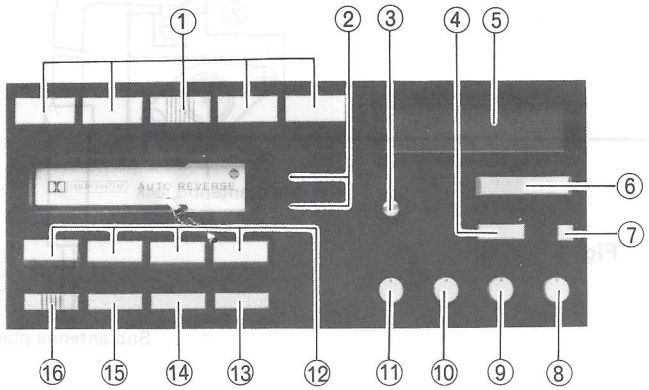
HITACHI
SERVICE MANUAL

TK | **No. 2361E**

CSK-9101Z

For NISSAN FAIRLADY Z
NISSAN PART NO. 28111-20P00



KEY TO ILLUSTRATIONS

① CHANNEL SWITCHES
② PROGRAM INDICATORS
③ POWER SWITCH/VOLUME CONTROL
④ SCAN SWITCH
⑤ TUNER DISPLAY
⑥ MANUAL UP/DOWN SWITCHES
⑦ MEMORY SWITCH
⑧ FADER CONTROL
⑨ BALANCE CONTROL
⑩ TREBLE CONTROL
⑪ BASS CONTROL
⑫ CASSETTE OPERATION BUTTONS
⑬ TAPE SELECTOR SWITCH
⑭ DOLBY-NR SWITCH
⑮ DX/LOCAL SWITCH
⑯ BAND SELECTOR SWITCH

SPECIFICATIONS

[TUNER SECTION]

Circuit System:	Superheterodyne PLL synthesized tuner
Tuning Range:	FM: 87.9 MHz to 107.9 MHz AM: 530 kHz to 1610 kHz
Intermediate Frequency:	FM: 10.7 MHz AM: 450 kHz
Sensitivity:	FM: 4 dB (Max.), 8 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 and push button system
Wow and Flutter:	0.1% (WRMS)
S/N (Signal to Noise Ratio):	60 dB (DOLBY NR: ON), 50 dB (DOLBY NR: OFF)
Cross-talk:	49 dB (Between Channels) 59 dB (Between Tracks)
Distortion:	Less than 5%
Frequency Response:	Normal: 50 Hz to 12 kHz METAL: 50 Hz to 14 kHz
Fast forwarding Time:	90 Seconds (using C-60)
Motor:	DC motor

[GENERAL SECTION]

Audio Output:	40W (Max.) 30 W (T.H.D 10%)
Power Supply:	DC 12V negative ground (Use car battery)
Semi-conductors:	IC's: 16 Transistors: 52 FET: 2 Diodes: 29 Zener diodes: 11 Varicap diodes: 3
Dimensions:	7.7(H)×18.2(W)×17.2(D)cm
Weight:	2.3kg

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

AUTO REVERSE CASSETTE PLAYER WITH FM/AM DIGITAL TUNER

Oct. 1985 **TOKAI WORKS**

CONNECTOR TERMINALS

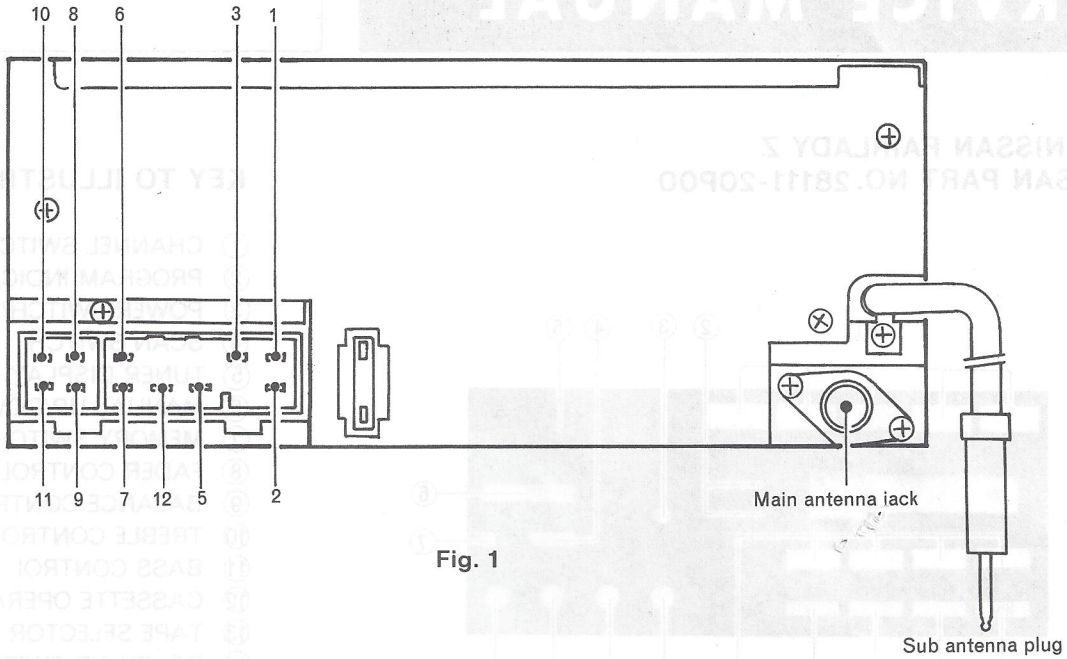


Fig. 1

Connector	Terminal No.	Connector Purpose
For Automobile Use (14P-S Connector)	1	ACC Power Input
	2	Backup Power Input
	3	Power Input for Lights
	4	—
	5	Power Output for Antenna Motor
	6	Left Front Speaker Output
	7	Right Front Speaker Output
	8	Left Rear Speaker Output
	9	Right Rear Speaker Output
	10	Left Speakers Common (–)
	11	Right Speakers Common (–)
	12	Ground

DISASSEMBLY

1. Top Pannel

Remove the 5 fixing screws Ⓐ . (See Figure 1)

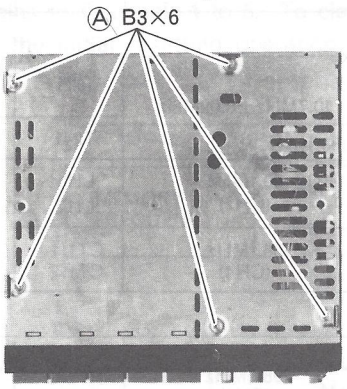


Fig. 1

2. Escutcheon

1) Remove the top pannel. (See Item 1)
2) Remove the 5 fixing screws Ⓑ . (See Figure 2, 3, 4, 5)
3) Remove the 6 connectors. (See Figure 5)

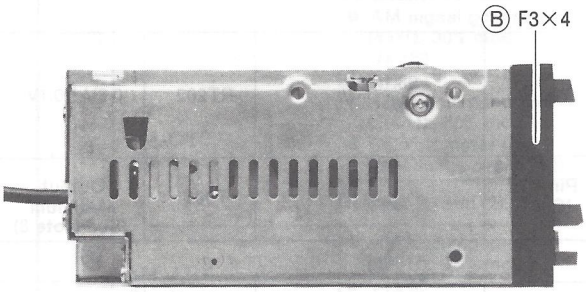


Fig. 2

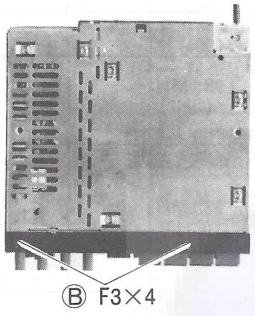


Fig. 3

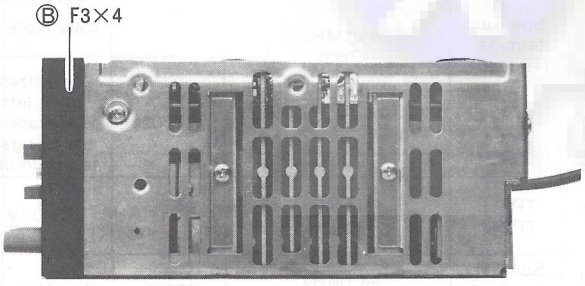


Fig. 4

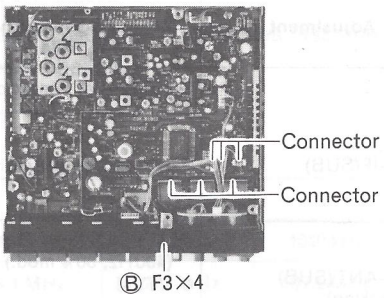


Fig. 5

3. Tuner Circuit Board

1) Remove the top pannel. (See Item 1)
2) Remove the 5 fixing screws Ⓒ and 5 connectors. (See Figure 6)
3) Use a ⊖ screwdriver to remove and raise the circuit board from the slots in the rear pannel. Remove the junction plug. (See Figure 7)

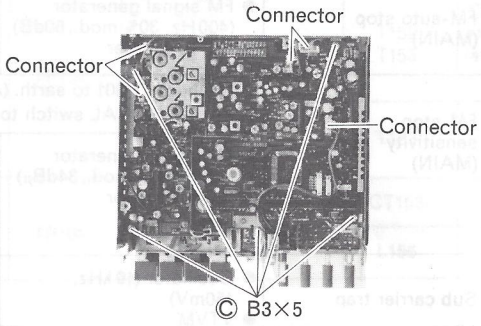


Fig. 6

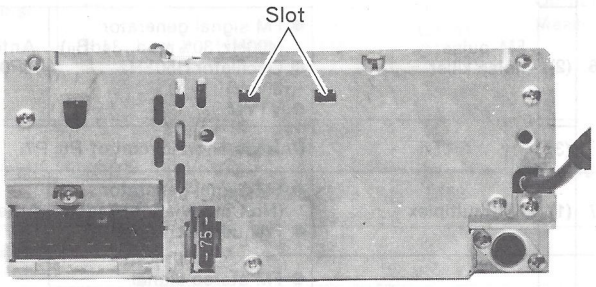


Fig. 7

4. Rear Pannel

1) Remove the tuner circuit board. (See Item 3)
2) Remove the 5 fixing screws Ⓓ . (See Figure 8)

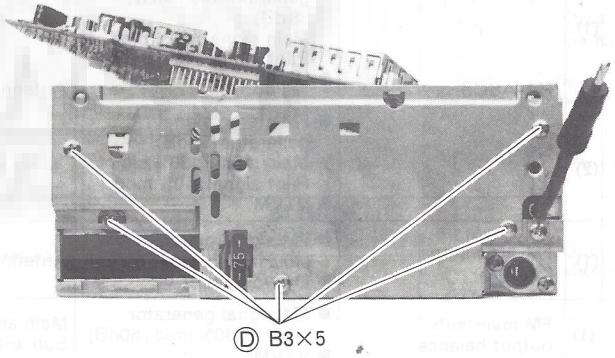


Fig. 8

5. Power Amp Circuit Board.

1) Remove the tuner circuit board and rear pannel. (See Item 3 and 4)
2) Remove the 6 fixing screws Ⓔ and 1 connector. (See Figure 9, 10, 11, 12)

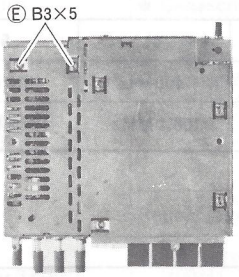


Fig. 9

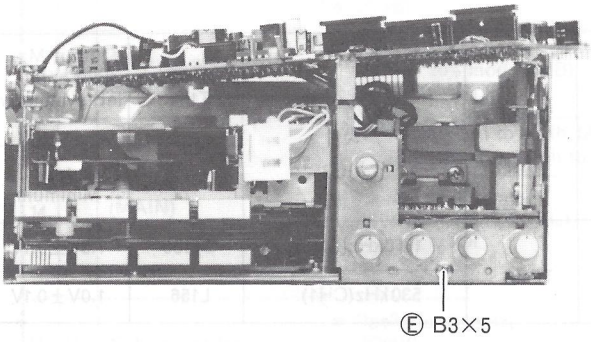


Fig. 10

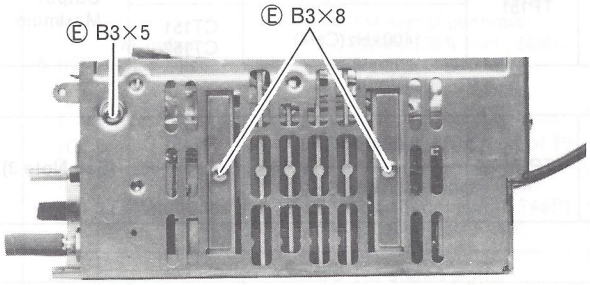


Fig. 11

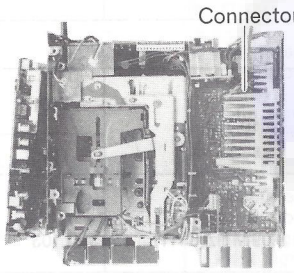


Fig. 12

6. Heat Sink

1) Remove the power amp circuit board. (See Item 5)
2) Remove the 6 fixing screws Ⓕ. (See Figure 13, 14, 15)

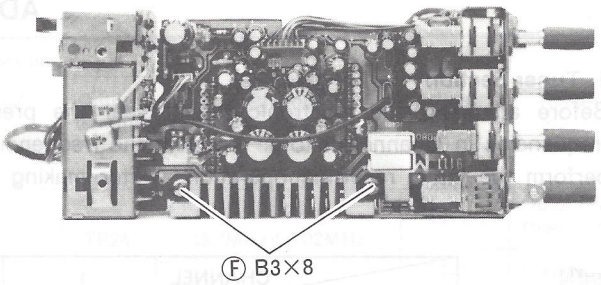


Fig. 13

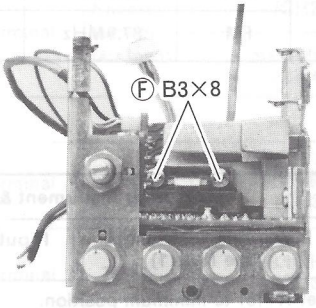


Fig. 14

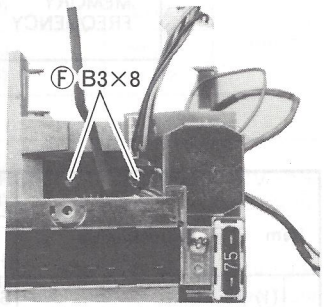


Fig. 15

7. Cassette Mechanism

1) Remove the top pannel. (See Item 1)
2) Remove the escutheon. (See Item 2)
3) Remove the tuner circuit board (See Item 3)
4) Remove the 5 fixing screws Ⓖ (See Figure 16, 17)

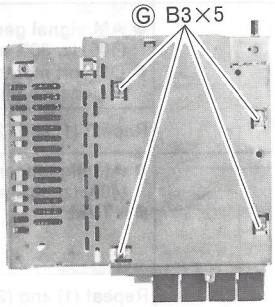


Fig. 16

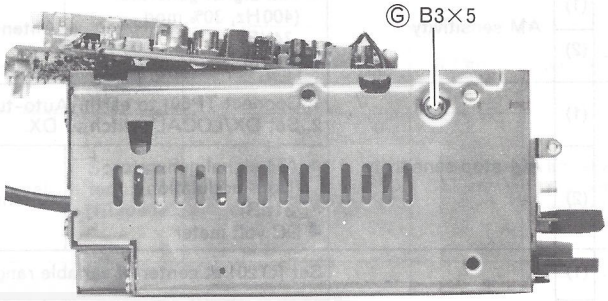


Fig. 17

8. Pre Amp Circuit Board

1) Remove the cassette mechanism. (Sec Item 7)
2) Remove the 6 fixing screws Ⓗ. (See Figure 18)

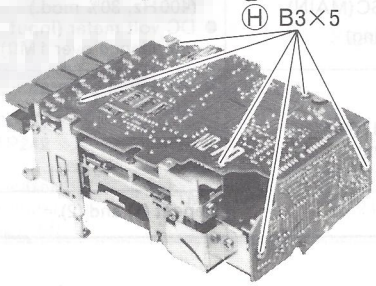


Fig. 18

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 resetting 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			
1	(1)	AM-IF	Set RT151 to minimum position.					
	(2)		● AM signal generator (400Hz, 30% mod. 20dB) ● Oscilloscope	Antenna terminal	TP151	1000 kHz (CH3)	T152 T153	Output Max., right and left symmetry
	(3)		● AM signal generator (4 kHz, 30% mod. 74 dB)				T153	Output Minimum
2	(1)	AM-OSC (Covering)	● AM signal generator (400 Hz, 30% mod.) ● DC volt meter (Input impedance over 1 MΩ)	Antenna terminal	TP101	1610 kHz(CH5)	CT153	7.5V±0.1V
	(2)					530 kHz(CH1)	L156	1.0V±0.1V
	(3)		Repeat (1) and (2).					
3	(1)	AM-ANT (Tracking)	● AM signal generator (400 Hz, 30% mod.) ● VTVM	Antenna terminal	TP151	600 kHz(CH2)	L155 T151	Output Maximum
	(2)					1400 kHz(CH4)	CT151 CT152	
	(3)		Repeat (1) and (2).					
4	(1)	AM sensitivity	● AM signal generator (400 Hz, 30% mod., 74 dB) ● VTVM	Antenna terminal	TP151	1000 kHz(CH3)	RT151	(See Note 3)
	(2)					600 kHz(CH2)	L152	
5	(1)	AM-stop sensitivity	1. Connect TP601 to earth. (Auto-tuning state). 2. Set DX/LOCAL switch to DX.					
	(2)		● AM signal generator (Non-modulation 31 dB) ● DC volt meter	Antenna terminal	TP152	1000 kHz(CH3)	RT152	0.2V～0.7V
6	(1)	FM-IF (MAIN)	Set RT201 at center of variable range.					
	(2)		● Genescope (10.7 MHz)	P0	TP203	10.7 MHz	T101	Output Max. (See Note 4)
	(3)						T201	(See Note 5)
7	(1)	FM-OSC (MAIN) (Covering)	● FM signal generator (400 Hz, 30% mod.) ● DC volt meter (Input impedance over 1 MΩ)	Antenna terminal	TP101	87.9 MHz(CH1)	L103	1.5V±0.1V
	(2)							
8	(1)	FM-ANT (MAIN) (Tracking)	● FM signal generator (400 Hz, 30% mod.) ● VTVM	Antenna terminal	Speaker terminal (4Ω load)	90.1 MHz (CH2)	L101 L102	Output Maximum
	(2)					106.1 MHz (CH4)	CT101 CT102	
	(3)		Repeat (1) and (2).					

