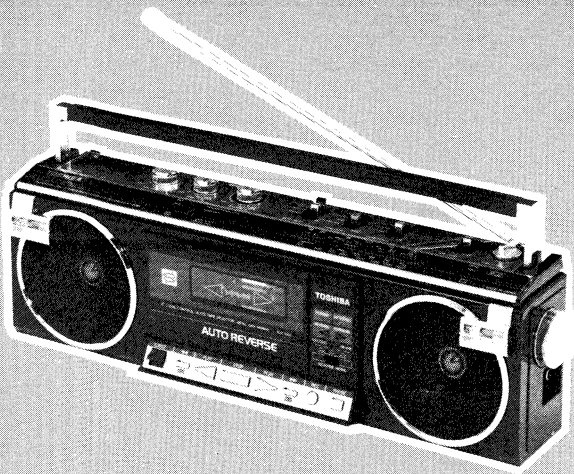


TOSHIBA

STEREO RADIO CASSETTE RECORDER

RT-8065



SPECIFICATIONS

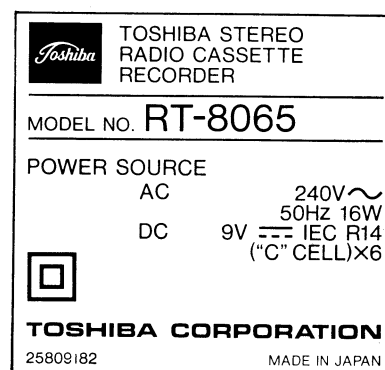
Cassette Tape Used:	Normal: C-30, C-60, C-90, C-120 Chrome: C-46, C-60, C-90 (Playback only) Metal: C-46, C-60 (Playback only)	Antenna:	FM/SW: telescopic antenna LW/MW: ferrite-core antenna
Tape Speed:	4.8 cm/sec.	Speakers:	100 mm (dia.) dynamic x 2 15 mm (dia.) piezo-electric type x 2
Track System:	Four-track two-channel stereophonic	Jacks:	[MIC] jack x 2, Impedance 200 ohm to 2 kohm [REC/PB] jack x 1 [PHONES] jack x 1
Recording System:	AC bias	Power Supply:	AC 220 - 240V, 50 Hz DC 9 V IEC R14 ("C" cell) x 6
Erasing System:	AC erasing	Power Consumption:	16W
Frequency Response:	Normal: 70 Hz to 14 kHz	Output Power:	2.7W x 2, 10% Distortion
Receiving Frequency:	FM: 88 MHz to 108 MHz SW: 5.9 MHz to 15.4 MHz MW: 526.5 kHz to 1606.5 kHz LW: 145 kHz to 270 kHz	Dimensions:	(W) 442 mm x (H) 140.5 mm x (D) 118 mm
Intermediate Frequency:	FM: 10.7 MHz LW/MW/SW: 460kHz	Weight:	2.3 kg (without batteries)

Specifications are subject to change without notice.

NAME PLATE

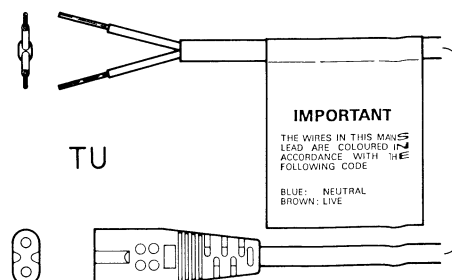
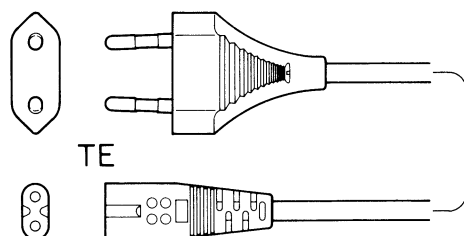


TE



TU

POWER CORD



1. OPERATING CONTROLS

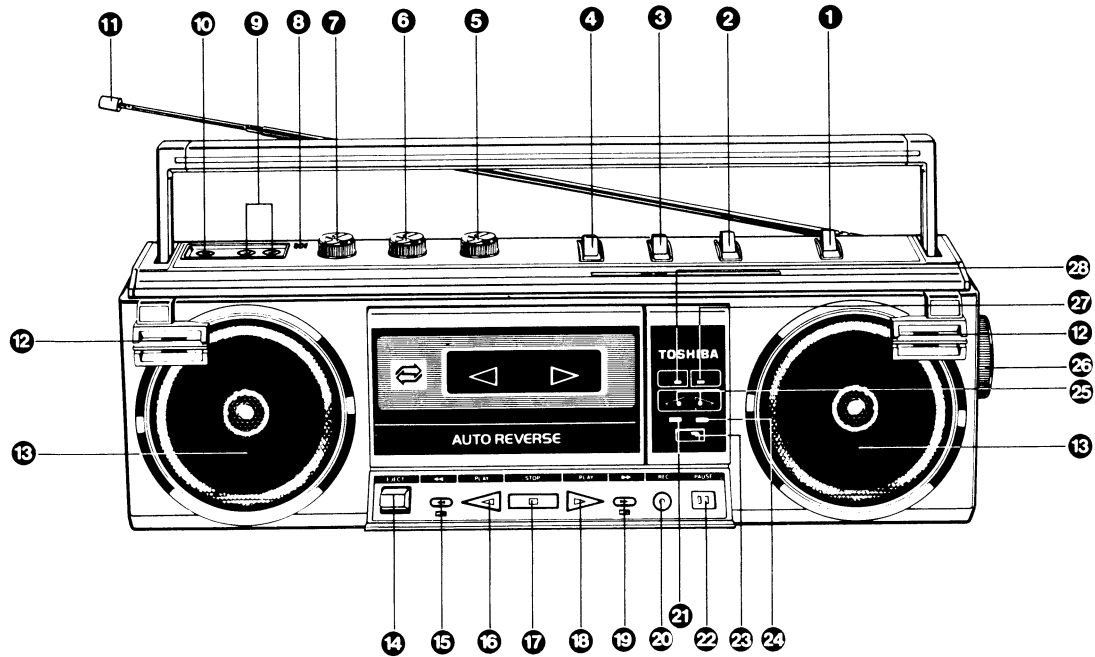


Figure 1

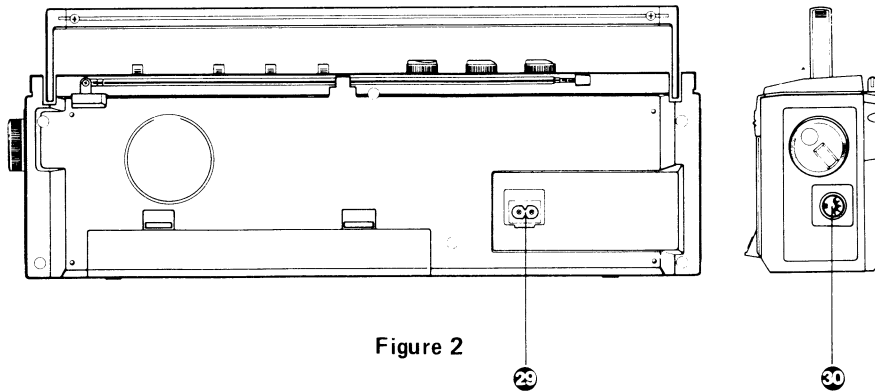


Figure 2

- ① [AM BAND] Selector
- ② [FUNCTION 2] Selector
- ③ [FUNCTION 1] Selector

Note: POWER ☐ OFF position: This unit remains connect to mains supply in the POWER ☐ OFF position. Disconnect the power cord when the unit is not going to be used for a long time.

- ④ [MODE/BEAT] Selector
- ⑤ [VOLUME] Control
- ⑥ [TONE] Control
- ⑦ [BALANCE] Control
- ⑧ Built-in Microphone
- ⑨ [MIC] Jacks
- ⑩ [PHONES] Jack
- ⑪ Telescopic Antenna
- ⑫ Tweeter Speakers
- ⑬ Woofer Speakers

- ⑭ [EJECT] Button
- ⑮ [◀] Button
- ⑯ [PLAY] Button
- ⑰ [STOP] Button
- ⑱ [▶] Button
- ⑲ [▶▶] Button
- ⑲ [REC] Button
- ⑲ [RECORD] Indicator
- ⑲ [PAUSE] Button
- ⑲ [REVERSE MODE] Switch
- ⑲ [PAUSE] Indicator
- ⑲ Tape Running Direction Indicators
- ⑲ [TUNING] Knob
- ⑲ [FM STEREO] Indicator
- ⑲ [POWER] Indicator
- ⑲ [AC POWER] Socket
- ⑲ [REC/PB] Jack

2. DISASSEMBLY INSTRUCTIONS

FRONT CABINET REMOVAL

1. Remove eight knobs (A) . (Figure 3)
2. Open cassette lid by pushing cassette eject button.
3. Remove five screws (B) ($3\phi \times 35\text{mm}$) fixing back cabinet and one screw (C) ($3\phi \times 12\text{mm}$), and the front cabinet will be removed. (Figure 3).

