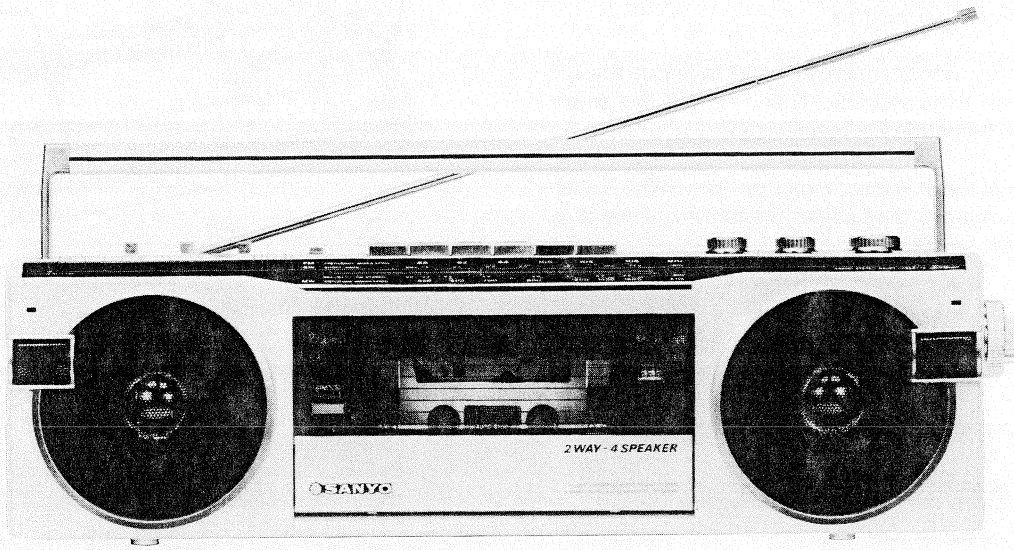
SERVICE MANUAL

SANYO

MINI STEREO CASSETTE RECORDER

M7770K



142 340 24

SPECIFICATIONS

Power Source	
DC	9V (UM-2, HP11, C Cell, Babyzelle, R14) x 6
Output Power	3.5W x 2 (Max.)
Power Consumption	9W
Current Consumption (at Vol. Min.)	
Record mode	265mA
Playback mode	175mA
Fast Forward mode	155mA
Rewind mode	165mA
Recording System	AC Bias
Erasing System	AC Erasing
Tape Speed	1-7/8ips. ±3%
Wow & Flutter	0.15% WRMS
Fast Forward Time	110sec. (with C-60)
Rewind Time	110sec. (with C-60)
Frequency Response (Overall)	
Fe_2O_3	40Hz ~ 13,000Hz
CrO_2	40Hz ~ 14,000Hz
Metal	40Hz ~ 16,000Hz
Erase Ratio (Overall, with Fe_2O_3)	60dB
Signal to Noise Ratio (with Fe_2O_3)	48dB
Crosstalk (with Fe_2O_3)	
Track to Track	50dB
Hum & Noise (at Vol. Min.)	−60dBs
Input Sensitivity and Impedance	
MIC.	0.3mV/3.3kΩ
LINE IN	100mV/100kΩ
Output Level and Impedance	
LINE OUT	300mV/2.2kΩ
Ext. Speaker	2 ~ 32Ω
Headphone	32Ω
Frequency Range	
MW	525 ~ 1,605kHz
SW1	2.3 ~ 7.3MHz
SW2	7.3 ~ 23MHz
FM	88 ~ 108MHz

—Specifications subject to change without notice.—

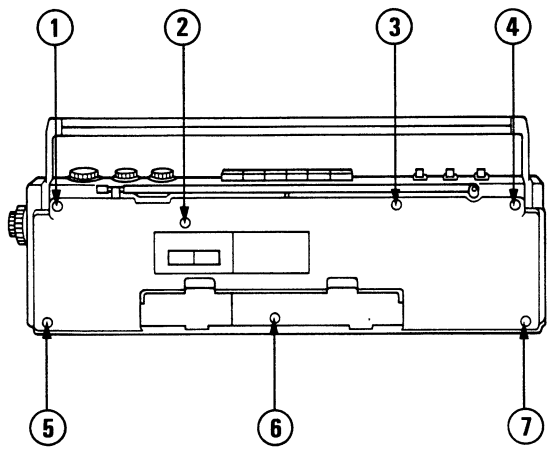
DISASSEMBLY INSTRUCTIONS

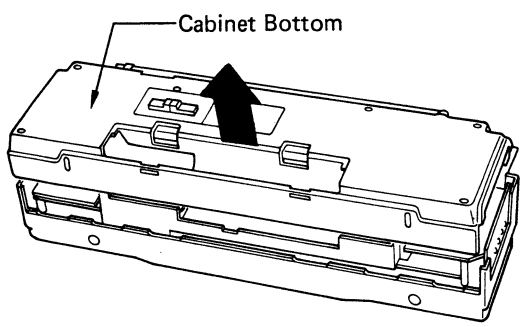
GENERAL REMARKS

- Before disassemblying the unit, spread a soft cloth or a rubber mat on the work bench to avoid scratches and grease stains.
- Do not spread anything which is likely to cause static electricity because transistors and ICs are easily broken by it.
- Correctly reassemble the unit, noting the kinds of fastening screws and the lead arrangement. Please refer to "Schematic Diagrams" and "Exploded Views".

CABINET BOTTOM ASSEMBLY REMOVAL

1. Take out the cassette tape from the compartment by pressing the STOP/EJECT button.
2. Remove the battery compartment lid and take out the six batteries from the compartment. Then, remove the seven screws (1 – 7) fastening the Cabinet Bottom.
3. Pull out the connector of the antenna from the Radio Tuner P.C.Board. Then, remove the Cabinet Bottom by lifting it in the direction of the arrow.

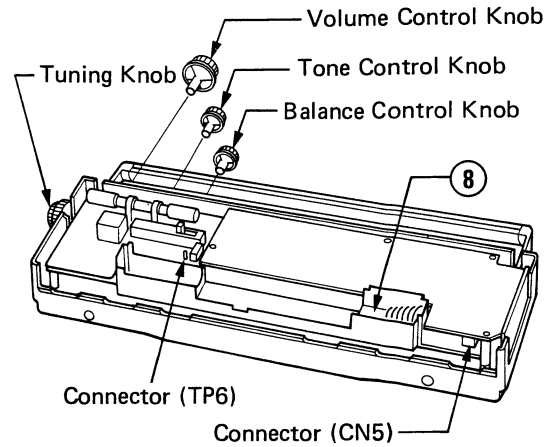




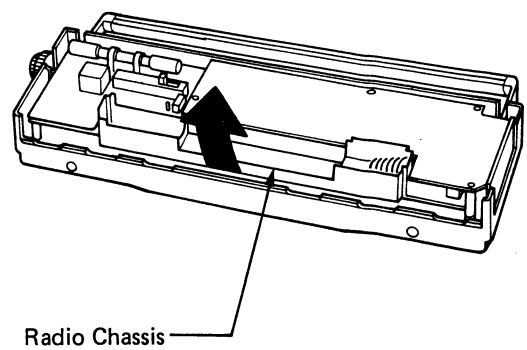
4. Reassemble in reverse order.

RADIO CHASSIS ASSEMBLY REMOVAL

1. After removing the Cabinet Bottom, pull out the volume control, tone control, balance control, and tuning knobs from the unit.



2. Pull out Connector CN5 from the Amplifier P.C.Board and then, Connector TP6 from the Radio Tuner P.C.Board.
3. Remove the screw (8) fastening the Radio Chassis.
4. Remove the Radio Chassis by lifting it in the direction of the arrow.



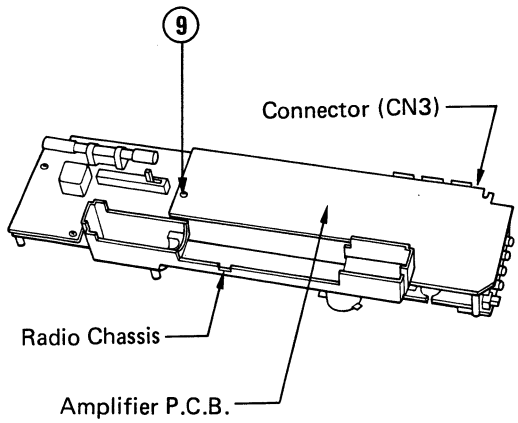
5. Reassemble in reverse order.

DISASSEMBLY INSTRUCTIONS (Continued)

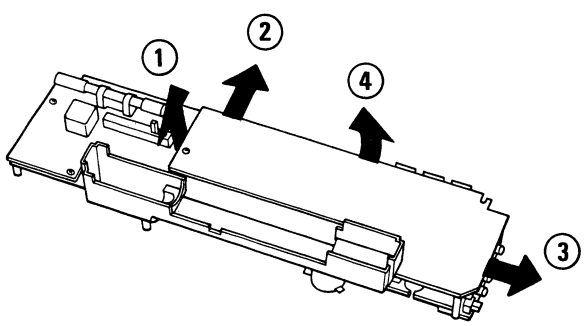
AMPLIFIER P.C.BOARD ASSEMBLY REMOVAL

1. Follow the instructions for the Cabinet Bottom Assembly Removal.

2. Pull out Connector CN3 from the P.C.Board and remove the leads from the Volume P.C.Board.



3. Carefully remove the P.C.Board by lifting it in the numerical order as illustrated.



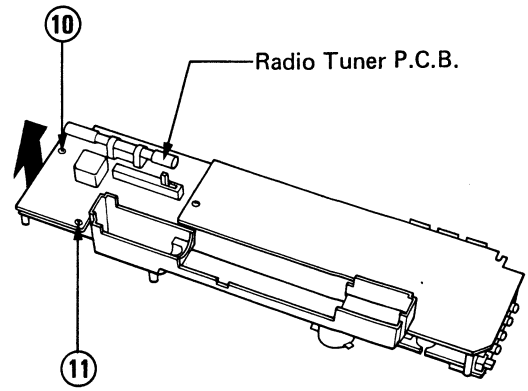
4. Reassemble in reverse order.

RADIO TUNER P.C.BOARD REMOVAL

1. Follow the instructions for the Radio Chassis Assembly Removal.

2. Turn the Tuning Knob fully in an arbitrary direction.

3. Remove the screws (10 and 11) fastening the Radio Tuner P.C.Board. Then, detach the P.C.Board by lifting it in the direction of the arrow.

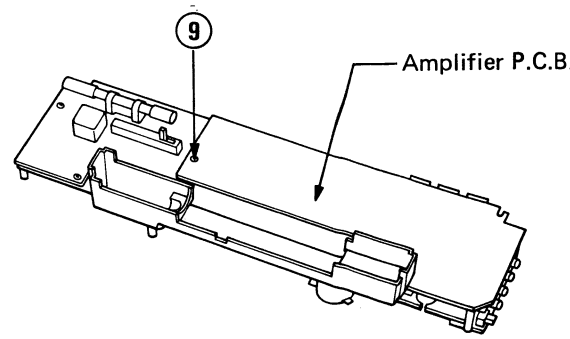


4. Reassemble in reverse order.

NOTE:
Do not turn the Tuning Knob before the Radio Tuner P.C.Board is re-mounted to the unit.
When the Radio Tuner P.C.Board is mounted, insert the shaft of the variable capacitor into the hole on the drum. After that, check to see that correct dial indications are obtained.

MECHANISM CHASSIS REMOVAL

1. Remove the Radio Chassis from the unit by following its removal instruction and then, a screw (9) fastening the Amplifier P.C.Board.



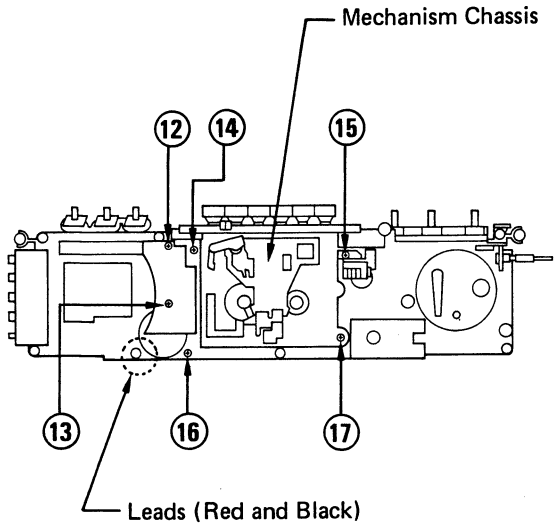
2. Remove the two screws (12 and 13) fastening the AMSS Program P.C.Board and then, the P.C.Board.

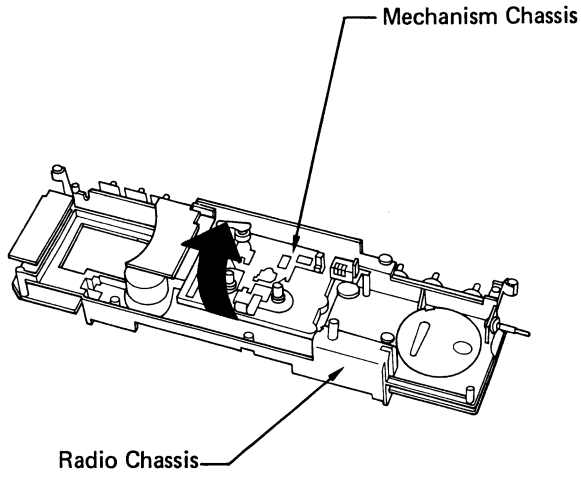
3. Remove the four screws (14 – 17) fastening the Chassis and the two screws (Red and Black) running from the motor.

4. Remove the Mechanism Chassis by lifting it in the direction of the arrow. Note the lead connections.

5. Reassemble in reverse order.

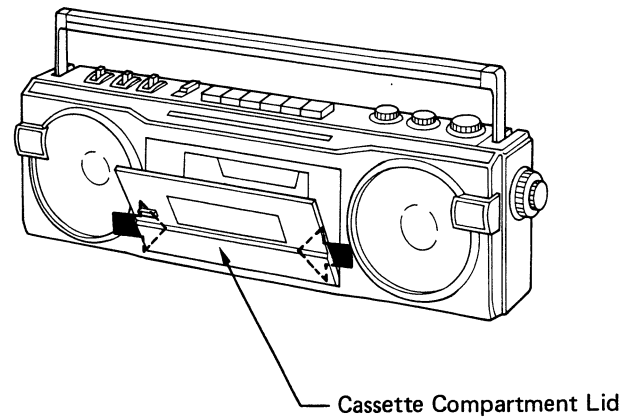
DISASSEMBLY INSTRUCTIONS (Continued)





CASSETTE COMPARTMENT LID REMOVAL

1. Open the cassette compartment lid by pressing the STOP/EJECT button.
2. Unlock the compartment latches from the Cabinet Top by pushing the both sides of the compartment lid strong. Then, the lid will be easily removed from the unit.