Item		Adjustment	Measuring instrument & connection			Measuring frequency (See Note 2)	Adjust	Reading
			Measuring instrument (See Note 1)	Input terminal	Output terminal			
9	(1)	FM-IF (SUB)	Set RT241 at center of variable range.					
	(2)		● Genescope (10.7 MHz)	P1	TP243	10.7MHz±0.02MHz	T111	Output Max. (See Note 6)
	(3)						T241	(See Note 7)
10	(1)	FM-ANT (SUB) (Tracking)	●FM signal generator (400 Hz, 30% mod.) ● VTVM	Antenna terminal	Speaker terminal (4Ω load)	90.1MHz (CH2)	L111 L112	Output Maximum
	(2)					106.1MHz (CH4)	CT111 CT112	
	(3)		Repeat (1) and (2).					
11	(1)	FM-limiter (MAIN)	● FM signal generator (400 Hz, 30% mod., 18dB) ● VTVM	Antenna terminal	TP203	98.1 MHz (CH3)	RT201	1.1V±20mV (See Note 12)
12	(1)	FM-limiter (SUB)	● FM signal generator (400 Hz, 30% mod., 18dB) ● VTVM	Antenna terminal	TP243	98.1MHz (CH3)	RT241	1.1V±20mV (See Note 13)
13	(1)	FM-auto stop (MAIN)	● FM signal generator (400 Hz, 30% mod., 60dB) ● DC volt meter	Antenna terminal	TP201 TP202	98.1MHz (CH3)	T201	0±0.1V
14	(1)	FM-stop sensitivity (MAIN)	1. Connect TP601 to earth. (Auto-tuning state) 2. Set DX/LOCAL switch to DX.					
	(2)		● FM signal generator (400Hz 30% mod., 34dBμ) ● DC volt meter	Antenna terminal	TP152	98.1MHz (CH3)	RT202	0.8V±0.1V
15	(1)	Sub carrier trap	● Oscillator (19 kHz, 150mV) ● VTVM	Pin 4 of IC001	Pin 4 of IC001	—	T001	Output Maximum (See Note 8)
16	(1)	FM-pulse noise killer	Short-circuit P6, P7.					
	(2)		● FM signal generator (400Hz, 30% mod., 34dBμ) ● Oscillator (150 kHz, 80mV) ● VTVM	Antenna terminal TP002	Speaker terminal (4Ω load)	98.1MHz (CH3)	RT001	(See Note 9)
	(3)		Release short-circuit of P6, P7.					
17	(1)	FM-multiplex	● FM signal generator (Non-modulation, 74dB) ● Frequency counter	Antenna terminal	TP301 (See Note 10)	98.1 MHz (CH3)	RT301	19kHz±0.1kHz
18	(1)	FM-separation	● FM stereo signal generator (98.1 MHz, 74 dB) Main signal: 30% mod. Pilot signal: 10% mod. ● VTVM	Antenna terminal	Speaker terminal (4Ω load)	98.1 MHz (CH3)	RT302	Equalizes right-left separation
19	(1)	FM-ASCS	● FM stereo signal generator (98.1 MHz, 38 dB) Main signal: 30% mod. Pilot signal: 10% mod. ● VTVM	Antenna terminal	Speaker terminal (4Ω load)	98.1 MHz (CH3)	RT303	10 dB Separation (See Note 14)
	(2)		● FM stereo signal generator (55 dB) Main signal: 30% mod Pilot signal: 10% mod ● VTVM				RT302	Equalizes right-left separation and brings it to maximum.
20	(1)	FM-auto stop (SUB)	● FM signal generator (400Hz, 30% mod., 60dBμ) ● DC volt meter	Antenna terminal	TP241 TP242	98.1 MHz (CH3)	T241	0±0.1V
21	(1)	FM main/sub output balance	● FM signal generator (400 Hz, 30% mod., 60dB) ● VTVM	Main ant. terminal Sub ant. terminal	Speaker terminal (4Ω load)	98.1 MHz (CH3)	RT242	(See Note 11)

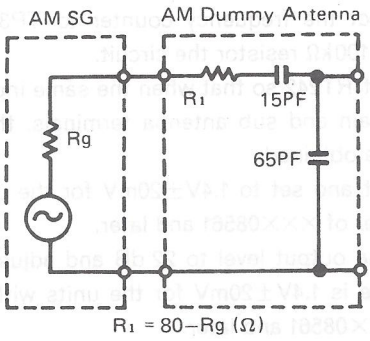


Fig. 19

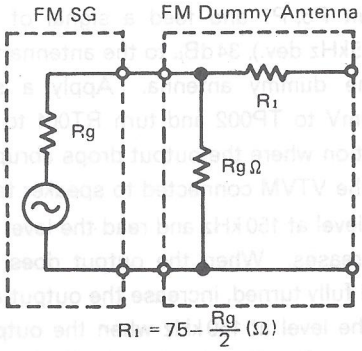


Fig. 20

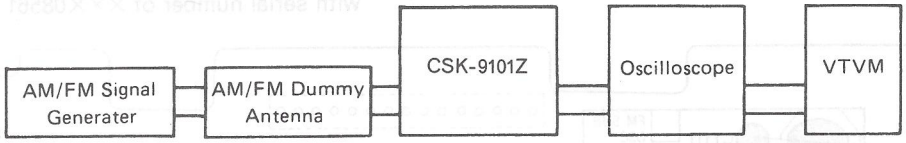


Fig. 21

Note:

1. When adding signal generator output to the antenna terminals, connect the measuring equipment as shown in Figure 21. 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) 74dBμ signal to the antenna terminals through an AM dummy antenna relay, set the output level at 0dB. Then, with input at 18dBμ, adjust RT151 (L152) so that the output level is −10dB.

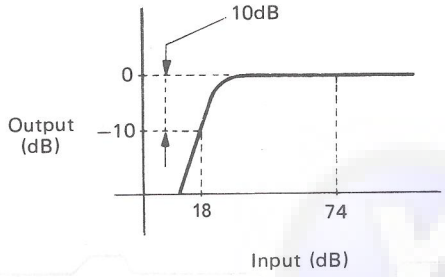


Fig. 22

4. Adjust T101 so that gain is maximum and the waveform in Fig. 23 is obtained.

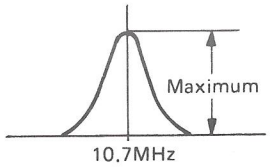


Fig. 23

5. Adjust T201 so that the S-curve shown in Fig. 24 is obtained.

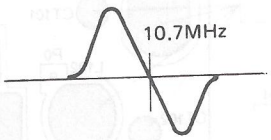


Fig. 24

6. Adjust T111 so that gain is maximum and the waveform in Fig. 25 is obtained.

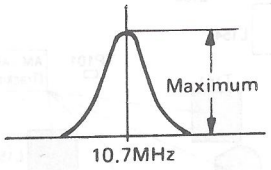


Fig. 25

7. Adjust T241 so that the S-curve shown in Fig. 26 is obtained.

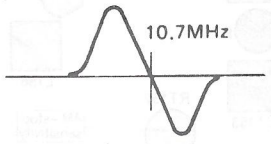


Fig. 26

8. Connect a 100kΩ resistor in series, across pin (4) of IC001. Add a signal of 19kHz, 150mV. Adjust T001 so that voltage across IC001 pin (4) is at maximum.

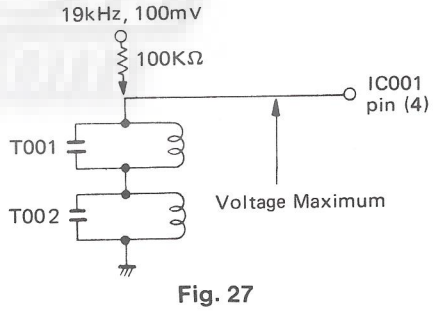
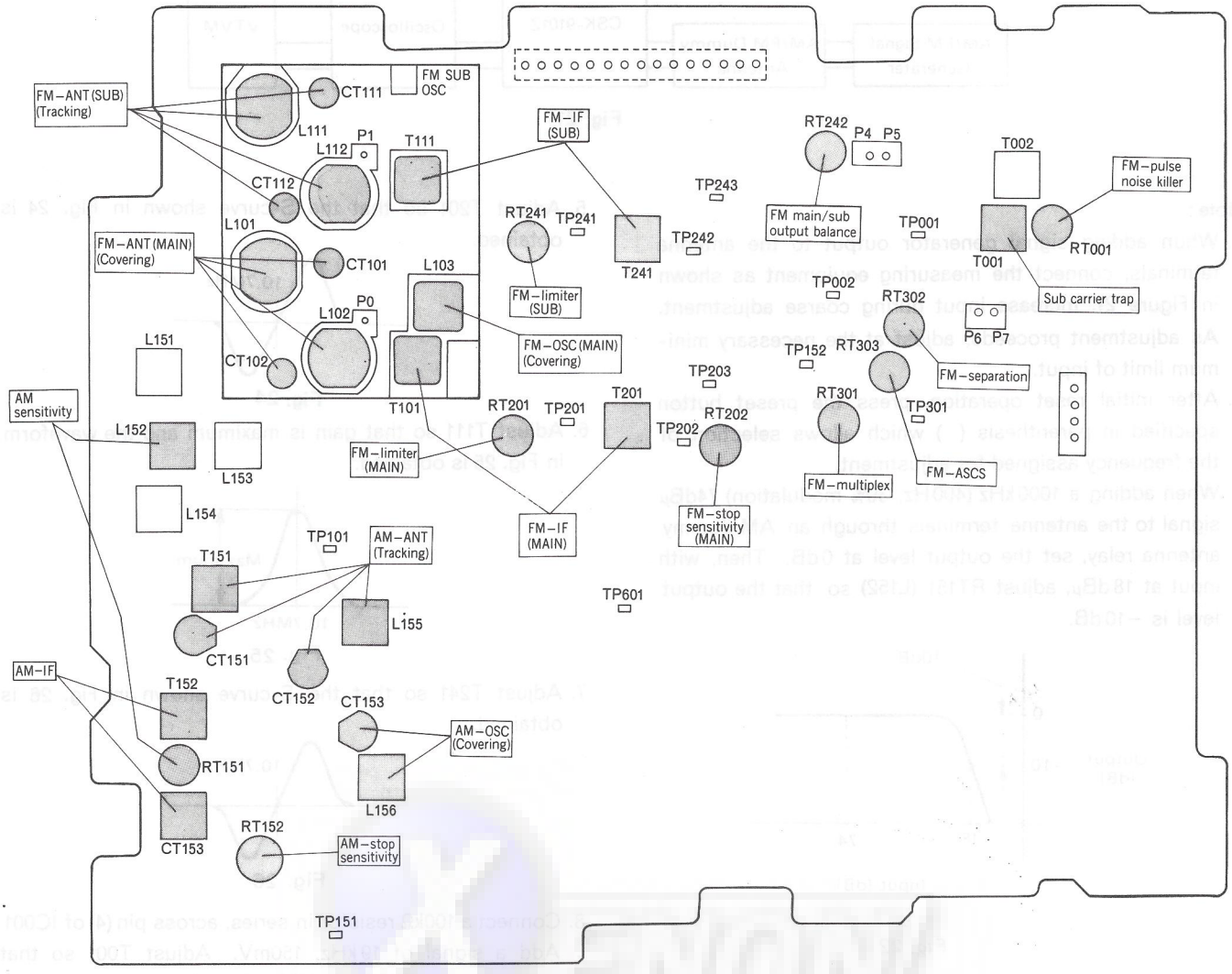


Fig. 27

9. (1) Short-circuit P6, P7 and feed a signal of 98.1MHz (400Hz, 22.5kHz dev.), 34dBμ 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 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 150kHz and read the level at 150kHz when the output drops abruptly to confirm that the value is 80mV±20mV.
10. Connect the frequency counter to TP301 and enter a series 100kΩ resistor the circuit.
11. Adjust RT242 so that when the same input is applied to the main and sub antenna terminals, the same output can be obtained.
12. Adjust and set to 1.4V±20mV for the units with serial number of ×××08561 and later.
13. Set the output level to 22 dB and adjust so the output voltage is 1.4V±20mV for the units with serial number of ×××08561 and later.
14. Set the SSG output level to 35 dB to adjust for the units with serial number of ×××08561 and later.



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 (8 kHz, −10dB)	0±4 dB	Head Azimuth Set 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.

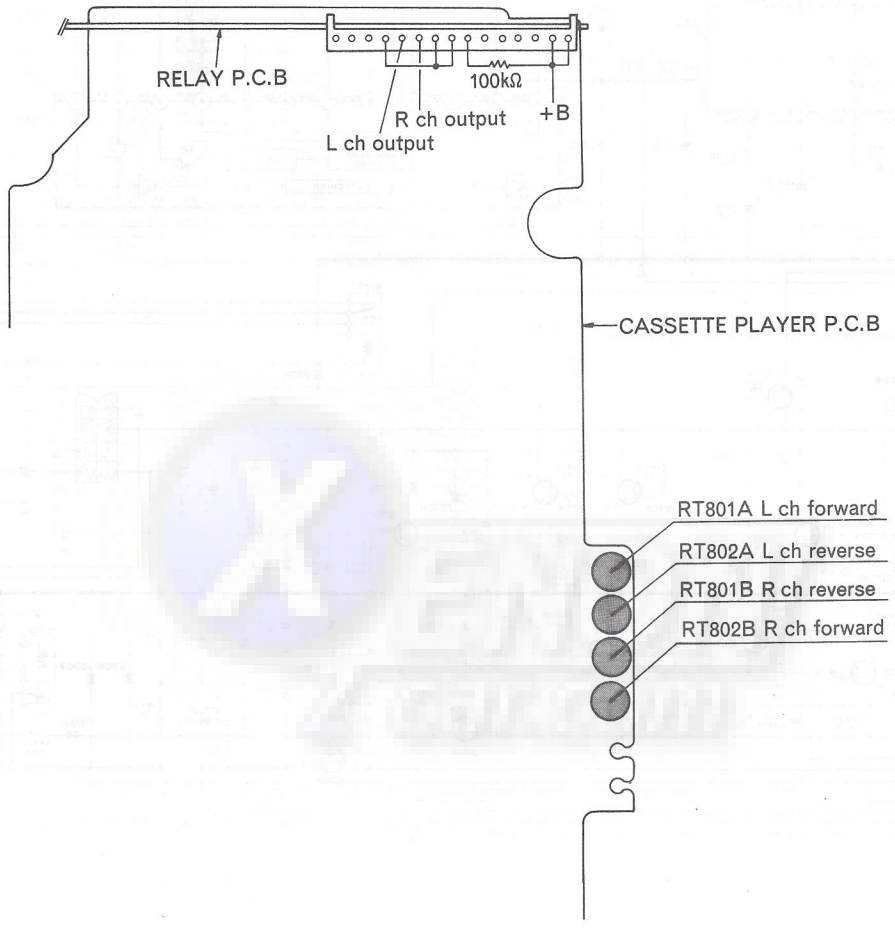
(2) Next, play an azimuth alignment tape (8 kHz, −10 dB) in both forward and reverse directions. Set the head azimuth so that the second output voltage is within ±4dB of the azimuth alignment tape (1kHz, −10dB) playback output voltage (0dB).

2. Adjusting Playback Output Voltage

Input	Adjustment Value	Adjustment Location
Dolby Test Tape (400Hz, 200nWb)	775±30mV	RT801A (left-forward) RT802A (left-reverse) RT802B (right-forward) RT801B (right-reverse)

Adjustment Instructions

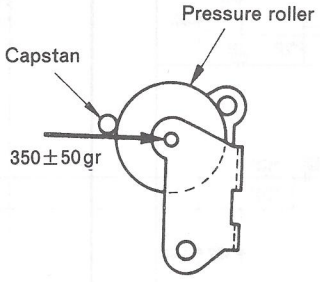
Connect the VTVM to the output terminals. Play the Dolby test tape (400Hz, 200nWb) in both forward and reverse directions. Adjust the semivariable resistors (RT801 A-B, RT802A-B) so that output voltage is set at the adjustment value.