(C) $3\phi \times 12\text{mm}$ (BID)
Tapping Screw

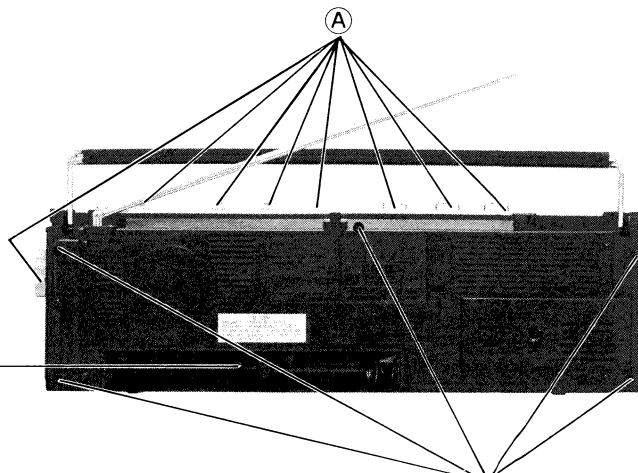


Figure 3 (B) $3\phi \times 35\text{mm}$ (BID)
Tapping Screws

MECHANISM ASSEMBLY REMOVAL

1. Remove two screws (D) ($3\phi \times 20\text{mm}$, red) fixing mechanism assembly. (Figure 4)
2. Remove two connectors (E) and (F) , and the mechanism assembly will be removed. (Figure 4)

3. Lead Wire Removal

Lead wire will be removed by pushing as shown in Figure 5. Connection will be made by inserting the lead wire.

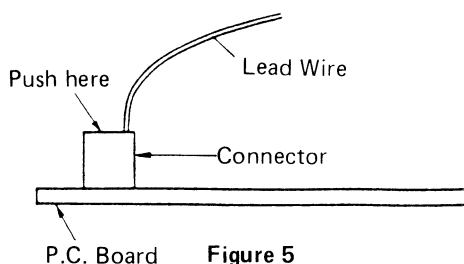
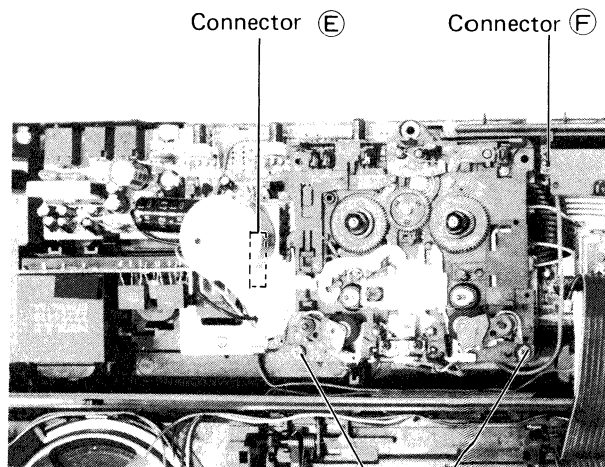


Figure 5

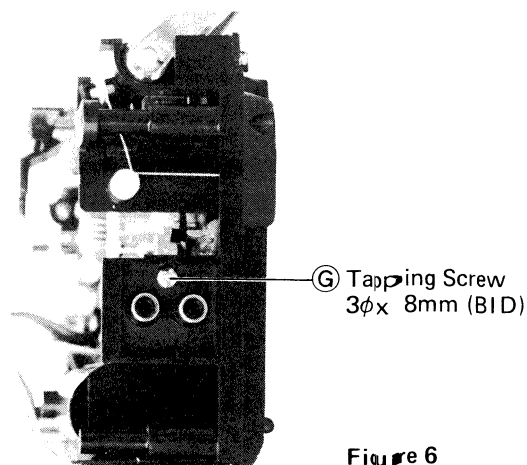


(D) Tapping Screws (Red)
 $3\phi \times 20\text{mm}$ (BID)

Figure 4

MAIN P.C. BOARD REMOVAL

1. Remove mechanism assembly.
2. Remove two screws (L) ($3\phi \times 10\text{mm}$) and one screw (I) ($3\phi \times 12\text{mm}$) fixing main P.C. Board. (Figure 7)
3. Remove one screw (G) ($3\phi \times 8\text{mm}$) fixing external input jack. (Figure 6)
4. Remove main P.C. Board with mic and headphones jack sides first while pressing two hooks (H) clamping the main P.C. Board. (Figure 7)
5. When remounting the main P.C. Board, first install external input jack into back cabinet, and then insert mic and headphones jacks. Hook the P.C. Board finally.



(G) Tapping Screw
 $3\phi \times 8\text{mm}$ (BID)

