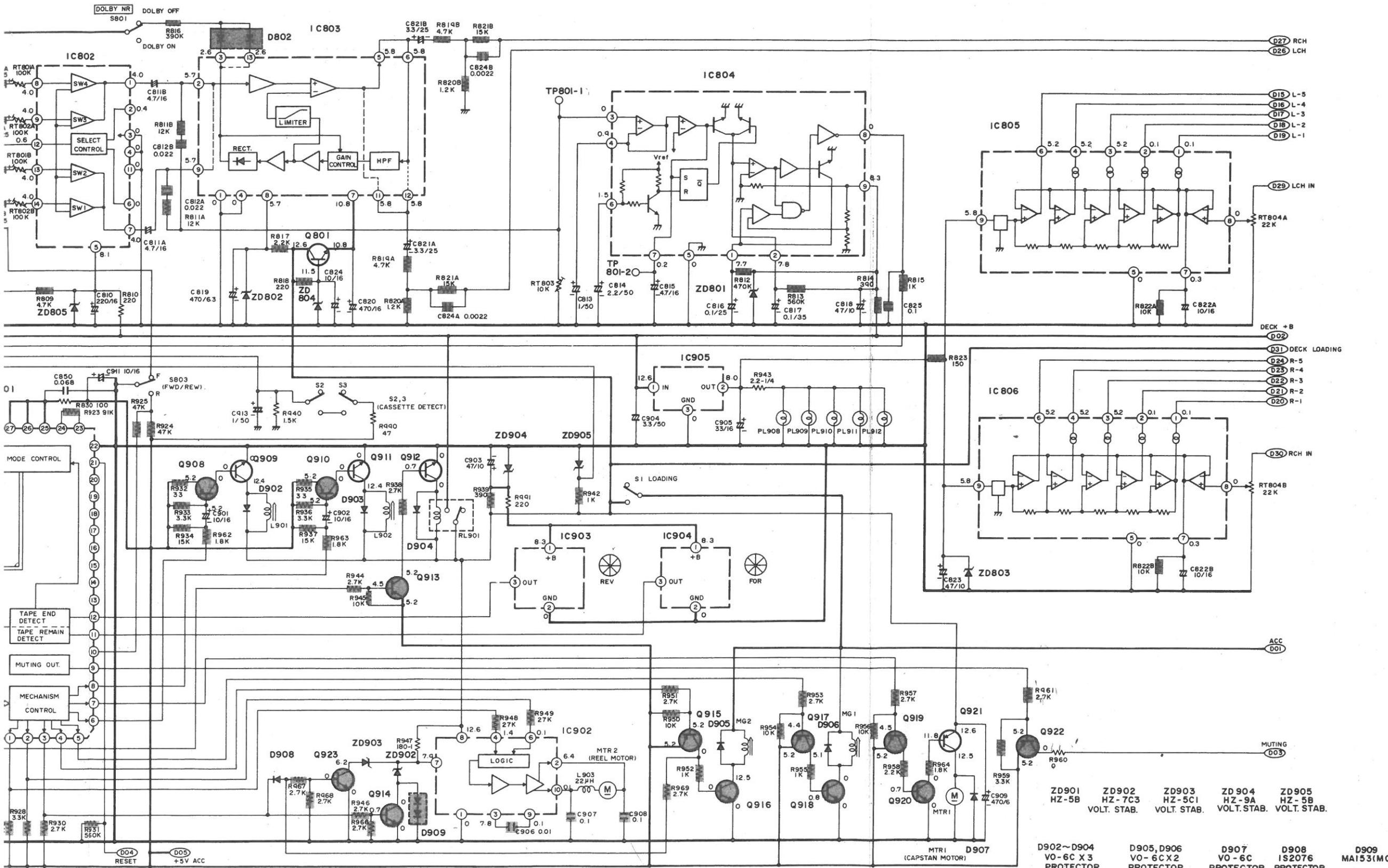


SCHEMATIC DIAGRAM (CASSETTE PLAYER SECTION)

IC901
HD44820B16
MICROPROCESSOR
FOR DECKIC902
BA6107
REEL MOTOR
CONT.IC903
DN6838A
REEL PULSE DET.IC904
DN6838A
REEL PULSE DET.IC905
μPC7808H
VOLT. STAB.Q901 ~ Q907
SWITCHING2SA1052(MC) x 7
SWITCHING2SD1251P
SWITCHING2SA1121(SC)
SWITCHING2SD1251P
SWITCHING2SC1213AC
SWITCHING2SA1052(MC) 2SC1623
SWITCHING2SD1251P
SWITCHING

B05, B06
D801 D802 ZD801 ZD802 Q801 ZD804 ZD805
1884 X 2 MAISIK (MH) MAIS2WA(MO) HZ - 9A HZ - 6B 2SC202IS HZ - 11C VOLT. STAB. VOLT. STAB.
EL. INDI. PROTECTOR SWITCHING VOLT. STAB. VOLT. STAB. VOLT. STAB. VOLT. STAB.

SHOWS CHIP PARTS



IC905
PC7808H
VOLT. STAB.

Q901~Q907
2SA1052(MC) x 7
SWITCHING

Q908 2SA1121(SC)
SWITCHING

Q909 2SD125IP
SWITCHING

Q910 2SA1121(SC)
SWITCHING

Q911 2SD125IP
SWITCHING

Q912 2SC1213AC
SWITCHING

Q913 2SC1052(MC) 2SC1623(L6)
SWITCHING

Q914 2SA1052(MC) 2SC2608(RCO2)
SWITCHING

Q915 2SA1052(MC)
SWITCHING

Q916 2SA1052(MC)
SWITCHING

Q917 2SA1052(MC)
SWITCHING

Q918 2SC2608(RCO2)
MGI DRIVE

Q919 2SA1052(MC)
SWITCHING

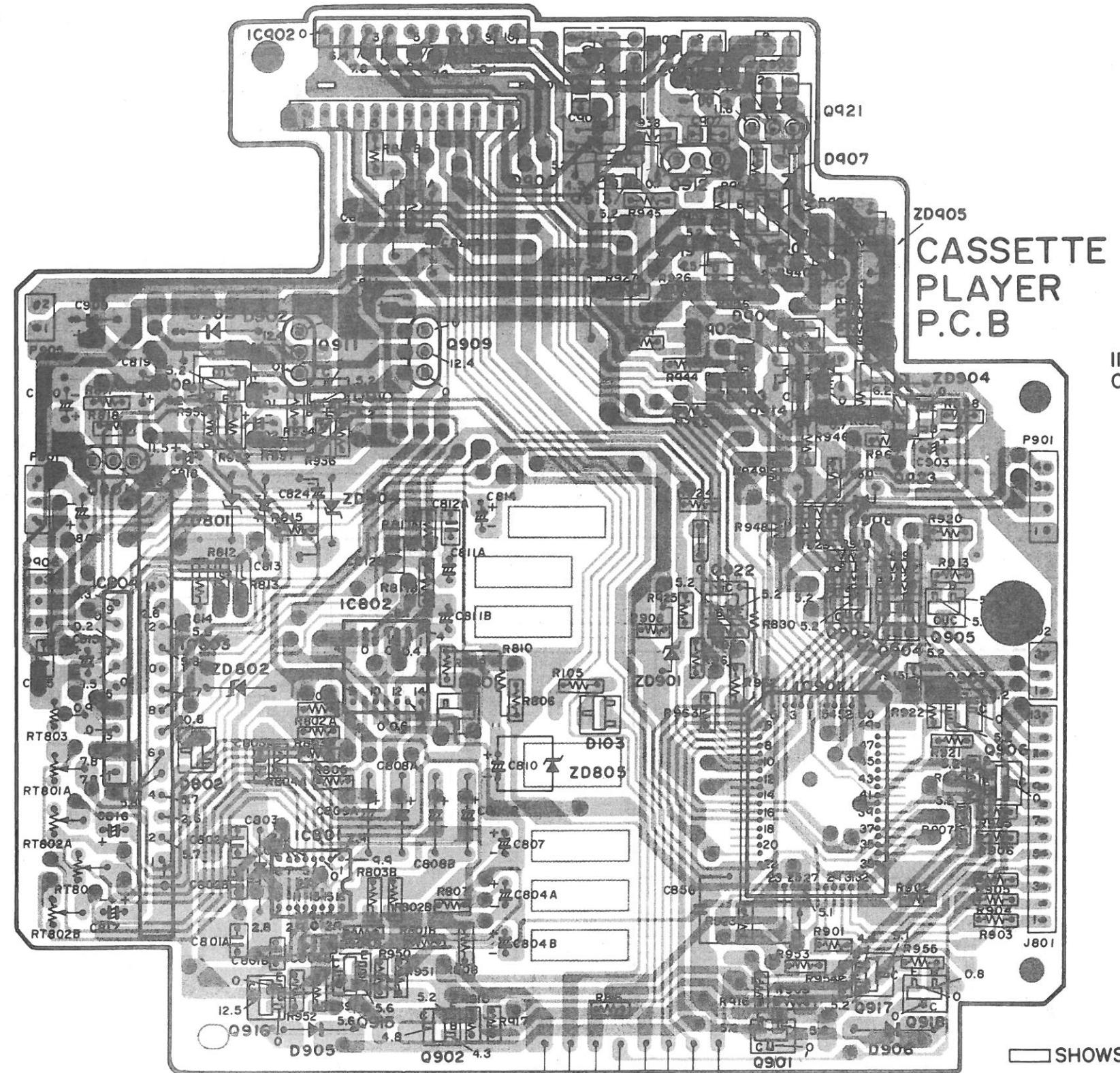
Q920 2SC1623(L6)
SWITCHING

Q921 2SA8740
MOTOR DRIVE

Q922 2SA1052(MC)