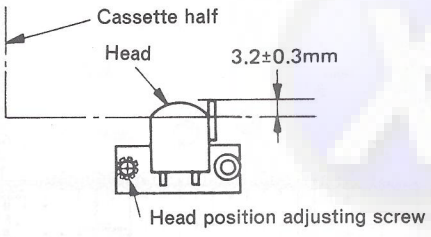
INSPECTION OF MECHANISM

Adjustment/inspection item			Reference value	Remarks
1	Torque	Take-up	40～65gr-cm	In the PLAY mode measure reel disc torque.
		F. Forward	80～120gr-cm	In the F.FORWARD mode measure reel disc torque.
		Rewind	80～120gr-cm	In the REWIND mode measure reel disc torque.
2	Back-tension	During Forward direction	1～3gr-cm	In the PLAY mode measure reel disc torque.
		During Reverse direction	1～3gr-cm	In the PLAY mode measure reel disc torque.
3	Pressure roller compression force		350±50gr	Note 1
4	Head installation position adjustment		3.2±0.3mm	Note 2

Note 1: Place the unit in playback state. Using a fan-shaped tension gauge, press at the position indicated by the arrow and measure the value when the pressure roller stops.

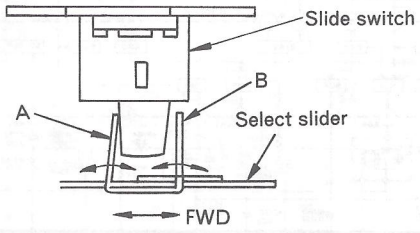


Note 2: Place the unit in the play state. Adjust head position so that the head protrudes 3.2±0.3mm into the cassette half.



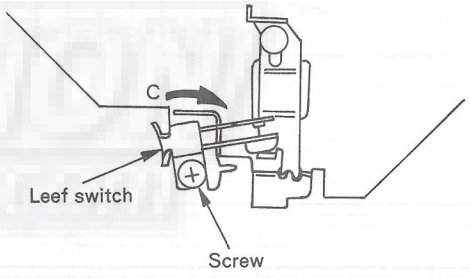
5. Adjusting the stroke of the FWD-REV selection slider switch

Adjust the stroke of the slider switch by bending either section A or B of the slider until slider and slider switch accurately select forward and reverse directions. After making this adjustment, check to make sure the slider has adequate room for movement.



6. Installing the power micro-switch

Install the micro-switch by moving and turning it in the direction of arrow(C).



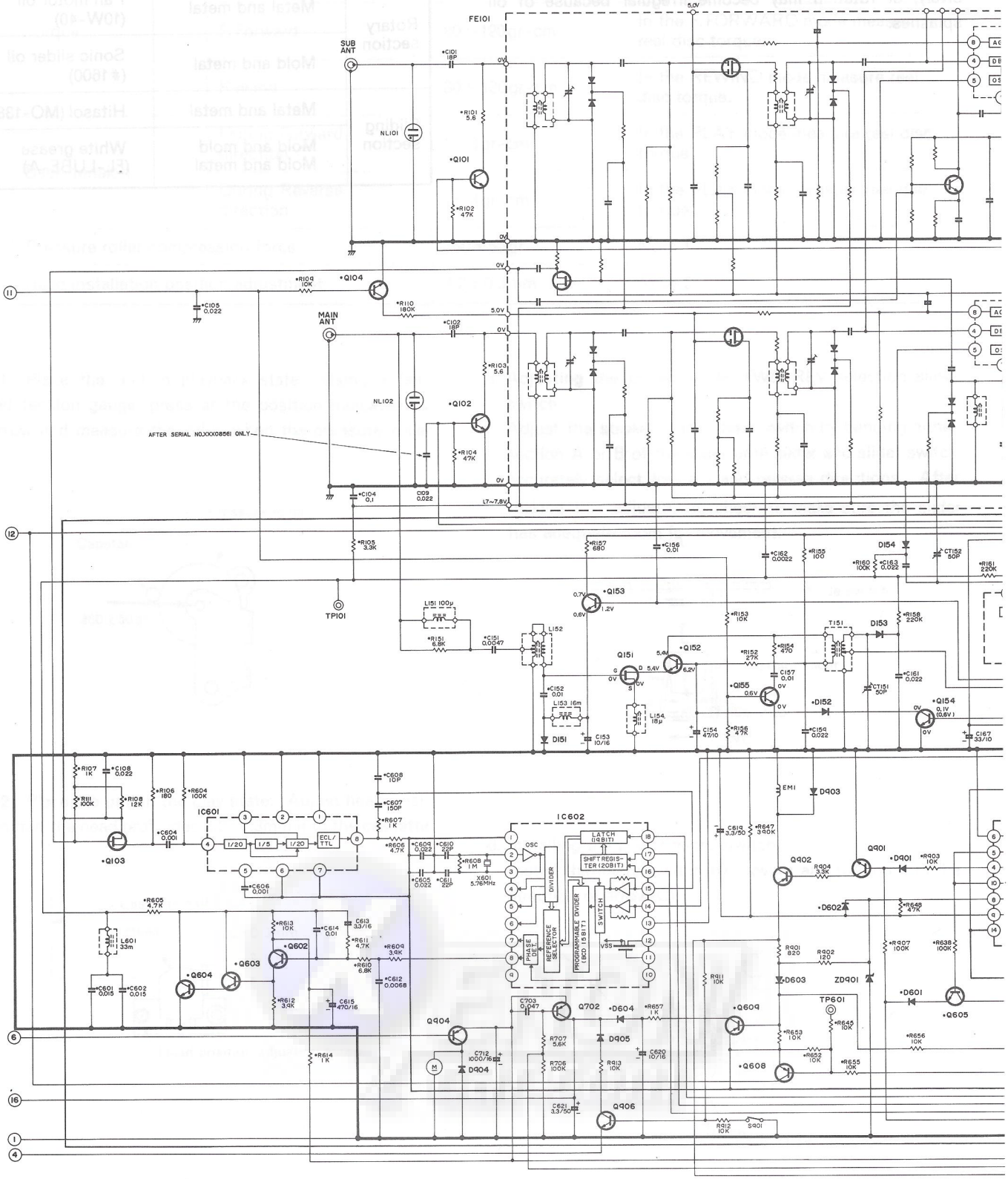
LUBRICATION

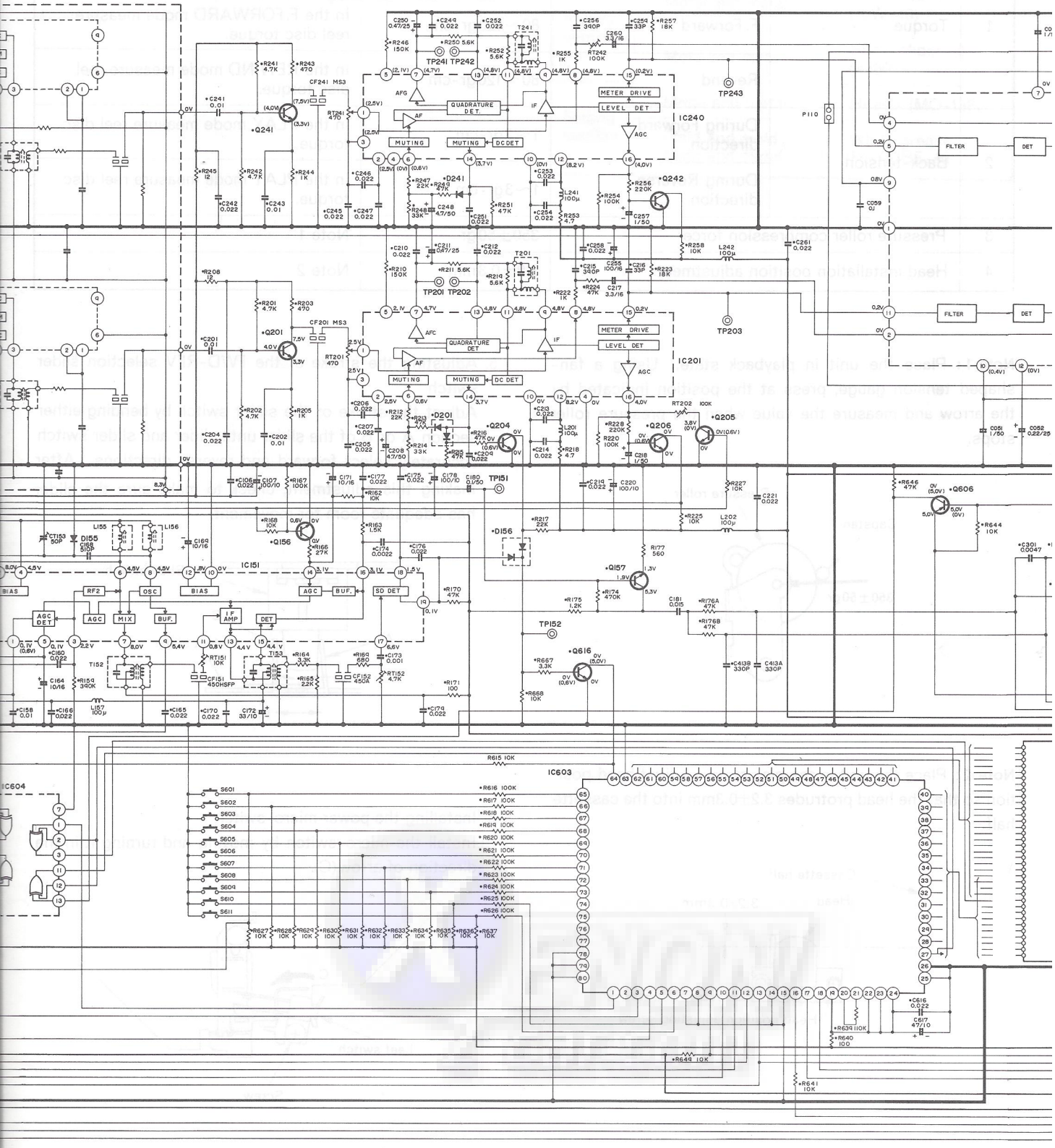
Lubricate one or two drops of machine oil to rotating point or lubricate grease to sliding point. Lubricate the respective parts listed below once every 1000 hours or once a year under normal conditions of use. Avoid oiling them excessively, or rotation may become irregular because of oil splashes.

Lubrication		Oil or Grease
Spring resonance prevention		Floil (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)

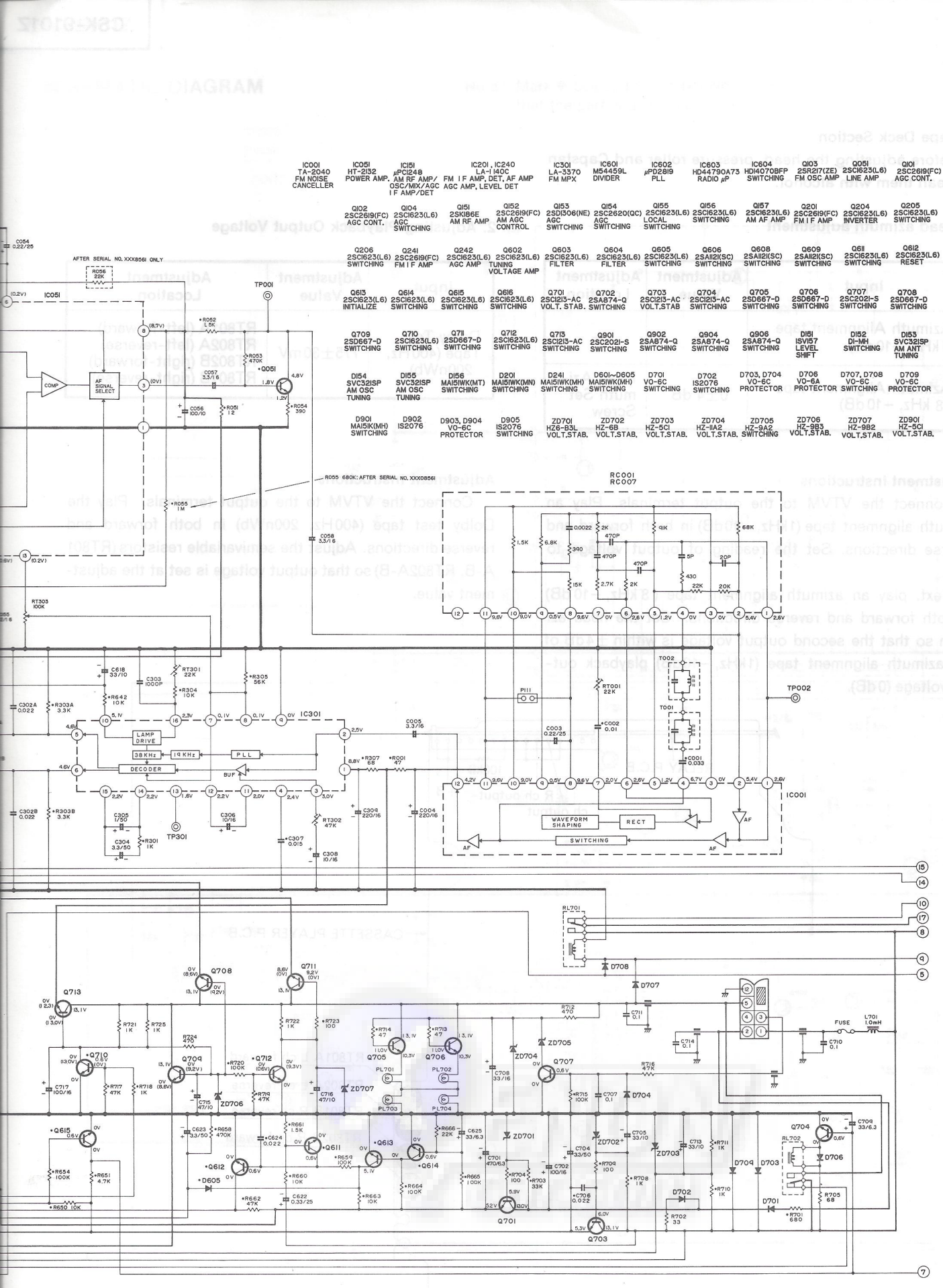
SCHEMATIC DIAGRAM

Note : Mark ● beside the symbol No. shows that the part is a chip part.




IC240
IC201
IC151
IC603
IC604
TP241 TP242
TP201 TP202
TP243
TP203
TP151
TP152
AFG
AF
AFC
QUADRATURE DET.
IF
METER DRIVE
LEVEL DET
AGC
MUTING
DC DET
FILTER
DET
RF2
OSC
BIAS
MIX
BUF.
SD DET
AGC DET
IF AMP
*Q241
*Q242
*Q201
*Q204
*Q205
*Q206
*Q156
*Q157
*Q616
*Q606
*D241
*D201
*D156
T241
T201
T152
T153
L187 100μ
L241 100μ
L201 100μ
L242 100μ
L202 100μ
P110
S601
S602
S603
S604
S605
S606
S607
S608
S609
S610
S611