Figure 6

POWER P.C. BOARD REMOVAL

1. Remove one screw (K) (3φ x 10mm) fixing AC jack. Remove power P.C. Board by pushing hook (J). (Figure 7)

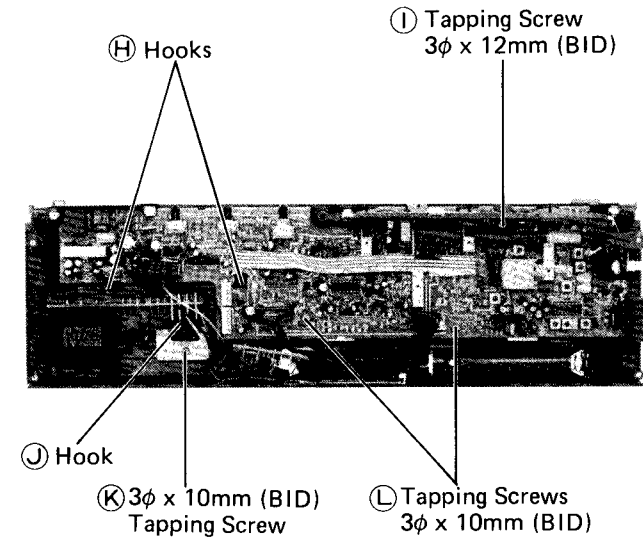


Figure 7

3. BLOCK DIAGRAM

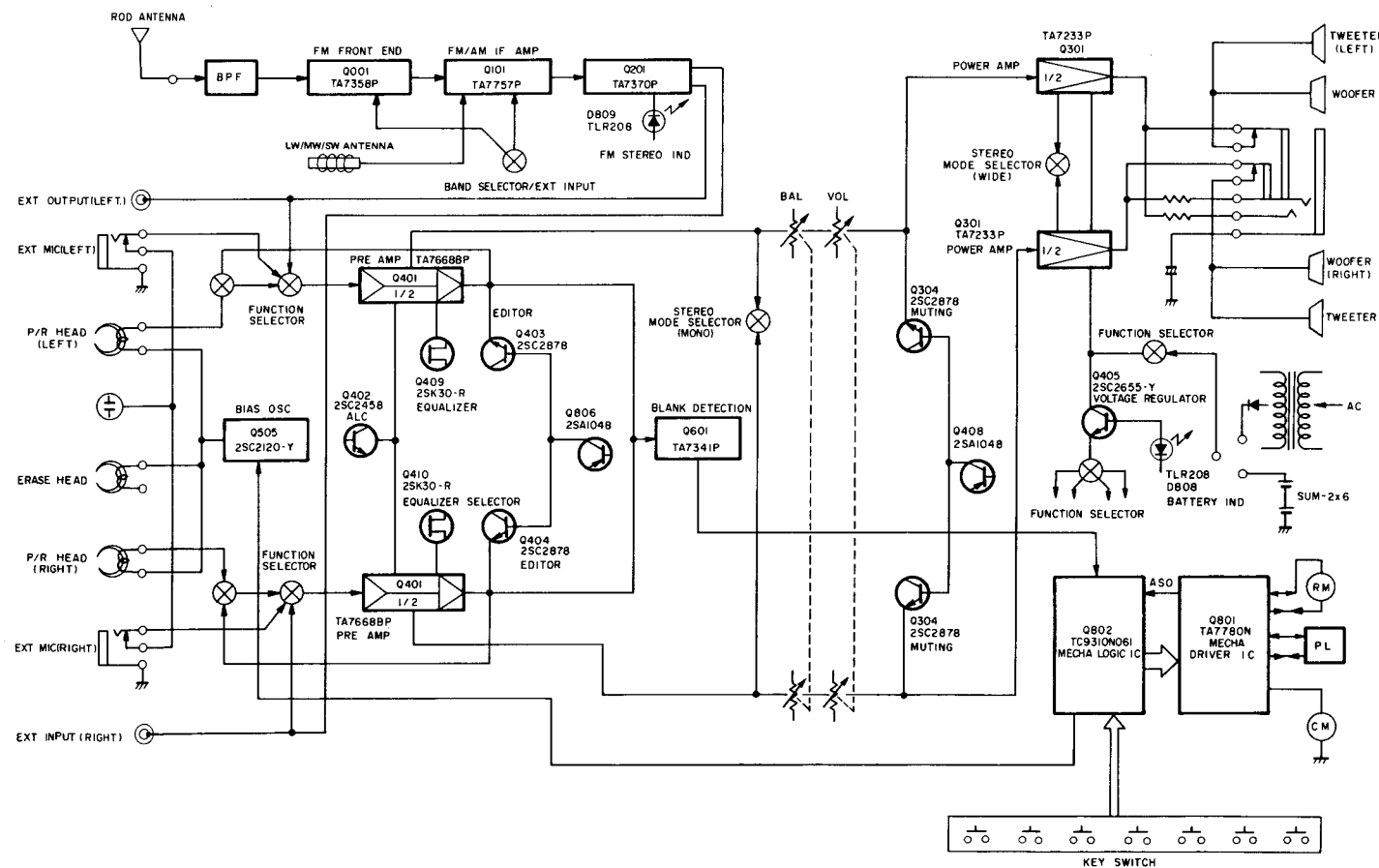


Figure 8

4. DIAL CORD RESTRINGING

DIAL CORD RESTRINGING

1. Thread both ends of dial cord through eyelet so that specified length (387mm) is obtained, and then squeeze the eyelet. Tie rest of dial cord ends two times and apply adhesive to the knots.
 2. Hook dial cord prepared in step 1 to drum spring as illustrated, and insert the cord end to threading cutout of dial drum.
 3. Turn tuning capacitor clockwise fully. Proceed stringing in steps ① to ⑤. Hook spring to drum.
- Note:** When turning dial cord on the tuning shaft, make sure so that the cord is not overlapped each other.
4. Turn tuning capacitor shaft counterclockwise fully and move dial pointer until left edge of the pointer reaches stop line provided on the frame.

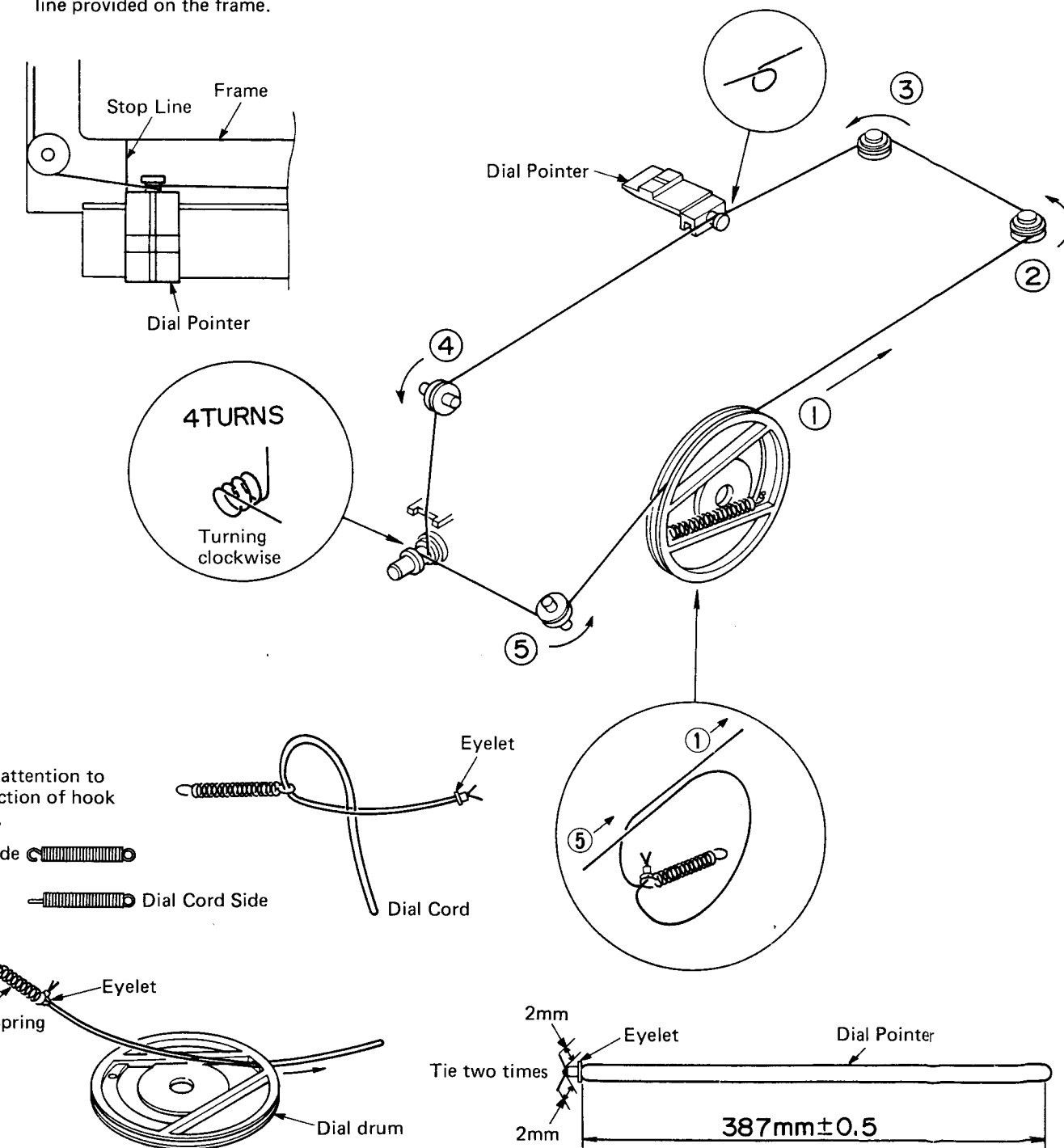


Figure 9

5. ADJUSTMENTS INSTRUCTIONS

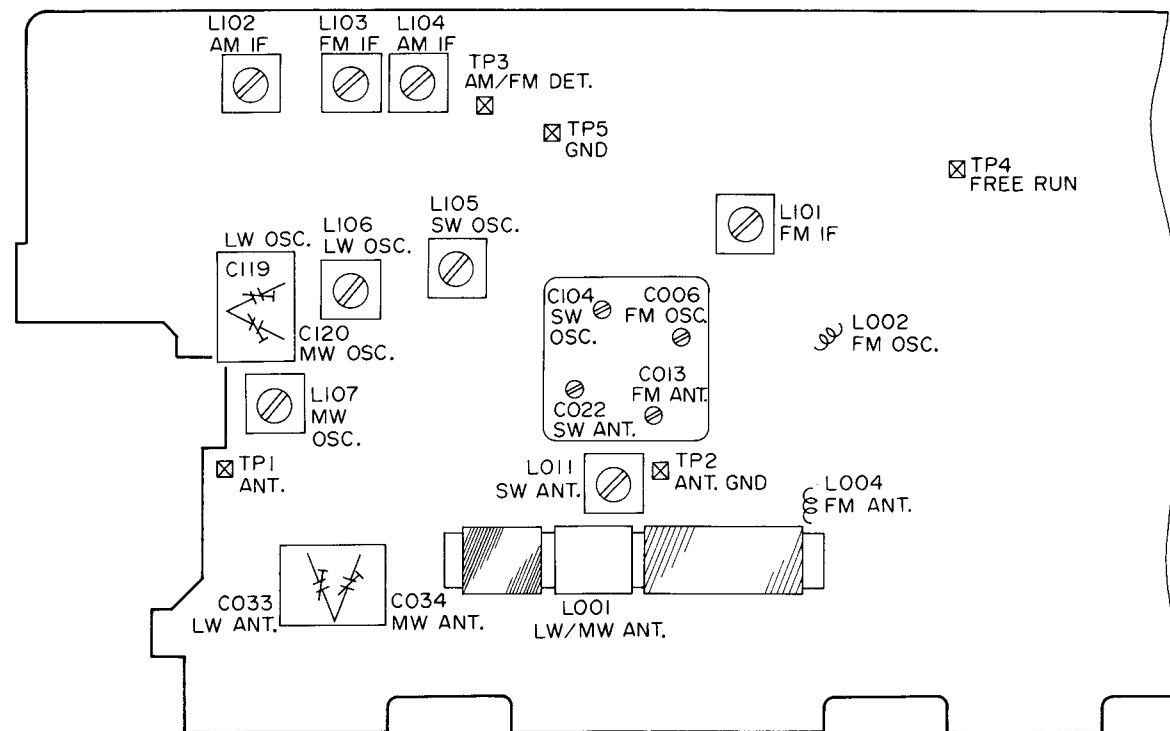


Figure 10

TEST EQUIPMENT

- Signal generator with a frequency range of at least from 140 kHz to 18 MHz AM.
- Oscilloscope with a side range amplifier of approximately 100 kHz.
- Test loop – a coil of any size wire, one turn or more. (LW & MW)
- A 30 ohm dummy antenna. (SW)
- VTVM

AM ALIGNMENT

- Turn on the AM signal generator and the VTVM allowing a fifteen-minute warm-up period.
- Using the test loop across the output of the signal generator, inductively connect the signal generator to the radio.
- Connect the VTVM across the voice coil or a 3.2 ohm dummy load.
- Set signal generator frequency as listed in ALIGNMENT CHART and maintain a sufficient output level to provide an indication on VTVM.
- Set volume control at mid-position.
- Proceed as outlined in the IF-LW, MW and SW ALIGNMENT CHART.