2SC1623(L6)
SWITCHING

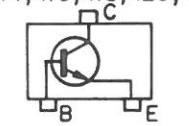
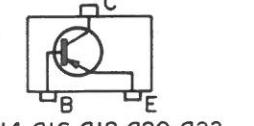
CIRCUIT BOARD DIAGRAM



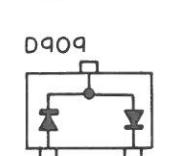
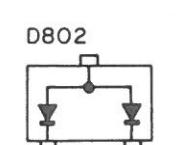
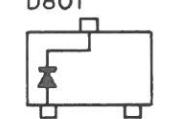
2D905
**CASSETTE
PLAYER
P.C.B**

INTERNAL COMPOSITION OF CHIP PARTS

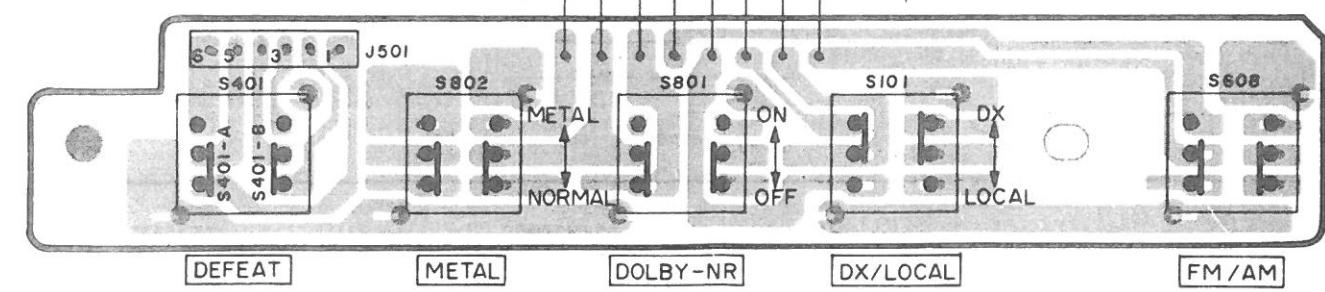
- TRANSISTORS (Q)
Q901, 908, 910, 913
915, 917, 919, 922



- DIODES (D)

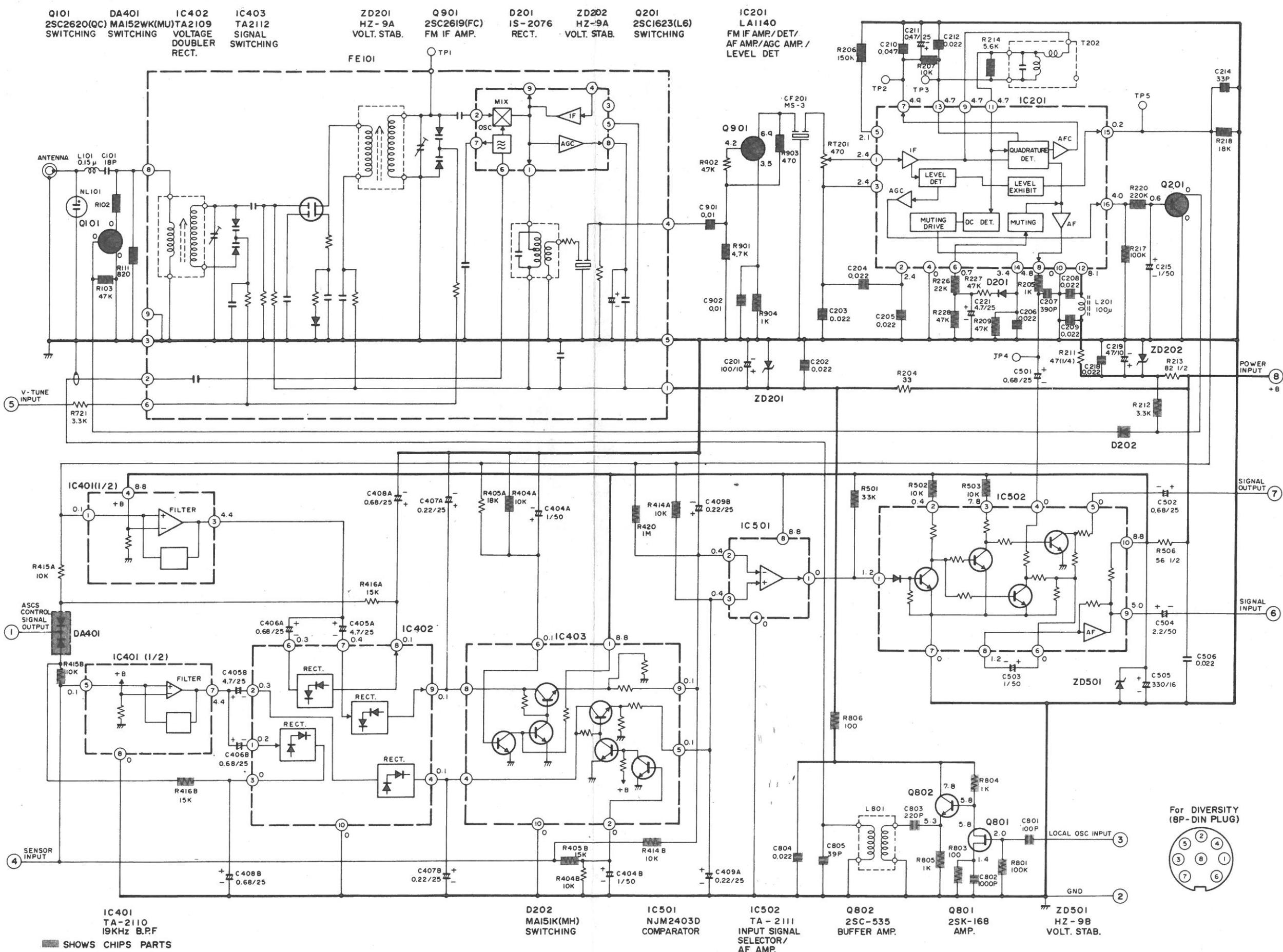


SHOWS CHIP PARTS

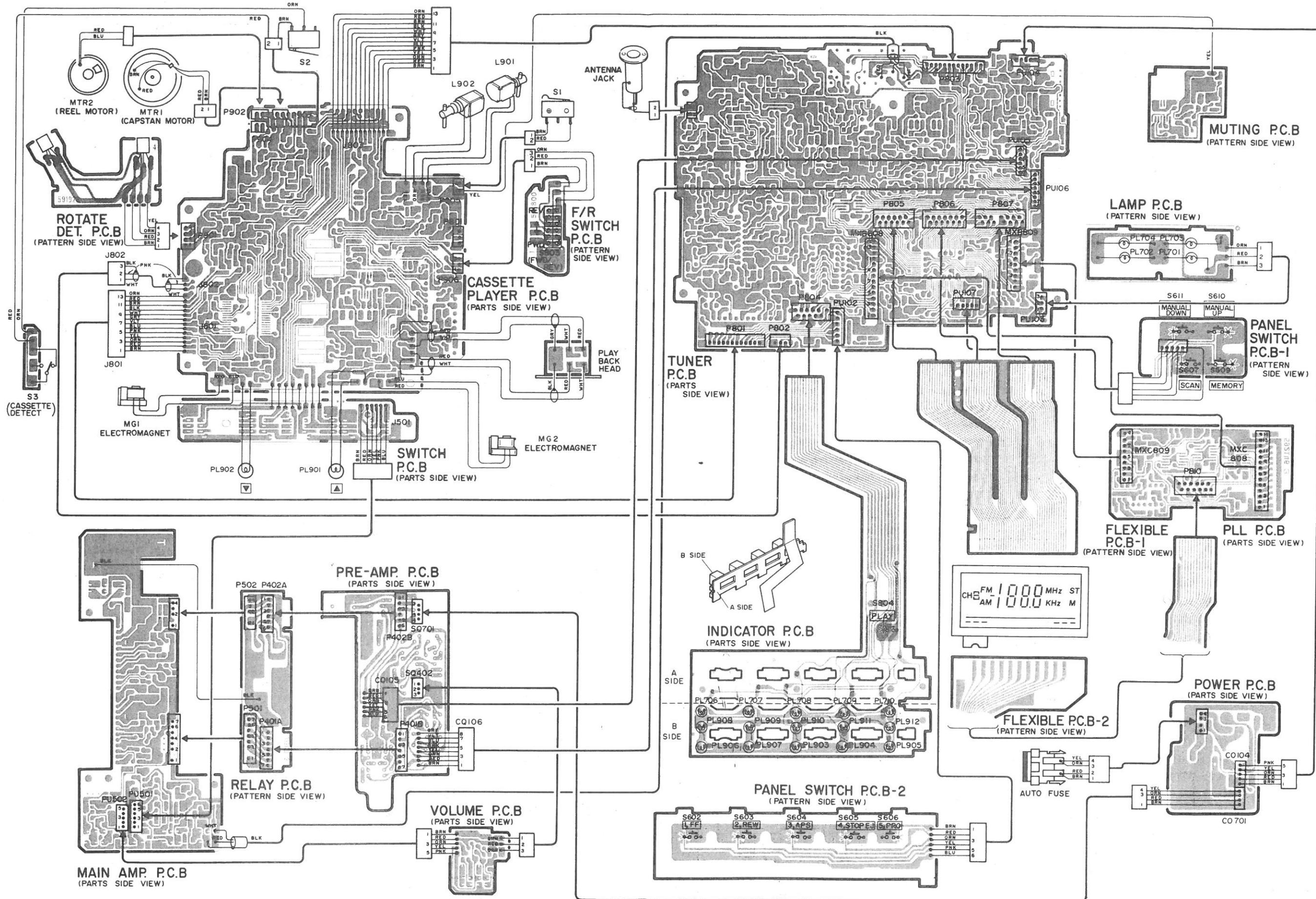


**SWITCH
P.C.B**

SCHEMATIC DIAGRAM (DIVERSITY UNIT)