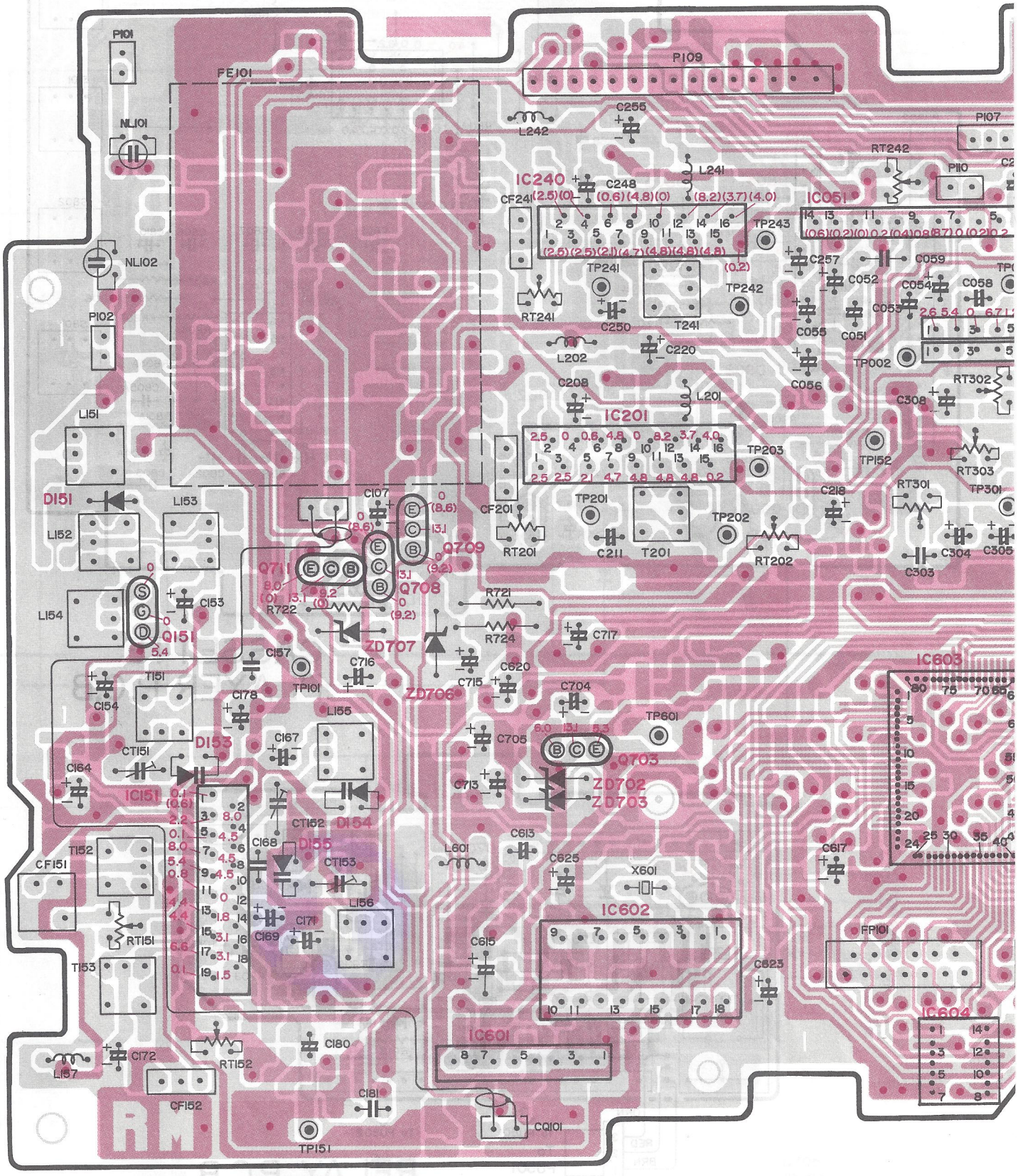
IC001 TA-2040 FM NOISE CANCELLER	IC051 HT-2132 POWER AMP.	IC151 μPC1248 AM RF AMP/ OSC/MIX/AGC I F AMP/DET	IC201, IC240 LA-1140C FM I F AMP, DET, AF AMP AGC AMP, LEVEL DET	IC301 LA-3370 FM MPX	IC601 M54459L DIVIDER	IC602 μPD2819 PLL	IC603 HD44790A73 RADIO μP	IC604 HD14070BFP SWITCHING	QI03 2SR217(ZE) FM OSC AMP	Q051 2SC1623(L6) LINE AMP	QI01 2SC2619(FC) AGC CONT.		
QI02 2SC2619(FC) AGC CONT.	QI04 2SC1623(L6) AGC SWITCHING	QI51 2SK186E AM RF AMP	QI52 2SC2619(FC) AM AGC CONTROL	QI53 2SDI306(NE) AGC SWITCHING	QI54 2SC2620(QC) AGC SWITCHING	QI55 2SC1623(L6) LOCAL SWITCHING	QI56 2SC1623(L6) SWITCHING	QI57 2SC1623(L6) AM AF AMP	Q201 2SC2619(FC) FM I F AMP	Q204 2SC1623(L6) INVERTER	Q205 2SC1623(L6) SWITCHING		
Q206 2SC1623(L6) SWITCHING	Q241 2SC2619(FC) FM I F AMP	Q242 2SC1623(L6) AGC AMP	Q602 2SC1623(L6) TUNING VOLTAGE AMP	Q603 2SC1623(L6) FILTER	Q604 2SC1623(L6) FILTER	Q605 2SC1623(L6) SWITCHING	Q606 2SAII2(SC) SWITCHING	Q608 2SAII2(SC) SWITCHING	Q609 2SAII2(SC) SWITCHING	Q611 2SC1623(L6) SWITCHING	Q612 2SC1623(L6) RESET		
Q613 2SC1623(L6) INITIALIZE	Q614 2SC1623(L6) SWITCHING	Q615 2SC1623(L6) SWITCHING	Q616 2SC1623(L6) SWITCHING	Q701 2SC1213-AC VOLT. STAB.	Q702 2SA874-Q SWITCHING	Q703 2SC1213-AC VOLT.STAB	Q704 2SC1213-AC SWITCHING	Q705 2SD667-D SWITCHING	Q706 2SD667-D SWITCHING	Q707 2SC2021-S SWITCHING	Q708 2SD667-D SWITCHING		
Q709 2SD667-D SWITCHING	Q710 2SC1623(L6) SWITCHING	Q711 2SD667-D SWITCHING	Q712 2SC1623(L6) SWITCHING	Q713 2SC1213-AC SWITCHING	Q901 2SC2021-S SWITCHING	Q902 2SA874-Q SWITCHING	Q904 2SA874-Q SWITCHING	Q906 2SA874-Q SWITCHING	DI51 ISVI57 LEVEL SHIFT	DI52 DI-MH SWITCHING	DI53 SVC321SP AM ANT TUNING		
DI54 SVC321SP AM OSC TUNING	DI55 SVC321SP AM OSC TUNING	DI56 MAI5IWK(MT) SWITCHING	D201 MAI5IWK(MN) SWITCHING	D241 MAI5IWK(MH) SWITCHING	D601~D605 MAI5IWK(MH) SWITCHING	D701 VO-6C SWITCHING	D702 IS2076 SWITCHING	D703, D704 VO-6C PROTECTOR	D706 VO-6A PROTECTOR	D707, D708 VO-6C SWITCHING	D709 VO-6C PROTECTOR		
D901 MAI5IK(MH) SWITCHING	D902 IS2076	D903, D904 VO-6C PROTECTOR	D905 IS2076 SWITCHING	ZD701 HZ6-B3L VOLT.STAB.	ZD702 HZ-6B VOLT.STAB.	ZD703 HZ-5CI VOLT.STAB.	ZD704 HZ-11A2 VOLT.STAB.	ZD705 HZ-9A2 SWITCHING	ZD706 HZ-9B3 VOLT.STAB.	ZD707 HZ-9B2 VOLT.STAB.	ZD901 HZ-5CI VOLT.STAB.		

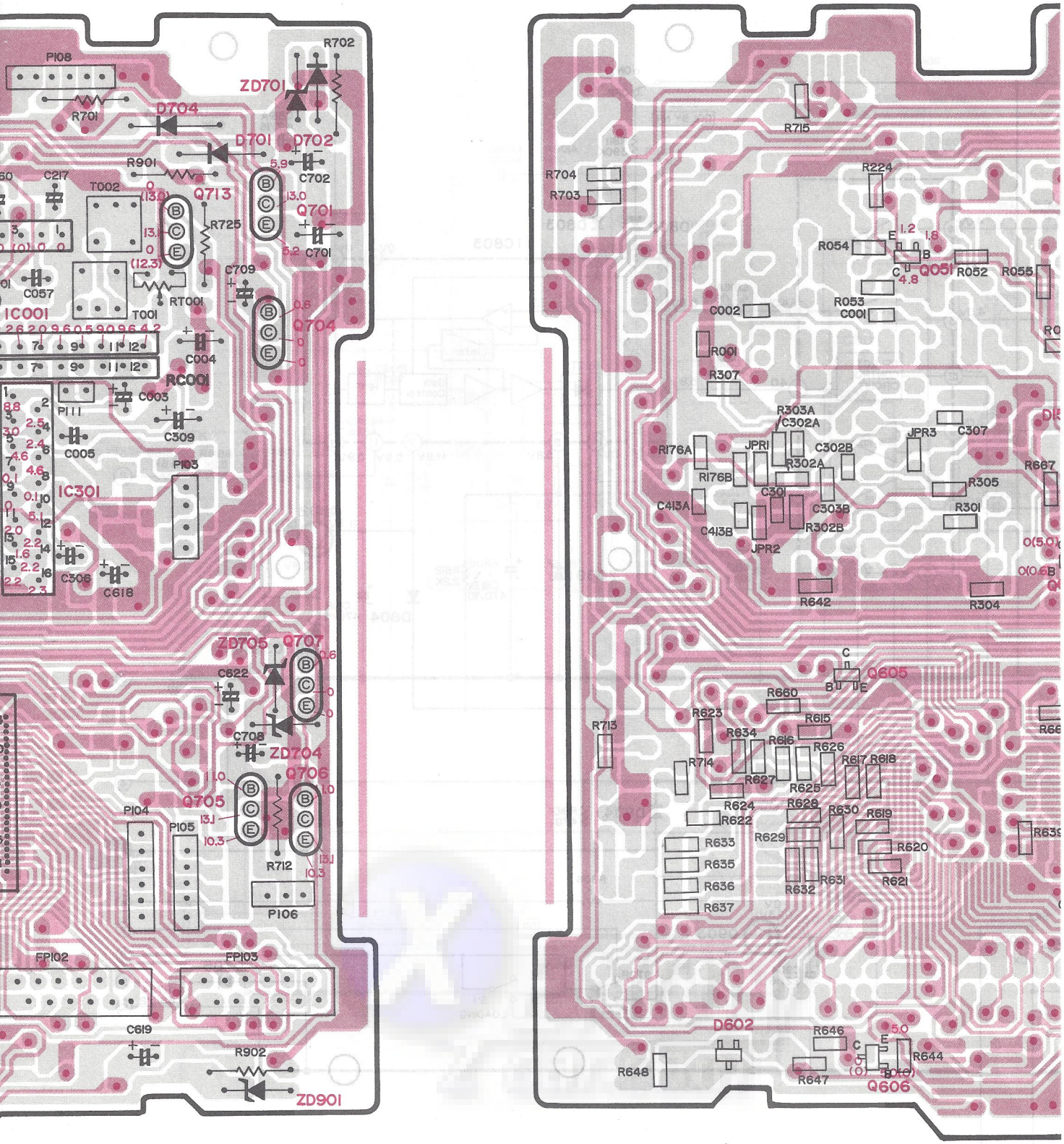


CIRCUIT BOARD DIAGRAM

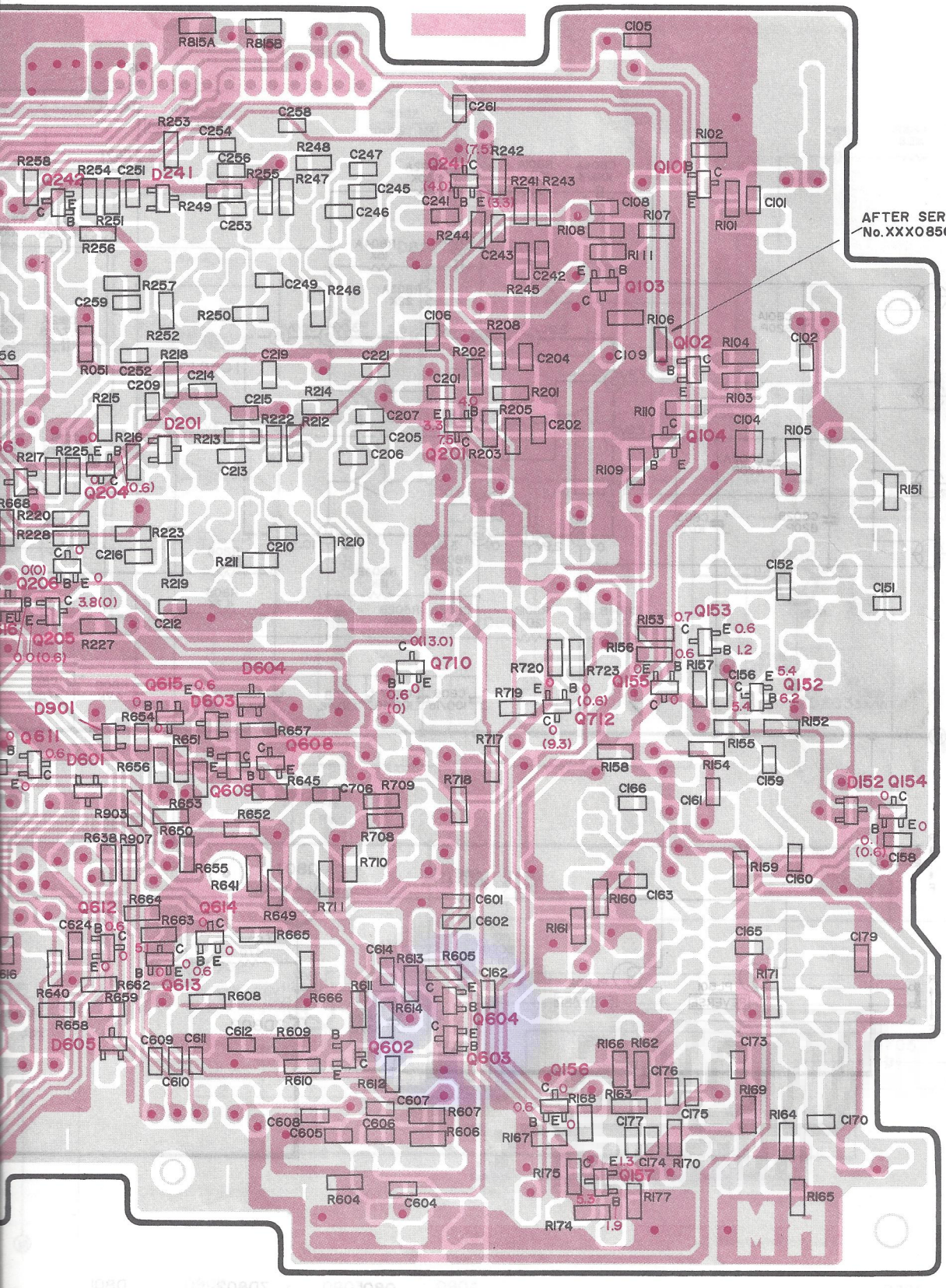
Note : 1. The parts indicated with the shape ▭ are chip parts.

2. " ▭ " shows a face pattern and " ▭ " shows a back pattern.



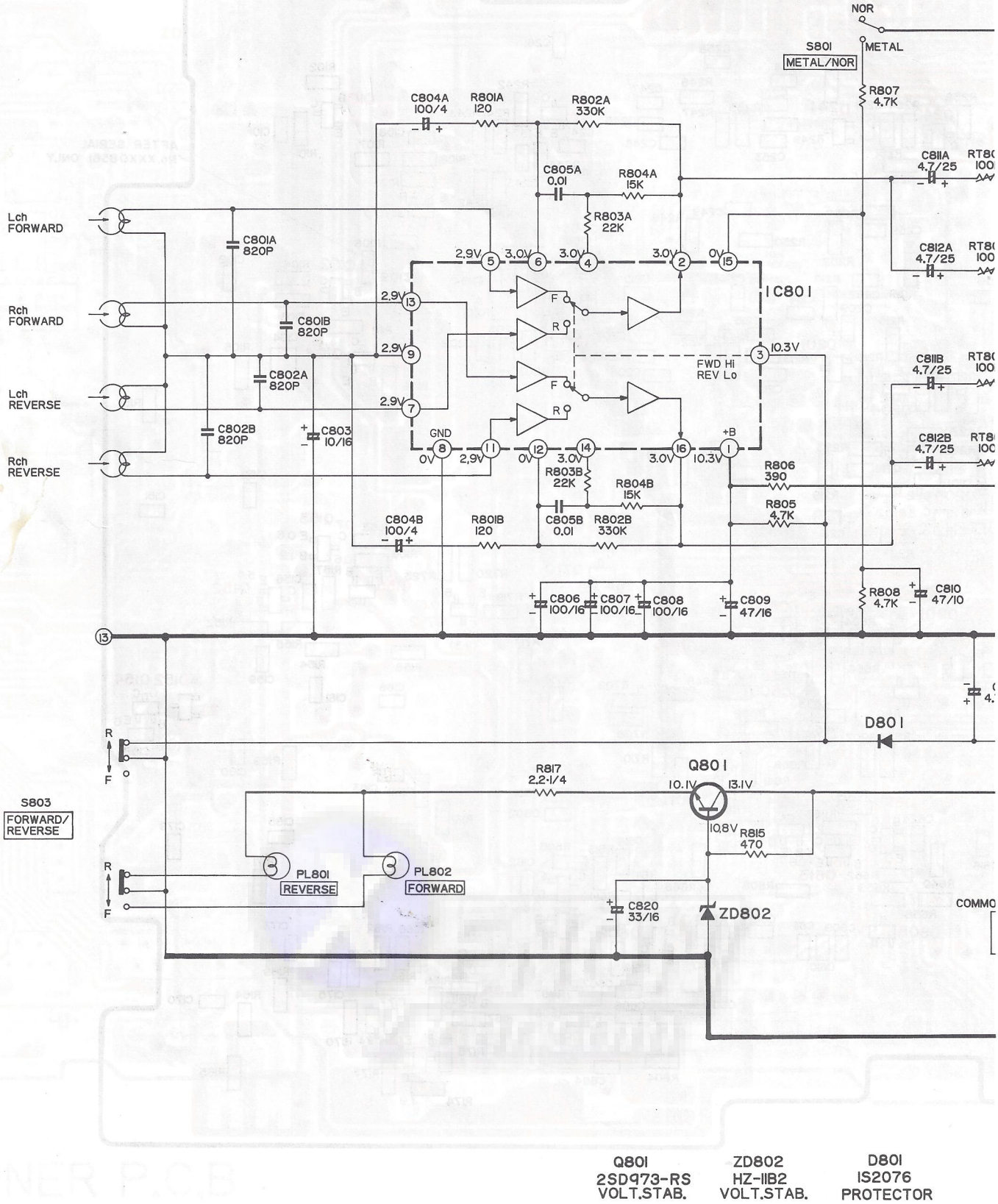

P108
R701
R702
ZD701
D704
D701
D702
C702
R901
C217
T002
Q713
R725
Q701
C701
C709
C057
RT001
T001
IC001
Q704
C004
RC001
C003
C309
P111
C005
P103
IC301
C308
C618
ZD705
Q707
C622
C708
ZD704
Q706
Q705
P104
P105
R712
P106
FP102
FP103
C619
R902
ZD901
R715
R704
R703
R224
R054
Q051
R052
R055
R053
C001
C002
R001
R307
R303A
C302A
JPR1
C302B
R302A
R176A
R176B
C303
C303B
C413A
C413B
R302B
JPR2
JPR3
C307
R667
R305
R301
R642
R304
Q605
R660
R623
R615
R634
R616
R626
R714
R617
R618
R627
R625
R624
R622
R629
R630
R619
R633
R620
R635
R631
R621
R636
R632
R637
D602
R646
R644
R648
R647
Q606