3. Reassemble in reverse order.

NOTICE ON REASSEMBLY

1. Refer to "Wiring Diagram" for re-wiring.
2. Refer to "Exploded Views" for lead arrangement.
3. Check to see that the lead wires or electrical components do not touch the driving mechanism.

ADJUSTMENTS

GENERAL REMARKS

- Before adjustment, wipe the tape contacting surfaces clean as well as the contacting surfaces of the driving parts with a soft cloth soaked in alcohol. Trouble may occur because of oil and grease stains.
- Carefully handle the belt because grease easily attaches to it.
- Check the rubber-used parts. If the rubber has quality deterioration or scratch marks, replace the part with a new one.

Unless especially specified, set the unit and measuring instruments as follows:

- Tape Select Switch . . . . . NORMAL
- Function Switch . . . . . TAPE
- Mode Switch . . . . . STEREO
- Beat Cancel Switch 3
- Balance Control . . . . . Center (click position)
- Tone Control . . . . . High
- Volume Control . . . . . Arbitrary
- DC Constant-Voltage Regulator Output . . . . . 9.0V DC

NOTE:

1. Perform each adjustment in the described order.
2. Obtain the output from the line output terminal.
3. Supply 9.0V DC from the constant-voltage regulator to the unit.

EQUIPMENT REQUIRED

- VTVM (2 sets)
- Frequency Counter
- Dummy Load (47k-ohm)
- Dualtrace Synchroscope
- Test Tapes
  - * 3kHz Test Tape (Example: TEAC MTT-111) for Tape Speed Adjustment
  - * 8kHz Test Tape (Example: TEAC MTT-113C) for Head Azimuth Adjustment
- DC Constant-Voltage Regulator
- Alignment Tool

AMSS SOLENOID ADJUSTMENT

AMSS (Automatic Music Select System) detects a silent space (unrecorded portion) between each music on a music tape and automatically plays back a desired music from the start.

NOTE:

Unrecorded portion should last more than approximately four seconds.

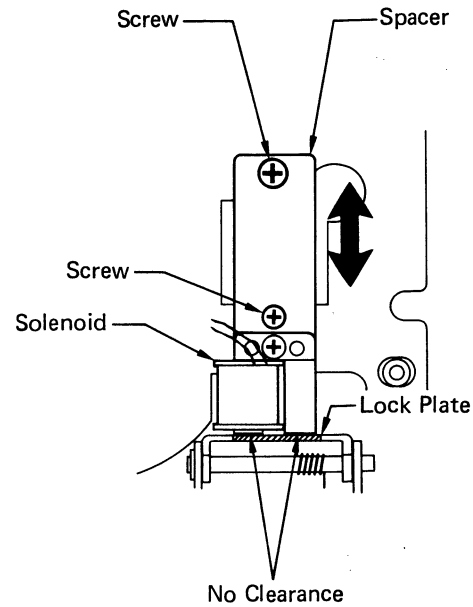
It may not operate correctly in the following cases:

* When the recorded sound is often interrupted as in a speech tape.
* When the silent space does not last long enough (less than four seconds).
* When there is an appreciable noise in the silent space between two adjacent programs.
* When the unit is placed on a television set, AMSS may not operate correctly due to adverse effect of the TV signal. In this case, put the unit away from the television set.

If AMSS Solenoid is not correctly positioned, AMSS mechanism does not function correctly, F.FWD or Rewind button is released while Automatic Music Select System is working, or a button may not be locked. In this case, perform the adjustment as follows:

1. Remove the Chassis from the unit by following its removal instructions.

2. Loosen the two screws fastening the Spacer of the Solenoid. Then, adjust the Spacer by moving it in the direction of the arrow, so that the Lock Plate is tightly attached to the two absorption surfaces as illustrated.



3. After the adjustment, tighten the screws fastening the Spacer. Set the unit in the playback mode and check that AMSS mechanism functions correctly as follows:
   * Check if F.FWD button can be locked by pressing it.
   * Check if Rewind button can be locked by pressing it.

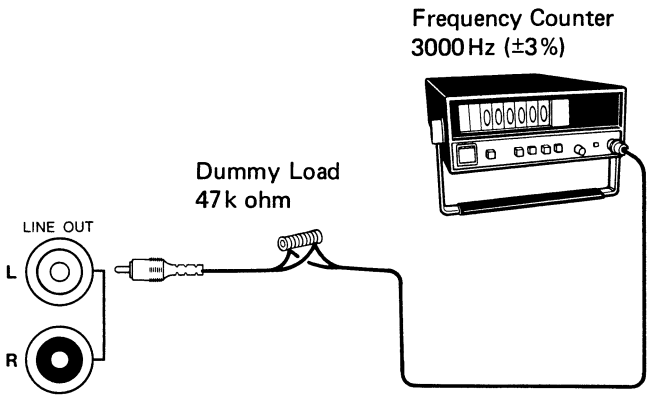
4. Readjust the spacer position if either F.FWD or Rewind button cannot be locked or is soon released.

5. After the confirmation, secure the screws fastening the Spacer with paint or glue.

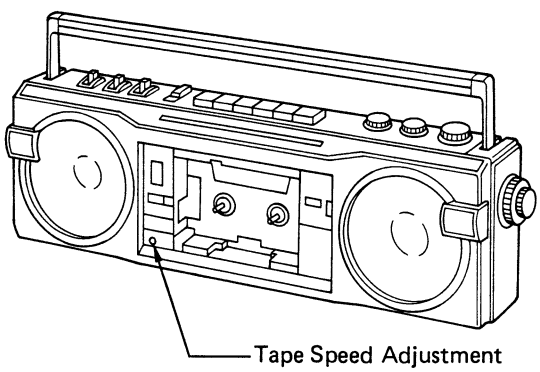
ADJUSTMENTS (Continued)

TAPE SPEED ADJUSTMENT

1. Remove the cassette compartment lid and connect a frequency counter to the left or right channel LINE OUT as illustrated. Then, play back a 3kHz test tape (Example: TEAC MTT-111).

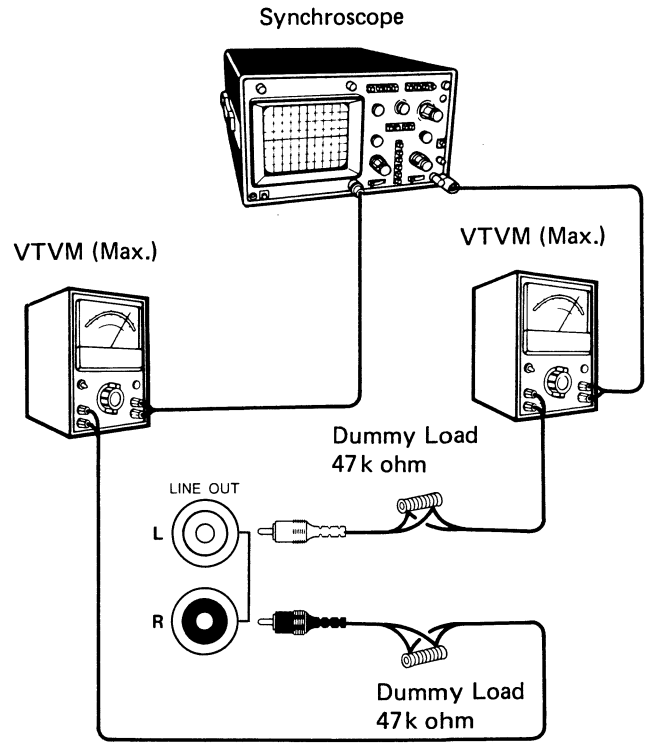


2. Adjust the tape speed by turning the potentiometer inside the Motor with an alignment tool until the frequency counter reads 3kHz (±10Hz).



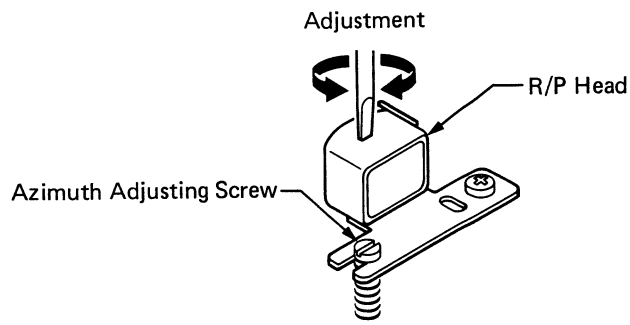
HEAD AZIMUTH ADJUSTMENT

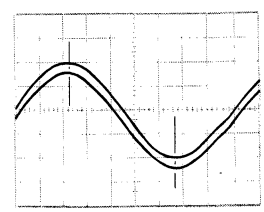
1. Remove the cassette compartment lid and connect a VTVM and a dualtrace synchroscope to both channels LINE OUT as illustrated. Set the synchroscope as follows:
   * MODE . . . . . CHOP
   * SOURCE . . . . . INT. (CH1 or CH2)
   * SWEEP MODE . . . . . AUTO (automatic)



2. Insert a 8kHz test tape (Example: TEAC MTT-113C) into the cassette compartment and play it back.

3. Slowly turn the azimuth adjusting screw until the amplitudes of both channel signal wave forms are at maximum and both wave forms overlap. Set to optimum at maximum reading of the VTVM.





4. After the adjustment, secure the azimuth adjusting screw with paint or glue.

TUNER ADJUSTMENT

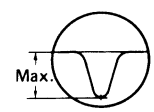
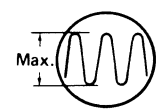
Measuring Instruments Required

- AM Signal Generator
- FM Standard Signal Generator
- Generator Scope
- Stereo Signal Generator
- Loop Antenna
- Dummy Antenna (75 ohm, unbalanced type)
- VTVM
- Frequency Counter
- Distortion Meter
- Oscilloscope
- Dummy Load (3.2 ohm)
- Alignment Tool

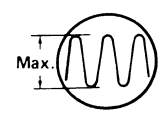
NOTE:
Use an alignment tool with plastic grip for all adjustments.

MW ALIGNMENT

Standard test frequency 400Hz and modulation 30% at AM

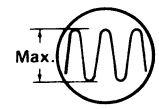
Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustments	Remarks
		INPUT	OUTPUT				
1	Calibration of IF for AM	Connect standard loop antenna to output terminal of gene-scope. Place bar antenna 60 cm away from loop antenna.	Connect input terminal of gene-scope to detector output. (CN1-2 and CN1-1 or CN1-3)	455kHz	Low End	T3, T4 and T5	Obtain symmetrical curve and maximum amplitude. 
2	Calibration of Tuning Range	Connect standard loop antenna to output of AM signal generator. Place bar antenna 60 cm away from loop antenna.	Connect VTVM with 3.2ohm dummy load and oscilloscope to Phones/Ext. Speaker terminal.	510kHz		T9	Obtain sine-wave of 400Hz and maximum amplitude. 
3				1,670kHz	High End	TC5	
4	Adjustment of Tracking			600kHz	600kHz	L4 (bar ant. coil)	
5				1,400kHz	1,400kHz	TC2	
6	Repeat the above steps until no further change is noted in any of the adjustment.						

SW1 ALIGNMENT

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustments	Remarks
		INPUT	OUTPUT				
1	Calibration of Tuning Range	Connect standard loop antenna to output of AM signal generator. Place bar antenna 60cm away from loop antenna.	Connect VTVM with 3.2ohm dummy load and oscilloscope to Phones/Ext. Speaker terminal.	2.2MHz	Low End	T8	Obtain sine-wave of 400Hz and maximum amplitude. 
2				7.5MHz	High End	TC4	
3	Adjustment of Tracking			2.5MHz	2.5MHz	L4-3 (bar ant. coil)	
4				6.5MHz	6.5MHz	TC3 (PVC)	
5	Repeat the above steps until no further change is noted in any of the adjustment.						

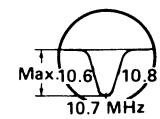
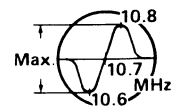
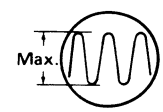
TUNER ADJUSTMENT (Continued)

SW2 ALIGNMENT

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustments	Remarks
		INPUT	OUTPUT				
1	Calibration of Tuning Range	Connect AM signal generator to antenna terminals (TP1 or TP2) through dummy antenna (30ohm/10pF).	Connect VTVM with 3.2ohm dummy load and oscilloscope to Phones/Ext. Speaker terminal.	7.2MHz	Low End	T7	Obtain sine-wave of 400Hz and maximum amplitude. 
2				23.7MHz	High End	TC3	
3	Adjustment of Tracking			8.5MHz	8.5MHz	T6	
4				21MHz	21MHz	TC1	
5	Repeat the above steps until no further change is noted in any of the adjustment.						

FM ALIGNMENT

Standard test frequency 400Hz and deviation 22.5kHz

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustments	Remarks
		INPUT	OUTPUT				
1	Calibration of IF	Connect output terminal of gene-scope to pin 3 of IC1 through capacitor (10pF)	Connect input terminal of gene-scope to detector output. (CN1-2 and CN1-1 or CN1-3)	10.7MHz	Low End	Turn T2 (blue core) fully counter-clockwise. T1	Obtain symmetrical curve and maximum amplitude. 
2						T2 (blue core)	Obtain S curve and maximum amplitude. 
3	Calibration of Tuning Range	Connect FM signal generator to antenna terminals (TP1 and TP2) through dummy antenna. (75ohm, unbalanced Type).	Connect VTVM with 3.2ohm dummy load and oscilloscope to Phones/Ext. Speaker terminal.	87.2MHz		L2	Obtain sine-curve and maximum amplitude. 
4				109MHz	High End	TC2 (PVC)	
5	Adjustment of Tracking			90MHz	90MHz	L1	
6				106MHz	106MHz	TC1 (PVC)	
7	Repeat the above steps until no further change is noted in any of the adjustment.						