WIRING DIAGRAM



REPLACEMENT PARTS LIST

Note: Parts marked with * are used for Diversity unit.

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
CAPACITORS					
C001	0256137	ELECTROLYTIC 3.3MF,16V	*C219	0256239	ELECTROLYTIC 47MF,10V
C003	0256522	ELECTROLYTIC CAPACITOR 0.22MICROF 2.5V	C220	0256137	ELECTROLYTIC 3.3MF,16V
C004-005	0256196	ELECTROLYTIC 100MF,16V	*C221	0247065	CERAMIC CHIP 0.022MF+-10%
C006	0256135	ELECTROLYTIC 10UF 16V	C222	0256224	ELECTROLYTIC 4.7MF,25V
C007	0247007	CERAMIC CHIP 0.01UF+-20%	C223	0256137	ELECTROLYTIC 3.3MF,16V
C101	0247016	CERAMIC CHIP 6PF+-0.5PF	C251-252	0256135	ELECTROLYTIC 10UF 16V
C103	0247031	CERAMIC CHIP 100PF+-5%	C253	0247065	CERAMIC CHIP 0.022MF+-10%
C104	0247035	CERAMIC CHIP 220PF+-5%	C254	0247065	CERAMIC CHIP 0.022MF+-10%
C152	0247061	CERAMIC CHIP 4700PF+-10%	C255	0256602	ELECTROLYTIC 220MF,10V
C154	0247065	CERAMIC CHIP 0.022MF+-10%	C256	0256137	ELECTROLYTIC 3.3MF,16V
C155	0247065	CERAMIC CHIP 0.022MF+-10%	C257	0247057	CERAMIC CHIP 2200PF+-10%
C156	0256298	ELECTROLYTIC 47MF,10V	C258	0247065	CERAMIC CHIP 0.022MF+-10%
C157	0256522	ELECTROLYTIC CAPACITOR 0.22MICROF 2.5V	C259	0247003	CERAMIC CHIP 1000PF+-20%
C158-159	0247065	CERAMIC CHIP 0.022MF+-10%	C260	0247065	CERAMIC CHIP 0.022MF+-10%
C160	0256288	ELECTROLYTIC 33MF,10V	C261	0256288	ELECTROLYTIC 33MF,10V
C161-162	0247065	CERAMIC CHIP 0.022MF+-10%	C262-263	0247065	CERAMIC CHIP 0.022MF+-10%
C163	0256135	ELECTROLYTIC 10UF 16V	C264	0256617	ELECTROLYTIC 22MF,10V
C164	0247065	CERAMIC CHIP 0.022MF+-10%	C265	0256137	ELECTROLYTIC 3.3MF,16V
C166	0256135	ELECTROLYTIC 10UF 16V	C266	0256190	ELECTROLYTIC 330MF,16V
C167	0247065	CERAMIC CHIP 0.022MF+-10%	C267	0256288	ELECTROLYTIC 33MF,10V
C201	0247007	CERAMIC CHIP 0.01UF+-20%	C269	0247057	CERAMIC CHIP 2200PF+-10%
*C201	0256244	ELECTROLYTIC 100UF 10V	C271	0256135	ELECTROLYTIC 10UF 16V
*C202	0247065	CERAMIC CHIP 0.022MF+-10%	C272	0247057	CERAMIC CHIP 2200PF+-10%
C202	0247065	CERAMIC CHIP 0.022MF+-10%	C301	0256137	ELECTROLYTIC 3.3MF,16V
C203	0247007	CERAMIC CHIP 0.01UF+-20%	C304	0247066	CERAMIC CHIP 0.033MF+-10%
*C203-206	0247065	CERAMIC CHIP 0.022MF+-10%	C305	0256137	ELECTROLYTIC 3.3MF,16V
C204	0256298	ELECTROLYTIC 47MF,10V	C306	0256135	ELECTROLYTIC 10UF 16V
C205-207	0247065	CERAMIC CHIP 0.022MF+-10%	C307	0247065	CERAMIC CHIP 0.022MF+-10%
*C207	0247038	CERAMIC CHIP 390PF+-5%	C308	0256180	ELECTROLYTIC 1MF,50V
C208	0256181	ELECTROLYTIC 4.7MF,16V	C309	0256137	ELECTROLYTIC 3.3MF,16V
*C208-209	0247065	CERAMIC CHIP 0.022MF+-10%	C310	0256180	ELECTROLYTIC 1MF,50V
C209-210	0247065	CERAMIC CHIP 0.022MF+-10%	C311	0247066	CERAMIC CHIP 0.033MF+-10%
*C210	0247065	CERAMIC CHIP 0.022MF+-10%	C312	0256137	ELECTROLYTIC 3.3MF,16V
*C211	0256524	ELECTROLYTIC 0.47MF,25V	C313	0247057	CERAMIC CHIP 2200PF+-10%
C211-212	0247065	CERAMIC CHIP 0.022MF+-10%	C401AB	0256137	ELECTROLYTIC 3.3MF,16V
*C212	0247065	CERAMIC CHIP 0.022MF+-10%	C402AB	0256137	ELECTROLYTIC 3.3MF,16V
C213	0256622	ELECTROLYTIC 33MF,16V	*C404AB	0256222	ELECTROLYTIC 1MF,50V
*C214	0247025	CERAMIC CHIP 33PF+-5%	*C405AB	0256224	ELECTROLYTIC 4.7MF,25V
C214	0256180	ELECTROLYTIC 1MF,50V	*C406AB	0256525	ELECTROLYTIC 0.68MF,25V
C215	0247065	CERAMIC CHIP 0.022MF+-10%	*C407AB	0256522	ELECTROLYTIC CAPACITOR 0.22MICROF 2.5V
*C215	0256222	ELECTROLYTIC 1MF,50V	*C408AB	0256525	ELECTROLYTIC 0.68MF,25V
C216	0256672	ELECTROLYTIC 0.47MF,50V	*C409AB	0256522	ELECTROLYTIC CAPACITOR 0.22MICROF 2.5V
C217	0247065	CERAMIC CHIP 0.022MF+-10%	C420AB	0247007	CERAMIC CHIP 0.01UF+-20%
C218	0247025	CERAMIC CHIP 33PF+-5%	C422AB	0201990	CERAMIC CHIP 0.047MF+-20%
*C218	0247065	CERAMIC CHIP 0.022MF+-10%	C423AB	0201991	CERAMIC CHIP 0.068MF+-20%
C219	0247008	CERAMIC CHIP 0.015UF+-20%	C424AB	0247056	CERAMIC CHIP 1500PF+-10%