TUNER P.C.B


AFTER SERIAL
No.XXX08561 ONLY

SCHEMATIC DIAGRAM

IC801
TA7705P
PRE AMP



Q801	ZD802	D801
2SD973-RS	HZ-11B2	IS2076
VOLT.STAB.	VOLT.STAB.	PROTECTOR

IC802
M5155IP
FWD/REV
SELECT

IC803
TA-3003S
DOLBY-NR

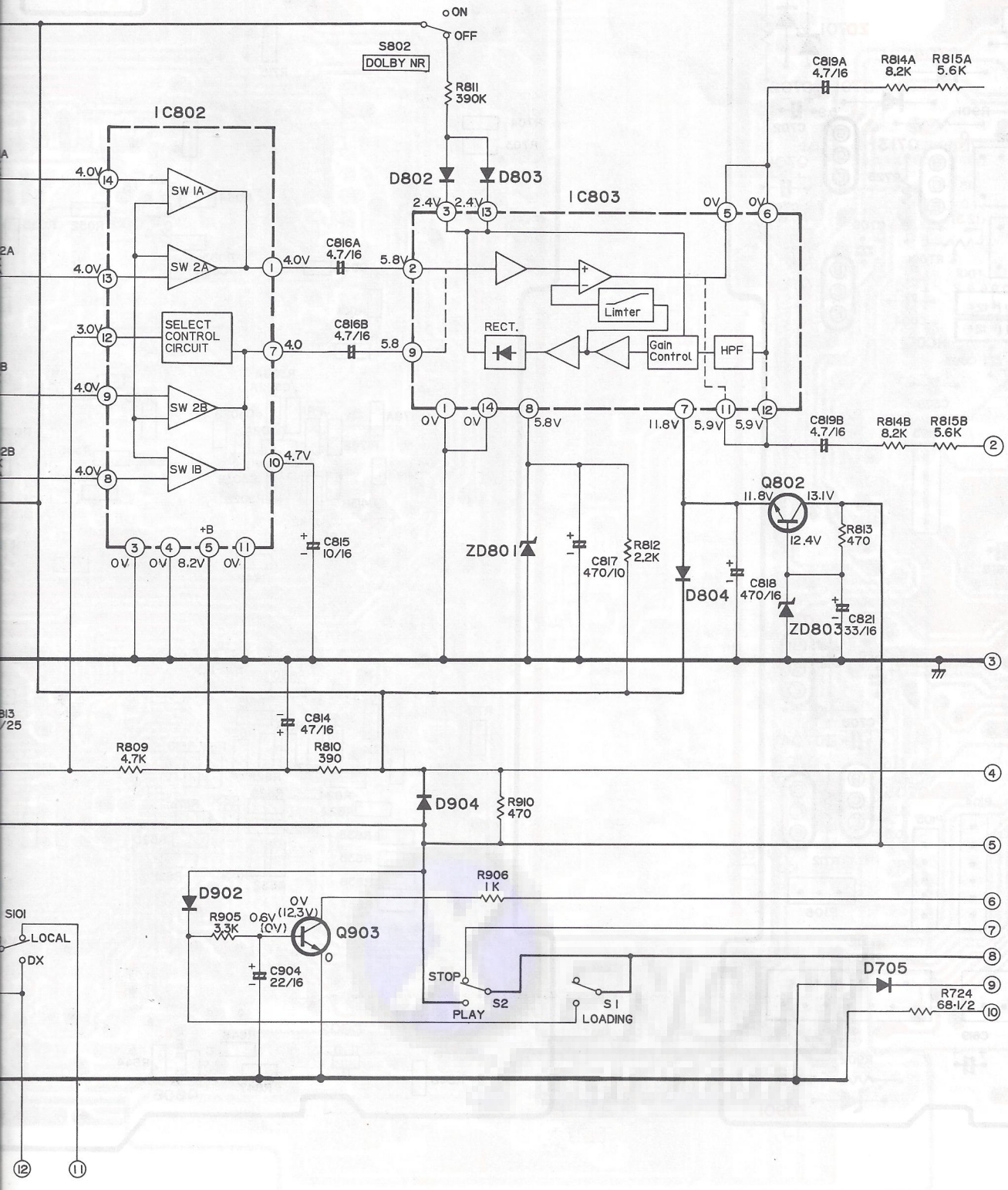
D802,D803
IS2076x2
PROTECTOR

ZD801
HZ-6B
VOLT.STAB

D804
IS2076
PROTECTOR

ZD803
HZ-12A
VOLT.STAB.

Q802
2SC1652-Q
VOLT.STAB.