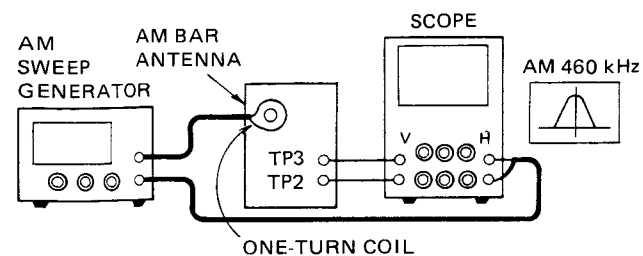


Figure 11

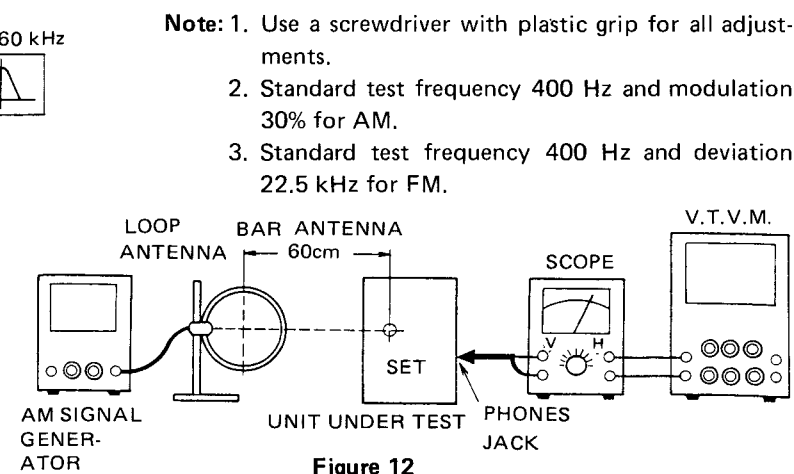


Figure 12

MW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
IF	1	460 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	L102, L104	Adjust for maximum indication.
MW	2	510 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L107 (MW)	Adjust for maximum indication.
	3	1650 kHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim C120 (MW)	Adjust for maximum indication.
	4	Repeat steps 2 and 3 as required.			
	5	600 kHz	Tune to Signal.	Ant. Coil L001 (MW)	Adjust for maximum indication.
	6	1400 kHz	Tune to Signal.	Ant. Trim. C034 (MW)	Adjust for maximum indication.
	7	Repeat steps 5 and 6 as required.			

LW ALINGMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
LW	1	142 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L106 (LW)	Adjust for maximum indication.
	2	280 kHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C119 (LW)	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	160 kHz	Tune to Signal.	Ant. Coil L001 (LW)	Adjust for maximum indication.
	5	280 kHz	Tune to Signal.	Ant. Trim. C033 (LW)	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			

SW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
SW	1	5.75 MHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L105 (SW)	Adjust for maximum indication.
	2	16 MHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C104 (SW)	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	6.5 MHz	Tune to Signal.	Ant. Coil L011 (SW)	Adjust for maximum indication.
	5	14 MHz	Tune to Signal.	Ant. Trim. C022 (SW)	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			

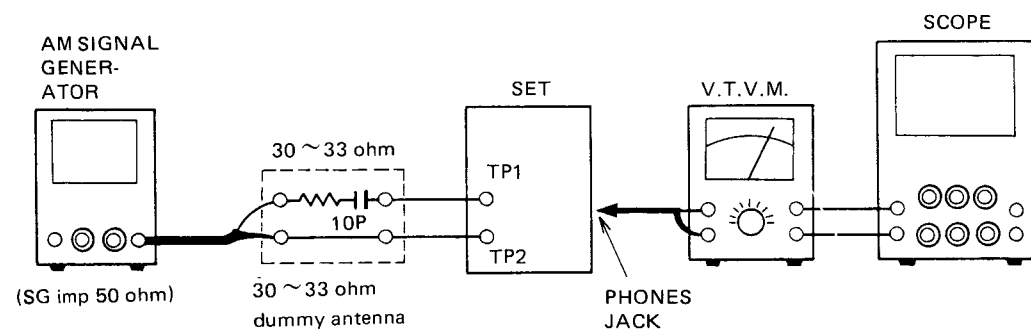


Figure 13

FM-IF ALIGNMENT

1. Set the select switch to FM position.
2. Turn on both sweep generator and oscilloscope, and allow a fifteen-minute warm-up period.
3. Connect the RF SWEEP SIGNAL OUTPUT from the signal generator through the loop antenna to the receiver.
4. Connect the oscilloscope vertical input directly to the test point TP3 and connect the shielded lead to the test point 5 or chassis ground.
5. Connect the SWEEP VOLTAGE OUTPUT of the sweep generator to the oscilloscope.
6. Proceed as outlined in the FM-IF ALIGNMENT CHART.

FM-IF ALIGNMENT CHART

Step	Signal coupling	Equip.	Tuning	Connection	Adjust. point	Pattern
1	Connect sweep generator output to a three-turn loop antenna of 10 cm diameter.	Sweep generator of 10.7 MHz center freq. with 10.7 MHz marker.	Tuning Knob fully counterclockwise (Lowest Frequency.)	Set scope for connecting output signal from TUN OUT to vertical axis of scope "V" and sweep generator output to horizontal axis "H".	L101 L103	Turn the IF Transformer L103 fully counterclockwise to obtain a single peak. Adjust coil L101 in order until the best single peak is obtained. Figure 15. Finally turn the coil L103 to obtain S curve. See Figure 16

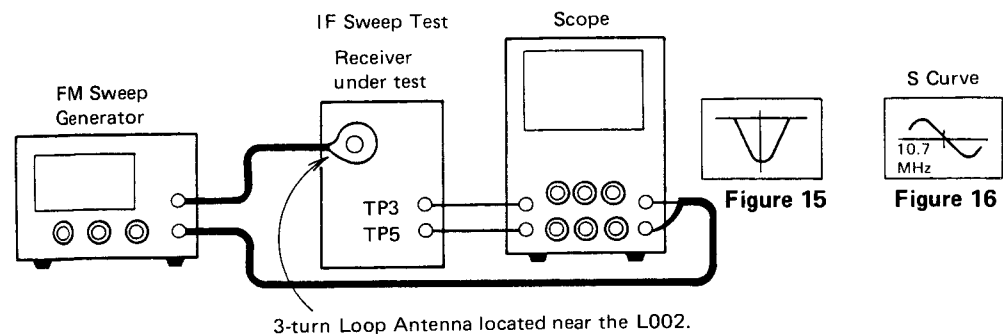


Figure 14

FM-RF ALIGNMENT

1. Turn on the signal generator and the VTVM, and allow a fifteen-minute warm-up period.
2. Connect the signal generator output through a 75 ohm dummy antenna across FM ANT.
3. Connect the VTVM across the voice coil or headphone jack.
4. Set the volume control to mid-position.
5. Adjust the signal generator frequency as indicated in FM-RF ALIGNMENT CHART, and maintain a sufficient signal output level to provide a measurable indication.
6. Proceed as outlined in the FM-RF ALIGNMENT CHART.

FM-RF ALIGNMENT CHART

Step	Signal Generator	Radio Dial Setting	Adjustment	Remarks
1	87.3 MHz	Tuning Knob Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L002	Adjust for maximum output indication.
2	109 MHz	Tuning Knob Fully Clockwise (Highest Frequency)	OSC. Trim. C006	Adjust for maximum output indication.
3	Repeat steps 1 and 2 as required.			
4	90 MHz	Tune to signal	Ant. Coil L004	Adjust for maximum output indication.
5	106 MHz		Ant. Trim. C013	
6	Repeat steps 4 and 5 as required.			