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
CAPACITORS					
C425AB	0256137	ELECTROLYTIC 3.3MF,16V	C620	0256135	ELECTROLYTIC 10UF 16V
C426AB	0247035	CERAMIC CHIP 220PF+-5%	C621	0256288	ELECTROLYTIC 33MF,10V
C427AB	0256137	ELECTROLYTIC 3.3MF,16V	C622	0247056	CERAMIC CHIP 1500PF+-10%
C428AB	0256137	ELECTROLYTIC 3.3MF,16V	C623	0247007	CERAMIC CHIP 0.01UF+-20%
C432AB	0256522	ELECTROLYTIC CAPACITOR 0.22MICROF 2.5V	C624	0256298	ELECTROLYTIC 47MF,10V
C434AB	0256137	ELECTROLYTIC 3.3MF,16V	C627	0256630	ELECTROLYTIC 100MF,6.3V
C435AB	0256137	ELECTROLYTIC 3.3MF,16V	C628	0256617	ELECTROLYTIC 22MF,10V
C438	0256191	ELECTROLYTIC 470MF,16V	C701	0256627	ELECTROLYTIC 47MF,16V
C481	0256724	ELECTROLYTIC 10MF,16V	C706	0256643	ELECTROLYTIC 1000MF,16V
C501	0256137	ELECTROLYTIC 3.3MF,16V	C707	0256288	ELECTROLYTIC 33MF,10V
*C501-502	0256525	ELECTROLYTIC 0.68MF,25V	C708	0256627	ELECTROLYTIC 47MF,16V
C502AB	0256522	ELECTROLYTIC CAPACITOR 0.22MICROF 2.5V	C710	0256137	ELECTROLYTIC 3.3MF,16V
*C503	0256222	ELECTROLYTIC 1MF,50V	C711	0256622	ELECTROLYTIC 33MF,16V
C503AB	0247061	CERAMIC CHIP 4700PF+-10%	C713	0256135	ELECTROLYTIC 10UF 16V
*C504	0256197	ELECTROLYTIC 2.2MF,50V	C714	0256627	ELECTROLYTIC 47MF,16V
C504AB	0256630	ELECTROLYTIC 100MF,6.3V	*C801	0247031	CERAMIC CHIP 100PF+-5%
*C505	0256190	ELECTROLYTIC 330MF,16V	C801AB	0247039	CERAMIC CHIP 470PF+-5%
C505AB	0256630	ELECTROLYTIC 100MF,6.3V	*C802	0247054	CERAMIC CHIP 1000PF+-10%
*C506	0247065	CERAMIC CHIP 0.022MF+-10%	C802AB	0247039	CERAMIC CHIP 470PF+-5%
C506AB	0256626	ELECTROLYTIC 47MF,6.3V	*C803	0247035	CERAMIC CHIP 220PF+-5%
C507AB	0256630	ELECTROLYTIC 100MF,6.3V	C803	0256724	ELECTROLYTIC 10MF,16V
C508AB	0256195	ELECTROLYTIC 100MF,10V	*C804	0247065	CERAMIC CHIP 0.022MF+-10%
C509AB	0256195	ELECTROLYTIC 100MF,10V	C804AB	0256626	ELECTROLYTIC 47MF,6.3V
C510AB	0201989	CERAMIC CHIP 0.1MF+-20%	C805AB	0247007	CERAMIC CHIP 0.01UF+-20%
C511AB	0201989	CERAMIC CHIP 0.1MF+-20%	C806	0256292	ELECTROLYTIC 330MF,16V
C512	0201989	CERAMIC CHIP 0.1MF+-20%	C807	0256298	ELECTROLYTIC 47MF,10V
C513AB	0256199	ELECTROLYTIC 2200MF,16V	C808AB	0256722	ELECTROLYTIC 3.3MF,25V
C550-551	0256155	ELECTROLYTIC 10UF 16V	C809AB	0256722	ELECTROLYTIC 3.3MF,25V
C552	0201989	CERAMIC CHIP 0.1MF+-20%	C810	0256627	ELECTROLYTIC 47MF,16V
C601-603	0247003	CERAMIC CHIP 1000PF+-20%	C811AB	0256181	ELECTROLYTIC 4.7MF,16V
C604	0247045	CERAMIC CHIP 150PF+-0.5PF	C812AB	0247065	CERAMIC CHIP 0.022MF+-10%
C605	0247020	CERAMIC CHIP 10PF +-0.5PF	C813	0256721	ELECTROLYTIC 1MF,50V
C606	0247065	CERAMIC CHIP 0.022MF+-10%	C814	0256673	ELECTROLYTIC 2.2MF,50V
C608-609	0247001	CERAMIC CHIP 22PF+-5%	C815	0256351	ELECTROLYTIC 4.7MF,16V
C609	0256180	ELECTROLYTIC 1MF,50V	C816	0256520	ELECTROLYTIC CAPACITOR 0.1MICROF 2.5V
C610	0247065	CERAMIC CHIP 0.022MF+-10%	C817	0256415	TANTALUM 0.1MF 35V
C611	0256196	ELECTROLYTIC 100MF,16V	C818	0256298	ELECTROLYTIC 47MF,10V
C612AB	0				

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
CAPACITORS					
C904	0256137	ELECTROLYTIC 3.3MF,16V	R210-211	0127955	CHIP RESISTOR 47KOHM+-5%
C905	0256622	ELECTROLYTIC 33MF,16V	* R212	0127941	CHIP RESISTOR 3.3KOHM+-5%
C906	0247007	CERAMIC CHIP 0.01UF+-20%	R212	0127972	CHIP JUMPER RESISTOR
C907-908	0201989	CERAMIC CHIP 0.1MF+-20%	R213	0127949	CHIP RESISTOR 15KOHM+-5%
C909	0256185	ELECTROLYTIC 470MF,16V	* R214	0127944	CHIP RESISTOR 5.6KOHM+-5%
C911	0256724	ELECTROLYTIC 10MF,16V	R214	0127963	CHIP RESISTOR 220KOHM+-5%
C912	0256723	ELECTROLYTIC 4.7MF,25V	R215	0127959	CHIP RESISTOR 100KOHM+-5%
CT151-153	5058411	TRIMMER 50PF	R216	0127941	CHIP RESISTOR 3.3KOHM+-5%
RESISTORS					
R001	0127919	CHIP RESISTOR 470HM+-5%	* R217	0127951	CHIP RESISTOR 22KOHM+-5%
R002	0127921	CHIP RESISTOR 680HM+-5%	* R218	0127950	CHIP RESISTOR 18KOHM+-5%
R004	0127972	CHIP JUMPER RESISTOR	R219	0127961	CHIP RESISTOR 150K OHM +-5%
R101	0127955	CHIP RESISTOR 47KOHM+-5%	R220	0127943	CHIP RESISTOR 4.7KOHM+-5%
* R102	0127977	CHIP RESISTOR 5.60HM+-5%	* R220	0127963	CHIP RESISTOR 220KOHM+-5%
R102	0127977	CHIP RESISTOR 5.60HM+-5%	R221	0127946	CHIP RESISTOR 5.6KOHM+-5%
* R103	0127955	CHIP RESISTOR 47KOHM+-5%	R222	0127956	CHIP RESISTOR 56KOHM+-5%
R103-104	0127947	CHIP RESISTOR 10KOHM+-5%	R223	0127967	CHIP RESISTOR 1DKOHM+-5%
R105	0127947	CHIP RESISTOR 10KOHM+-5%	R224	0127958	CHIP RESISTOR 82KOHM+-5%
R106	0127941	CHIP RESISTOR 3.3KOHM+-5%	R225	0127935	CHIP RESISTOR 1KOHM+-5%
R107	0127935	CHIP RESISTOR 1KOHM+-5%	R226	0127950	CHIP RESISTOR 18KOHM+-5%
R108	0127959	CHIP RESISTOR 100KOHM+-5%	* R226	0127956	CHIP RESISTOR 56KOHM+-5%
R109	0127941	CHIP RESISTOR 3.3KOHM+-5%	R227	0127972	CHIP JUMPER RESISTOR
R151	0127919	CHIP RESISTOR 470HM+-5%	* R228	0127935	CHIP RESISTOR 1KOHM+-5%
R152	0127933	CHIP RESISTOR 6800HM+-5%	R228	0127967	CHIP RESISTOR 10KOHM+-5%
R156	0127919	CHIP RESISTOR 470HM+-5%	R251	0127935	CHIP RESISTOR 1KOHM+-5%
R157-158	0127955	CHIP RESISTOR 47KOHM+-5%	R252	0127967	CHIP RESISTOR 10KOHM+-5%
R159	0127930	CHIP RESISTOR 3900HM+-5% 1/8W	R253	0127939	CHIP RESISTOR 2.2KOHM+-5%
R160	0127952	CHIP RESISTOR 27K OHM +-5%	R254	0127941	CHIP RESISTOR 3.3KOHM+-5%
R161	0127923	CHIP RESISTOR 1000HM+-5%	R255	0127931	CHIP RESISTOR 4700HM+-5%
R162	0127953	CHIP RESISTOR 33KOHM+-5%	R256	0127956	CHIP RESISTOR 39KOHM+-5%
R164	0127963	CHIP RESISTOR 220KOHM+-5%	R257	0127923	CHIP RESISTOR 1000HM+-5%
R165-166	0127952	CHIP RESISTOR 27K OHM +-5%	R258	0127953	CHIP RESISTOR 33KOHM+-5%
R167-168	0127963	CHIP RESISTOR 220KOHM+-5%	R260	0127938	CHIP RESISTOR 1.8KOHM+-5%
R169	0127945	CHIP RESISTOR 6.8KOHM+-5%	R261	0127971	CHIP RESISTOR 1MOHM+-5%
R201-202	0127943	CHIP RESISTOR 4.7KOHM+-5%	R262	0127967	CHIP RESISTOR 470K OHM +-5%
R203	0127935	CHIP RESISTOR 1KOHM+-5%	R263	0127941	CHIP RESISTOR 3.3KOHM+-5%
R204	0127931	CHIP RESISTOR 4700HM+-5%	R264	0127934	CHIP RESISTOR 8200HM+-5%
* R205	0127935	CHIP RESISTOR 1KOHM+-5%	R265-266	0127955	CHIP RESISTOR 47KOHM+-5%
R205	0127947	CHIP RESISTOR 10KOHM+-5%	R301	0127972	CHIP JUMPER RESISTOR
R206	0127956	CHIP RESISTOR 56KOHM+-5%	R302	0127956	CHIP RESISTOR 56KOHM+-5%
* R206	0127961	CHIP RESISTOR 150K OHM +-5%	R303	0127945	CHIP RESISTOR 6.8KOHM+-5%
* R207	0127947	CHIP RESISTOR 10KOHM+-5%	R304	0127953	CHIP RESISTOR 33KOHM+-5%
R207	0127950	CHIP RESISTOR 18KOHM+-5%	R305	0127943	CHIP RESISTOR 4.7KOHM+-5%
* R209	0127955	CHIP RESISTOR 47KOHM+-5%	R306	0127939	CHIP RESISTOR 2.2KOHM+-5%
R209	0127976	CHIP RESISTOR 4.70HM+-5%	R307	0127935	CHIP RESISTOR 1KOHM+-5%
			R308	0127943	CHIP RESISTOR 4.7KOHM+-5%
			R309	0127939	CHIP RESISTOR 2.2KOHM+-5%
			R310-311	0127944	CHIP RESISTOR 5.6KOHM+-5%