FM MULTIPLEX ADJUSTMENT

Prior to the adjustment, set the unit as follows:

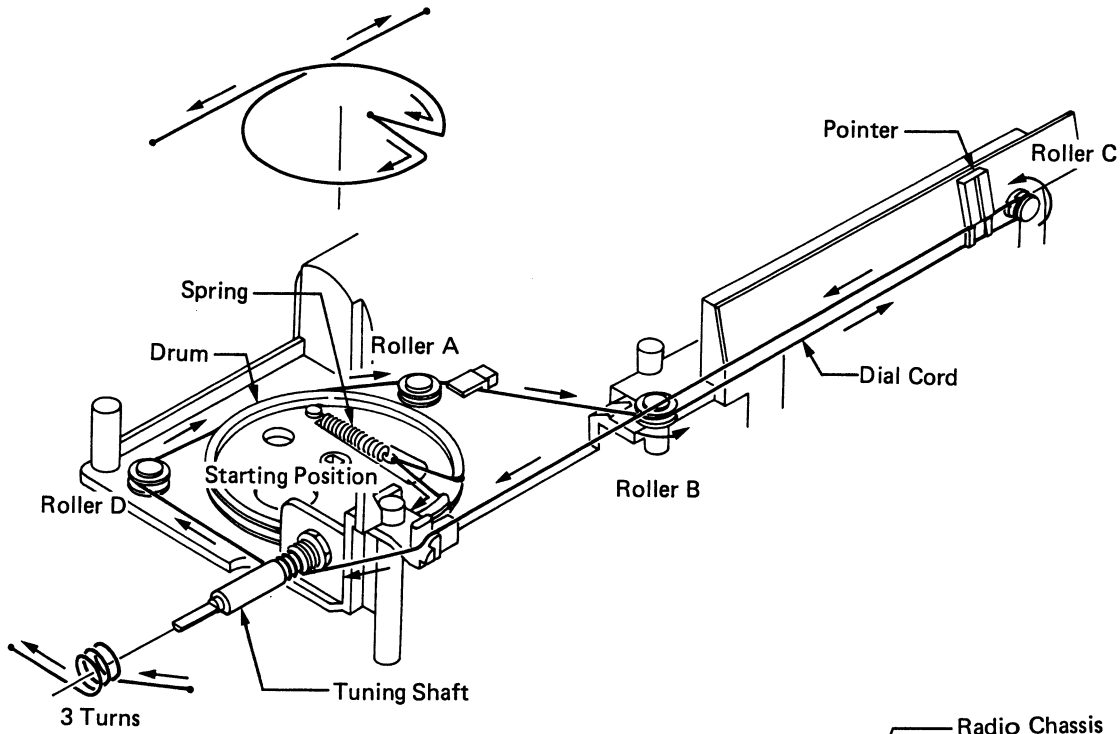
- Function Switch ..... RADIO (ON)
- Band Select Switch ..... FM
- Mode Switch ..... STEREO
- Balance Control ..... Center (click position)
- Tone Control ..... Maximum
- Volume Control ..... Center

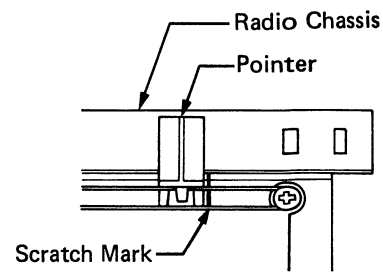
38kHz (V.C.O.) ADJUSTMENT

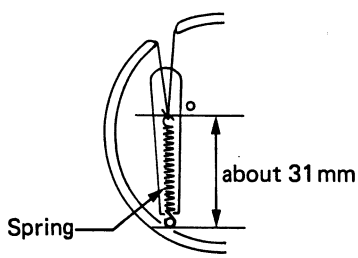
1. Connect the frequency counter to the sixteenth pin (TP7) in IC3 and a resistor (330 k-ohm) as illustrated.
2. Adjust the potentiometer (P1) until the oscillation frequency of IC3 becomes 38kHz (±20Hz).

DIAL CORD STRINGING

1. Mount the Radio Tuner P.C.Board on the Radio Chassis and then, the Drum to the shaft of the variable capacitor.
2. Tie the dial cord of length 1,070mm (effective length: 950mm) and diameter ϕ5 to the spring and hook the spring to the illustrated position of the drum.
3. Engage the dial cord as illustrated in the following order. Drum ⇒ Pulley A ⇒ Pulley B ⇒ Pulley C ⇒ Tuning Shaft (3 turns) ⇒ Pulley D ⇒ Drum ⇒ Spring
4. Hook the dial cord to the spring and tie the cord where the spring tip extends until the spring length becomes approximately 31 mm.
5. Secure the place where the spring is hooked to the drum and the knot in the dial cord with paint or glue.
6. Turn the Tuning Shaft counterclockwise until it stops and set the left edge of the pointer to the mark on the Radio Chassis as illustrated. Then, fix the pointer there.
7. Apply white lacquer to the pointer to secure.







PARTS LIST

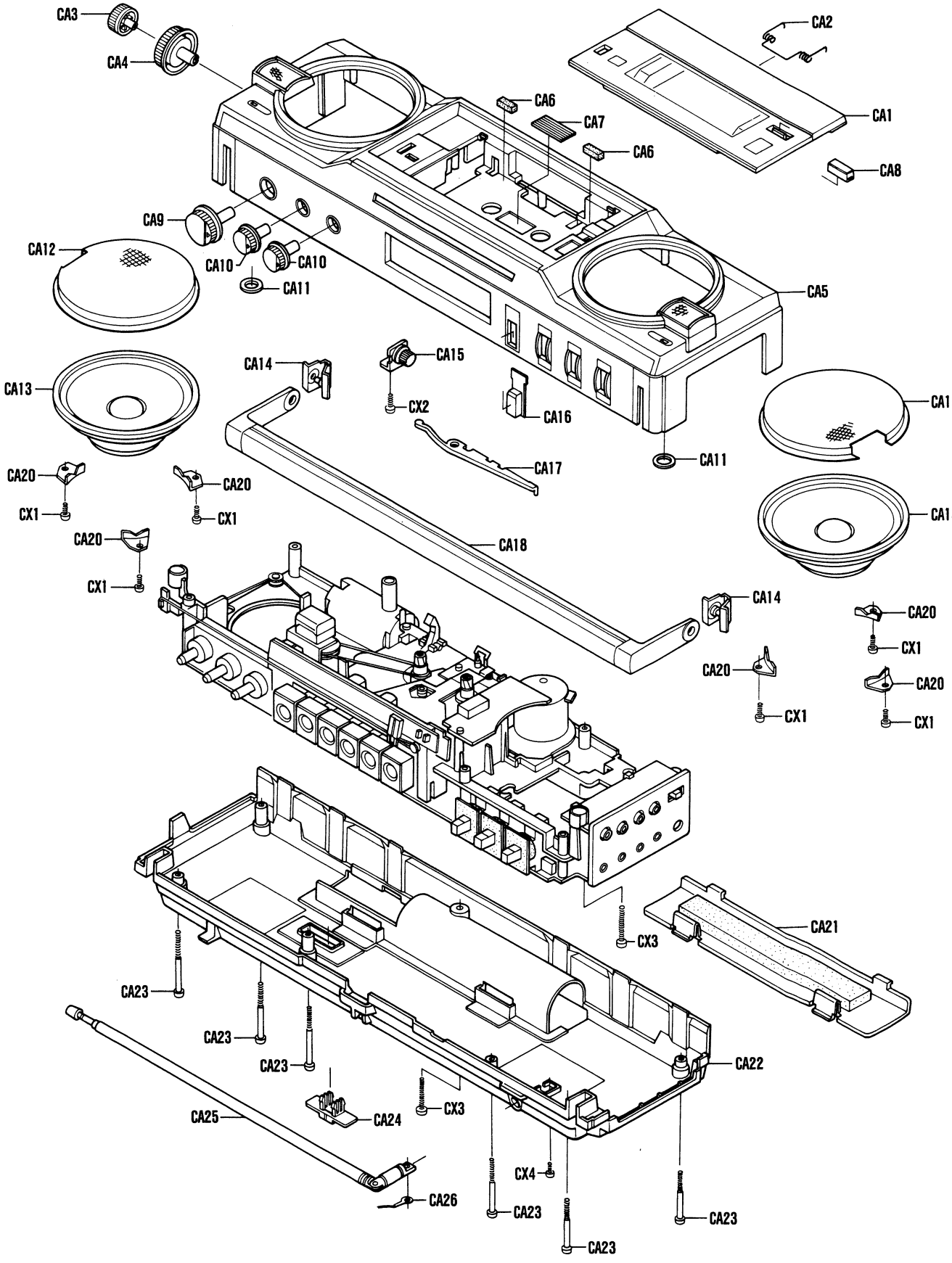
Ref. No.	Part No.	Description		Q'ty
	PACKAGE			
	141 2 1719 20300	Handle		1
	141 6 1419 65001	Individual Carton (White)		1
	141 6 1419 65004	Individual Carton (Blue)		1
	141 6 1449 82300	Styrofoam Case, Left		1
	141 6 1449 82400	Styrofoam Case, Right		1
	141 6 2519 10021	Poly Cover 100 x 210		1
	141 6 2519 15290	Poly Cover		1
	141 6 2519 23033	Poly Cover 230 x 330		1
	141 6 3119 19300	Reinforce Handle		1
	141 6 4559 00100	Serial No. Sheet		2
	ACCESSORIES			
	4 1919 71480	AC Adaptor		1
	4 2369 72251	Adaptor Plug Assy		1
	4 2419 72492	Cassette		1
	141 6 4729 01900	Caution Label		1
	141 6 4729 32400	POP Label		1
	142 6 4119 31632	Instruction Manual		1
	CABINET			
	4 2359 70990	RT Pin Socket		2
CN3	4 2359 75727	Connector 4P Assy		1
CN5	4 2359 75758	Connector 3P Assy		1
CA1	141 0 1249 23201	Cassette Lid Assy (White)		1
CA1	141 0 1249 23204	Cassette Lid Assy (Blue)		1
CA2	141 2 8529 06200	Spring, Cassette Lid		1
CA3	141 2 1639 44300	Fine Tuning Knob		1
CA4	141 2 1639 44200	Tuning Knob		1
CA5	141 0 1119 88801	Cabinet Top Completed (Speaker (300Ω) [SP102 & SP202] is Included) (White)		1
CA5	141 0 1119 88804	Cabinet Top Completed (Speaker (300Ω) [SP102 & SP202] is Included) (Blue)		1
CA6	141 2 4469 36500	Cushion		2
CA7	141 2 1519 24700	Reflector		1
CA8	141 2 1659 09300	AMSS Button		1
CA9	141 2 1639 51100	Volume Knob		1
CA10	141 2 1639 51000	Tone Knob		2
CA11	141 2 4469 31700	Cushion, Mike		2
CA12	141 2 1149 29200	Screen, Speaker (Right)		1
CA13	4 1519 71084	Speaker (3.2Ω) [SP101 & SP201]		2
CA14	141 2 2719 18500	Handle Holder		2
CA15	141 0 5519 08500	Eject Gear Assy		1
CA16	141 2 1659 09400	Rec. Mute Knob		1
CA17	141 2 7419 77200	Cassette Lid Lock		1
CA18	141 0 1719 10400	Handle Assy (White)		1
CA18	141 0 1719 10403	Handle Assy (Blue)		1
CA19	141 2 1149 29201	Screen, Speaker (Left)		1
CA20	141 2 3729 00801	Fix Speaker Bracket		6
CA21	141 0 1339 09703	Battery Lid Assy (White)		1
CA21	141 0 1339 09706	Battery Lid Assy (Blue)		1
CA22	141 2 1119 84801	Cabinet Bottom (White)		1
CA22	141 2 1119 84804	Cabinet Bottom (Blue)		1
CA23	141 2 4219 09800	Screw		6
CA24	141 2 1649 12900	Band Select Knob		1
CA25	4 2449 70330	Antenna Rod		1
CA26	141 2 4729 03001	Lug		1
CX1	102 3 1303 01011	Screw, Pan Hd. Tapping-1	+M3.0x10	6
CX2	102 3 1302 60811	Screw, Pan Hd. Tapping-1	+M2.6x8	1
CX3	143 3 1303 03018	Screw, Pan Hd. Tapping-B	+M3.0x30	2
CX4	101 3 1302 60614	Screw, Pan Hd. (White)	+M2.6x6	1
CX4	101 3 1302 60618	Screw, Pan Hd. (Blue)	+M2.6x6	1

Ref. No.	Part No.	Description		Q'ty
	RADIO CHASSIS			
DC1	141 2 8119 09701	Counter		1
DC2	141 2 5649 11700	Counter Belt		1
DC3	141 2 8139 09500	Counter Bracket		1
DC4	141 2 8519 29400	Spring, Stop Lever		1
DC5	141 2 3519 57700	Bracket Eject Arm		1
DC6	141 2 4729 04000	Lug		1
DC7	141 2 2449 45400	Sheet		1
DC8	4 1329 78400	AMSS Program P.C.B. Assy **[See PCB3]**		1
DC9	141 2 8519 78000	Spring, Stop		1
DC10	141 2 5389 03400	Drum		1
DC11	4 2249 70300	Fine Tuner [FT1]		1
DC12	4 1329 78420	Jack P.C.B. Assy **[See PCB6]**		1
DC13	141 2 3679 31501	Jack Plate (White)		1
DC13	141 2 3679 31506	Jack Plate (Blue)		1
DC14	4 1539 70661	Microphone [BM1 & BM2]		2
DC15	141 2 4219 14000	Screw		4
DC16	141 2 5519 03300	Dial Roller A		3
DC17	141 2 3119 18100	Radio Chassis		1
DC18	141 2 1449 52900	Dial Plate (White)		1
DC18	141 2 1449 52902	Dial Plate (Blue)		1
DC19	141 2 8259 04700	Dial Roller		1
DC20	4 1329 78530	Volume P.C.B. Assy **[See PCB5]**		1
DC21	141 2 3829 18000	Spring, Terminal		1
DC22	141 2 5119 08100	Pointer		1
DC23	4 1329 78410	LED Indicator P.C.B. Assy **[See PCB4]**		1
DC24	141 2 3829 06700	Terminal Battery Anode		1
DC25	141 2 3829 20800	Spring, Battery		1
DC26	4 1259 71870	Radio Tuner P.C.B. Assy **[See PCB2]**		1
DC27	4 1329 78391	Amplifier P.C.B. Assy **[See PCB1]**		1
DC28	141 2 4469 42500	Cushion, Screen Switch		1
DC29	141 2 2449 45100	Screen Switch		1
DC30	141 2 1629 06800	Function Knob		3
DY1	102 3 1302 61411	Screw, Pan Hd. Tapping-1	+M2.6x14	3
DY2	101 3 1302 00311	Screw, Pan Hd.	+M2.0x3	1
DY3	102 3 1302 60811	Screw, Pan Hd. Tapping-1	+M2.6x8	5
DY4	102 3 1302 60818	Screw, Pan Hd. Tapping-1	+M2.6x8	2
DY5	102 3 1302 61011	Screw, Pan Hd. Tapping-1	+M2.6x10	3
DY6	102 3 1703 00811	Screw, Bind Hd. Tapping-1	+M3.0x8	1