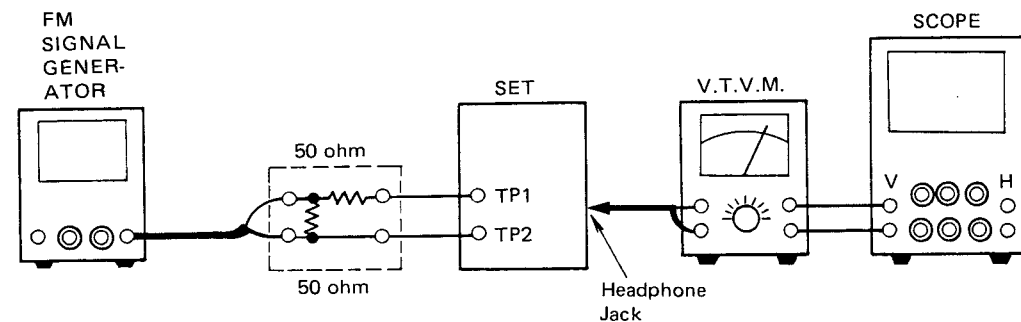


Figure 17

FREE RUN FREQUENCY ALIGNMENT

Adjust R207 under no signal condition so as to obtain 38 kHz \pm 75 Hz.

AUTO REVERSE SYSTEM

A 6.3 kHz standard tape must be used for this adjustment. Connect a VTVM or an oscilloscope to the PHONES jack and adjust the forward azimuth and the reverse one by using a phillips screwdriver to maintain the maximum output voltage.