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
RESISTORS					
* R404A	0127967	CHIP RESISTOR 10KOHM+-5%	R632	0127985	CHIP RESISTOR 110KOHM+-5%
* R405B	0127949	CHIP RESISTOR 15KOHM+-5%	R634AB	0127953	CHIP RESISTOR 33KOHM+-5%
* R414AB	0127967	CHIP RESISTOR 10KOHM+-5%	R635-636	0127947	CHIP RESISTOR 10KOHM+-5%
* R415A	0127947	CHIP RESISTOR 10KOHM+-5%	R637	0127937	CHIP RESISTOR 1,5KOHM+-5%
* R416B	0127949	CHIP RESISTOR 15KOHM+-5%	R638	0127959	CHIP RESISTOR 100KOHM+-5%
R444AB	0127949	CHIP RESISTOR 15KOHM+-5%	R639	0127956	CHIP RESISTOR 56KOHM+-5%
R445AB	0127943	CHIP RESISTOR 4.7KOHM+-5%	R640	0127967	CHIP RESISTOR 470K OHM +-5%
R446AB	0127945	CHIP RESISTOR 6.8KOHM+-5%	R641	0127955	CHIP RESISTOR 47KOHM+-5%
R447AB	0127941	CHIP RESISTOR 3.3KOHM+-5%	R642	0127961	CHIP RESISTOR 150K OHM +-5%
R448AB	0127951	CHIP RESISTOR 22KOHM+-5%	R643	0127963	CHIP RESISTOR 220KOHM+-5%
* R501	0127953	CHIP RESISTOR 33KOHM+-5%	R644	0127959	CHIP RESISTOR 100KOHM+-5%
R501AB	0127947	CHIP RESISTOR 10KOHM+-5%	R645	0127951	CHIP RESISTOR 22KOHM+-5%
* R502	0127947	CHIP RESISTOR 10KOHM+-5%	R647	0127953	CHIP RESISTOR 33KOHM+-5%
R502AB	0127947	CHIP RESISTOR 10KOHM+-5%	R648	0127923	CHIP RESISTOR 1000HM+-5%
* R503	0127947	CHIP RESISTOR 10KOHM+-5%	R649	0127939	CHIP RESISTOR 2.2KOHM+-5%
R503AB	0127946	CHIP RESISTOR 8.2KOHM+-5%	R650	0127919	CHIP RESISTOR 470HM+-5%
R504	0127972	CHIP JUMPER RESISTOR	R651	0127937	CHIP RESISTOR 1.5KOHM+-5%
R505AB	0127919	CHIP RESISTOR 470HM+-5%	R652	0127941	CHIP RESISTOR 3.3KOHM+-5%
R506AB	0127919	CHIP RESISTOR 470HM+-5%	R653	0127947	CHIP RESISTOR 10KOHM+-5%
R507AB	0127975	CHIP RESISTOR 2.20HM+-5%	R654	0127947	CHIP RESISTOR 10KOHM+-5%
R508AB	0127975	CHIP RESISTOR 2.20HM+-5%	R655-656	0127947	CHIP RESISTOR 10KOHM+-5%
R509	0127959	CHIP RESISTOR 100KOHM+-5%	R657	0127939	CHIP RESISTOR 2.2KOHM+-5%
R550	0127931	CHIP RESISTOR 4700HM+-5%	R660-670	0127967	CHIP RESISTOR 10KOHM+-5%
R551	0127947	CHIP RESISTOR 10KOHM+-5%	R671-681	0127959	CHIP RESISTOR 100KOHM+-5%
R552	0127949	CHIP RESISTOR 15KOHM+-5%	R682-692	0127947	CHIP RESISTOR 10KOHM+-5%
R553-555	0127953	CHIP RESISTOR 33KOHM+-5%	R693	0127959	CHIP RESISTOR 100KOHM+-5%
R556	0127959	CHIP RESISTOR 100KOHM+-5%	R694-697	0127947	CHIP RESISTOR 10KOHM+-5%
R557	0127956	CHIP RESISTOR 56KOHM+-5%	R701	0127959	CHIP RESISTOR 100KOHM+-5%
R558	0127966	CHIP RESISTOR 270KOHM+-5%	R702	0127947	CHIP RESISTOR 10KOHM+-5%
R602	0127939	CHIP RESISTOR 2.2KOHM+-5%	R710	0127953	CHIP RESISTOR 33KOHM+-5%
R603	0127931	CHIP RESISTOR 4700HM+-5%	R711	0127935	CHIP RESISTOR 1KOHM+-5%
R604	0127924	CHIP RESISTOR 1200HM+-5%	R712	0127955	CHIP RESISTOR 47KOHM+-5%
R605	0127939	CHIP RESISTOR 2.2KOHM+-5%	R713	0127950	CHIP RESISTOR 18KOHM+-5%
R606	0127935	CHIP RESISTOR 1KOHM+-5%	R714	0127947	CHIP RESISTOR 10KOHM+-5%
R607	0127943	CHIP RESISTOR 4.7KOHM+-5%	R716-718	0127972	CHIP JUMPER RESISTOR
R611	0127971	CHIP RESISTOR 1MOHM+-5%	R719	0127939	CHIP RESISTOR 2.2KOHM+-5%
R612	0127939	CHIP RESISTOR 2.2KOHM+-5%	R720	0127972	CHIP JUMPER RESISTOR
R613	0127927	CHIP RESISTOR 2200HM+-5%	+ R721	0127941	CHIP RESISTOR 3.3KOHM+-5%
R614	0127965	CHIP RESISTOR 6.8KOHM+-5%	R751	0127959	CHIP RESISTOR 100KOHM+-5%
R615	0127941	CHIP RESISTOR 3.3KOHM+-5%	R752	0127950	CHIP RESISTOR 18KOHM+-5%
R616	0127947	CHIP RESISTOR 10K			