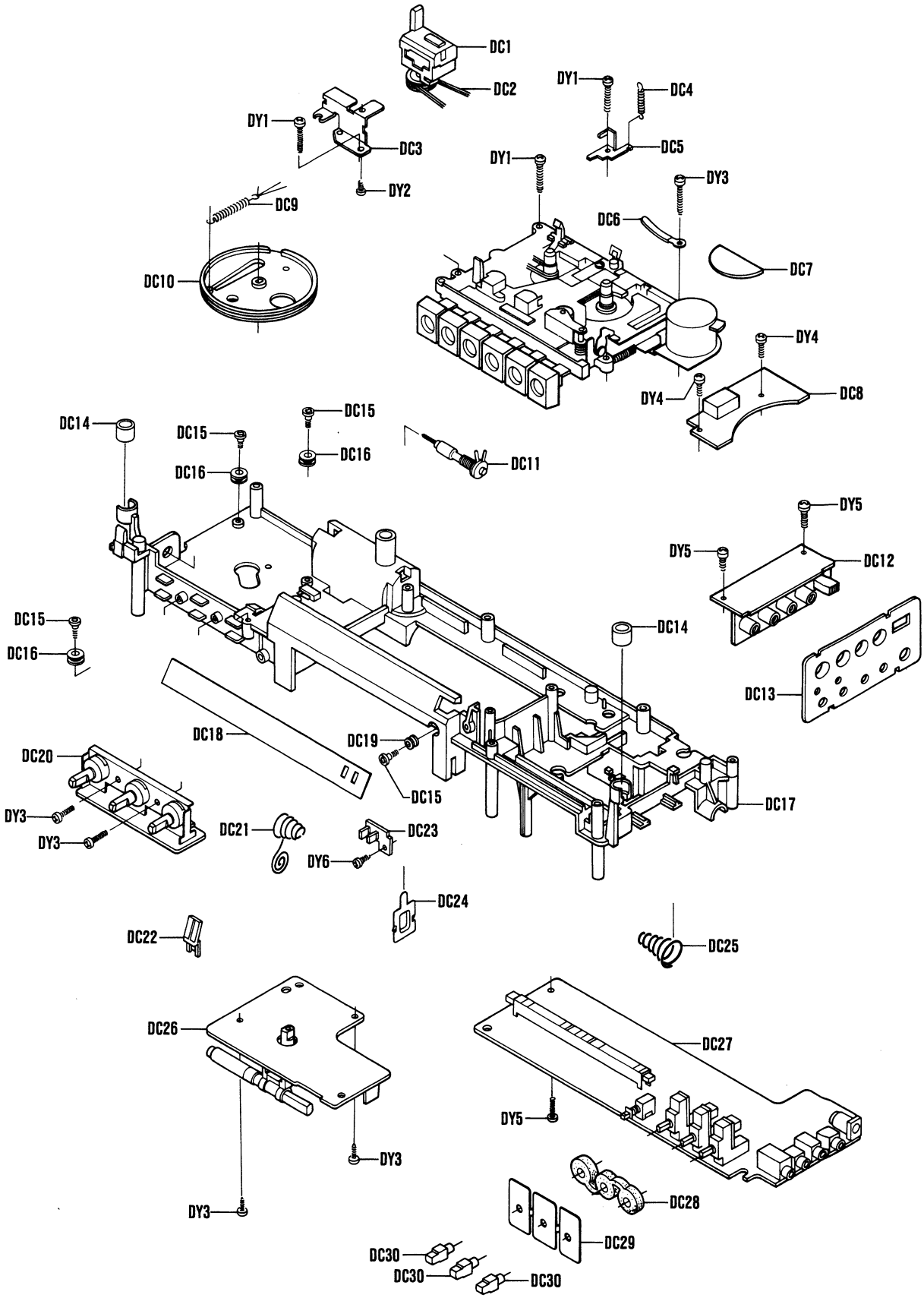
NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

CABINET EXPLODED VIEW



RADIO CHASSIS EXPLODED VIEW



MECHANISM PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	MECHANISM		
MC1	141 0 3119 19902	Chassis Assy	1
MC2	141 2 8549 10700	Spring, Slide Base	1
MC3	141 2 8519 97300	Spring, Interlock	1
MC4	141 2 8419 10400	Interlock Lever	1
MC5	141 2 8529 07300	Spring, Idler Arm	1
MC6	141 2 7419 74900	Cassette-up Lever	1
MC7	141 2 8549 08700	Spring, Brake	1
MC8	141 2 7149 05200	Brake Arm	1
MC9	141 2 4459 25200	Brake Cover	2
MC10	141 2 7319 43202	Slide Base	1
MC11	4 2319 72121	Leaf Switch (Power) [S11]	1
MC12	141 2 7419 68800	Sensor Lever	1
MC13	141 2 3529 29400	Spacer, Head	1
MC14	141 2 8519 47400	Spring, Head	1
MC15	4 2429 72190	R/P Head [HD1]	1
MC16	141 2 4729 01900	Lug	1
※MC17	4 2429 72200	Erase Head [HD2]	1
MC18	141 2 5519 36400	F.FWD Gear	1
MC19	141 2 4539 09400	Washer	3
MC20	141 2 8559 01800	Spring, Supply	1
MC21	141 0 5319 05400	Supply Reel Assy	1
MC22	141 2 4539 15700	Washer	2
MC23	141 0 5319 05301	Take-up Reel Assy	1
MC24	141 2 8539 45200	Spring, Cassette	1
MC25	141 2 8539 41102	Spring, Cassette	1
MC26	141 2 8519 96901	Spring, Cassette-up	1
MC27	141 0 5419 03200	Pinch Roller Assy	1
MC28	141 2 8519 97200	Spring, Pinch Roller	1
MC29	141 2 4219 13201	Screw w/Washer	1
MC30	141 0 7319 24201	Eject Plate Assy	1
MC31	141 2 8519 38700	Spring, Head Lever	1
MC32	4 5279 71173	Motor [M1]	1
MC33	141 2 3789 08700	Bracket, Motor	1
MC34	141 2 4459 11800	Cushion, Motor	3
MC35	141 2 3529 19900	Spacer, Motor	3
MC36	141 2 8429 06100	Record Switch Lever	1
MC37	141 2 8519 78000	Spring, Stop	1
MC38	141 2 4539 17200	Washer	1
MC39	141 2 7319 49300	Lock Plate	1
MC40	141 2 5519 36500	Take-up Gear	1
MC41	141 0 7439 09200	Take-up Arm Assy	1
MC42	141 2 8519 33000	Spring, Index Lock Lever	1
MC43	141 2 7419 75500	Shut-off Lever	1
MC44	141 2 7439 26200	Record Stopper Lever	1
MC45	141 2 1619 91300	Record Button	1
MC46	141 2 7319 50000	Record Rod	1
MC47	141 2 1619 91200	Play Button	1
MC48	141 2 7319 49900	Play Rod	1
MC49	141 2 1619 91100	Select Button	3
MC50	141 2 7319 49800	Rewind Rod	1
MC51	141 2 7319 49700	F.FWD Rod	1
MC52	141 0 7319 25200	Pause Rod Assy	1
MC53	141 2 4219 12100	Screw w/Washer	1
MC54	141 2 1619 91400	Stop Button	1
MC55	141 2 7319 49500	Stop Eject Rod	1
MC56	141 2 8529 05800	Lock Spring, Lever	1
MC57	141 2 7419 76500	Lock Lever	1
MC58	141 2 7519 55300	Spindle Lock Lever	1
MC59	141 2 3519 57100	Bracket Plate	1
MC60	141 2 8549 10600	Spring, Play Rod	1
MC61	141 2 8549 10800	Spring, Sensor	1
MC62	141 2 8519 25400	Spring, Click	1
MC63	141 2 8529 05500	Spring, Rod	1
MC64	141 2 8529 05400	Spring, Rod	1
MC65	141 2 8529 05401	Spring, Pause Rod	1
MC66	141 2 8529 05600	Spring, Record Stopper	1
MC67	141 2 7419 75800	Pause Lock Lever	1
MC68	141 2 8529 05700	Spring, Pause Lock	1
MC69	141 2 4539 15800	Washer	2
MC70	141 2 5519 36600	Capstan Gear	1
MC71	141 2 8519 98200	Spring, Flywheel	1
MC72	141 0 5219 07201	Flywheel Assy	1
MC73	141 2 5649 20900	Capstan Belt	1
MC74	141 0 3519 20100	Flywheel Support Assy	1
MC75	141 2 8529 07200	Spring, Ground	1
MC76	141 2 4729 00200	Lug	1
MC77	4 2649 70344	Solenoid [SL1]	1
MC78	141 2 3769 12100	Spacer Solenoid	1
MC79	4 2319 74990	Leaf Switch (AMSS Switch B) [S10]	1
MC80	4 2319 72570	Leaf Switch (AMSS Switch A) [S9]	1
MC81	141 2 4539 12100	Washer Spindle	2
MC82	141 2 5519 36701	Idler Pulley Gear	1
MC83	141 0 7439 10400	Idler Arm Assy	1
MC84	141 2 8259 09100	Roller	1
MZ1	112 3 1304 00082	E Ring M4.0	1
MZ2	103 3 1302 00811	Screw, Pan Hd. Tapping-2 +M2.0x8	3
MZ3	101 3 1702 00611	Screw, Bind Hd. +M2.0x6	1
MZ4	101 3 2502 00611	Screw, Cylinder Hd. -M2.0x6	1
MZ5	101 3 1702 00811	Screw, Bind Hd. +M2.0x8	2
MZ6	143 3 1702 60811	Screw, Bind Hd. Tapping-B +M2.6x8	4
MZ7	112 3 1302 00082	E Ring M2.0	1
MZ8	102 3 1302 60811	Screw, Pan Hd. Tapping-1 +M2.6x8	1
MZ9	101 3 1302 60811	Screw, Pan Hd. +M2.6x8	3
MZ10	112 3 1706 30040	Grip Ring M6.3	1
MZ11	102 3 1302 00611	Screw, Pan Hd. Tapping-1 +M2.0x6	1
MZ12	112 3 1301 20082	E Ring M1.2	1
MZ13	101 3 1302 00811	Screw, Pan Hd. +M2.0x8	1
MZ14	101 3 1302 00411	Screw, Pan Hd. +M2.0x4	1
MZ15	101 3 1702 00411	Screw, Bind Hd. +M2.0x4	1

NOTES:

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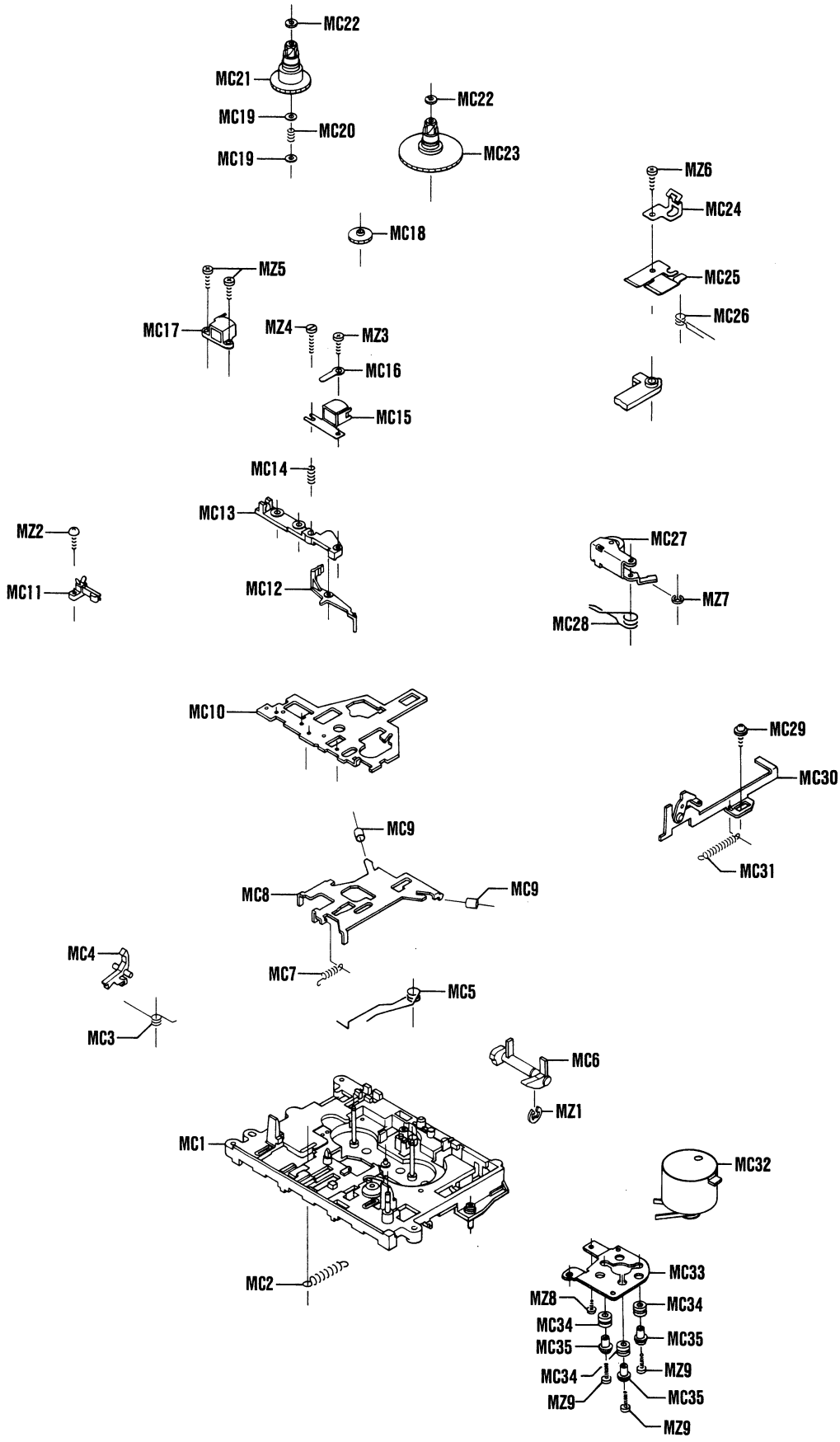
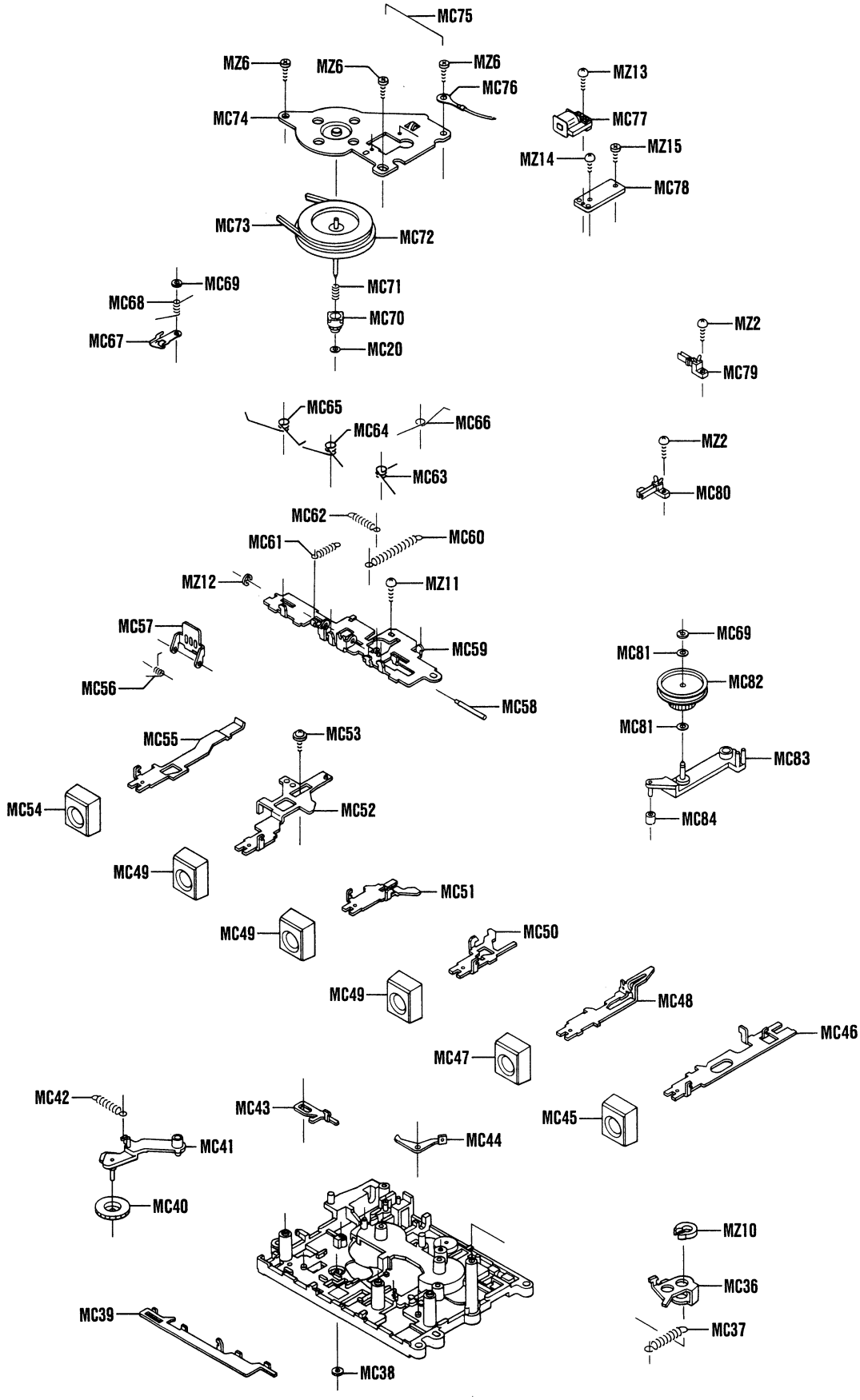
MECHANISM EXPLODED VIEW



MECHANISM EXPLODED VIEW (Continued)



P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description			Q'ty
	AMPLIFIER P.C.B. ASSY				
PCB1	4 1329 78391	Amplifier P.C.B. Assy			1
	141 2 3689 08400	Radiator IC (for IC [302])			1
CN1	4 2359 75669	Connector 5P Assy			1
CN2	4 2369 73380	Connector 5P			1
CN3	4 2369 73370	Connector 4P			1
CN5	4 2369 73360	Connector 3P			1
S2	4 2319 75700	Slide Switch (Record/Play)			1
S3	4 2319 75710	Push Switch (Rec. Mute)			1
S4	4 2319 75341	Lever Switch (Tape Select)			1
S5	4 2319 75341	Lever Switch (Function)			1
S6	4 2319 72462	Lever Switch (Mode)			1
J1	4 2359 71780	Jack 1P (Mike, Left)			1
J2	4 2359 73470	1P Jack (Mike, Right)			1
J3	4 2359 75701	Jack 5P With Switch (Headphones)			1
J4	4 2359 75800	Jack 5P (Phones/Ext. Speaker)			1
J5	4 2359 72954	Ext. Power Socket			1
L101	4 2729 70480	Coil (33mH)			1
L201	4 2729 70480	Coil (33mH)			1
L301	4 2539 70301	Micro Inductor (100μH)			1
L302	4 2539 70301	Micro Inductor (100μH)			1
L303	4 2532 00470	Choke Coil (470μH)			1
D101	4 2029 71440	Diode, 1SS95			1
D102	4 2029 71440	Diode, 1SS95			1
D103	4 2029 71440	Diode, 1SS95			1
D104	4 2029 71440	Diode, 1SS95			1
D201	4 2029 71440	Diode, 1SS95			1
D202	4 2029 71440	Diode, 1SS95			1
D203	4 2029 71440	Diode, 1SS95			1
D204	4 2029 71440	Diode, 1SS95			1
D301	202 5 2470 13540	Diode, DS135			1
D302	4 2029 72210	Diode, MTZ6.8A			1
D303	202 5 9110 18820	Diode, 1S 188			1
Q101	203 5 5000 53664	Transistor, 2SC 536			1
Q201	203 5 5000 53664	Transistor, 2SC 536			1
Q301	203 5 5000 53664	Transistor, 2SC 536			1
Q302	203 5 4570 73460	Transistor, 2SD 734			1
Q303	203 5 5000 53654	Transistor, 2SC 536			1
Q304	203 5 4570 73460	Transistor, 2SD 734			1
Q305	203 5 5000 53664	Transistor, 2SC 536			1
Q306	203 5 5000 53664	Transistor, 2SC 536			1
Q307	203 5 5000 53664	Transistor, 2SC 536			1
Q308	203 5 5000 53664	Transistor, 2SC 536			1
IC301	4 2069 71710	IC, M51544L			1
IC302	206 5 1384 19210	IC, LA4192			1
C101	CD1 0 4500 0002V	Electrolytic	0.1μF	50V	1
C102	CC4 7 2500 KE00C	Ceramic	0.0047μF	50V ±10%	1
C103	CC1 8 1500 JD00C	Ceramic	180pF	50V ±5%	1
C104	CC3 3 2500 KE00C	Ceramic	0.0033μF	50V ±10%	1
C105	CC3 3 1500 KE00C	Ceramic	330pF	50V ±10%	1
C106	CC3 3 1500 KE00C	Ceramic	330pF	50V ±10%	1
C107	CC1 0 2500 KE00C	Ceramic	0.001μF	50V ±10%	1
C108	CD1 0 7100 0001V	Electrolytic	100μF	10V	1
C109	CC1 0 2500 KE00C	Ceramic	0.001μF	50V ±10%	1
C110	CD1 0 6160 0000V	Electrolytic	10μF	16V	1
C111	CD1 0 4500 0002V	Electrolytic	0.1μF	50V	1
C112	CM3 3 3500 K00SV	Mylar	0.033μF	50V ±10%	1
C113	CD1 0 5500 0000V	Electrolytic	1μF	50V	1
C114	CC4 7 1500 KE00C	Ceramic	470pF	50V ±10%	1
C115	CD1 0 5500 0000V	Electrolytic	1μF	50V	1
C116	CC1 0 2500 KE00C	Ceramic	0.001μF	50V ±10%	1
C117	CI8 2 3250 KF00C	Boundary	0.082μF	25V ±10%	1
C121	CC1 0 2500 KE00C	Ceramic	0.001μF	50V ±10%	1
C122	CD4 7 6100 0001V	Electrolytic	47μF	10V	1

Ref. No.	Part No.	Description			Q'ty
C123	CD4 7 6100 0001V	Electrolytic	47μF	10V	1
C124	4 2239 70650	Capacitor	2200μF	10V	1
C125	CM1 5 4500 K00SV	Mylar	0.15μF	50V ±10%	1
C126	CC3 3 1500 KE00C	Ceramic	330pF	50V ±10%	1
C127	CC2 2 0500 KD00C	Ceramic	22pF	50V ±10%	1
C128	CC1 8 1500 KE00C	Ceramic	180pF	50V ±10%	1
C129	CC2 2 1500 KE00C	Ceramic	220pF	50V ±10%	1
C201	CD1 0 4500 0002V	Electrolytic	0.1μF	50V	1
C202	CC4 7 2500 KE00C	Ceramic	0.0047μF	50V ±10%	1
C203	CC1 8 1500 JD00C	Ceramic	180pF	50V ±5%	1
C204	CC3 3 2500 KE00C	Ceramic	0.0033μF	50V ±10%	1
C205	CC3 3 1500 KE00C	Ceramic	330pF	50V ±10%	1
C206	CC3 3 1500 KE00C	Ceramic	330pF	50V ±10%	1
C207	CC1 0 2500 KE00C	Ceramic	0.001μF	50V ±10%	1
C208	CD1 0 7100 0001V	Electrolytic	100μF	10V	1
C209	CC1 0 2500 KE00C	Ceramic	0.001μF	50V ±10%	1
C210	CD1 0 6160 0000V	Electrolytic	10μF	16V	1
C211	CD1 0 4500 0002V	Electrolytic	0.1μF	50V	1
C212	CM3 3 3500 K00SV	Mylar	0.033μF	50V ±10%	1
C213	CD1 0 5500 0000V	Electrolytic	1μF	50V	1
C214	CC4 7 1500 KE00C	Ceramic	470pF	50V ±10%	1
C215	CD1 0 5500 0000V	Electrolytic	1μF	50V	1
C216	CC1 0 2500 KE00C	Ceramic	0.001μF	50V ±10%	1
C217	CI8 2 3250 KF00C	Boundary	0.082μF	25V ±10%	1
C221	CC1 0 2500 KE00C	Ceramic	0.001μF	50V ±10%	1
C222	CD4 7 6100 0001V	Electrolytic	47μF	10V	1
C223	CD4 7 6100 0001V	Electrolytic	47μF	10V	1
C224	4 2239 70650	Capacitor	2200μF	10V	1
C225	CM1 5 4500 K00SV	Mylar	0.15μF	50V ±10%	1
C226	CC3 3 1500 KE00C	Ceramic	330pF	50V ±10%	1
C227	CC2 2 0500 KD00C	Ceramic	22pF	50V ±10%	1
C228	CC1 8 1500 KE00C	Ceramic	180pF	50V ±10%	1
C229	CC2 2 1500 KE00C	Ceramic	220pF	50V ±10%	1
C301	CD4 7 6100 0001V	Electrolytic	47μF	10V	1
C302	CD3 3 5500 0000V	Electrolytic	3.3μF	50V	1
C303	CD2 2 7100 0001V	Electrolytic	220μF	10V	1
C304	CD4 7 4500 0000V	Electrolytic	0.47μF	50V	1
C305	CC4 7 1500 KE00C	Ceramic	470pF	50V ±10%	1
C306	CD1 0 5500 0000V	Electrolytic	1μF	50V	1
C307	CD2 2 7100 0001V	Electrolytic	220μF	10V	1
C308	CD1 0 7100 0001V	Electrolytic	100μF	10V	1
C309	CD1 0 7160 0001V	Electrolytic	100μF	16V	1
C310	CD1 0 8160 0001V	Electrolytic	1000μF	16V	1
C311	CD4 7 7100 0001V	Electrolytic	470μF	10V	1
C312	CD2 2 7100 0001V	Electrolytic	220μF	10V	1
C313	CD1 0 7100 0001V	Electrolytic	100μF	10V	1
C314	CD1 0 5500 0000V	Electrolytic	1μF	50V	1
C315	CC4 7 0500 KD00C	Ceramic	47pF	50V ±10%	1
C316	CD2 2 4500 0002V	Electrolytic	0.22μF	50V	1
C317	CD2 2 4500 0002V	Electrolytic	0.22μF	50V	1
C318	CD1 0 6160 0000V	Electrolytic	10μF	16V	1
C319	CD1 0 5500 0000V	Electrolytic	1μF	50V	1
C320	CD1 0 6160 0000V	Electrolytic	10μF	16V	1
C321	CC2 7 1500 KE00C	Ceramic	270pF	50V ±10%	1
C322	CM1 0 3500 K00SV	Mylar	0.01μF	50V ±10%	1
※C323	CP1 0 3101 G800V	Polypropylen	0.01μF	100V ±2%	1
C324	CM1 0 4500 J00SV	Mylar	0.1μF	50V ±5%	1
C325	CD1 0 6160 0000V	Electrolytic	10μF	16V	1
C326	CD1 0 6160 0000V	Electrolytic	10μF	16V	1
C327	CC3 9 1500 KE00C	Ceramic	390pF	50V ±10%	1
C328	CD3 3 5500 0000V	Electrolytic	3.3μF	50V	1
C332	CC1 0 1500 KD00C	Ceramic	100pF	50V ±10%	1
R101	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W ±5%	1
R102	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W ±5%	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
R103	RP3 3 2121 JH000	Pretty Carbon	3.3kΩ	1/8W	±5%	1
R104	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R105	RP1 0 0121 JH000	Pretty Carbon	10Ω	1/8W	±5%	1
R106	RD8 2 3251 JM000	Carbon	82kΩ	1/4W	±5%	1
R107	RD6 8 3251 JM000	Carbon	68kΩ	1/4W	±5%	1
R108	RP7 5 2121 JH000	Pretty Carbon	7.5kΩ	1/8W	±5%	1
R109	RP2 7 3121 JH000	Pretty Carbon	27kΩ	1/8W	±5%	1
R110	RP2 7 3121 JH000	Pretty Carbon	27kΩ	1/8W	±5%	1
R111	RP1 5 2121 JH000	Pretty Carbon	1.5kΩ	1/8W	±5%	1
R112	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R113	RP2 2 3121 JH000	Pretty Carbon	22kΩ	1/8W	±5%	1
R114	RP8 2 2121 JH000	Pretty Carbon	8.2kΩ	1/8W	±5%	1
R115	RP6 8 4121 JH000	Pretty Carbon	680kΩ	1/8W	±5%	1
R116	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	±5%	1
R117	RP1 0 4121 JH000	Pretty Carbon	100kΩ	1/8W	±5%	1
R118	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	±5%	1
R119	RP1 8 4121 JH000	Pretty Carbon	180kΩ	1/8W	±5%	1
R120	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R121	RP3 3 1121 JH000	Pretty Carbon	330Ω	1/8W	±5%	1
R123	RP1 8 3121 JH000	Pretty Carbon	18kΩ	1/8W	±5%	1
R124	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W	±5%	1
R126	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R127	RP8 2 0121 JH000	Pretty Carbon	82Ω	1/8W	±5%	1
R128	RP2 7 3121 JH000	Pretty Carbon	27kΩ	1/8W	±5%	1
R129	RH4 7 0501 JH000	Metal	47Ω	1/2W	±5%	1
R130	RP4 7 0121 JH000	Pretty Carbon	47Ω	1/8W	±5%	1
R131	RP3 3 3121 JH000	Pretty Carbon	33kΩ	1/8W	±5%	1
R132	RP1 8 3121 JH000	Pretty Carbon	18kΩ	1/8W	±5%	1
R133	RP1 5 3121 JH000	Pretty Carbon	15kΩ	1/8W	±5%	1
R134	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W	±5%	1
R136	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	±5%	1
R201	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	±5%	1
R202	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	±5%	1
R203	RD3 3 2251 JM000	Carbon	3.3kΩ	1/4W	±5%	1
R204	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R205	RP1 0 0121 JH000	Pretty Carbon	10Ω	1/8W	±5%	1
R206	RD8 2 3251 JM000	Carbon	82kΩ	1/4W	±5%	1
R207	RP6 8 3121 JH000	Pretty Carbon	68kΩ	1/8W	±5%	1
R208	RP7 5 2121 JH000	Pretty Carbon	7.5kΩ	1/8W	±5%	1
R209	RP2 7 3121 JH000	Pretty Carbon	27kΩ	1/8W	±5%	1
R210	RP2 7 3121 JH000	Pretty Carbon	27kΩ	1/8W	±5%	1
R211	RP1 5 2121 JH000	Pretty Carbon	1.5kΩ	1/8W	±5%	1
R212	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R213	RP2 2 3121 JH000	Pretty Carbon	22kΩ	1/8W	±5%	1
R214	RP8 2 2121 JH000	Pretty Carbon	8.2kΩ	1/8W	±5%	1
R215	RP6 8 4121 JH000	Pretty Carbon	680kΩ	1/8W	±5%	1
R216	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	±5%	1
R217	RP1 0 4121 JH000	Pretty Carbon	100kΩ	1/8W	±5%	1
R218	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	±5%	1
R219	RP1 8 4121 JH000	Pretty Carbon	180kΩ	1/8W	±5%	1
R220	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R221	RP3 3 1121 JH000	Pretty Carbon	330Ω	1/8W	±5%	1
R223	RP1 8 3121 JH000	Pretty Carbon	18kΩ	1/8W	±5%	1
R224	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W	±5%	1
R226	RD2 2 2251 JM000	Carbon	2.2kΩ	1/4W	±5%	1
R227	RP8 2 0121 JH000	Pretty Carbon	82Ω	1/8W	±5%	1
R228	RP2 7 3121 JH000	Pretty Carbon	27kΩ	1/8W	±5%	1
R229	RH4 7 0501 JH000	Metal	47Ω	1/2W	±5%	1
R230	RP4 7 0121 JH000	Pretty Carbon	47Ω	1/8W	±5%	1
R231	RP3 3 3121 JH000	Pretty Carbon	33kΩ	1/8W	±5%	1
R232	RP1 8 3121 JH000	Pretty Carbon	18kΩ	1/8W	±5%	1
R233	RP1 5 3121 JH000	Pretty Carbon	15kΩ	1/8W	±5%	1
R234	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W	±5%	1
R236	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	±5%	1