TAKE-UP/SUPPLY REEL TENSION

1. Insert cassette torque meter.
2. Press PLAY button and read torque meter. Torque should be 45 to 50 gcm.

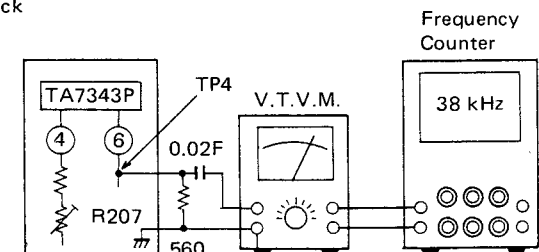


Figure 18

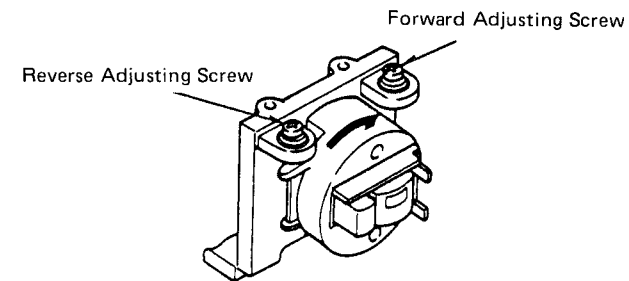


Figure 19

6. ELECTRICAL PARTS LOCATIONS

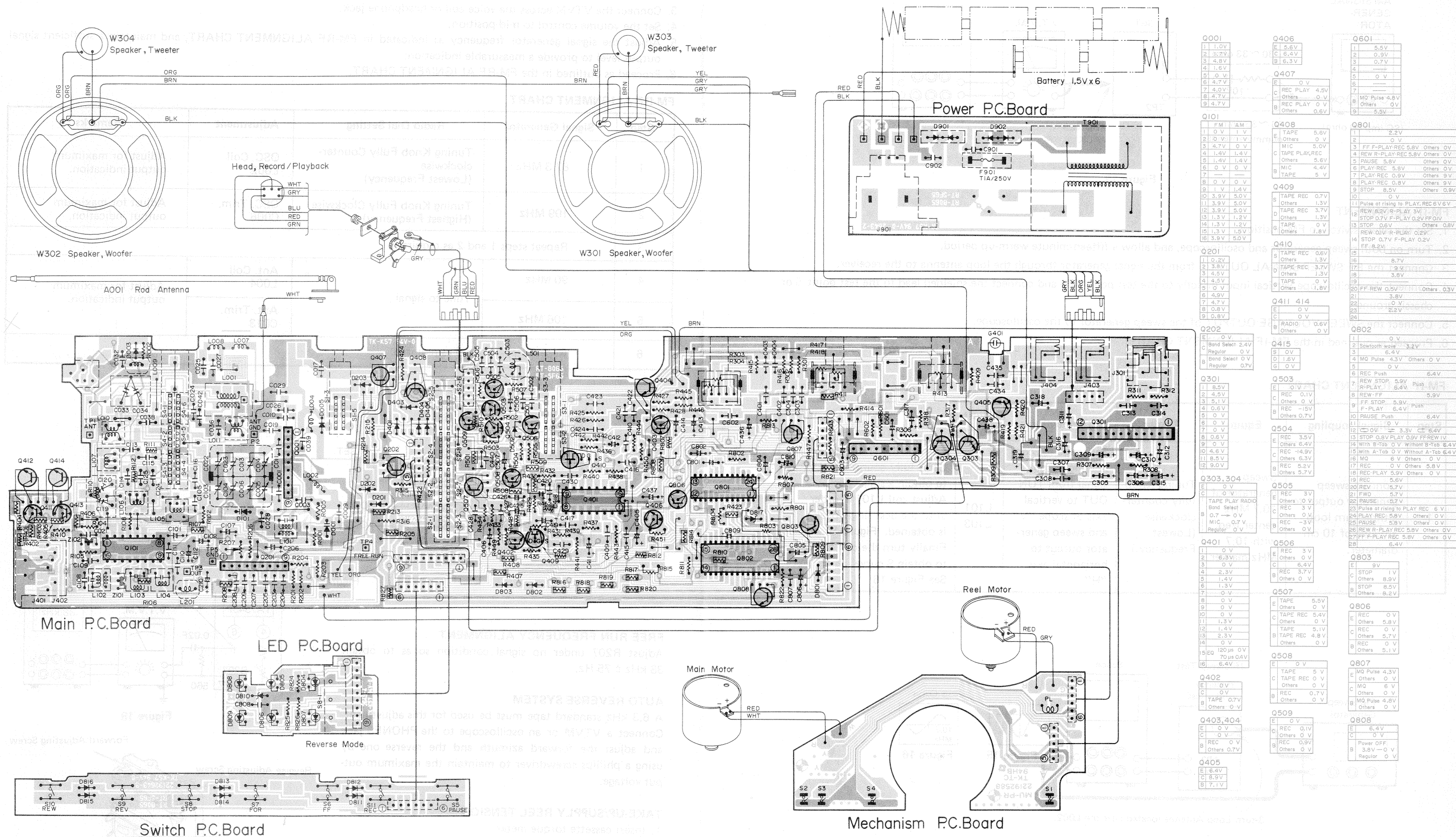


Figure 20

7. SCHEMATIC DIAGRAM

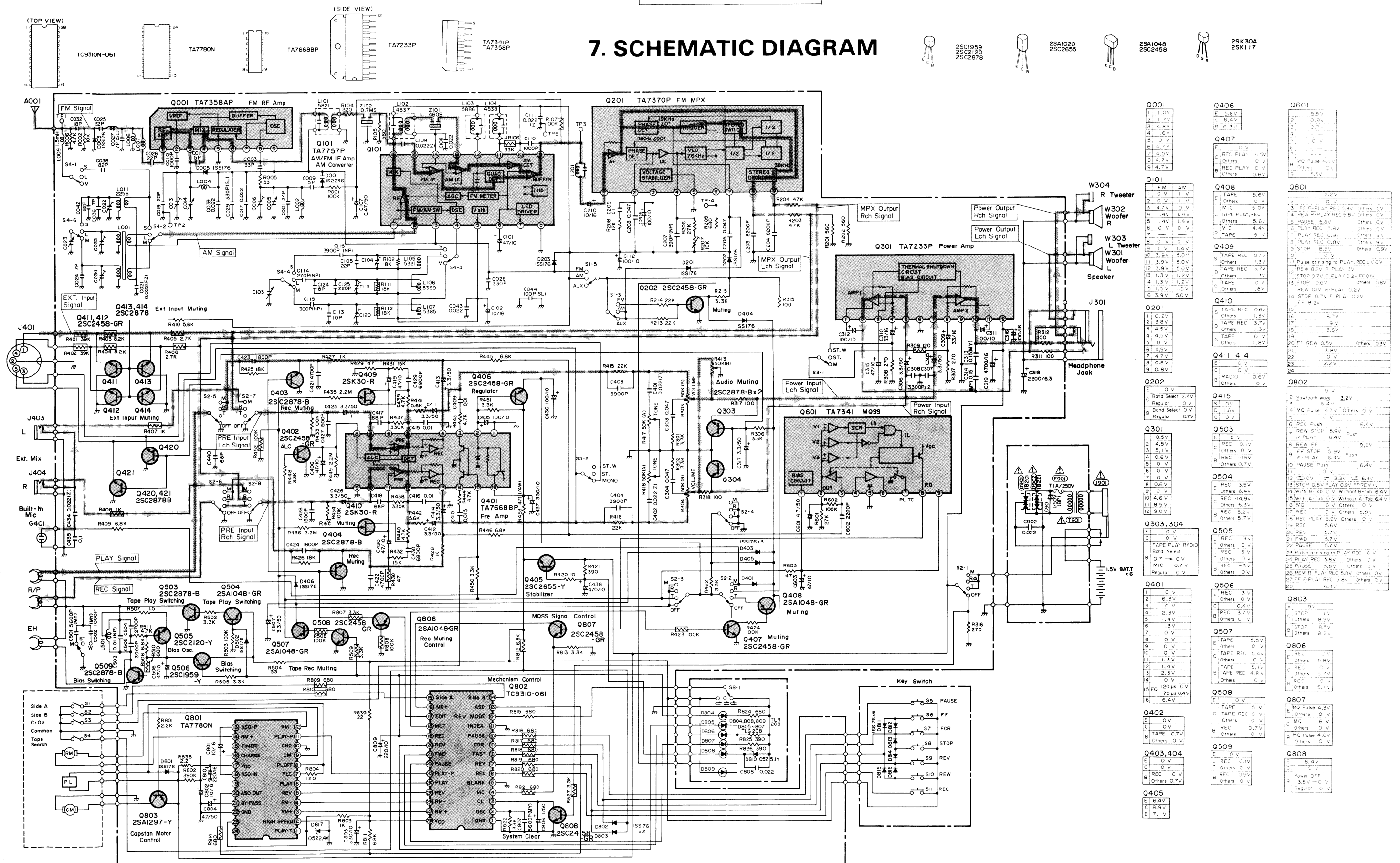

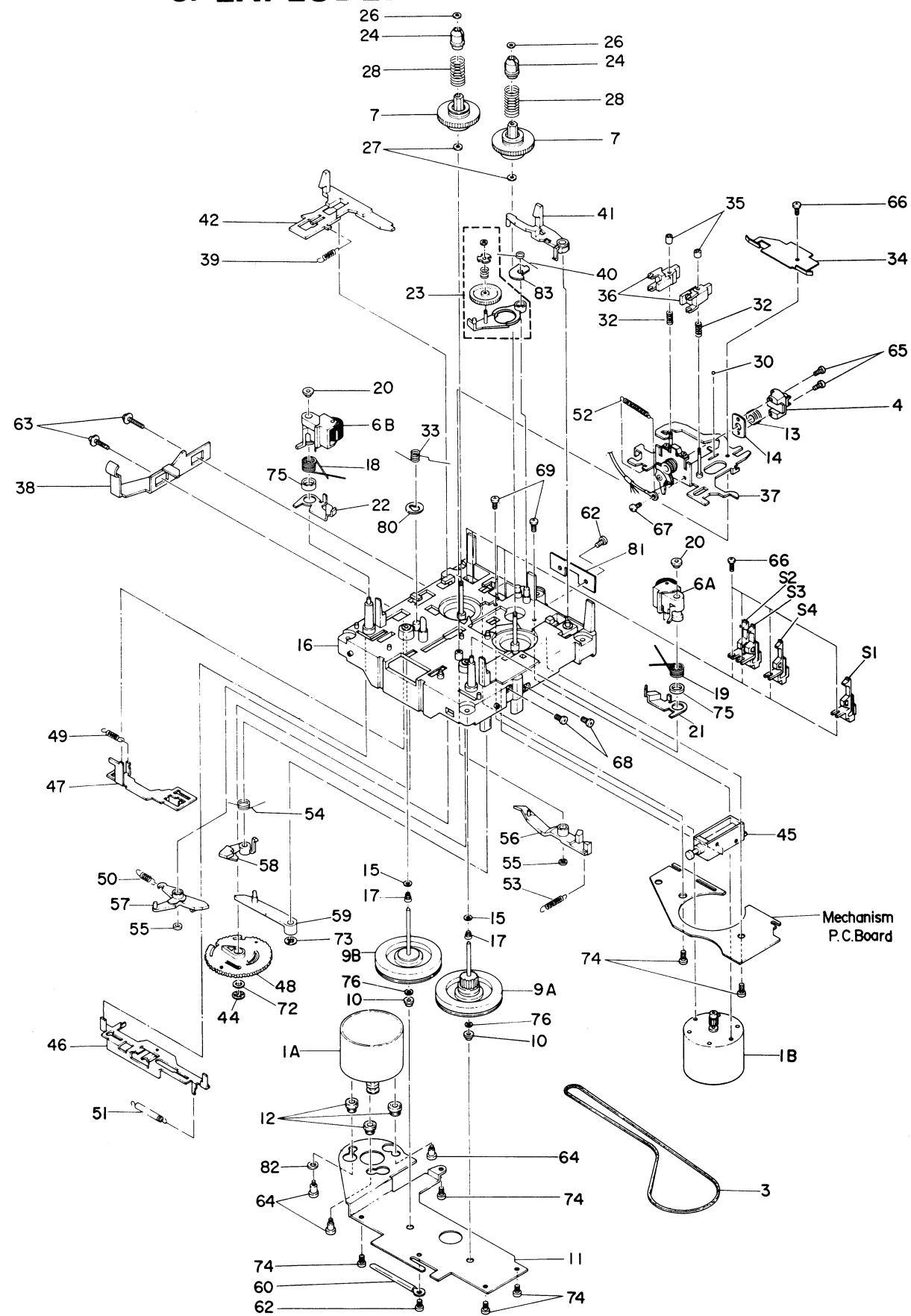


Figure 21

CAUTION:

The  mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

8. EXPLODED VIEW MECHANISM



10. CABINET PARTS LIST

Symbol No.	Part No.	Description
301	25883868	Front Cabinet Ass'y
302	25883872	Back Cabinet Ass'y
303	25883832	Battery Cover Ass'y
304	25846572	Retainer, Speaker
305	25857270	Cover, Switch
306	25884063	Insulator
307	25886083	Knob, Lever Switch
308	25886418	Knob, Tone
309	25886419	Knob, Volume
310	25886420	Knob, Tuning
311	25886566	Knob, Eject
312	25883859	Button Ass'y
313	25778203	Spring, Cassette Cover
314	25823405	Speaker Net, Left
315	25823406	Speaker Net, Right
316	25857245	Cushion, Speaker
317	25883246	Damper
318	25883861	Cover Ass'y, Cassette
319	25779272	Spring, Cassette Holder
320	22707801	Screw, BID Hd. Tapping 3d x 12mm, Chrome
321	25777290	Spring, Battery, Minus
322	25777291	Spring, Battery
323	25825250	Bushing, Handle
324	25857288	Cushion, Built-in Mic.
325	25864166	Contact, Battery
326	25815277	Handle Ass'y
327	22707473	Screw, BID Hd. 2.6d x 6mm
328	22714371	Frame
329	22741474	Pointer
330	22742110	Pulley
331	22742287	Pulley with Shaft
332	22743307	Stopper, Tuning Shaft
333	22743320	Tuning Shaft
334	25783226	Bushing
335	22742316	Dial Drum
336	22999222	Dial Cord, 0.5mmd
337	25776780	Spring, Dial Drum
338	22707802	Screw, BID Hd. Tapping 3d x 12mm
339	22707805	Screw, BID Hd. Tapping, RED 3d x 20mm
340	22708337	Screw, BID Hd. Tapping 3d x 35mm
341	22707826	Screw, BID Hd. Tapping 3d x 10mm
342	22707911	Screw, BID Hd. Tapping, BLK 3d x 8mm
343	22707910	Screw, BID Hd. Tapping 3d x 6mm

Symbol No.	Part No.	Description
344	25857283	Eject Cushion
345	25857285	Cover, Mode Switch
346	25857218	Cover, Switch
348	25809231	Name Label, TU