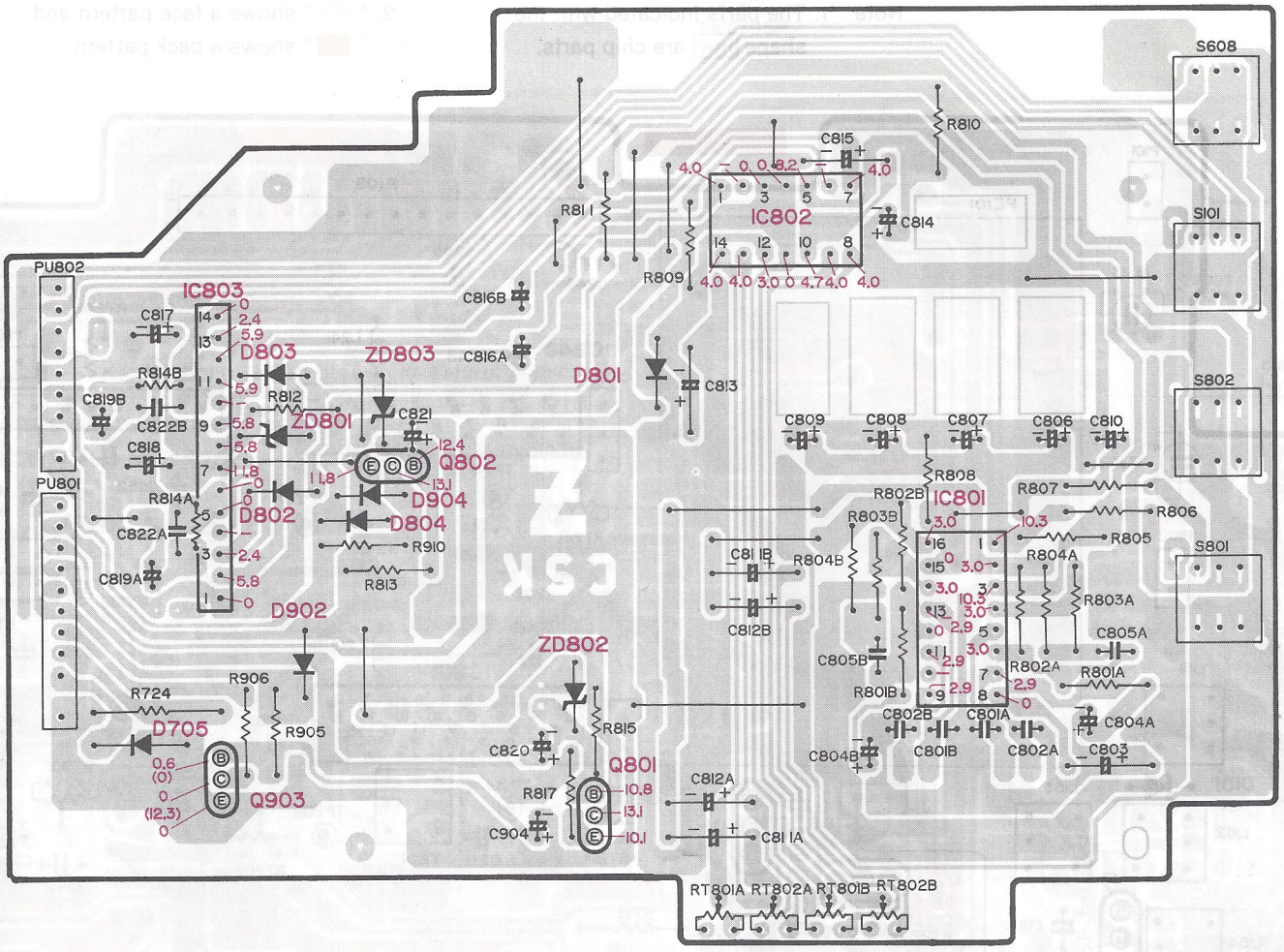


D902
IS2076
PROTECTOR

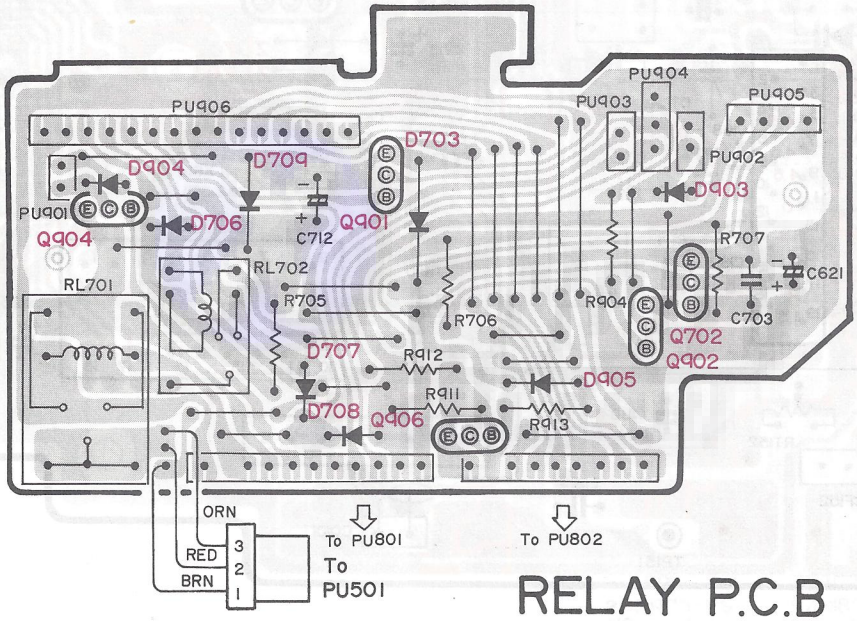
Q903
2SC2021-S
SWITCHING

D904
IS2076
PROTECTOR

D705
VO-6A
PROTECTOR

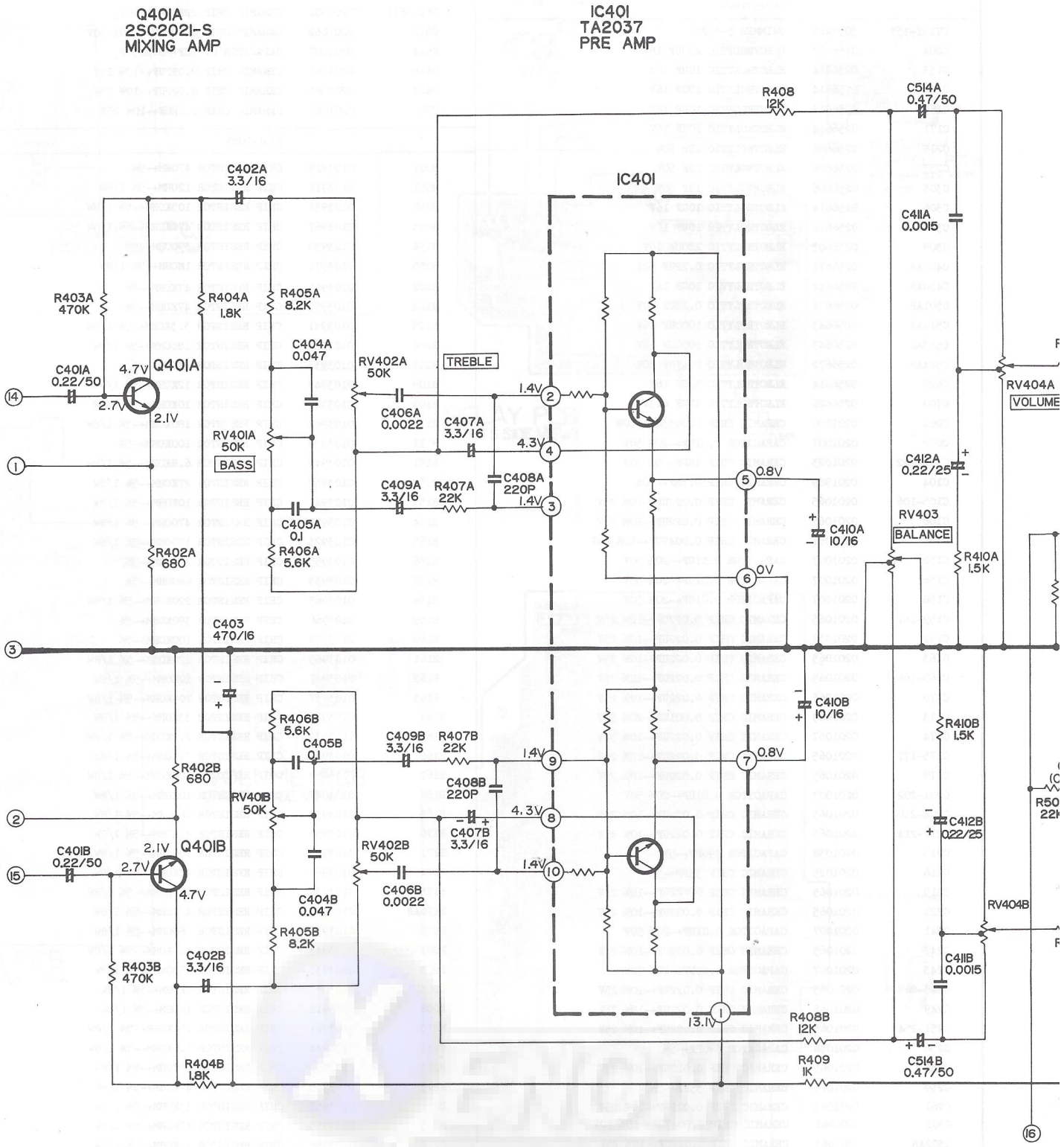


CASSETTE
PLAYER P.C.B



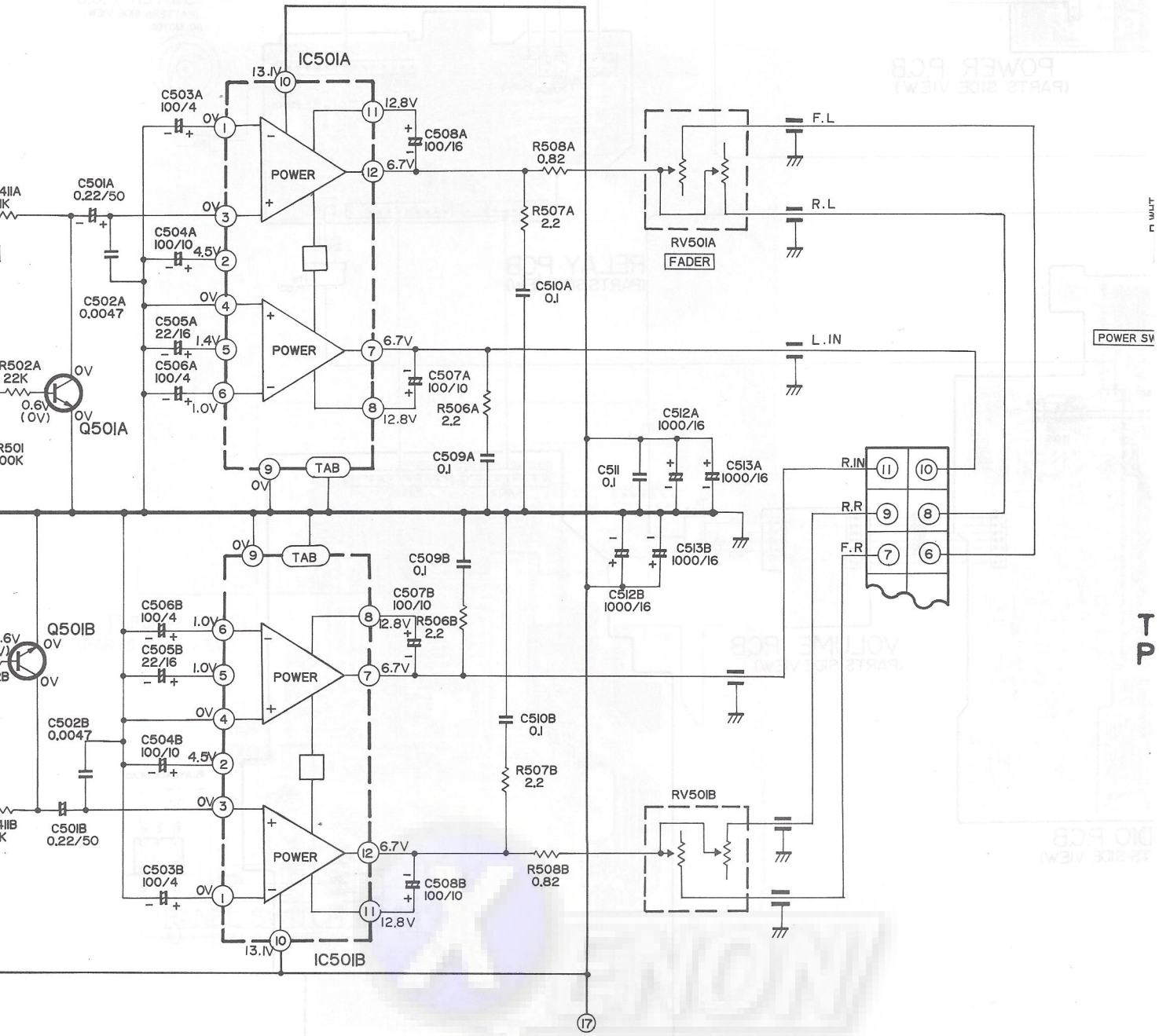
RELAY P.C.B

SCHEMATIC DIAGRAM



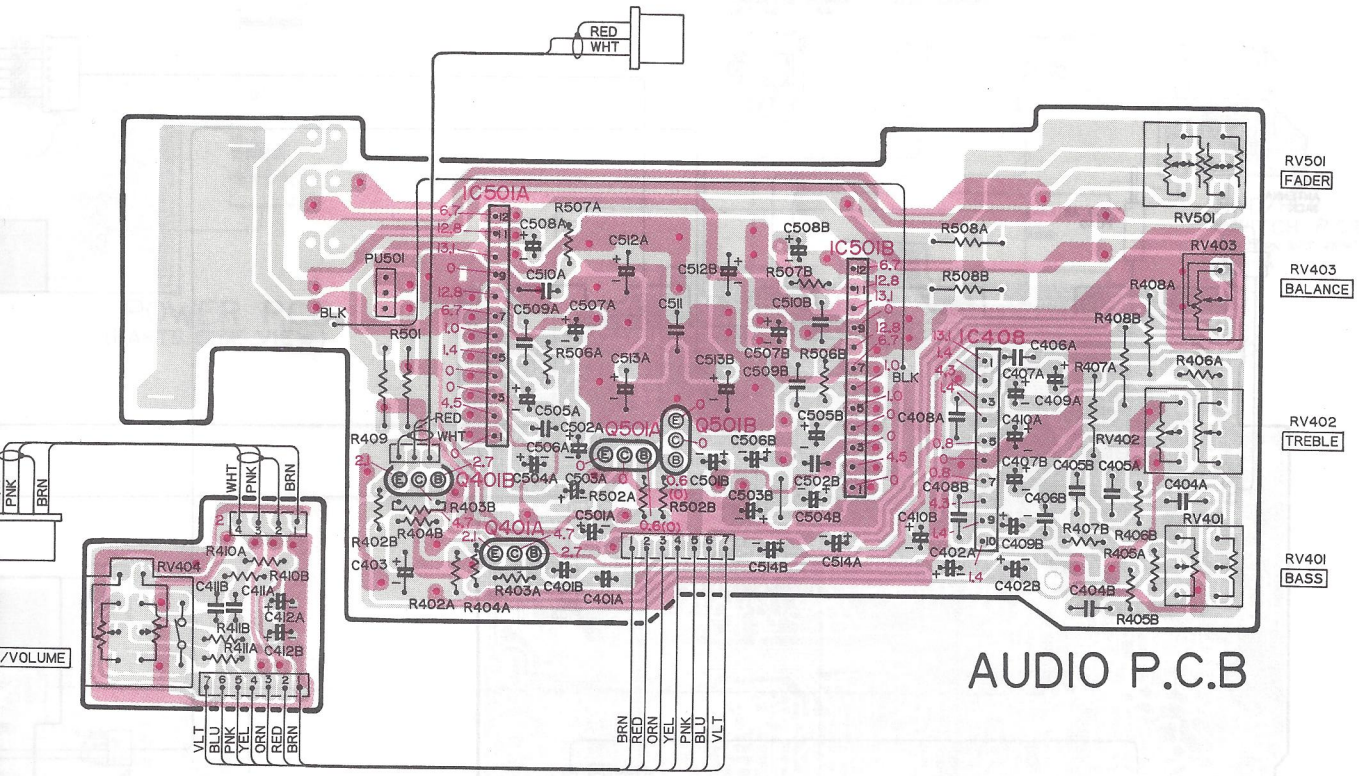
Q501A
2SD655E
MUTING

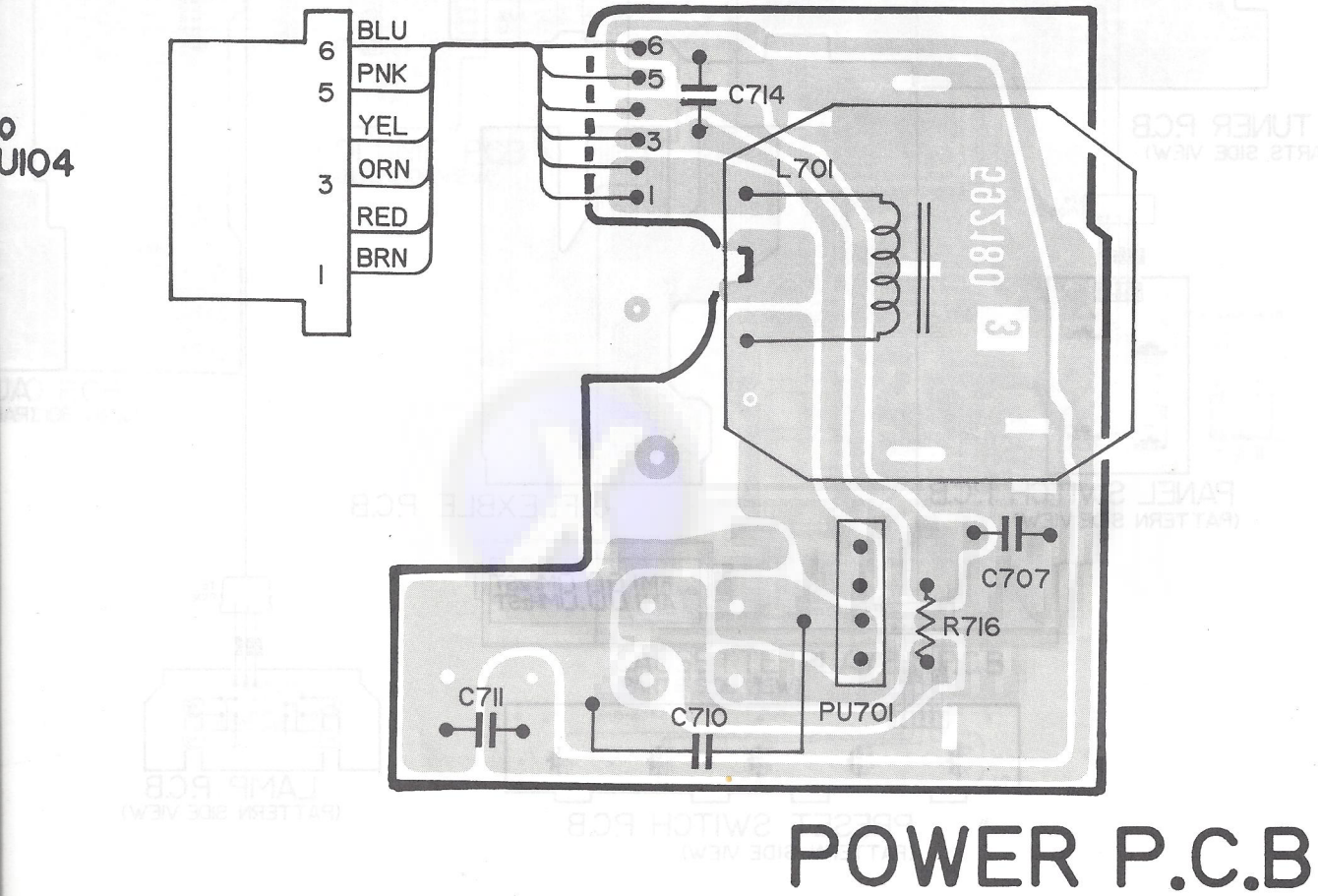
IC501A
HAI388
POWER
AMP



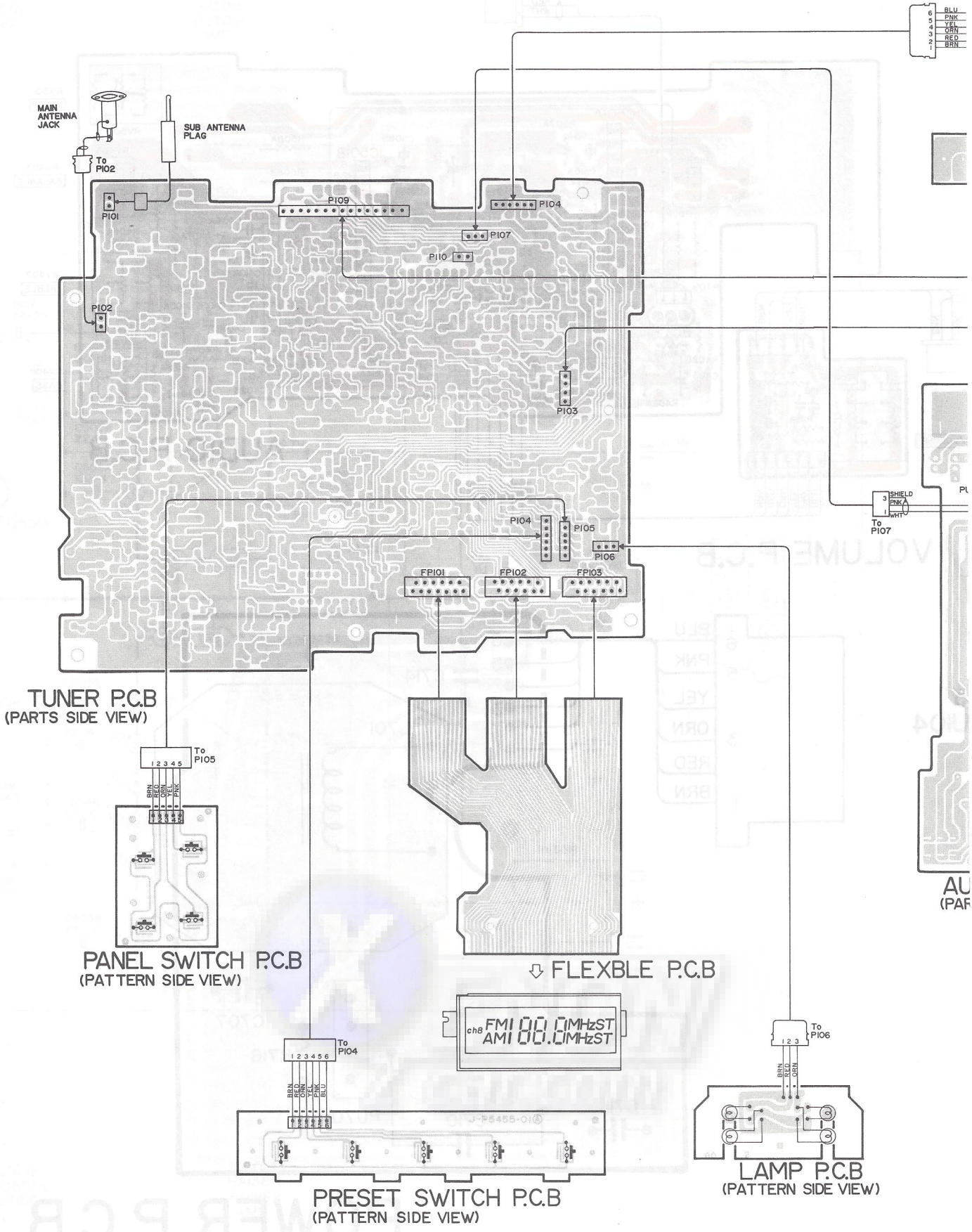
Q501B
2SD655E
MUTING

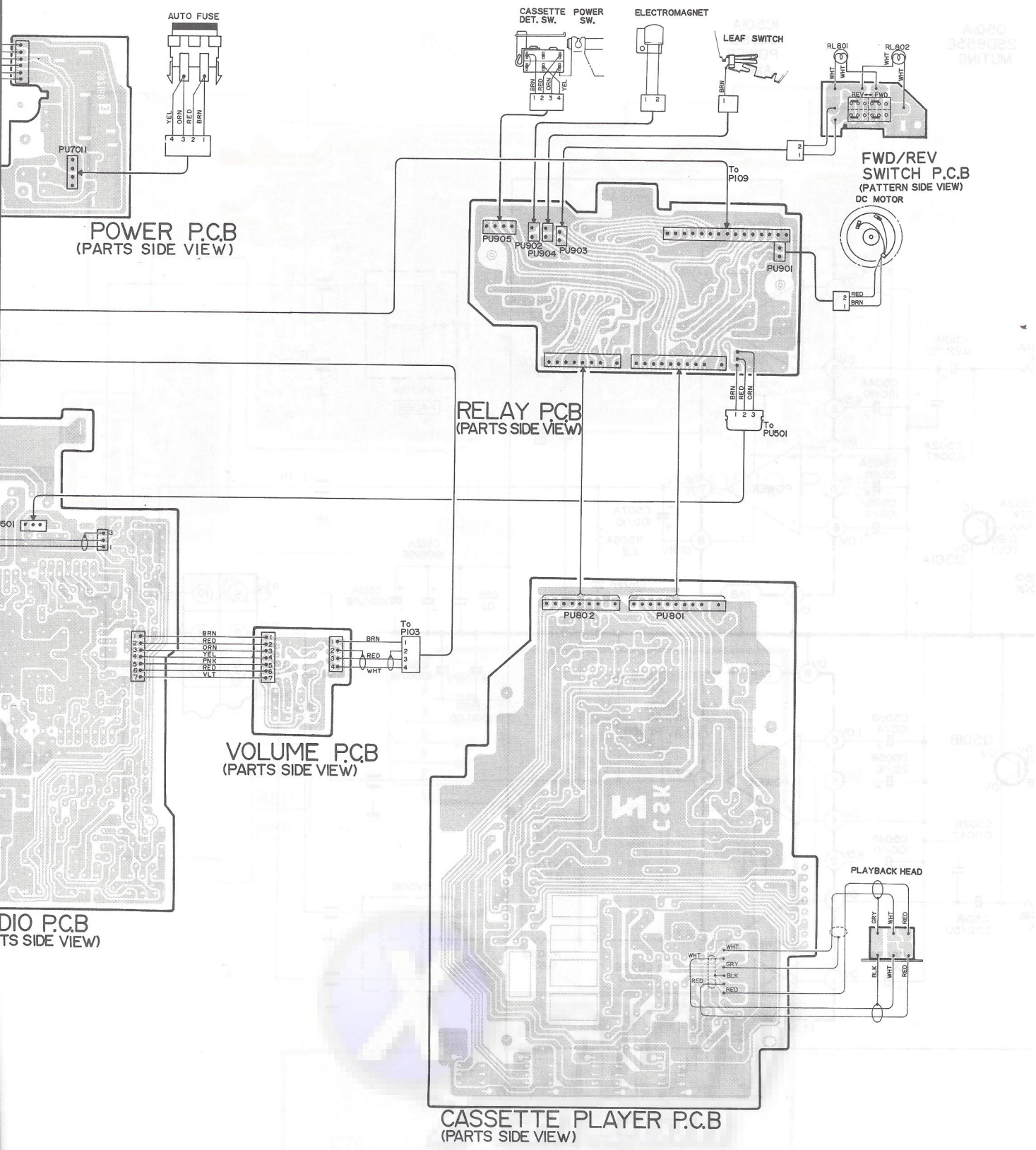
IC501B
HAI388
POWER
AMP


RED
WHT
RV501
FADER
RV403
BALANCE
RV402
TREBLE
RV401
BASS
IC501A
IC501B
IC408
Q501A
Q501B
Q401A
Q401B
PU501
BLK
RED
WHT
PNK
BRN
VLT
BLU
YEL
ORN
/VOLUME
AUDIO P.C.B
VOLUME P.C.B


BLU
PNK
YEL
ORN
RED
BRN
C714
L701
C707
R716
C711
C710
PU701
POWER P.C.B

WIRING DIAGRAM




AUTO FUSE
YEL
ORN
RED
BRN
4 3 2 1
PU7011
POWER P.C.B
(PARTS SIDE VIEW)
CASSETTE
DET. SW.
POWER
SW.
ELECTROMAGNET
LEAF SWITCH
BRN
RED
ORN
YEL
1 2 3 4
1 2
1
RL801
RL802
WHT
WHT
WHT
WHT
REV
FWD
2
1
FWD/REV
SWITCH P.C.B
(PATTERN SIDE VIEW)
To
PI09
DC MOTOR
PU905
PU902
PU904
PU903
PU901
2
1
RED
BRN
RELAY P.C.B
(PARTS SIDE VIEW)
BRN
RED
ORN
1 2 3
To
PU501
501
3
1
BRN
RED
ORN
YEL
PNK
RED
VLT
1
2
3
4
5
6
7
To
PI03
BRN
RED
WHT
1
2
3
4
VOLUME P.C.B
(PARTS SIDE VIEW)
PU802
PU801
PLAYBACK HEAD
GRY
WHT
RED
BLK
WHT
RED
WHT
GRY
BLK
RED
RED
CASSETTE PLAYER P.C.B
(PARTS SIDE VIEW)
DIO P.C.B
TS SIDE VIEW)