Ref. No.	Part No.	Description				Q'ty
R301	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	±5%	1
R302	RD1 0 1251 JM000	Carbon	100Ω	1/4W	±5%	1
R303	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	±5%	1
R304	RD1 0 2251 JM000	Carbon	1kΩ	1/4W	±5%	1
R305	RP4 7 4121 JH000	Pretty Carbon	470kΩ	1/8W	±5%	1
R306	RP3 3 2121 JH000	Pretty Carbon	3.3kΩ	1/8W	±5%	1
R307	RP6 8 0121 JH000	Pretty Carbon	68Ω	1/8W	±5%	1
R308	RP6 8 2121 JH000	Pretty Carbon	6.8kΩ	1/8W	±5%	1
R309	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	±5%	1
R310	RP5 6 A121 JH000	Pretty Carbon	5.6Ω	1/8W	±5%	1
R311	RP2 2 1121 JH000	Pretty Carbon	220Ω	1/8W	±5%	1
R312	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	±5%	1
R313	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R314	RP3 3 4121 JH000	Pretty Carbon	330kΩ	1/8W	±5%	1
R315	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	±5%	1
R316	RP1 5 4121 JH000	Pretty Carbon	150kΩ	1/8W	±5%	1
R317	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	±5%	1
R318	RP2 2 3121 JH000	Pretty Carbon	22kΩ	1/8W	±5%	1
R319	RP6 8 2121 JH000	Pretty Carbon	6.8kΩ	1/8W	±5%	1
R320	RP3 3 1121 JH000	Pretty Carbon	330Ω	1/8W	±5%	1
R321	RD3 0 2251 JM000	Carbon	3kΩ	1/4W	±5%	1
R322	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	±5%	1
R323	RP3 3 0121 JH000	Pretty Carbon	33Ω	1/8W	±5%	1
R324	RP6 8 1121 JH000	Pretty Carbon	680Ω	1/8W	±5%	1
R325	RP1 8 3121 JH000	Pretty Carbon	18kΩ	1/8W	±5%	1
R326	RP1 5 3121 JH000	Pretty Carbon	15kΩ	1/8W	±5%	1
※R327	RP6 8 A121 JH000	Pretty Carbon	6.8Ω	1/8W	±5%	1
R328	RD9 1 0251 JM000	Carbon	91Ω	1/4W	±5%	1
R329	RD4 3 0251 JM000	Carbon	43Ω	1/4W	±5%	1
R330	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	±5%	1
R331	RP3 3 0121 JH000	Pretty Carbon	33Ω	1/8W	±5%	1
R332	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	±5%	1

RADIO TUNER P.C.B. ASSY

PCB2	4 1259 71870	Radio Tuner P.C.B. Assy		1
	4 2369 70740	RT Pin		6
	101 3 1302 60411	Screw, Pan Hd.	+M2.6x4	2
	141 2 4729 04700	Staple, 10mm		8
	141 2 4729 05000	Staple, 5mm		11
CN1	4 2369 73380	Connector 5P		1
S1	4 2319 73861	Slide Switch (Band Select)		1
L1	4 2599 70810	RF Coil		1
L2	4 2589 70740	OSC Coil		1
L3	4 2659 70201	Loading Coil		1
L4	4 2579 71300	Bar Antenna		1
L5	4 2539 71021	Band Pass Filter		1
T1	4 2569 70301	IFT		1
T2	4 2569 71340	IFT FM		1
T3	4 2569 71030	IFT 455KHz		1
T4	4 2569 71022	IFT 455KHz		1
T5	4 2569 71120	IFT AM		1
T6	4 2579 70690	Antenna Coil		1
T7	4 2589 71342	OSC Trans		1
T8	4 2589 71353	OSC Trans		1
T9	4 2589 71410	OSC Trans		1
TC1	4 2249 70580	Trimmer Condenser		1
TC2	4 2249 70580	Trimmer Condenser		1
TC3	4 2249 70580	Trimmer Condenser		1
TC4	4 2249 70580	Trimmer Condenser		1
TC5	4 2249 70580	Trimmer Condenser		1
P1	4 2229 73053	Potentiometer (B-5kΩ)		1
PVC1	4 2249 70451	Variable Condenser		1
CF1	4 2539 70880	Ceramic Filter		1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description			Q'ty
D1	4 2029 70790	Diode, ITT410			1
IC1	4 2069 71590	IC, AN7213			1
IC2	4 2069 71730	IC, TA7640AP			1
IC3	4 2069 71660	IC, TA7343P			1
C1	CI2 2 3160 XG00R	Boundary	0.022μF	16V +40,-20%	1
C2	CI2 2 3160 XG00R	Boundary	0.022μF	16V +40,-20%	1
C3	CC2 0 0500 JD00C	Ceramic	20pF	50V ±5%	1
C4	CC1 8 0500 JD00C	Ceramic	18pF	50V ±5%	1
C5	CI2 2 3160 XG00R	Boundary	0.022μF	16V +40,-20%	1
C6	CC5 0 A500 CD00C	Ceramic	5pF	50V ±0.2pF	1
C7	CC1 5 0500 JD00C	Ceramic	15pF	50V ±5%	1
C8	CC1 0 0500 JD00C	Ceramic	10pF	50V ±5%	1
C9	CI2 2 3160 XG00R	Boundary	0.022μF	16V +40,-20%	1
C10	CI2 2 3160 XG00R	Boundary	0.022μF	16V +40,-20%	1
C11	CI2 2 3160 XG00R	Boundary	0.022μF	16V +40,-20%	1
C12	CI2 2 3160 XG00R	Boundary	0.022μF	16V +40,-20%	1
C13	CC4 7 1500 KE00C	Ceramic	470pF	50V ±10%	1
C14	CI2 2 3160 XG00R	Boundary	0.022μF	16V +40,-20%	1
C15	CI2 2 3160 XG00R	Boundary	0.022μF	16V +40,-20%	1
C16	CD1 0 6100 0000V	Electrolytic	10μF	10V	1
C17	CD2 2 6100 0000V	Electrolytic	22μF	10V	1
C18	CC6 0 A500 CD00C	Ceramic	6pF	50V ±0.2pF	1
C19	CD1 0 5100 0000V	Electrolytic	1μF	10V	1
C20	CD1 0 5100 0000V	Electrolytic	1μF	10V	1
C21	CD3 3 5100 0000V	Electrolytic	3.3μF	10V	1
C22	CS1 0 2500 J010F	Polystyroul	0.001μF	50V ±5%	1
C23	CD1 0 6100 0000V	Electrolytic	10μF	10V	1
C24	CI1 0 3250 KE00C	Boundary	0.01μF	25V ±10%	1
C25	CI1 0 3250 KE00C	Boundary	0.01μF	25V ±10%	1
C26	CD4 7 4500 0000V	Electrolytic	0.47μF	50V	1
C27	CD4 7 4500 0000V	Electrolytic	0.47μF	50V	1
C28	CI1 0 3250 KE00C	Boundary	0.01μF	25V ±10%	1
C29	CI1 0 3250 KE00C	Boundary	0.01μF	25V ±10%	1
C30	CI2 2 3250 KE00C	Boundary	0.022μF	25V ±10%	1
C31	CD4 7 7100 0001V	Electrolytic	470μF	10V	1
C32	CI1 0 2500 KE00R	Boundary	0.001μF	50V ±10%	1
C33	CI2 2 3160 XG00R	Boundary	0.022μF	16V +40,-20%	1
C34	CC1 5 0500 JD00C	Ceramic	15pF	50V ±5%	1
C35	CC3 0 A500 CD00C	Ceramic	3pF	50V ±0.2pF	1
C36	CC5 0 A500 CD00C	Ceramic	5pF	50V ±0.2pF	1
C37	CC1 0 0500 JD00C	Ceramic	10pF	50V ±5%	1
C38	CC1 0 0500 JD00C	Ceramic	10pF	50V ±5%	1
C39	CC5 0 A500 CD00C	Ceramic	5pF	50V ±0.2pF	1
C40	CP3 9 2500 J002V	Polypropylen	0.0039μF	50V ±5%	1
C41	CS1 5 2500 J010F	Polystyroul	0.0015μF	50V ±5%	1
C42	CS3 6 1500 J010F	Polystyroul	360pF	50V ±5%	1
C43	CC8 0 A500 CD00C	Ceramic	8pF	50V ±0.2pF	1
C44	CC5 0 A500 CD00C	Ceramic	5pF	50V ±0.2pF	1
C45	CC1 8 0500 JD00C	Ceramic	18pF	50V ±5%	1
C46	CI2 2 3160 XG00R	Boundary	0.022μF	16V +40,-20%	1
R1	RP1 0 0121 JH000	Pretty Carbon	10Ω	1/8W ±5%	1
R2	RP2 2 1121 JH000	Pretty Carbon	220Ω	1/8W ±5%	1
R3	RP1 8 3121 JH000	Pretty Carbon	18kΩ	1/8W ±5%	1
R4	RP3 3 4121 JH000	Pretty Carbon	330kΩ	1/8W ±5%	1
R5	RD3 3 4251 JM000	Carbon	330kΩ	1/4W ±5%	1
R6	RP3 3 4121 JH000	Pretty Carbon	330kΩ	1/8W ±5%	1
R7	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W ±5%	1
R8	RP4 7 0121 JH000	Pretty Carbon	47Ω	1/8W ±5%	1
R9	RP4 7 0121 JH000	Pretty Carbon	47Ω	1/8W ±5%	1
R10	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W ±5%	1
R11	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W ±5%	1
R12	RD5 6 1251 JM000	Carbon	560Ω	1/4W ±5%	1
R13	RP1 5 4121 JH000	Pretty Carbon	150kΩ	1/8W ±5%	1
R14	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W ±5%	1
R15	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W ±5%	1
R16	RP5 6 2121 JH000	Pretty Carbon	5.6kΩ	1/8W ±5%	1
R17	RP5 6 2121 JH000	Pretty Carbon	5.6kΩ	1/8W ±5%	1
R18	RP4 7 0121 JH000	Pretty Carbon	47Ω	1/8W ±5%	1
R19	RP3 3 3121 JH000	Pretty Carbon	33kΩ	1/8W ±5%	1
R20	RP3 3 3121 JH000	Pretty Carbon	33kΩ	1/8W ±5%	1
R21	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W ±5%	1
R22	RD3 3 2251 JM000	Carbon	3.3kΩ	1/4W ±5%	1
R23	RP1 0 0121 JH000	Pretty Carbon	10Ω	1/8W ±5%	1
R24	RP3 3 0121 JH000	Pretty Carbon	33Ω	1/8W ±5%	1