11. MECHANISM PARTS LIST

Symbol No.	Part No.	Description
1A	25791808	Main Motor Ass'y
1B	25791779	Reel Motor Ass'y
3	25759021	Belt, Drive
4	22217450	Head, Record/Playback and Erase
6A	25717600	Pressure Roller, Right
6B	25797022	Pressure Roller, Left
7	25754483	Reel Drum
9A	25797047	Flywheel Ass'y, Right
9B	25797048	Flywheel Ass'y, Left
10	25725456	Holder, Flywheel
12	25761238	Cushion
13	25761450	Cushion, Motor
14	25761481	Cushion
15	25764486	Washer
16	25791780	Chassis Ass'y, Mechanism
17	25777424	Spring
18	25778190	Spring, Pressure Roller, Left
19	25778198	Spring, Pressure Roller, Right
20	25783226	Bushing
23	25756486	Transfer Gear Kit
24	25754436	Reel Collar
26	25766050	Washer, 1.6d x 4d x 0.5t
27	25766223	Washer
28	25777418	Spring
30	25757132	Steel Ball, 1.5mmd
31	25776721	Spring
32	25777404	Spring, Tape Guide
33	25778211	Spring, Play Lever
34	25779427	Spring
35	25783258	Adjusting Nut
36	25783391	Tape Guide
37	25797037	Head Slider Ass'y
39	25776770	Spring, Eject
40	25778199	Spring
41	25784206	Lever
42	25784207	Slider, Eject
44	20798033	Ring
45 (PL)	22147278	See PL in the Electrical Parts.
48	25756454	Cam Gear Ass'y
49	25776769	Spring, MQS
50	25776771	Spring, Reverse Lever
51	25776772	Spring, Reverse
52	25776773	Spring, Shift
53	25776793	Spring, Cam Lock
54	25778192	Spring, Play Lock
55	25783239	Bushing
56	25791835	Lever Ass'y, Cam Lock
57	25784192	Lever, Reverse
58	25784208	Lever, Play Lock G
59	25784209	Lever, Play

Symbol No.	Part No.	Description
62	22707350	Screw, BID Hd. 2.6d x 5mml
63	22707825	Screw, PAN Hd. 2.6d x 6mml with Washer
64	22707429	Screw, Special, 2.6d x 4.9mml Motor
65	22702173	Screw, PAN Hd. 1.4d x 6mml BLK
66	22708040	Screw, BID Hd. Tapping 2d x 5mml
67	22707278	Screw, BID Hd. 2d x 3mml
68	22707475	Screw, BID Hd. 2.6d x 4mml
69	22707473	Screw, BID Hd. 2.6d x 6mml
72	22703269	Washer, 3mmd
74	22707301	Screw, BID Hd. Tapping 2.6d x 8mml
75	25726746	Spacer
76	25766043	Washer, 2.5d x 5d x 0.25t
78	25726665	Spacer
80	25726753	Stop Spacer
82	25735280	Washer, Motor
83	25734532	Stopper, Take-up Lever

12. PARTS LIST

CAUTION:

The \triangle mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description
TRANSISTORS, ICS & DIODES		
Q001	B0325502	IC, TA7358AP
Q101	B0358070	IC, TA7757P
Q201	B0325620	IC, TA7370P
Q202, 402, Q406, 407, Q411, 412, Q508, 807, Q808	A6332440	Transistor, 2SC2458-GR
Q301	B0319970	IC, TA7233P
Q303, 304, Q403, 404, Q413, 414, Q503, 509	A6342210	Transistor, 2SK30Z-TM.R
Q401	B0356695	IC, TA7668BP
Q405	A6333320	Transistor, 2SC2655-Y
Q408, 504, Q507, 806	A6534440	Transistor, 2SA1048-GR
Q409, 410	A6048310	Transistor, 2SK30A-TM.R
Q420, 421	A6342210	Transistor, 2SC2878-B
Q505	A6321240	Transistor, 2SC2120-Y
Q506	A6319300	Transistor, 2SC1959NEW-Y
Q601	B0325320	IC, TA7341P
Q801	22117631	IC, TA7780AN
Q802	22117619	IC, TC9310N-061
Q803	A6546310	Transistor, 2SA1297-Y
D001	A7289000	Diode, 1S2236
D003, 005, D201, 202, D203, 401, D403, 404, D405, 406, D502, 801, D802, 803, D811, 812, D813, 814, D815, 816	A7160570	Diode, 1SS176
D804, 808, D809	A8603140	Diode, LED, TLR208 RED
D805, 806, D807	A8606660	Diode, LED, TLG208 GRN

Symbol No.	Part No.	Description
D810	A7110041	Diode, Zener, 05Z5.1Y
D817	A7109242	Diode, Zener, 05Z2.4X
\triangle D901	A7682012	Diode, 1B2C1
\triangle D902	A7682052	Diode, 1B2Z1
COILS & TRANSFORMERS		
L001	22243043	Coil, Antenna, LW/MW
L002	22294558	Coil, Oscillator, FM
L004	22294535	Coil, Antenna, FM
L007, 008	22294466	Coil, Choke
L009	22291188	Coil, Choke
L011	22282256	Coil, SW Antenna
L101	22265821	IF Transformer, FM
L102	22264837	IF Transformer, AM
L103	22265886	IF Transformer, FM
L104	22264838	IF Transformer, AM
L105	22285321	Coil, SW Oscillator
L106	22245389	Coil, LW Oscillator
L107	22245385	Coil, MW Oscillator
L501	22235254	Coil, Bias Oscillator, Tape
\triangle T901	22224422	Power Transformer, TE
\triangle T901	22224423	Power Transformer, TU
ELECTRICAL PARTS		
S1-3, 5	22196603	Switch, Lever, AUX-AM-FM
S2-1 ~ 8	22196342	Switch, Lever, Function
S3-1 ~ 3	22196231	Switch, Lever, Stereo Wide-Stereo-Mono
S4-1 ~ 6	22196232	Switch, Lever, MW-LW-SW
S8	22196548	Switch, Slide, Reverse Mode Change
S1	22196538	Switch, Leaf, Erasure Prevention Tab, A Side
S2	22196538	Switch, Leaf, Erasure Prevention Tab, B Side
S3	22196538	Switch, Leaf, CrO ₂

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
S4	22196538	Switch, Leaf, Tape Detect	C036	22361709	CD, 7pF, 50V, J
S5	22195924	Switch, Key, Pause	C038	22362820	CD, 82pF, 50V, K
S6	22195924	Switch, Key, F.F.	C039	22342223	CD, 0.022mfd, 50V, Z
S7	22195924	Switch, Key, Forward	C042	22362820	CD, 82pF, 50V, K
S8	22195924	Switch, Key, Stop	C043	22342223	CD, 0.022mfd, 50V, Z
S9	22195924	Switch, Key, Reverse	C044	22362101	CD, 100pF, 50V, K
S10	22195924	Switch, Key, REW			
S11	22195924	Switch, Key, REC	C101	22483470	EL, 47mfd, 10V
J301	22198015	Jack, 3.5mmd, Headphone	C102	22485100	EL, 10mfd, 16V
J401	22167975	Jack, DIN	C105	22361220	CD, 22pF, 50V, J
J403, 404	22198016	Jack, 3.5mmd, Ext. Mic.	C107	22488478	EL, 0.47mfd, 50V
△ J901	22169062	AC Socket	C108	22342223	CD, 0.022mfd, 50V, Z
A001	22124711	Rod Antenna	C109	22342223	CD, 0.022mfd, 50V, Z
W301, 302	22152531	Speaker, 100mmd, Woofer	C110	22349102	CD, 1000pF, 50V, K
W303, 304	22152534	Speaker, 15mmd, Tweeter	C111	22342223	CD, 0.022mfd, 50V, Z
Z101	22153083	Filter, Ceramic, AM	C112	22483101	EL, 100mfd, 10V
Z102	22153299	Filter, Ceramic, FM	C113	22360318	CD, 10pF, 50V, D (SH)
G401	22154233	Microphone, Built-in	C114	22321048	PF, 270pF, 50V, J
PL	22147282	Solenoid	C115	22321050	PF, 360pF, 50V, J
			C116	22321064	PF, 3900pF, 50V, J
			C119/120	22309184	Trimmer Capacitor LW/MW Oscillator
△ F901	22144337	Fuse, 1A/250V, Time Lug, TE	C124	22360937	CD, 8pF, 50V, D
△ F901	22144514	Fuse, 1A/250V, Time Lug, TU	C125	22321164	CD, 220pF, 50V, J
EP01	22165047	Holder, Fuse			
CAPACITORS			C203, 204	22360543	PF, 8200pF, 25V, K
D = ±0.5pF, J = ±5%, K = ±10%, M = ±20%, Z = -20+80%			C205	22360881	PF, 0.047mfd, 16V, Z
ABBREVIATIONS: CD = Ceramic Disk, PF = Plastic Film			C206	22483101	EL, 100mfd, 10V
EL = Electrolytic			C207	22321051	PF, 390pF, 50V, J
			C208	22360881	PF, 0.047mfd, 16V, Z
			C209	22360880	PF, 0.1mfd, 16V, Z
			C210	22485100	EL, 10mfd, 16V
C001	22360783	CD, 24pF, 50V, J	C303, 304	22360331	PF, 0.047mfd, 25V, M
C003	22361330	CD, 33pF, 50V, J	C305, 306	22488339	EL, 3.3mfd, 50V
C005/006/ C013/014/ C022/023/ C103/104	22308235	Variable Capacitor	C307, 308	22349332	CD, 3300pF, 50V, K
C009	22361509	CD, 5pF, 50V, D	C309, 310	22485330	EL, 33mfd, 16V
C010	22349102	CD, 1000pF, 50V, K	C311, 312	22483101	EL, 100mfd, 10V
C011	22361509	CD, 5pF, 50V, D	C313, 314	22371154	PF, 0.15mfd, 50V, J
C017	22342223	CD, 0.022mfd, 50V, Z	C315	22483470	EL, 47mfd, 10V
C019	22361200	CD, 20pF, 50V, J	C316	22485101	EL, 100mfd, 16V
C021	22342223	CD, 0.022mfd, 50V, Z	C317	22488339	EL, 3.3mfd, 50V
C024	22361709	CD, 7pF, 50V, J	C318	22482222	EL, 2200mfd, 6.3V
C025	22361220	CD, 22pF, 50V, J	△ C319	22440729	EL, 4700mfd, 16V
C026	22361220	CD, 22pF, 50V, J			
C027	22361709	CD, 7pF, 50V, D	C401, 402	22342223	CD, 0.022mfd, 50V, Z
C028, 029	22362331	CD, 330pF, 50V, K	C403, 404	22349392	CD, 3900pF, 50V, K
C032	22361180	CD, 18pF, 50V, J	C405	22483101	EL, 100mfd, 10V
C033/034	22309184	Trimmer Capacitor LW/MW Antenna	C406	22483470	EL, 47mfd, 10V
			C409, 410	22360328	PF, 0.015mfd, 25V, M
			C411, 412	22440442	EL, 3.3mfd, 50V
			C413, 414	22440442	EL, 3.3mfd, 50V
			C415, 416	22342103	CD, 0.01mfd, 50V, Z
			C417, 418	22361680	CD, 68pF, 50V, J