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION			
RESISTORS								
* R803	0127923	CHIP RESISTOR 1000OHM+-5%	R945	0127947	CHIP RESISTOR 10KOHM+-5%			
R803AB	0127948	CHIP RESISTOR 12KOHM+-5%	R946	0127940	CHIP RESISTOR 2.7KOHM+-5%			
* R804	0127932	CHIP RESISTOR 5600OHM+-5%	R948-949	0127952	CHIP RESISTOR 27K OHM +-5%			
R804AB	0127950	CHIP RESISTOR 18KOHM+-5%	R950	0127947	CHIP RESISTOR 10KOHM+-5%			
* R805	0127935	CHIP RESISTOR 1KOHM+-5%	R951	0127940	CHIP RESISTOR 2.7KOHM+-5%			
R805	0127943	CHIP RESISTOR 4.7KOHM+-5%	R952	0127935	CHIP RESISTOR 1KOHM+-5%			
R806	0127930	CHIP RESISTOR 3900OHM+-5% 1/8W	R953	0127940	CHIP RESISTOR 2.7KOHM+-5%			
R807-809	0127943	CHIP RESISTOR 4.7KOHM+-5%	R954	0127947	CHIP RESISTOR 10KOHM+-5%			
R810	0127930	CHIP RESISTOR 3900OHM+-5% 1/8W	R955	0127935	CHIP RESISTOR 1KOHM+-5%			
R811AB	0127954	CHIP RESISTOR 39KOHM+-5%	R956	0127947	CHIP RESISTOR 10KOHM+-5%			
R812	0127967	CHIP RESISTOR 470K OHM +-5%	R957	0127940	CHIP RESISTOR 2.7KOHM+-5%			
R813	0127968	CHIP RESISTOR 560KOHM+-5%	R958	0127939	CHIP RESISTOR 2.2KOHM+-5%			
R814	0127930	CHIP RESISTOR 3900OHM+-5% 1/8W	R959	0127941	CHIP RESISTOR 3.3KOHM+-5%			
R815	0127935	CHIP RESISTOR 1KOHM+-5%	R960	0127972	CHIP JUMPER RESISTOR			
R816	0127966	CHIP RESISTOR 390KOHM+-5%	R961	0127940	CHIP RESISTOR 2.7KOHM+-5%			
R817	0127939	CHIP RESISTOR 2.2KOHM+-5%	R962-964	0127938	CHIP RESISTOR 1.8KOHM+-5%			
R818	0127927	CHIP RESISTOR 2200OHM+-5%	R965	0127947	CHIP RESISTOR 10KOHM+-5%			
R819AB	0127943	CHIP RESISTOR 4.7KOHM+-5%	R966-969	0127940	CHIP RESISTOR 2.7KOHM+-5%			
R820AB	0127936	CHIP RESISTOR 1.2KOHM+-5%	R970	0127943	CHIP RESISTOR 4.7KOHM+-5%			
R821AB	0127949	CHIP RESISTOR 15KOHM+-5%	R971	0127959	CHIP RESISTOR 100KOHM+-5%			
R822AB	0127947	CHIP RESISTOR 10KOHM+-5%	R972	0127949	CHIP RESISTOR 15KOHM+-5%			
R823	0127933	CHIP RESISTOR 6800OHM+-5%	R973	0127945	CHIP RESISTOR 6.8KOHM+-5%			
* R901-902	0127943	CHIP RESISTOR 4.7KOHM+-5%	RCD01	5068191	RESISTOR BLOCK RCD07			
R901-907	0127959	CHIP RESISTOR 100KOHM+-5%	RT001	5007436	SEMI VARIABLE 22KOHM			
* R903	0127931	CHIP RESISTOR 4700OHM+-5%	RT002	5007438	SEMI VARIABLE 100KOHM			
* R904	0127935	CHIP RESISTOR 1KOHM+-5%	* RT201	5007431	SEMI VARIABLE 4700OHM			
R908	0127946	CHIP RESISTOR 8.2KOHM+-5%	RT201	5007431	SEMI VARIABLE 4700OHM			
R909-915	0127947	CHIP RESISTOR 10KOHM+-5%	RT202	5007437	SEMI VARIABLE 47KOHM			
R916-922	0127940	CHIP RESISTOR 2.7KOHM+-5%	RT251	5007436	SEMI VARIABLE 22KOHM			
R923	0127986	CHIP RESISTOR 91KOHM+-5%	RT252	5007434	SEMI VARIABLE 4.7KOHM			
R924-925	0127955	CHIP RESISTOR 47KOHM+-5%	RT253	5007435	SEMI VARIABLE 10KOHM			
R926	0127947	CHIP RESISTOR 10KOHM+-5%	RT301	5007318	SEMI VARIABLE 20KOHM			
R927	0127959	CHIP RESISTOR 100KOHM+-5%	RT302	5007437	SEMI VARIABLE 47KOHM			
R928-929	0127961	CHIP RESISTOR 3.3KOHM+-5%	RT801AB	5007438	SEMI VARIABLE 100KOHM			
R930	0127940	CHIP RESISTOR 2.7KOHM+-5%	RT802AB	5007438	SEMI VARIABLE 100KOHM			
R931	0127968	CHIP RESISTOR 560KOHM+-5%	RT803	5007435	SEMI VARIABLE 10KOHM			
R932	0127917	CHIP PESISTOR 330HM+-5%	RT804AB	5007437	SEMI VARIABLE 47KOHM			
R933	0127941	CHIP RESISTOR 3.3KOHM+-5%	RV401-402	5005491	VARIABLE RESISTOR 50KOHM(B)			
R934	0127949	CHIP RESISTOR 15KOHM+-5%	RV403	5005501	VARIABLE RESISTOR 20KOHM(78I)			
R935	0127917	CHIP PESISTOR 330HM+-5%	RV404	5005492	VARIABLE RESISTOR 50KOHM(3B)			
R936	0127941	CHIP RESISTOR 3.3KOHM+-5%	RV501	5005491	VARIABLE RESISTOR 50KOHM(B)			
R937	0127949	CHIP RESISTOR 15KOHM+-5%	SEMI-CONDUCTORS					
R938	0127940	CHIP RESISTOR 2.7KOHM+-5%	D101	5329302	MICRO PACKAGE DIODE MA152WA			
R939	0127930	CHIP RESISTOR 3900OHM+-5% 1/8W	D102	5329321	MICRO PACKAGE DIODE MA151K			
R940-941	0127946	CHIP RESISTOR 8.2KOHM+-5%	D103	5329321	MICRO PACKAGE DIODE MA151K			
R942	0127941	CHIP RESISTOR 3.3KOHM+-5%	D151-152	5329321	MICRO PACKAGE DIODE MA151K			
R944	0127940	CHIP RESISTOR 2.7KOHM+-5%	D153-155	5331531	DIODE SVC321SP			

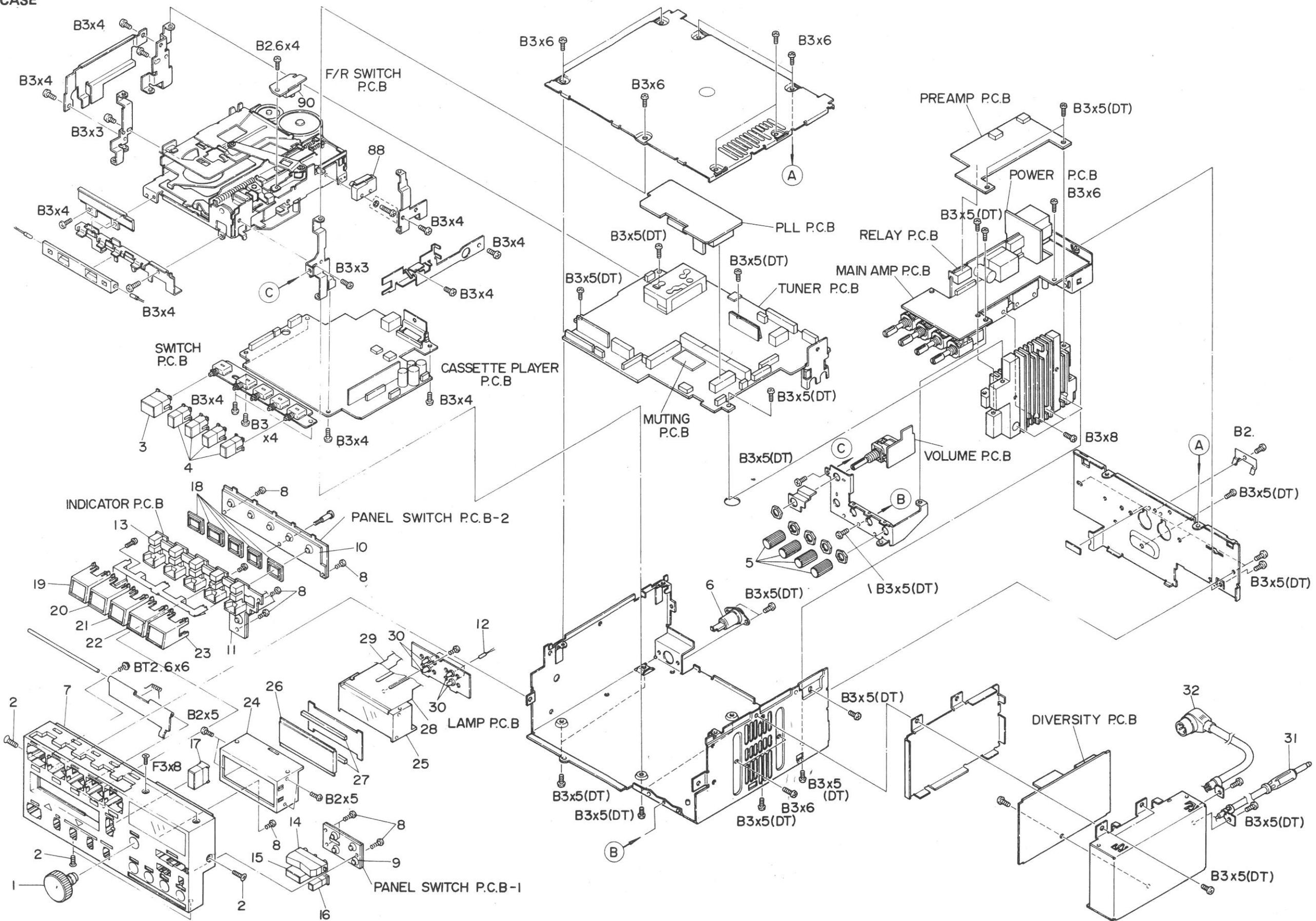
SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
SEMI-CONDUCTORS					
D156	5332341	DIODE 1SV34	Ic606-608	5361101	IC HD1407DBFP
* D201	5330134	DIODE 1S2D76S2	Ic701	5352782	IC MPC78M10
D201-202	5329321	MICRO PACKAGE DIODE MA151K	Ic801	5363541	IC TA7705F
* D202	5329321	MICRO PACKAGE DIODE MA151K	Ic802	5355341	IC MS1551FP
D251	5329301	MICRO PACKAGE DIODE MA152WK	Ic803	5358091	IC TA30038
D501	5329301	MICRO PACKAGE DIODE MA152WK	Ic804	5355521	IC BA338
D550	5329321	MICRO PACKAGE DIODE MA151K	Ic805-806	5355471	IC AN6884
D551	5329303	MICRO PACKAGE DIODE MA152WK	Ic901	5369626	IC HD4482DB16
D601	5329321	MICRO PACKAGE DIODE MA151K	Ic902	5352221	IC BA6107
D602	5329302	MICRO PACKAGE DIODE MA152WA	Ic905	5352782	IC MPC78M10
D603	5329321	MICRO PACKAGE DIODE MA151K	* 9101	5329221	MICRO PACKAGE TRANSISTOR 2SC2620
D604	5330101	RECTIFIER SILICON V06C 15K	9101-102	5329221	MICRO PACKAGE TRANSISTOR 2SC2620
D701-702	5330132	DIODE 1S2076A	9151	5323082	TRANSISTOR 2SK163
D703	5330101	RECTIFIER SILICON V06C 15K	9152	5329231	MICRO PACKAGE TRANSISTOR 2SC2619(FC)
D704	5330101	RECTIFIER SILICON V06C 15K	9153	5329042	MICRO PACKAGE TRANSISTOR 2SC1623(L-6)
D705	5330101	RECTIFIER SILICON V06C 15K	9154	5329221	MICRO PACKAGE TRANSISTOR 2SC2620
D708	5330104	RECTIFIER SILICON V06A 15K	9155	5329042	MICRO PACKAGE TRANSISTOR 2SC1623(L-6)
D801	5329321	MICRO PACKAGE DIODE MA151K	* 9201	5329042	MICRO PACKAGE TRANSISTOR 2SC1623(L-6)
D802	5329304	MICRO PACKAGE DIODE MA152WA(MO)	9201	5329231	MICRO PACKAGE TRANSISTOR 2SC2619(FC)
D902-907	5330101	RECTIFIER SILICON V06C 15K	9202-206	5329042	MICRO PACKAGE TRANSISTOR 2SC1623(L-6)
D908	5330131	DIODE 1S2076	9251	5329042	MICRO PACKAGE TRANSISTOR 2SC1623(L-6)
D909	5329381	DIODE	9406AB	5321294	TRANSISTOR 2SC 1740S
D910	5329301	MICRO PACKAGE DIODE MA152WK	9501AB	5322381	TRANSISTOR 2SD695
IC401	5329303	MICRO PACKAGE DIODE MA152WK	9550	5329211	TRANSISTOR
ICD01	5357101	IC TA2040	9551	5329042	MICRO PACKAGE TRANSISTOR 2SC1623(L-6)
IC151	5363211	IC MPC1248	IC201	5351802	IC LA1140
* IC201	5351802	IC LA1140	9601	5329592	MICRO PACKAGE TRANSISTOR 2SK217(ZE)
IC201	5351802	IC LA1140	9602-604	5329261	MICRO PACKAGE TRANSISTOR 2SA1D52C
IC251	5378301	IC TA2070	9605-611	5329042	MICRO PACKAGE TRANSISTOR 2SC1623(L-6)
IC301	5351811	IC LA3370	9612	5320623	TRANSISTOR SILICON 2SC1213A-C 80MHZ 400M
* IC401	5378252	IC TA2110A	9613	5323322	TRANSISTOR 2SD1251P-BB
* IC402	5378241	IC TA2109	9614	5329042	MICRO PACKAGE TRANSISTOR 2SC1623(L-6)
IC403	5352091	IC MPC358C	9615	5329261	MICRO PACKAGE TRANSISTOR 2SA1D52C
* IC403	5378271	IC TA2112	9616	5329042	MICRO PACKAGE TRANSISTOR 2SC1623(L-6)
IC404	5357071	IC TA2037	9617-619	5329042	MICRO PACKAGE TRANSISTOR 2SC1623(L-6)
* IC501	5363201	IC NJM2403D	9701	5329042	MICRO PACKAGE TRANSISTOR 2SC1623(L-6)
IC501AB	5352071	IC HA1388	9702	5320623	TRANSISTOR SILICON 2SC1213A-C 80MHZ 400M
* IC502	5378262	IC TA2111A	9703	5322652	TRANSISTOR 2SD667D
IC550	5361101	IC HD1407DBFP	9704-705	5322652	TRANSISTOR 2SD667D
IC601	5365521	IC M54459L	IC605	5361101	IC HD1407DBFP
IC602	5368051</				