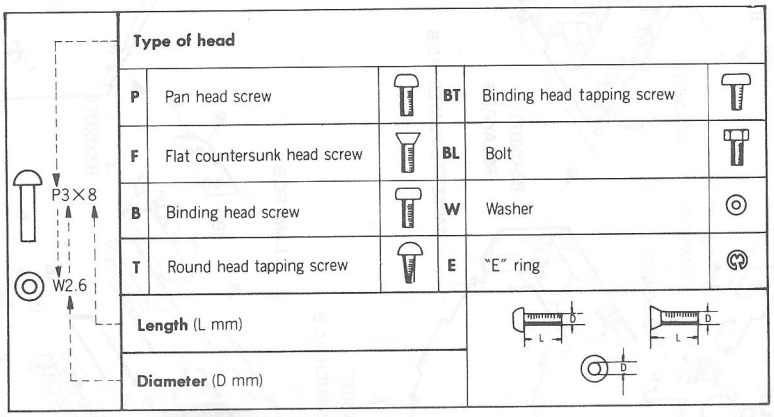
REPLACEMENT PARTS LIST

SYMBOL-NO	P-NO	DESCRIPTION
		CAPACITORS
CT151-153	5058481	TRIMMER 5-35PF
C004	0256603	ELECTROLYTIC 220UF 16V
C153	0256614	ELECTROLYTIC 10UF 16V
C164	0256614	ELECTROLYTIC 10UF 16V
C169	0256614	ELECTROLTTIC 10UF 16V
C171	0256614	ELECTROLYTIC 10UF 16V
C218	0256606	ELECTROLYTIC 1UF 50V
C257	0256606	ELECTROLYTIC 1UF 50V
C305	0256606	ELECRTOLYTIC iUF 50V
C306	0256614	ELECTROLYTIC 10UF 16V
C308	0256614	ELECTROLYTIC 10UF 16V
C309	0256603	ELECTROLYTIC 220UF 16V
C401AB	0256671	ELECTROLYTIC 0.22UF 50V
C410AB	0256614	ELECTROLYTIC 10UF 16V
C501AB	0256671	ELECTROLYTIC 0.22UF 50V
C512AB	0256643	ELECTROLYTIC 1000UF 16V
C513AB	0256643	ELECTROLYTIC 1000UF 16V
C514AB	0256672	ELECTROLYTIC 0.47UF 50V
C620	0256614	ELECTROLYTIC 10UF 16V
C708	0256626	ELECTROLYTIC 47UF 6.3V
C001	0201100	CERAMIC CHIP 0.0033MF+-10%
C002	0201007	CAPACITOR 0.01UF+-20% 50V
C101-102	0201023	CERAMIC CHIP 18PF+-5% 50V
C104	0201989	CERAMIC CHIP 0.1MF+-20%
C105-106	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C108	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C151	0201061	CERAMIC CHIP 0.0047UF+-10% 50V
C152	0201007	CAPACITOR 0.01UF+-20% 50V
C156	0201007	CAPACITOR 0.01UF+-20% 50V
C158	0201007	CAPACITOR 0.01UF+-20% 50V
C159-161	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C162	0201057	CERAMIC CHIP 0.022UF+-10% 25V
C163	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C165-166	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C170	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C173	0201003	CERAMIC CHIP 0.001UF+-20% 50V
C174	0201057	CERAMIC CHIP 0.022UF+-10% 50V
C175-177	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C179	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C201-202	0201007	CAPACITOR 0.01UF+-20% 50V
C204-210	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C212-214	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C215	0201038	CAPACITOR 390PF+-5%
C216	0201025	CERAMIC CHIP 33PF+-5%
C219	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C221	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C241	0201007	CAPACITOR 0.01UF+-20% 50V
C242	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C243	0201007	CAPACITOR 0.01UF+-20% 50V
C245-247	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C249	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C251-254	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C256	0201038	CAPACITOR 390PF+-5%
C258	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C259	0201025	CERAMIC CHIP 33PF+-5%
C261	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C301	0201061	CERAMIC CHIP 0.0047UF+-10% 50V
C302AB	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C307	0201008	CERAMIC CHIP 0.015MF+-10%
C413AB	0201037	CERAMIC CHIP 330PF+-5% 50V
C601-602	0201008	CERAMIC CHIP 0.015MF+-10%
C604	0201003	CERAMIC CHIP 0.001UF+-20% 50V
C605	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C606	0201003	CERAMIC CHIP 0.001UF+-20% 50V
C607	0201033	CERAMIC CHIP 150PF+-5% 50V
C608	0201020	CERAMIC CHIP 10PF+-0.5% 50V
C609	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C610-611	0201001	CERAMIC CHIP 22PF+-5% 50V
C612	0201062	CERAMIC CHIP 0.0068UF+-10% 50V
C614	0201007	CAPACITOR 0.01UF+-20% 50V
C616	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C624	0201065	CERAMIC CHIP 0.022UF+-10% 25V
C706	0201065	CERAMIC CHIP 0.22UF+-10% 25V
		RESISTORS
R001	0103919	CHIP RESISTOR 470HM+-5%
R051	0103912	CHIP RESISTOR 120HM+-5% 1/8W
R052	0103937	CHIP RESISTOR 105KOHM+-5% 1/8W
R053	0103967	CHIP RESISTOR 470KOHM+-5% 1/8W
R054	0103930	CHIP RESISTOR 3900HM+-5%
R055	0103971	CHIP RESISTOR 1MOHM+-5% 1/8W
R102	0103955	CHIP RESISTOR 47KOHM+-5%
R104	0103955	CHIP RESISTOR 47KOHM+-5%
R105	0103941	CHIP RESISTOR 3.3KOHM+-5% 1/8W
R106	0103926	CHIP RESISTOR 1800HM+-5% 1/8W
R107	0103935	CHIP RESISTOR 1KOHM+-5%
R108	0103948	CHIP RESISTOR 12KOHM+-5% 1/8W
R109	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R110	0103962	CHIP RESISTOR 180KOHM+-5% 1/8W
R111	0103959	CHIP RESISTOR 100KOHM+-5%
R151	0103945	CHIP RESISTOR 6.8KOHM+-5% 1/8W
R152	0103952	CHIP RESISTOR 27KOHM+-5% 1/8W
R153	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R154	0103931	CHIP RESISTOR 4700HM+-5% 1/8W
R155	0103923	CHIP RESISTOR 1000HM+-5% 1/8W
R156	0103955	CHIP RESISTOR 47KOHM+-5%
R157	0103933	CHIP RESISTOR 6800HM+-5%
R158	0103963	CHIP RESISTOR 220KOHM+-5% 1/8W
R159	0103966	CHIP RESISTOR 390KOHM+-5%
R160	0103959	CHIP RESISTOR 100KOHM+-5%
R161	0103963	CHIP RESISTOR 220KOHM+-5% 1/8W
R162	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R163	0103937	CHIP RESISTOR 105KOHM+-5% 1/8W
R164	0103941	CHIP RESISTOR 33KOHM+-5% i/8W
R165	0103939	CHIP RESISTOR 2.2KOHM+-5% 1/8W
R166	0103952	CHIP RESISTOR 27KOHM+-5% 1/8W
R167	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R168	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R169	0103933	CHIP RESISTOR 6800HM+-5% 1/8W
R170	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R171	0103923	CHIP RESISTOR 1000HM+-5% 1/8W
R174	0103967	CHIP RESISTOR 47KOHM+-5% 1/8W
R175	0103936	CHIP RESISTOR 1.2KOHM+-5% 1/8W
R176AB	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R177	0103932	CHIP RESISTOR 5600HM+-5% 1/8W
R201-202	0103943	CHIP RESISTOR 4.7KOHM+-5% 1/8W
R203	0103931	CHIP RESISTOR 4700HM+-5% 1/8W
R205	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R208	0103912	CHIP RESISTOR 120HM+-5% 1/8W
R210	0103961	CHIP RESISTOR 150KOHM+-5% 1/8W
R211	0103944	CHIP RESISTOR 5.6KOHM+-5% 1/8W
R212	0103951	CHIP RESISTOR 22KOHM+-5% 1/8W
R213	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R214	0103953	CHIP RESISTOR 33KOHM+-5% 1/8W
R215	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R216	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R217	0103951	CHIP RESISTOR 22KOHM+-5% 1/8W
R218	0103976	CHIP RESISTOR 4.70HM+-5% 1/8W
R219	0103944	CHIP RESISTOR 5.6KOHM+-5% 1/8W
R220	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R222	0103955	CHIP RESISTOR 1KOHM+-5% 1/8W
R223	0103950	CHIP RESISTOR 18KOHM+-5% 1/8W
R224	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R225	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R227	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W

SYMBOL-NO	P-NO	DESCRIPTION
		RESISTORS
R228	0103963	CHIP RESISTOR 220KOHM+-5% 1/8W
R241-242	0103943	CHIP RESISTOR 4.7KOHM+-5% 1/8W
R243	0103931	CHIP RESISTOR 470OHM+-5% 1/8W
R244	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R245	0103912	CHIP RESISTOR 12OHM+-5% 1/8W
R246	0103961	CHIP RESISTOR 150KOHM+-5% 1/8W
R247	0103951	CHIP RESISTOR 22KOHM+-5% 1/8W
R248	0103953	CHIP RESISTOR 33KOHM+-5% 1/8W
R250	0103944	CHIP RESISTOR 5.6KOHM+-5% 1/8W
R251	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R252	0103944	CHIP RESISTOR 5.6KOHM+-5% 1/8W
R253	0103976	CHIP RESISTOR 4.7KOHM+-5% 1/8W
R254	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R255	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R256	0103963	CHIP RESISTOR 220KOHM+-5% 1/8W
R257	0103950	CHIP RESISTOR 18KOHM+-5% 1/8W
R258	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R301	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R302AB	0103943	CHIP RESISTOR 4.7KOHM+-5% 1/8W
R303AB	0103941	CHIP RESISTOR 33KOHM+-5% 1/8W
R304	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R305	0103956	CHIP RESISTOR 56KOHM+-5% 1/8W
R307	0103921	CHIP RESISTOR 68OHM+-5% 1/8W
R604	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R605-606	0103943	CHIP RESISTOR 4.7KOHM+-5% 1/8W
R607	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R608	0103971	CHIP RESISTOR 220KOHM+-5% 1/8W
R609	0103942	CHIP RESISTOR 8200HM+-5% 1/8W
R610	0103945	CHIP RESISTOR 1.5KOHM+-5% 1/8W
R611	0103943	CHIP RESISTOR 1KOHM+-5% 1/8W
R612	0103942	CHIP RESISTOR 8200HM+-5% 1/8W
R613	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R614	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R615	0103947	CHIP RESISROR 10KOHM+-5% 1/8W
R616-626	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R627-628	0103947	CHIP REWISTOR 10KOHM+-5% 1/8W
R629- 637	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R638	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R640	0103923	CHIP RESISTOR 1000HM+-5% 1/8W
R641-642	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R644-645	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R646	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R647	0103966	CHIP RESISTOR 390KOHM+-5% 1/8W
R648	0103955	CARBON
R648	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R649-650	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R651	0103943	CHIP RESISTOR 4.7KOHM+-5% 1/8W
R653-653	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R654	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R655-656	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R657	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R658	0103967	CHIP RESISTOR 470KOHM+-5% 1/8W
R659	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R660	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R661	0103937	CHIP RESISTOR 105KOHM+-5% 1/8W
R662	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R663	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R664-666	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R667	0103941	CHIP RESISTOR 3.3KOHM+-5% 1/8W
R668	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R703	0103953	CHIP RESISTOR 33KOHM+-5% 1/8W
R704	0103923	CHIP RESISTOR 1000HM+-5% 1/8W
R708	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R709	0103923	CHIP RESISTOR 33KOHM+-5% 1/8W
R710-711	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R713-714	0103919	CHIP RESISTOR 47OHM+-5% 1/8W
R716	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R717	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R718	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R719	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R720	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R723	0103923	CHIP RESISTOR 33KOHM+-5% 1/8W
R815AB	0103944	CHIP RESISTOR 5.6KOHM+-5% 1/8W
R903	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
RT001	5007436	SEMI VARIABLE 22KOHM
RT151	5007435	SEMI VARIABLE 10KOHM
RT152	5007434	SEMI VARIABLE 4.7KOHM
RT201	5007431	SEMI VARIABLE 470OHM
RT202	5007438	SEMI VARIABLE 100KOHM
RT241	5007431	SEMI VARIABLE 470OHM
RT242	5007438	SEMI VARIABLE 100KOHM
RT301	5007448	SEMI VARIABLE 10KOHM
RT302	5007437	SEMI VARIABLE 47KOHM
RT303	5007438	SEMI VARIABLE 100KOHM
RV401	5005495	VARIABLE 50KOHM (BASS)
RV402	5005493	VARIABLE 50KOHM (TREBLE)
RV403	5005494	VARIABLE 50KOHM (BALANCE)
RV501	5005512	VARIABLE (FADER)
RT801AB	5007438	SEMI VARIABLE 100KOHM
RT802AB	5007438	SEMI VARIABLE 100KOHM
		SEMI-CONDUCTORS
D151	5332521	DIODE 1SV157
D152	5328321	DIODE MA151K(MH)
D153-155	5331531	DIODE SVC321SP
D156	5328301	DIODE MA152WK(MU)
D201	5328302	DIODE MA152WK(MN)
D241	5328321	DIODE MA151K(MH)
D601-605	5328321	DIODE MA151K(MH)
D701	5330101	DIODE V06C
D702	5330133	DIODE 1S2076
D704	5330101	DIODE V06C
D705	5330104	DIODE V06A
D801-804	5330133	DIODE 1S2076
D901	5328321	DIODE MA151K(MH)
D902	5330133	DIODE 1S2076
IC001	5357101	IC TA3040
IC051	5378521	IC HT2132
IC151	5363211	IC UPC1248V
IC201	5351802	IC LA1140C
IC240	5351802	IC LA1140C
IC301	5351811	IC LA3370
IC401	5357071	IC TA2037
IC501AB	5352071	IC HA1388
IC601	5365521	IC M54459L
IC602	5368051	IC UPD2819C
IC603	5361025	IC HD44790A73
IC604	5361101	IC HD14070BFP
IC801	5355911	IC TA7705P
IC802	5355331	IC M51551P
IC803	5358091	IC TA3003S
Q051	5328052	TRANSISTOR 2SC1623(L6)
Q101-102	5328231	TRANSISTOR 2SC2619
Q103	5328592	TRANSISTOR 2SK217(ZE)
Q104	5328042	TRANSISTOR 2SC1623(L6)
Q151	5323704	TRANSISTOR 2SK186E
Q152	5328231	TRANSISTOR 2SC2619
Q153	5328632	TRANSISTOR 2SD1306(NE)
Q154	5328221	TRANSISTOR 2SC2620QC
Q155-157	5328042	TRANSISTOR 2SC1623(L6)
Q201	5328231	TRANSISTOR 2SC2619
Q204	5328042	TRANSISTOR 2SC1623(L6)
Q205-206	5328042	TRANSISTOR 2SC1623(L6)
Q241	5328231	TRANSISTOR 2SC2619
Q242	5328042	TRANSISTOR 2SC1623(L6)