Symbol No.	Part No.	Description
C419, 420	22483470	EL, 47mfd, 10V
C421, 422	22360325	PF, 4700pF, 25V, M
C423, 424	22349182	CD, 1800pF, 50V, K
C425, 426	22488339	EL, 3.3mfd, 50V
C427, 428	22349152	CD, 1500pF, 50V, K
C429, 430	22360326	PF, 6800pF, 25V, M
C434	22360329	PF, 0.022mfd, 25V, M
C435	22360333	CD, 0.1mfd, 25V, M
C436	22483101	EL, 100mfd, 10V
C437	22483331	EL, 330mfd, 10V
C438	22483471	EL, 470mfd, 10V
C440	22361680	CD, 68pF, 50V, J
C501	22371272	PF, 2700pF, 50V, J
C502	22371122	PF, 1200pF, 50V, J
C503	22321069	PF, 0.01mfd, 50V, J
C504	22371272	PF, 2700pF, 50V, J
C505	22371392	PF, 3900pF, 50V, J
C506	22483470	EL, 47mfd, 10V
C507	22488339	EL, 3.3mfd, 50V
C601	22488479	EL, 4.7mfd, 50V
C602	22349222	CD, 2200pF, 50V, K
C603	22483470	EL, 47mfd, 10V
C801, 802	22485100	EL, 10mfd, 16V
C804	22488479	EL, 4.7mfd, 50V
C805	22483331	EL, 330mfd, 10V
C806	22488109	EL, 1mfd, 50V
C807	22371562	PF, 5600pF, 50V, J
C808	22342223	CD, 0.022mfd, 50V, Z
C809, 810	22485221	EL, 220mfd, 16V
C901	22478109	EL, 1mfd, 50V, None Polarity
C902	22342223	CD, 0.022mfd, 50V, Z
RESISTORS		
1. Resistors are Fixed Carbon Film 1/6W, $\pm 5\%$, unless otherwise noted.		
2. PR is short for the printed resistor. If replacement of the resistor in PR is required. Please use the substitutional fixed carbon film resistor of 1/6W, $\pm 5\%$, according to the following list.		
K = 1000, M = 1000000		
R001	22584104	100K ohm
R002	22584103	10K ohm
R005	22584330	33 ohm
R006	22584472	4.7K ohm

Symbol No.	Part No.	Description
R101	22584183	18K ohm
R102	22584183	18K ohm
R104	22584221	220 ohm
R105	22584561	560 ohm
R106	22584333	33K ohm, PR
R107	22584104	100K ohm PR
R111	22584183	18K ohm, PR
R112	22584183	18K ohm, PR
R201, 202	22584561	560 ohm
R203, 204	22584473	47K ohm
R205	22584681	680 ohm
R206	22584273	27K ohm
R207	22658761	10K-B, Free Run
		Semi-fixed Variable
R208	22584123	12K ohm
R213, 214	22584223	22K ohm
R215	22584332	3.3K ohm
R301, 302	22584103	10K ohm
R303/304	22651585	50K-B, Volume Variable
		Resistor
R306	22584332	3.3K ohm
R307, 308	22584271	270 ohm
R309	22584121	120 ohm, PR
R311, 312	22584101	100 ohm
R315	22584330	33 ohm
R316	22584271	270 ohm
R317, 318	22584101	100 ohm
R401, 402	22584393	39K ohm, PR
R403, 404	22584822	8.2K ohm, PR
R405, 406	22584272	2.7K ohm, PR
R407, 408	22584102	1K ohm, PR
R409	22584682	6.8K ohm
R410	22584562	5.6K ohm
R413	22651582	50K-B, Balance Variable
		Resistor
R415, 416	22584223	22K ohm
R417/418	22651583	50K-A, Tone Variable
		Resistor
R419	22500271	1 ohm, Fusible, 1/4W
R420	22584100	10 ohm
R421	22584391	390 ohm
R422	22584332	3.3K ohm
R423	22584104	100K ohm, PR
R424	22584104	100K ohm
R425, 426	22584183	18K ohm
R427, 428	22584102	1K ohm
R429	22584470	47 ohm
R430	22584470	47 ohm, PR
R431, 432	22584153	15K ohm
R433, 434	22584104	100K ohm
R435, 436	22584225	2.2M ohm

Symbol No.	Part No.	Description
R437, 438	22584334	330K ohm
R439, 440	22584472	4.7K ohm
R441, 442	22584562	5.6K ohm
R443, 444	22584472	4.7K ohm
R445, 446	22584682	6.8K ohm
R448	22584332	3.3K ohm
R449	22584225	2.2M ohm
R450, 451	22584332	3.3K ohm
R452	22584104	100K ohm, PR
R453	22555470	47 ohm, 1/4W
R502	22584332	3.3K ohm
R503	22584104	100K ohm
R504	22584330	33 ohm
R505	22584332	3.3K ohm
R506	22584682	6.8K ohm
R507	22555159	1.5 ohm, 1/4W
R508	22584104	100K ohm, PR
R509	22584332	3.3K ohm, PR
R510	22584681	680 ohm, PR
R511	22555472	4.7K ohm
R601	22584273	27K ohm
R602	22584104	100K ohm
R603	22584470	47 ohm
R801	22584222	2.2K ohm
R802	22584394	390K ohm
R803	22555102	1K ohm, 1/4W
R804	22555121	120 ohm, 1/4W
R807	22584332	3.3K ohm, PR
R808	22584104	100K ohm, PR
R809, 810	22584681	680 ohm, PR
R811	22584682	6.8K ohm
R812	22584682	6.8K ohm, PR
R813	22584332	3.3K ohm
R814, 815	22584681	680 ohm, PR
R816, 817	22584681	680 ohm, PR

Symbol No.	Part No.	Description
R818, 819	22584681	680 ohm, PR
R820, 821	22584681	680 ohm, PR
R822	22584333	33K ohm
R824	22584681	680 ohm
R825, 826	22584391	390 ohm
R827	22584332	3.3K ohm, PR
△ R838	22500272	2.2 ohm, Fusible, 1/4W
R839	22584220	22 ohm
ACCESSORIES		
△ AC01	22176616	Power Supply Cord, TE
△ AC01	22176626	Power Supply Cord, TU
AC02	22904454	Owner's Manual, TE
AC02	22904709	Owner's Manual, TU

TOSHIBA CORPORATION

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