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
SEMI-CONDUCTORS					
Q706-707	5329042	MICRO PACKAGE TRANSISTOR ZSC1623(L-6)	ZD905	5331012	ZENER DIODE HZ5B
TRANSFORMERS					
Q708	5329202	MICRO PACKAGE TRANSISTOR ZSC2618(RC02)	T001	5120844	CHOKE COIL 16MH
Q801	5321662	TRANSISTOR ZSC2021S	T002	5120845	CHOKE COIL 25MH
* Q801	5322371	TRANSISTOR ZSK168	T151	5120805	AM RF COIL
Q802	0573511	TRANSISTOR SILICON 700M ZSC535	T201	5140241	FM IF TRANSFORMER
* Q901	5329231	MICRO PACKAGE TRANSISTOR ZSC2619(FC)	*T202	5140241	FM IF TRANSFORMER
Q901-907	5329261	MICRO PACKAGE TRANSISTOR ZSA1052C	T251	5130032	AM IF TRANSFORMER 20KOHM : 1KOHM
Q908	5329211	TRANSISTOR	T252	5130157	AM IF TRANSFORMER
COILS					
Q909	5323322	TRANSISTOR ZSD1251P-BD	*L101	5152801	TRAP COIL
Q910	5329211	TRANSISTOR	L101	5152801	TRAP COIL
Q911	5323322	TRANSISTOR ZSD1251P-BD	L102	5150571	CHOKE COIL 33MH
Q912	5320623	TRANSISTOR SILICON ZSC1213A-C 80MHZ 400M	L151	5152472	CHOKE COIL 100MICROH
Q913	5329261	MICRO PACKAGE TRANSISTOR ZSA1052C	L152	5120806	LW ANTENNA COIL
Q914	5329042	MICRO PACKAGE TRANSISTOR ZSC1623(L-6)	L153	5152337	CHOKE COIL 100UH+-10%
Q915	5329261	MICRO PACKAGE TRANSISTOR ZSA1052C	L154	5120803	AM RF COIL
Q916	5329202	MICRO PACKAGE TRANSISTOR ZSC2618(RC02)	L155	5120804	MW OSCILLATOR COIL
Q917	5329261	MICRO PACKAGE TRANSISTOR ZSA1052C	L156	5124127	CHOKE COIL 18MICRO H
Q918	5329202	MICRO PACKAGE TRANSISTOR ZSC2618(RC02)	L158	5120356	FILTER COIL
Q919	5329261	MICRO PACKAGE TRANSISTOR ZSA1052C	*L201	5152337	CHOKE COIL 100UH+-10%
Q920	5329042	MICRO PACKAGE TRANSISTOR ZSC1623(L-6)	L201-202	5152337	CHOKE COIL 100UH+-10%
Q921	5322882	TRANSISTOR ZSA874-Q	L251	5120273	TRAP COIL 2MH
Q922	5329261	MICRO PACKAGE TRANSISTOR ZSA1052C	L602	5220113	CHOKE COIL 1MH
Q923	5329042	MICRO PACKAGE TRANSISTOR ZSC1623(L-6)	*L801	5126911	FM RF COIL
Q924	5329261	MICRO PACKAGE TRANSISTOR ZSA1052C	L903	5152328	CHOKE COIL 22UH+-10%
MISCELLANEOUS					
*ZD201-202	5330321	ZENER DIODE HZ-9A		5653182	DIN SOCKET
ZD201-202	5330321	ZENER DIODE HZ-9A		5659671	CONNECTOR
ZD203	5330552	ZENNER DIODE HZ11B		5659711	BP DIN SOCKET
ZD252	5330322	DIODE-ZENER SILICON TR-98 10K		5721533	FUSE 7.5A
*ZD501	5330322	DIODE-ZENER SILICON TR-98 10K		5722271	FUSE SOCKET
ZD550	5330391	DIODE-ZENER SILICON	*CF201	5160281	CERAMIC FILTER 10.7MHZ
ZD601	5331268	ZENER DIODE HZ6B3L	CF201	5160281	CERAMIC FILTER 10.7MHZ
ZD602	5330392	ZENER DIODE SILICON HZ6B 1MHZ 400MW	CF251	5160141	CERAMIC FILTER
ZD701	5330556	ZENNER DIODE HZ11A2	CF252	5160132	CERAMIC FILTER
ZD801	5330321	ZENER DIODE HZ-9A	FE101	5587122	FM TUNER PACK
ZD802	5330392	ZENER DIODE SILICON HZ6B 1MHZ 400MW	*FE101	5587151	FM TUNER PACK
ZD803	5330392	ZENER DIODE SILICON HZ6B 1MHZ 400MW	NL101	5766071	NEON LAMP
ZD804	5330553	DIODE HZ11C	PL702-705	5762661	LAMP
ZD901	5331012	ZENER DIODE HZ5B	PL901-902	5762492	LAMP
ZD902	5330315	ZENER DIODE HZ7C3	RL601	5641641	RELAY
ZD903	5331015	DIODE HZ-5C1	RL701	5641412	RELAY
ZD904	5330321	ZENER DIODE HZ-9A	RL901	5641412	RELAY