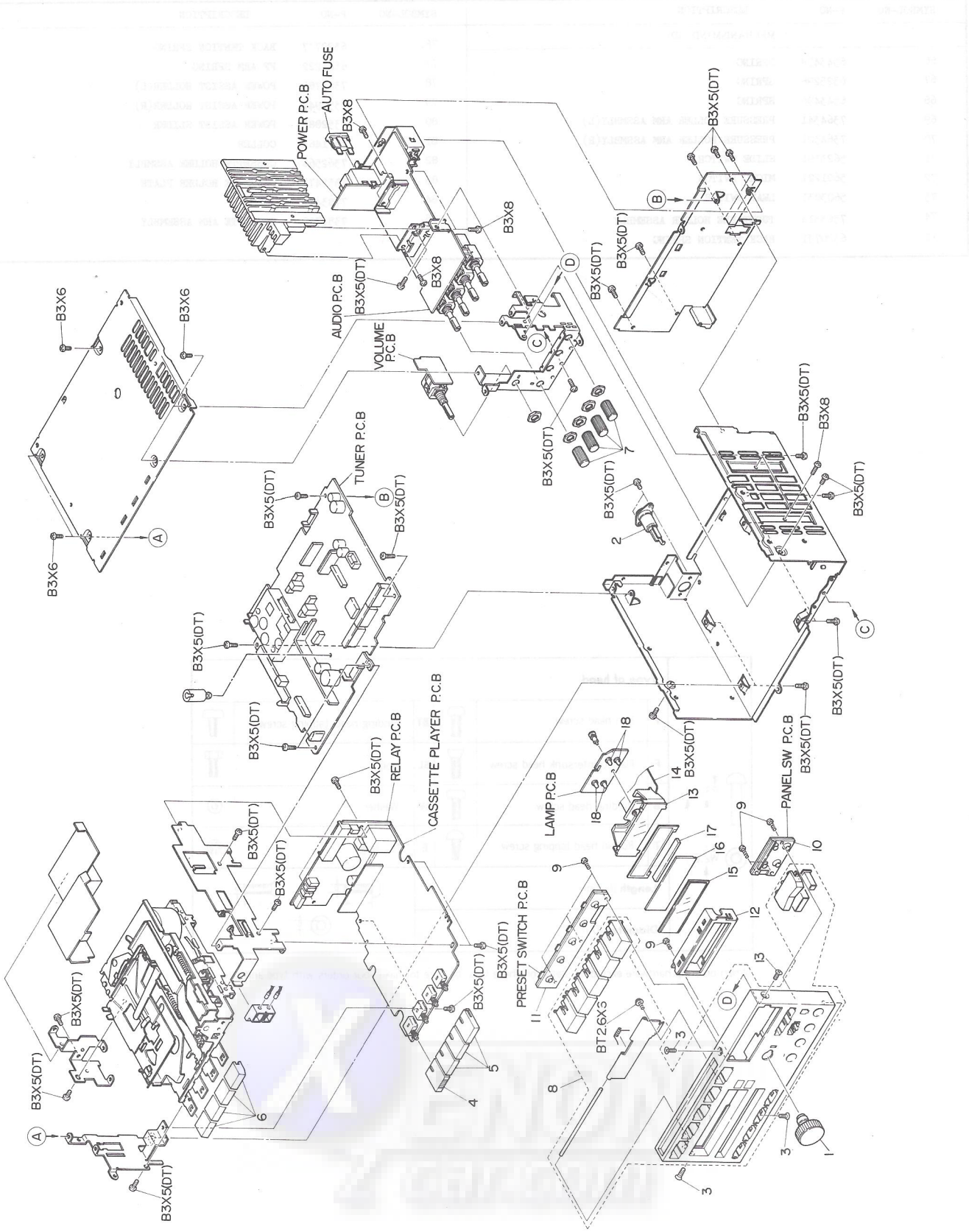
SYMBOL-NO	P-NO	DESCRIPTION
		RESISTORS
R228	0103963	CHIP RESISTOR 220KOHM+-5% 1/8W
R241-242	0103943	CHIP RESISTOR 4.7KOHM+-5% 1/8W
R243	0103931	CHIP RESISTOR 470OHM+-5% 1/8W
R244	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R245	0103912	CHIP RESISTOR 12OHM+-5% 1/8W
R246	0103961	CHIP RESISTOR 150KOHM+-5% 1/8W
R247	0103951	CHIP RESISTOR 22KOHM+-5% 1/8W
R248	0103953	CHIP RESISTOR 33KOHM+-5% 1/8W
R250	0103944	CHIP RESISTOR 5.6KOHM+-5% 1/8W
R251	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R252	0103944	CHIP RESISTOR 5.6KOHM+-5% 1/8W
R253	0103976	CHIP RESISTOR 4.7KOHM+-5% 1/8W
R254	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R255	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R256	0103963	CHIP RESISTOR 220KOHM+-5% 1/8W
R257	0103950	CHIP RESISTOR 18KOHM+-5% 1/8W
R258	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R301	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R302AB	0103943	CHIP RESISTOR 4.7KOHM+-5% 1/8W
R303AB	0103941	CHIP RESISTOR 33KOHM+-5% 1/8W
R304	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R305	0103956	CHIP RESISTOR 56KOHM+-5% 1/8W
R307	0103921	CHIP RESISTOR 68OHM+-5% 1/8W
R604	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R605-606	0103943	CHIP RESISTOR 4.7KOHM+-5% 1/8W
R607	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R608	0103971	CHIP RESISTOR 220KOHM+-5% 1/8W
R609	0103942	CHIP RESISTOR 8200HM+-5% 1/8W
R610	0103945	CHIP RESISTOR 1.5KOHM+-5% 1/8W
R611	0103943	CHIP RESISTOR 1KOHM+-5% 1/8W
R612	0103942	CHIP RESISTOR 8200HM+-5% 1/8W
R613	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R614	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R615	0103947	CHIP RESISROR 10KOHM+-5% 1/8W
R616-626	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R627-628	0103947	CHIP REWISTOR 10KOHM+-5% 1/8W
R629- 637	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R638	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R640	0103923	CHIP RESISTOR 1000HM+-5% 1/8W
R641-642	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R644-645	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R646	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R647	0103966	CHIP RESISTOR 390KOHM+-5% 1/8W
R648	0103955	CARBON
R648	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R649-650	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R651	0103943	CHIP RESISTOR 4.7KOHM+-5% 1/8W
R653-653	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R654	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R655-656	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R657	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R658	0103967	CHIP RESISTOR 470KOHM+-5% 1/8W
R659	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R660	Q103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R661	0103937	CHIP RESISTOR 105KOHM+-5% 1/8W
R662	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R663	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R664-666	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R667	0103941	CHIP RESISTOR 3.3KOHM+-5% 1/8W
R668	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
R703	0103953	CHIP RESISTOR 33KOHM+-5% 1/8W
R704	0103923	CHIP RESISTOR 1000HM+-5% 1/8W
R708	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R709	0103923	CHIP RESISTOR 33KOHM+-5% 1/8W
R710-711	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R713-714	0103919	CHIP RESISTOR 47OHM+-5% 1/8W
R716	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R717	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R718	0103935	CHIP RESISTOR 1KOHM+-5% 1/8W
R719	0103955	CHIP RESISTOR 47KOHM+-5% 1/8W
R720	0103959	CHIP RESISTOR 100KOHM+-5% 1/8W
R723	0103923	CHIP RESISTOR 33KOHM+-5% 1/8W
R815AB	0103944	CHIP RESISTOR 5.6KOHM+-5% 1/8W
R903	0103947	CHIP RESISTOR 10KOHM+-5% 1/8W
RT001	5007436	SEMI VARIABLE 22KOHM
RT151	5007435	SEMI VARIABLE 10KOHM
RT152	5007434	SEMI VARIABLE 4.7KOHM
RT201	5007431	SEMI VARIABLE 470OHM
RT202	5007438	SEMI VARIABLE 100KOHM
RT241	5007431	SEMI VARIABLE 470OHM
RT242	5007438	SEMI VARIABLE 100KOHM
RT301	5007448	SEMI VARIABLE 10KOHM
RT302	5007437	SEMI VARIABLE 47KOHM
RT303	5007438	SEMI VARIABLE 100KOHM
RV401	5005495	VARIABLE 50KOHM (BASS)
RV402	5005493	VARIABLE 50KOHM (TREBLE)
RV403	5005494	VARIABLE 50KOHM (BALANCE)
RV501	5005512	VARIABLE (FADER)
RT801AB	5007438	SEMI VARIABLE 100KOHM
RT802AB	5007438	SEMI VARIABLE 100KOHM
		SEMI-CONDUCTORS
D151	5332521	DIODE 1SV157
D152	5328321	DIODE MA151K(MH)
D153-155	5331531	DIODE SVC321SP
D156	5328301	DIODE MA152WK(MU)
D201	5328302	DIODE MA152WK(MN)
D241	5328321	DIODE MA151K(MH)
D601-605	5328321	DIODE MA151K(MH)
D701	5330101	DIODE V06C
D702	5330133	DIODE 1S2076
D704	5330101	DIODE V06C
D705	5330104	DIODE V06A
D801-804	5330133	DIODE 1S2076
D901	5328321	DIODE MA151K(MH)
D902	5330133	DIODE 1S2076
IC001	5357101	IC TA3040
IC051	5378521	IC HT2132
IC151	5363211	IC UPC1248V
IC201	5351802	IC LA1140C
IC240	5351802	IC LA1140C
IC301	5351811	IC LA3370
IC401	5357071	IC TA2037
IC501AB	5352071	IC HA1388
IC601	5365521	IC M54459L
IC602	5368051	IC UPD2819C
IC603	5361025	IC HD44790A73
IC604	5361101	IC HD14070BFP
IC801	5355911	IC TA7705P
IC802	5355331	IC M51551P
IC803	5358091	IC TA3003S
Q051	5328052	TRANSISTOR 2SC1623(L6)
Q101-102	5328231	TRANSISTOR 2SC2619
Q103	5328592	TRANSISTOR 2SK217(ZE)
Q104	5328042	TRANSISTOR 2SC1623(L6)
Q151	5323704	TRANSISTOR 2SK186E
Q152	5328231	TRANSISTOR 2SC2619
Q153	5328632	TRANSISTOR 2SD1306(NE)
Q154	5328221	TRANSISTOR 2SC2620QC
Q155-157	5328042	TRANSISTOR 2SC1623(L6)
Q201	5328231	TRANSISTOR 2SC2619
Q204	5328042	TRANSISTOR 2SC1623(L6)
Q205-206	5328042	TRANSISTOR 2SC1623(L6)
Q241	5328231	TRANSISTOR 2SC2619
Q242	5328042	TRANSISTOR 2SC1623(L6)

SYMBOL-NO	P-NO	DESCRIPTION
		MECHANISM (ND – ID)
66	6543498	SPRING
67	6325296	SPRING
68	6543496	SPRING
69	7364341	PRESSURE ROLLER ARM ASSMBLY(L)
70	7364321	PRESSURE ROLLER ARM ASSMBLY(R)
71	5623391	SLIDE SWITCH
72	5601221	MICRO SWITCH
73	5603031	LEAF SWITCH
74	7363314	TURNTABLE HOLDER ASSEMBLY
75	6320731	BACK TENTION SPRING
76	6320737	BACK TENTION SPRING
77	6541222	FF ARM SPRING
78	7361785	POWER ASSIST HOLDER(L)
79	7352947	POWER ASSIST HOLDRR(R)
80	7352883	POWER ASSIST SLIDER
81	7571463	COLLER
82	7362566	CASSETTE HOLDER ASSMBLY
83	7352471	CASSETTE HOLDER PLATE
84	7783471	SCREW
85	7352722	CASSETTE ARM ASSEMBLY



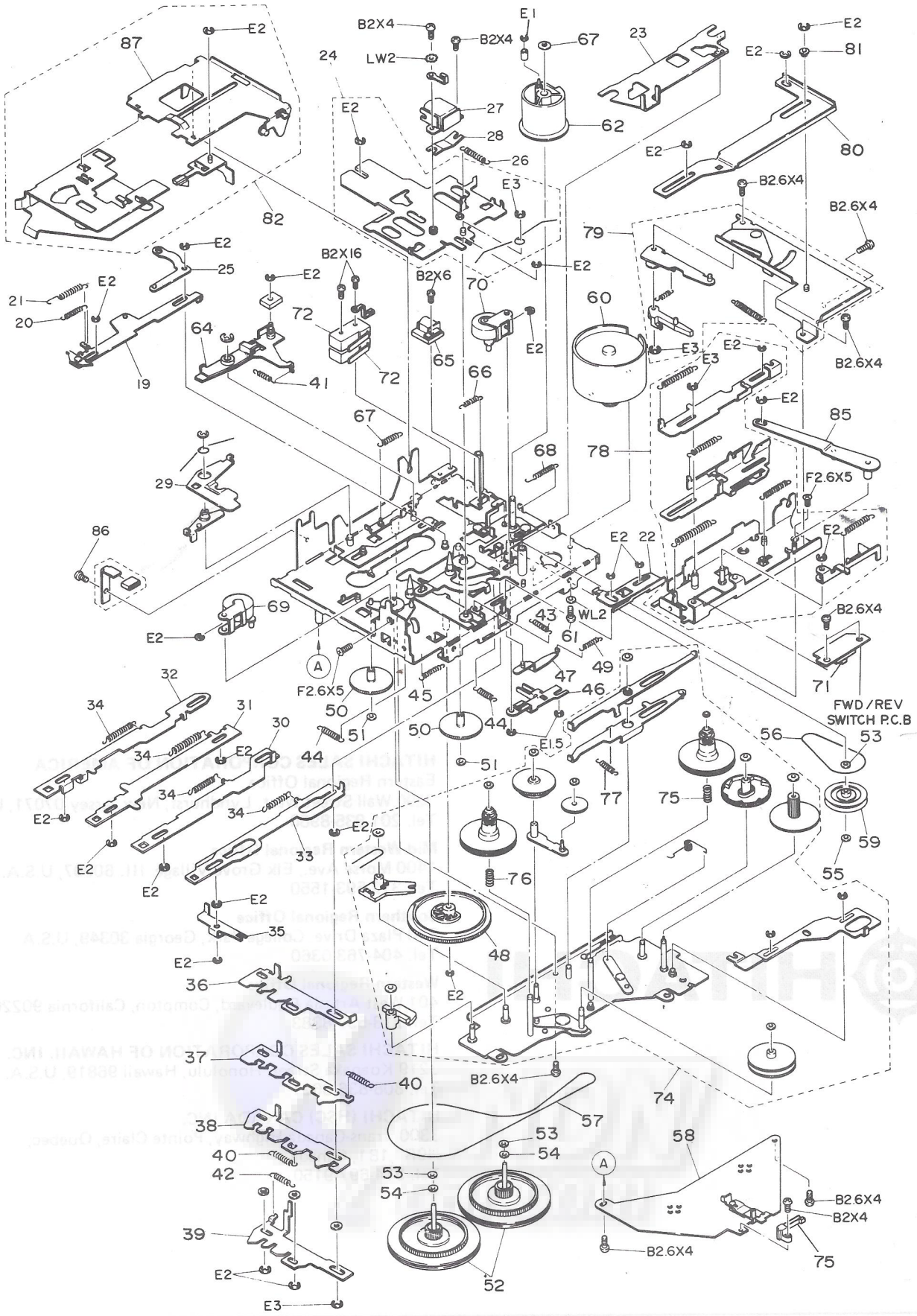
When ordering hardware excluding stated on these lists, be sure to make your orders with type and size.

EXPLODED VIEW (CASE)



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

EXPLODED VIEW (MECHANISM, ND-ID)



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



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CSK-9101Z TK No. 2361E TOKAI

Printed in Japan (H.E.C1)

SYMBOL-NO	P-NO	DESCRIPTION
		SEMI-CONDUCTORS
Q401AB	5321662	TRANSISTOR 2SC2021S
Q501AB	5322382	TRANSISROR 2SD655
Q602-605	5328042	TRANSISTOR 2SC1623(L6)
Q606-609	5328211	TRANSISTOR 2SA1121
Q611-616	5328042	TRANSISTOR 2SC1623(L6)
Q703-704	5320623	TRANSISTOR 2SC1213AC
Q705-706	5322652	TRANSISTOR 2SD667D
Q707	5321662	TRANSISTOR 2SC2021S
Q708-709	5322652	TRANSISTOR 2SD667D
Q710	5328042	TRANSISTOR 2SC1623(L6)
Q711	5322652	TRANSISTOR 2SD667D
Q712	5328042	TRANSISTOR 2SC1623(L6)
Q713	5320623	TRANSISTOR 2SC1213AC
Q801	5322741	TRANSISTOR 2SD973R
Q802	5322872	TRANSISTOR 2SC1652Q
Q901	5322872	TRANSISTOR 2SC1652Q
Q902-903	5321662	TRANSISTOR 2SC2021S
Q904	5322882	TRANSISTOR 2SA874Q
Q905	5321662	TRANSISTOR 2SC2021S
Q906-907	5322882	TRANSISTOR 2SA874Q
ZD701	5331268	DIODE HZ6B-3
ZD702	5330392	DIODE HZ6B-1
ZD703	5331015	DIODE HZ5C-1
ZD704	5330556	DIODE HZ11A-2
ZD705	5330325	DIODE HZ9A-2
ZD706	5330326	DIODE HZ9B-3
ZD707	5330327	DIODE HZ9B-2
ZD901	5331015	DIODE HZ5C-1
ZD801	5330392	DIODE HZ6B
ZD802	5330555	DIODE HZ11B-2
ZD803	5330531	DIODE HZ12A
		COILS
L151	5120279	CHOKE COIL
L152	5120806	CHOKE COIL
L153	5120356	FILTER COIL
L154	5124127	CHOKE COIL
L155	5120803	CHOKE COIL
L156	5120804	CHOKE COIL
L201-202	5140241	FM IF TRANSFORMER
L241-242	5140241	FM IF TRANSFORMER
L601	5150571	CHOKE COIL
L701	5220113	CHOKE COIL
		TRANSFORMERS
T001	5120844	CHOKE COIL
T002	5120845	CHOKE COIL
T151	5120279	FM RF COIL
T152	5120806	AM IFT
T153	5120356	FILTER COIL
T201	5140241	FM IFT
T241	5120241	FM IFT
		MISCELLANEOUS
RC001	5068129	RESISTOR BLOCK
FE101	5587181	TUNER
CF151	5160141	CERAMIC FILTER
CF152	5160132	CERAMIC FILTER
CF201	5160281	CERAMIC FILTER
CF241	5160281	CERAMIC FILTER
NL101-102	5766071	NEON LAMP
X601	5780851	CRYSTAL
RL701	5641641	RELAY
RL702	5641419	RELAY

SYMBOL-NO	P-NO	DESCRIPTION
		FOR CASE ASSEMBLY
1	6299472	KNOB
2	5675341	ANTENNA JACK
3	8724405	SCREW(3×5)
4	6295882	BUTTON(FM/AM)
5	6295892	BUTTON
6	6295903	BUTTON
7	6295922	KNOB
8	6226922	FRONT PANEL
9	8784138	SCREW(2×8)
10	5639802	PANEL SWITCH ASSEMBLY
11	5639812	PANEL SWITCH ASSEMBLY
12	6776971	LCD HOLDER
13	6776982	ILLUMINATION PLATE
14	5923212	CONNECTOR P.C.B.
15	6776941	FIN PLATE
16	5311102	LCD DISPLAY
17	6591083	LCD CONNECTOR
18	6574346	LAMP CAP
		MECHANISM(ND-ID)
19	7352588	ASSIST SLIDER ASSEMBLY
20	6542409	SPRING
21	6544801	SPRING
22	7355674	EXCHANG ARM ASSEMBLY
23	7352597	EXCHANG SLIDER ASSEMBLY
24	7364082	HEAD PLATE ASSEMBLY
25	7352612	HEAD PLATE ARM ASSEMBLY
26	6541542	SPRING
27	5449294	HEAD
28	6536441	HEAD ADJUST SPRING
29	7356087	PLAY LEVER ASSMBLY
30	7357733	PLAY SLIDER
31	7354504	FR SLIDER
32	7354512	RL SLIDER
33	7354482	STOP SLIDER
34	6323722	SPRING
35	7352552	TR ARM
36	7354794	MAGNET HOLDER PLATE
37	7354809	PAUSE LOCK PLATE
38	7354814	FF LOCK PLATE
39	7354784	SWITCH PLATE
40	6325295	SPRING
41	6302031	SPRING
42	6318888	SPRING
43	6543195	SPRING
44	6320576	SPRING
45	6543205	SPRING
46	7356292	CHANNEL LEVER
47	7352653	EXCHANG LEVER ASSEMBLY
48	6432795	PLAY GEAR
49	6300082	SPRING
50	6432771	TAKE UP GEAR
51	7787735	WASHER
52	6374331	FLYWHEEL ASSMBLY
53	7778852	POLYESTER WASHER
54	7778855	POLY SLIDER WASHER
55	7787735	WASHER
56	6355802	BELT
57	6354305	BELT
58	7352204	FLYWHEEL SUPPORT ASSEMBLY
59	6423233	G PULLEY
60	5577835	DC MOTOR ASSMBLY
61	7783471	SCREW
62	6432783	LOADING GEAR
63	7788743	WASHER
64	7355934	LOADING OFF PLATE ASSMBLY
65	5643151	MAGNET