AMSS PROGRAM P.C.B. ASSY

PCB3	4 1329 78400	AMSS Program P.C.B. Assy					1
	4 2269 37800	PRC Board					1
	141 2 4729 05000	Staple, 5mm					5
CN4	4 2359 75728	Connector 4P Assy					1
S8	4 2319 75560	Touch Switch (AMSS Program)					1
D401	4 2029 71590	Diode, 1SS95					1
D402	202 5 9600 44610	Diode, DS 446					1
D403	4 2029 72170	LED, GL-8P03 (AMSS Indicator)					1
Q401	4 2039 70620	Transistor, 2SC2021					1
Q402	4 2039 70992	Transistor, 2SA937					1
IC401	4 2069 71720	IC, TC9138					1
C401	CI1 0 3250 KF00C	Boundary	0.01μF	25V	±10%		1
C402	CD2 2 5500 0002V	Electrolytic	2.2μF	50V			1
C403	CM1 0 4500 J00TV	Mylar	0.1μF	50V	±5%		1
C404	CD1 0 6160 0002V	Electrolytic	10μF	16V			1
C405	CD4 7 4500 0002V	Electrolytic	0.47μF	50V			1
C406	CD1 0 6160 0002V	Electrolytic	10μF	16V			1
R401	RP2 4 3121 JT000	Pretty Carbon	24kΩ	1/8W	±5%		1
R402	RP2 7 3121 JT000	Pretty Carbon	27kΩ	1/8W	±5%		1
R403	RP3 3 3121 JT000	Pretty Carbon	33kΩ	1/8W	±5%		1
R404	RP2 2 1121 JT000	Pretty Carbon	220Ω	1/8W	±5%		1

LED INDICATOR P.C.B. ASSY

PCB4	4 1329 78410	LED Indicator P.C.B. Assy					1
	4 2269 37790	PCB, LED					1
D304	4 2029 71420	LED, SLP-155B (Record/Battery)					1
D305	4 2029 71420	LED, SLP-155B (FM Stereo)					1

VOLUME P.C.B. ASSY

PCB5	4 1329 78530	Volume P.C.B. Assy					1
	141 2 4729 05000	Staple, 5mm					2
CN2	4 2359 75668	Connector 5P Assy					1
VR1	4 2229 73920	Rotary Volume Unit					1
C118	CI4 7 3250 KF00C	Boundary	0.047μF	25V	±10%		1
C119	CC3 3 2500 KE00C	Ceramic	0.0033μF	50V	±10%		1
C120	CI4 7 3250 KF00C	Boundary	0.047μF	25V	±10%		1
C218	CI4 7 3250 KF00C	Boundary	0.047μF	25V	±10%		1
C219	CC3 3 2500 KE00C	Ceramic	0.0033μF	50V	±10%		1
C220	CI4 7 3250 KF00C	Boundary	0.047μF	25V	±10%		1
R125	RP2 7 2121 JH000	Pretty Carbon	2.7kΩ	1/8W	±5%		1
R225	RP2 7 2121 JH000	Pretty Carbon	2.7kΩ	1/8W	±5%		1

JACK P.C.B. ASSY

PCB6	4 1329 78420	Jack P.C.B. Assy					1
	4 2269 37780	PCB, Jack					1
J6	4 2359 73601	2P Jack (LINE IN)					1
J7	4 2359 73601	2P Jack (LINE OUT)					1
S7	4 2319 75590	Slide Switch (Beat Cancel)					1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
C330	CC3 3 1500 JD00C	Ceramic	330pF	50V	±5%	1
C331	CC6 8 1500 JD00C	Ceramic	680pF	50V	±5%	1
R122	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R135	RP1 5 3121 JH000	Pretty Carbon	15kΩ	1/8W	±5%	1
R222	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R235	RP1 5 3121 JH000	Pretty Carbon	15kΩ	1/8W	±5%	1

NOTES:
1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

The following two kinds of Erase Heads are used in Model M7770K.
Note that the different parts are marked ※ in the circuit diagram.

* Refer to the parts list on the former pages for the Erase Head (4 2429 72200).

* Refer to the parts list as described below for the Erase Head (4 2429 72201).

Ref. No.	Part No.	Description				Q'ty
	MECHANISM					
MC17	4 2429 72201	Erase Head [HD2]				1
	AMPLIFIER P.C.B. ASSY					
C323	CP1 1 3101 G000V	Polypropylen	0.011μF	100V	±2%	1
R327	RP1 0 0121 JH000	Pretty Carbon	10Ω	1/8W	±5%	1

IC & TRANSISTOR LEAD IDENTIFICATION

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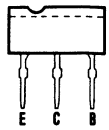
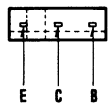
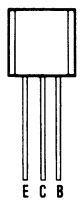
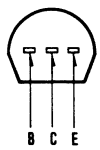
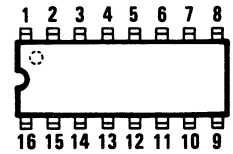
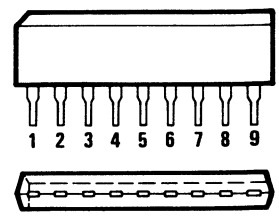
		2SA937 2SC2021
		2SC536 2SD734
TERMINAL NAME		
B⇒ BASE C⇒ COLLECTOR E⇒ EMITTER		

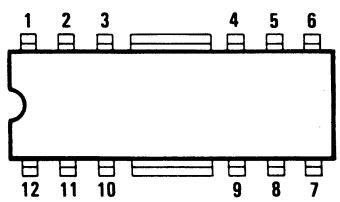
TA7640AP
TC9138AP BOTTOM VIEW



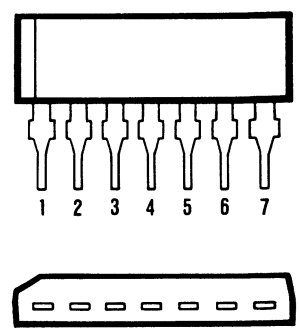
TA7343P FRONT/BOTTOM VIEW



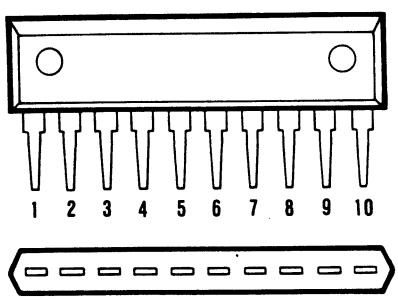
LA4192 BOTTOM VIEW



AN7213 FRONT/BOTTOM VIEW

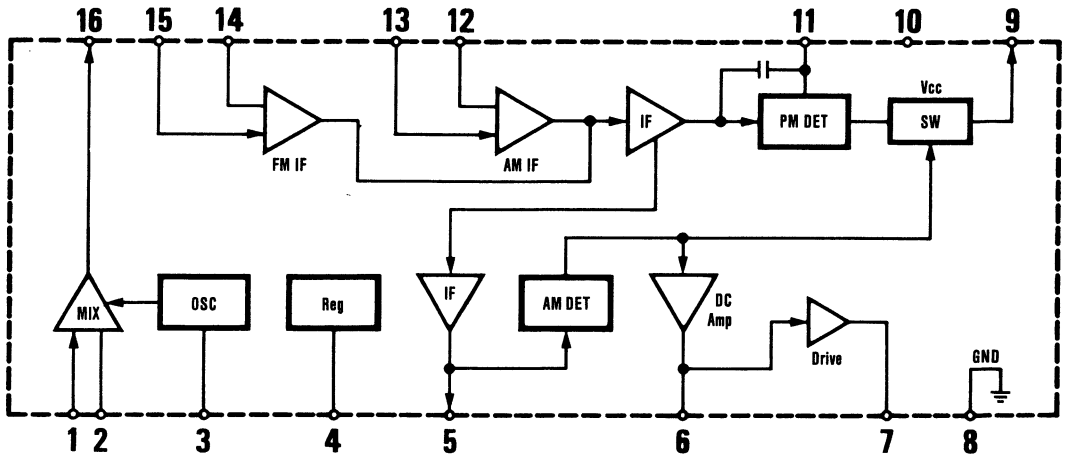


M5154L FRONT/BOTTOM VIEW

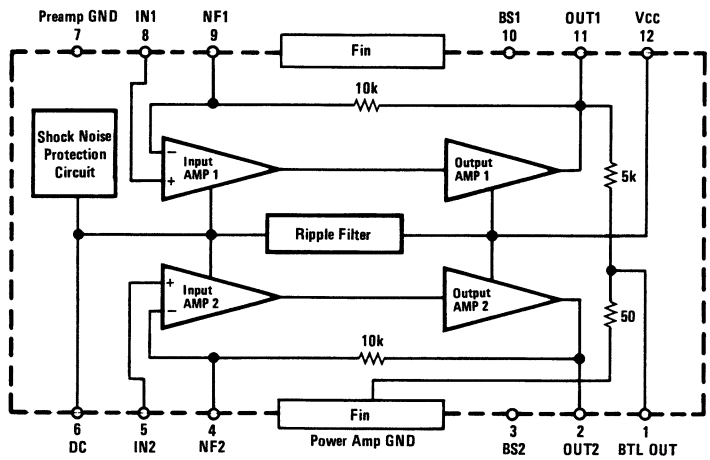


IC & TRANSISTOR LEAD IDENTIFICATION (Continued)