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
MISCELLANEOUS					
\$101	5633871	PUSH SWITCH (DX/LOCAL)	38	6300094	SPRING
\$401	5633872	PUSH SWITCH (DEFEAT)	39	6432584	PULLEY GEAR ASSEMBLY
\$608	5633873	PUSH SWITCH (FM/AM)	40	7787732	WASHER
\$801-802	5633871	PUSH SWITCH (DOLBY NR, TAPE)	41	7771441	WASHER - 2 MM
X601	5780851	CRYSTAL	42	7771442	WASHER-2MM
FOR CASE ASSEMBLY					
1	6299591	KNOB ASS (VOLUME)	43	7351564	HEAD PLATE ASSEMBLY
2	8724405	FALT SCREW-3MMX5MM	44	5446076	HEAD
3	6059261	PUSH BUTTON ASS. (FM/AM)	45	6535372	HEAD ADJUST SPRING
4	6059281	PUSH BUTTON ASS (DX/LOC,DOLBY,METAL,DEFE)	46	7781007	HEAD ADJUST SCREW
5	6299561	KNOB ABS (BASS,TREBLE,BAL,FAD)	47	6302001	SPRING
6	5675341	ANTENNA JACK	48	7351341	EXCHANGE FUNCTION ARM ASSEMBLY
7	6227112	FRONT PANEL ASSEMBLY	49	6543161	SPRING
8	8784138	BIND TAPPING SCREW-2MMX8MM	50	7351362	EXCHANGE LEVER ASSEMBLY
9	5639881	PANEL SWITCH ASSEMBLY	51	6543163	SPRING
10	5639871	PANEL SWITCH ASSEMBLY	52	5644063	DC SOLENOID
11	6591261	CONNECTOR RUBBER	53	5644064	DC SOLENOID
12	5762541	LAMP	54	6774822	EXCHANG CAM ASSEMBLY
13	5762591	LAMP	55	7787735	WASHER
14	6299571	BUTTON ASS (TUNE)	56	7351302	PRESSURE ROLLER ARM ASSEMBLY(F)
15	6059331	PUSH BUTTON ASS (SCAN)	57	6548551	SPRING
16	6059301	PUSH BUTTON ASS (MEMORY)	58	7351312	PRESSURE ROLLER ARM ASSEMBLY(R)
17	6059321	PUSH BUTTON ASS (PLAY)	59	6432671	PLAY GEAR
18	6777451	BUTTON STOPPER	60	7357561	TAKE UP ARM ASSEMBLY
19	6059251	BUTTON ASS (FF)	61	6432555	TAKE UP GEAR ASSEMBLY
20	6059252	BUTTON ASS (REW)	62	7351401	POWER ASSIST LEVER
21	6059253	BUTTON ASS (APS)	63	6543166	SPRING
22	6059254	BUTTON ASS (STOP/EJ)	64	6374311	FLYWHEEL ASSEMBLY
23	6059255	BUTTON ASS (PRO)	65	778855	POLY SLIDER WASHER
24	6777481	LCD CASE	66	778852	POLYESTER WASHER
25	6206001	ILLUMINATION PLATE	67	7357581	CAPSTAN GEAR ASSEMBLY
26	5311092	LCD DISPLAY	68	6355753	FLYWHEEL BELT
27	6591084	LCD CONNECTOR	69	6355752	BELT
28	5921371	CONNECTOR P.C.B (F1)	70	7756191	FLYWHEEL SUPPORT
29	5921321	CONNECTOR P.C.B (F2)	71	6432651	TURNTABLE GEAR ASSEMBLY
30	6570531	LAMP CAP	72	7787731	WASHER
31	5661371	ANTENNA PLUG	73	778855	POLY SLIDER WASHER
32	5749651	8P DIN CORD	74	5391032	HOLEIC DN6838A
MECHANISM(FC-2C)					
33	7351292	SOLENOID SLIDER(L)	75	5577552	DC MOTOR ASSEMBLY
34	7351471	SOLENOID SLIDER(P)	76	8812113	WASHER SMALL - 2.6MM
35	6536622	SPRING	77	7780902	PAN HEAD SCREW-1.7MMX2MM
36	6432613	LE GEAR	78	6543052	FUNCTION HOLDER ASSEMBLY
37	6548583	SPRING	79	5643094	SPRING
			80	7357551	CASSETTE HOLDER ASSEMBLY

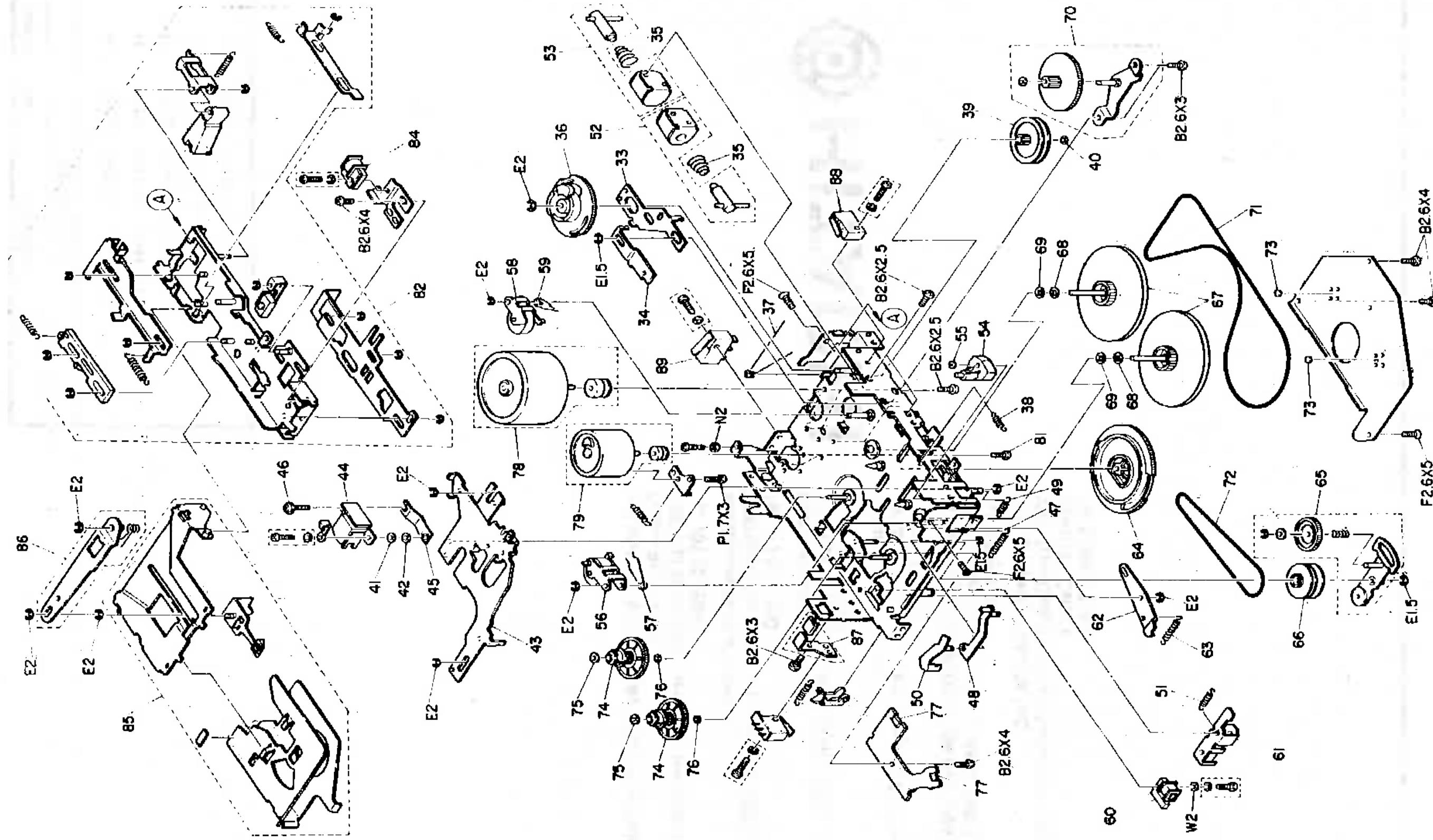
EXPLODED VIEW

1. CASE



Note: Components marked without numbers in this drawing are not specified as replacement parts.

2. MECHANISM (FC-2C)



Note: Components marked without numbers in this drawing are not specified as replacement parts.

SYMBOL NO.	P.N.O.	DESCRIPTION
MECHANISM(FG-2C)		
86	7351762	CASSETTE ARM ASSEMBLY
87	7337571	CASSSETTE HOLDER PLATE ASSY
88	5601221	MICRO SWITCH
89	5601222	MICRO SWITCH
90	5842521	SLIDE SWITCH


HITACHI SALES CORPORATION OF AMERICA

Eastern Regional Office
1200 Wall Street-West, Lyndhurst, New Jersey 07071, U.S.A.
Tel. 201-935-8980

Mid-Western Regional Office
1400 Morse Ave., Elk Grove Village, Ill. 60007, U.S.A.
Tel. 312-593-1550

Southern Regional Office
510 Plaza Drive, College Park, Georgia 30349, U.S.A.
Tel. 404-763-0380

Western Regional Office
401 West Artesia Boulevard, Compton, California 90220 U.S.A.
Tel. 213-537-8383

HITACHI SALES CORPORATION OF HAWAII, INC.
3219 Koapaka Street, Honolulu, Hawaii 96819, U.S.A.
Tel. 808-836-3621

HITACHI (HSC) CANADA INC.
3300 Trans-Canada Highway, Pointe Claire, Quebec,
H9R 1B1, Canada
Tel. 514-697-9150