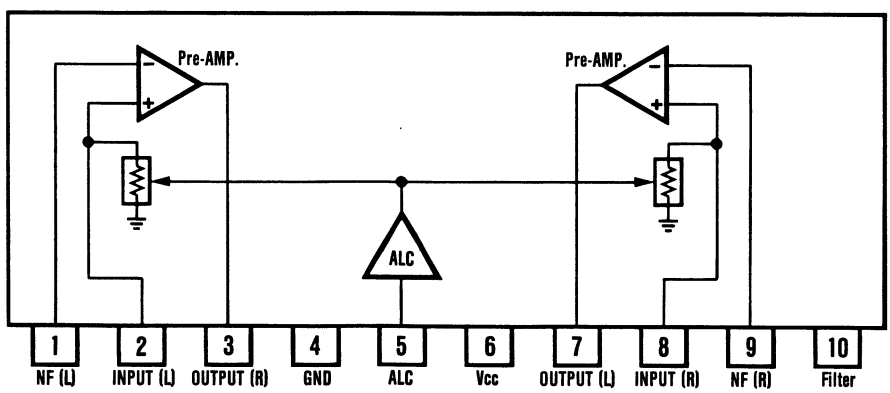
TA7640AP BLOCK DIAGRAM



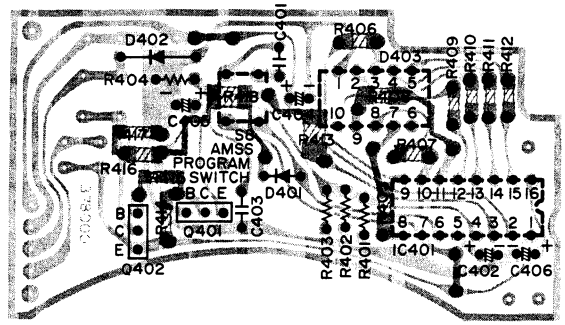
LA4192 BLOCK DIAGRAM



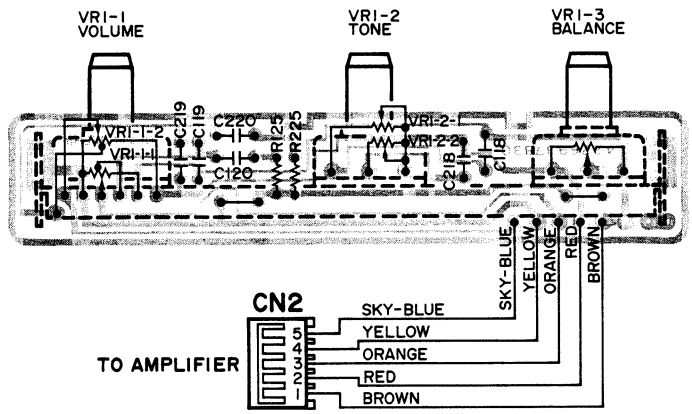
M51544L BLOCK DIAGRAM



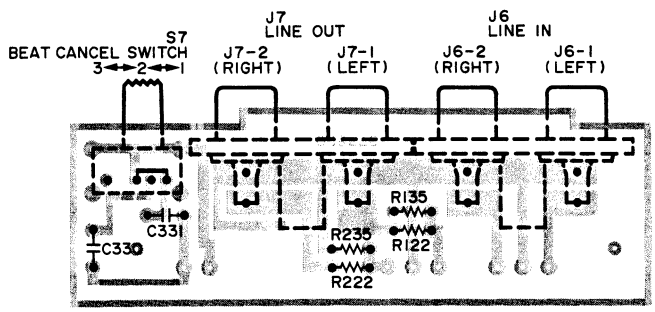
AMSS PROGRAM P.C.BOARD



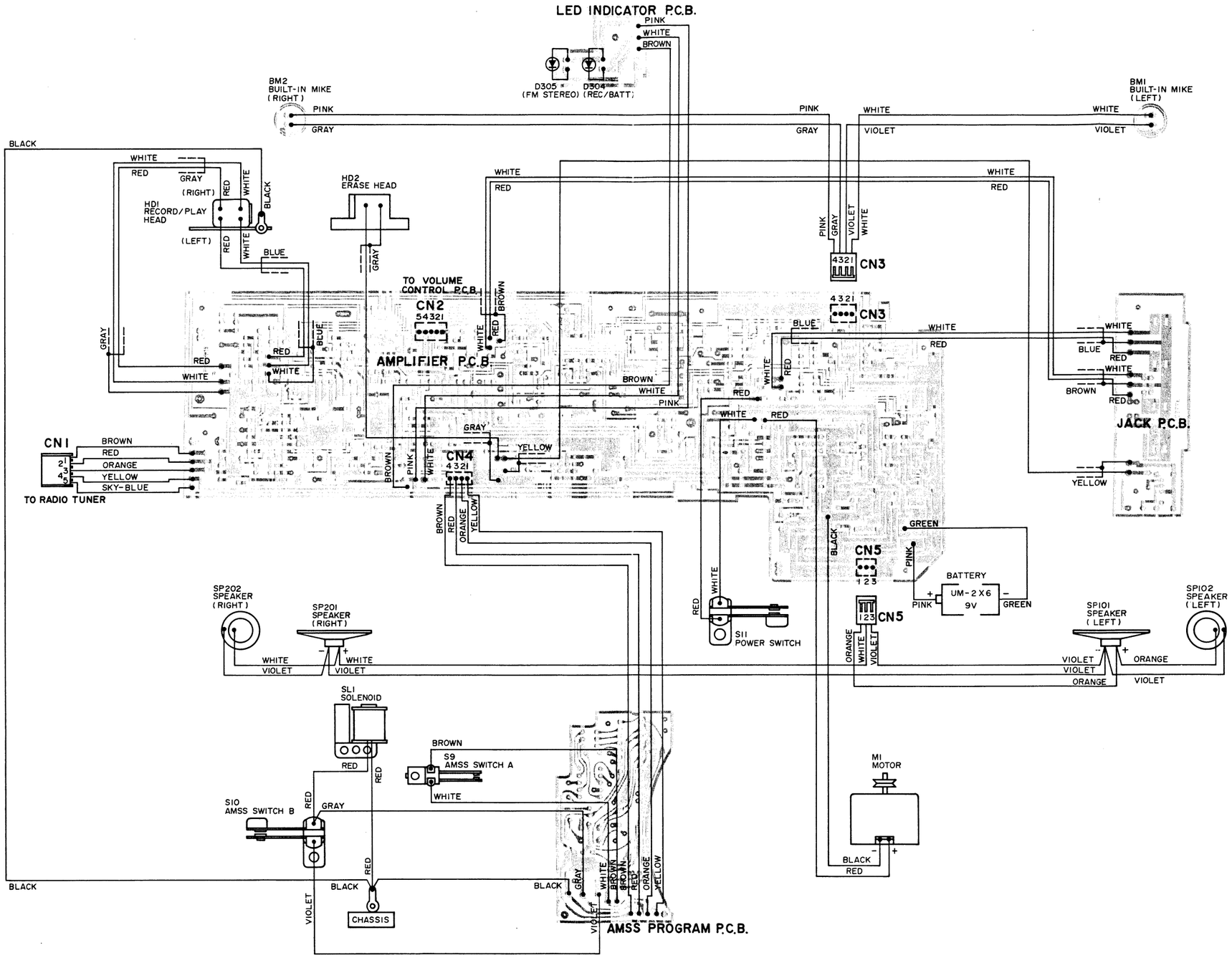
VOLUME P.C.BOARD



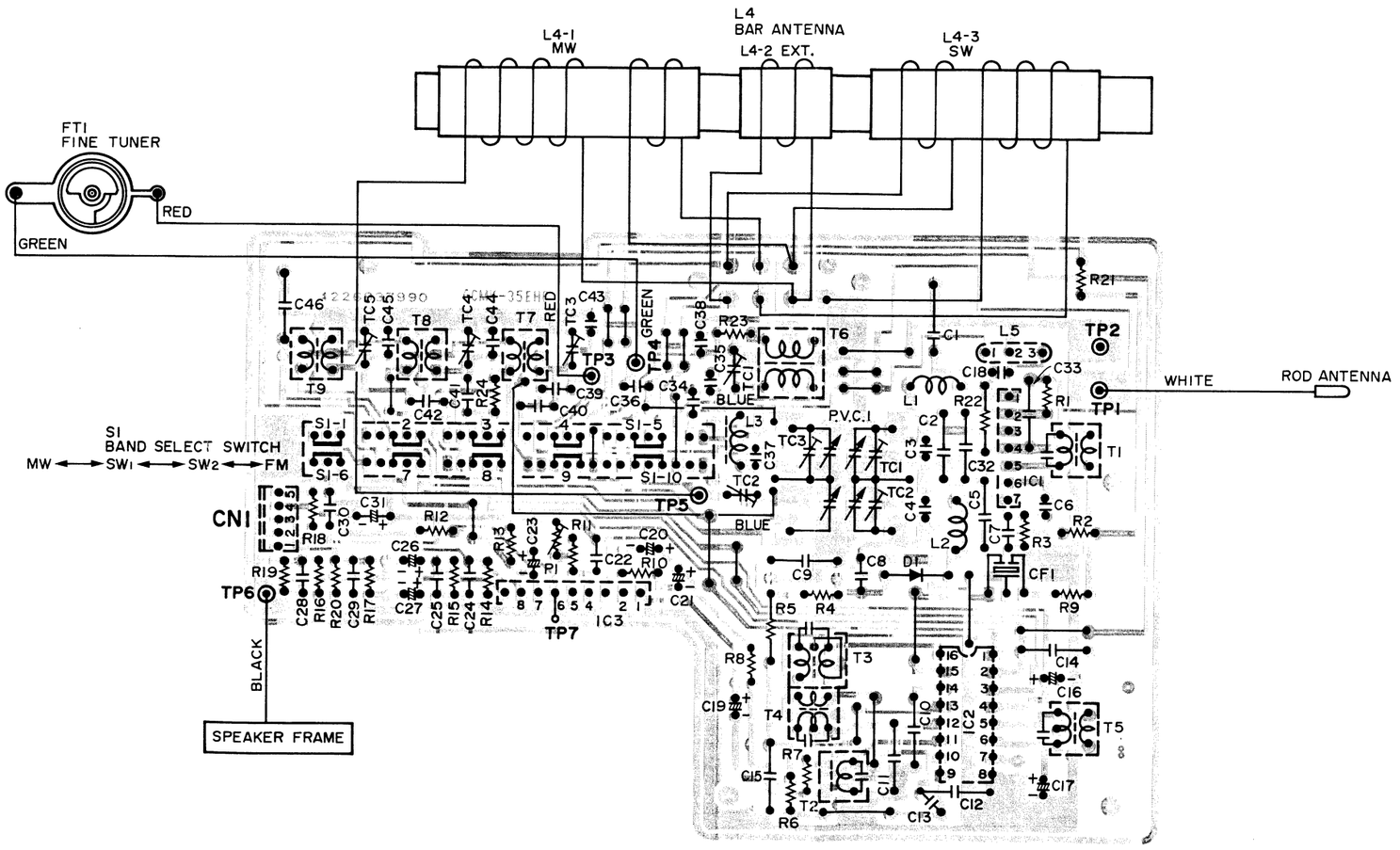
JACK P.C.BOARD



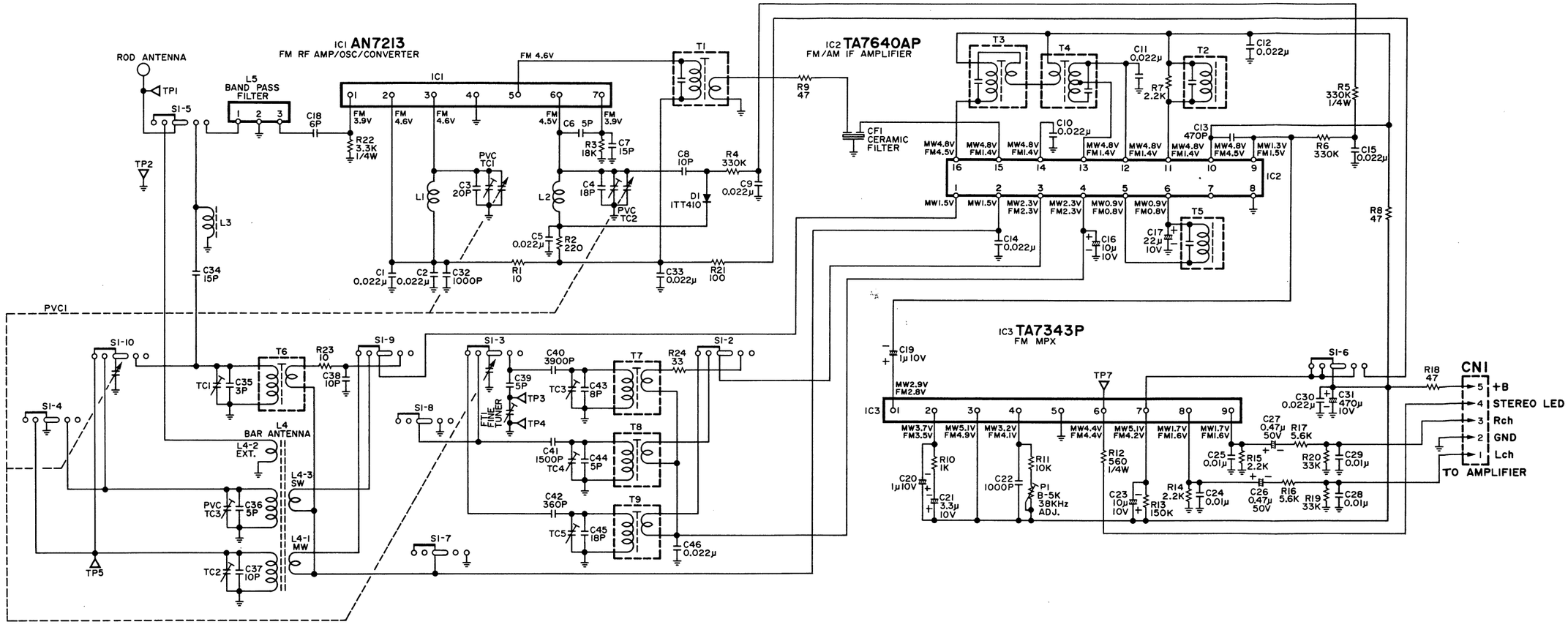
WIRING DIAGRAM



RADIO TUNER P.C.BOARD

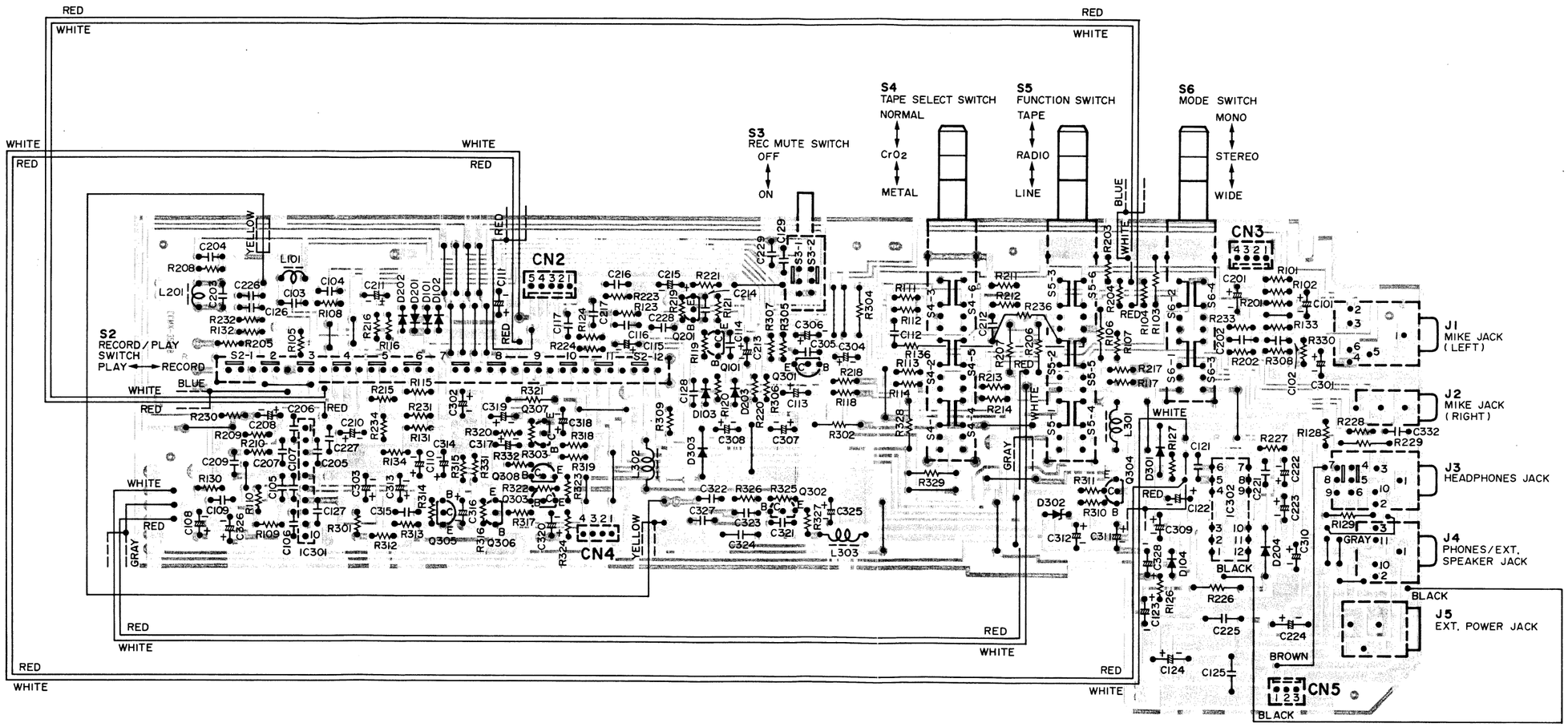


SCHEMATIC DIAGRAM (Tuner)



No.	Name	Position	No.	Name	Position
S1	BAND SELECT Switch	MW	S7	BEAT CANCEL Switch	1
S2	RECORD/PLAY Switch	PLAYBACK	S8	AMSS PROGRAM Switch	OFF
S3	REC MUTE Switch	OFF	S9	AMSS Switch A	OFF
S4	TAPE SELECT Switch	NORMAL	S10	AMSS Switch B	OFF
S5	FUNCTION Switch	TAPE	S11	POWER Switch	OFF
S6	MODE Switch	MONO			

AMPLIFIER P.C.BOARD



SCHEMATIC DIAGRAM (Amplifier)