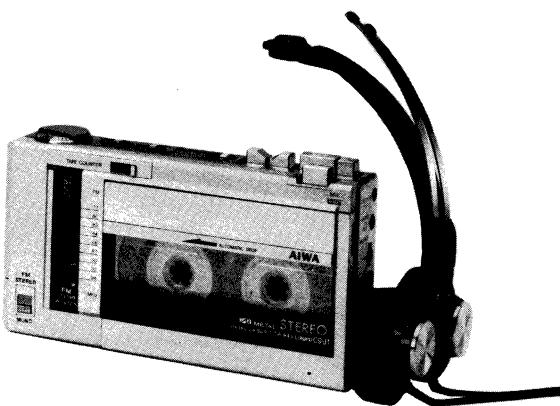


FM STEREO RADIO CASSETTE TAPE RECORDER

MODEL NO. CS-J1Y, YU, YG

AIWA®
(SERVICE MANUAL)

Code No. 29-100-000-01



DATE OF ISSUE 4/1981

SPECIFICATIONS

GENERAL

Semiconductors:4 ICs, 1 FET, 18 transistors
8 diodes, 2 LED's**Power source:**Batteries DC 4.5V (UM-3 x 3)
Household AC power
(thru AC adaptor)**Dimensions:**155.5(W) x 81(H) x 29.9(D)mm
[6-1/8" x 3-1/8" x 1-1/8"]**Weight:**

430g (0.951 lbs.)

< Radio section >

Superheterodyne

Circuit:

FM 87.4 ~ 108.3 MHz

Frequency range:

FM 10.7 MHz

Sensitivity:(IHF, THD 3%) FM 0 ± 4 dB (at 88 MHz)
-1 ± 4 dB (at 96 MHz)**Image rejection:**

2 ± 4 dB (at 108 MHz)

IF rejection:

FM 24 ± 4 dB (at 88 MHz)

< Tape recorder section >

Track type:

4 tracks, 2 channel

Recording system:

AC bias

Erasing system:

MAGNET erase

Tape speed:

4.8 cm/s (1-7/8 ips)

Record bias frequency:

59 kHz

Signal to noise ratio:

More than 44/43 dB (PB)

(Unweighted)

More than 32/31 dB (REC/PB)

Frequency response:

40 ~ 12,500 Hz (NORMAL)

Output power:

40 ~ 16,000 Hz (METAL)

Erasing ratio:

28.5 mW + 28.5 mW

Distortion:

60 ± 5 dB (1 kHz)

Less than 2% (PB)

Less than 8% (RE/PB)

Motor:**Wow & flutter:**

DC electrical governor motor

Less than 0.2% (WRMS)

Less than 0.37% (RMS)

Mechanical full auto

5 +3 -5 s. (at PLAY/REC)

220 ± 30 g (2.16 ± 0.29 N)

40 ± 5 g·cm (0.39 ± 0.05 mN·m)

More than 70 g·cm (0.67 mN·m)

More than 70 g·cm (0.67 mN·m)

110 ± 20 s.

MIC/AUX 3.5φ jack

MIC 0.3 mV/3.3 kΩ

AUX 150 mV/1kΩ

Headphone jack (3.5φ)

Battery life under continuous use:

Recording—approximately 8

hours (EIAJ) with alkaline

batteries

Recording—approximately 3

hours (EIAJ) with AIWA

EXTRA Batteries

< Headphone section >

Type: Dynamic type

28 ohms

20 ~ 20,000 Hz

100 dB/mW

100 mW

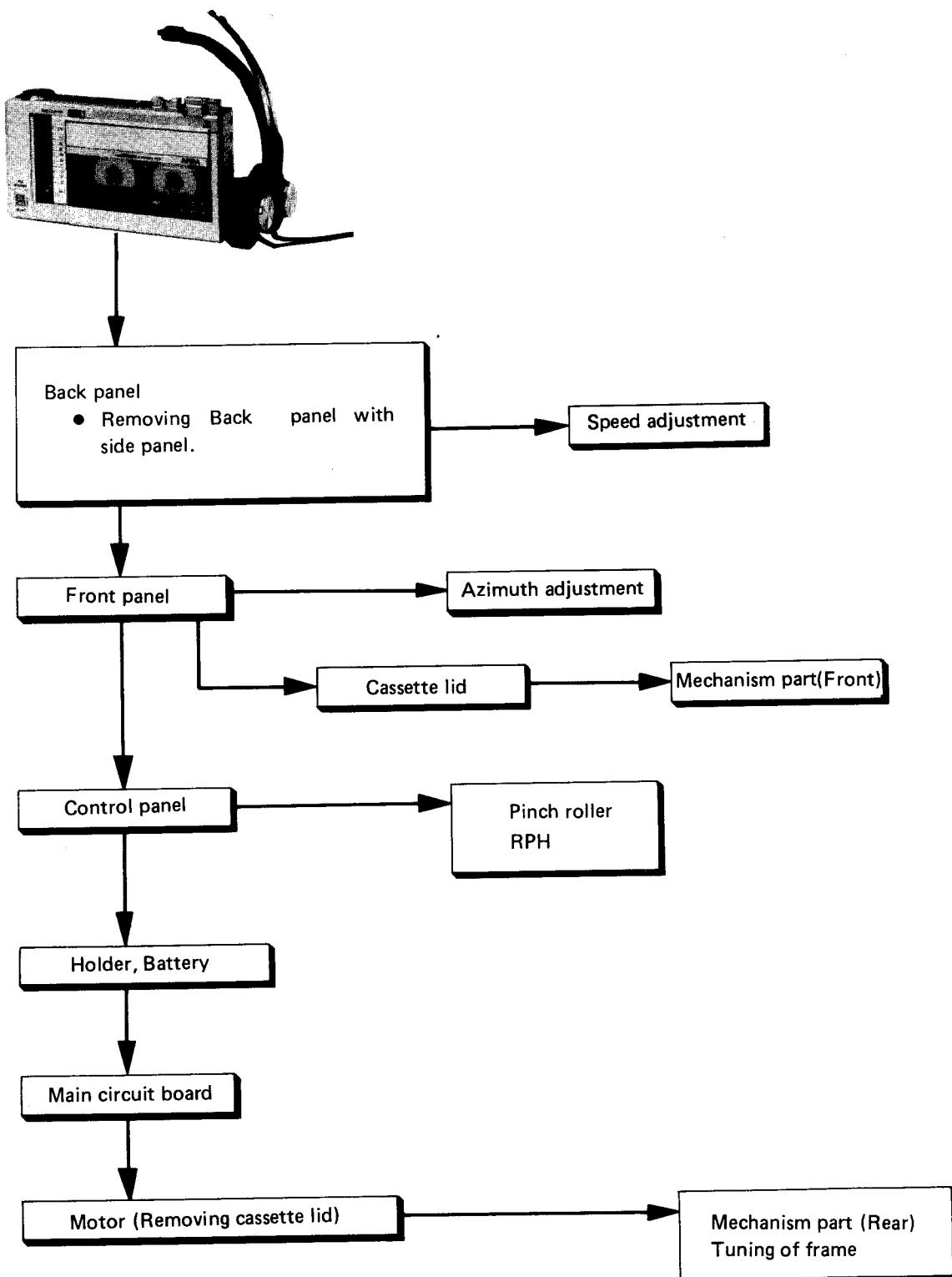
1.4 meter

40 g (without cord)

- The specifications and external appearance of this set are subject to change without prior notice.

DISASSEMBLING CHART DIAGRAM OF MAIN PARTS

- To avoid troubles when disassembling or replacing the main parts, follow the chart diagram as below.



To disassemble the main parts

1. Back panel

Remove the 5 screws. (See figure 1)

2. Front panel

Remove the 2 screws. (See figure 1)

3. Operation panel

Remove 3 screws.

With 3 screws removed, the operation panel, switch panel and slide knob can be detached simultaneously. Be careful not to lose them. (See figure 1)

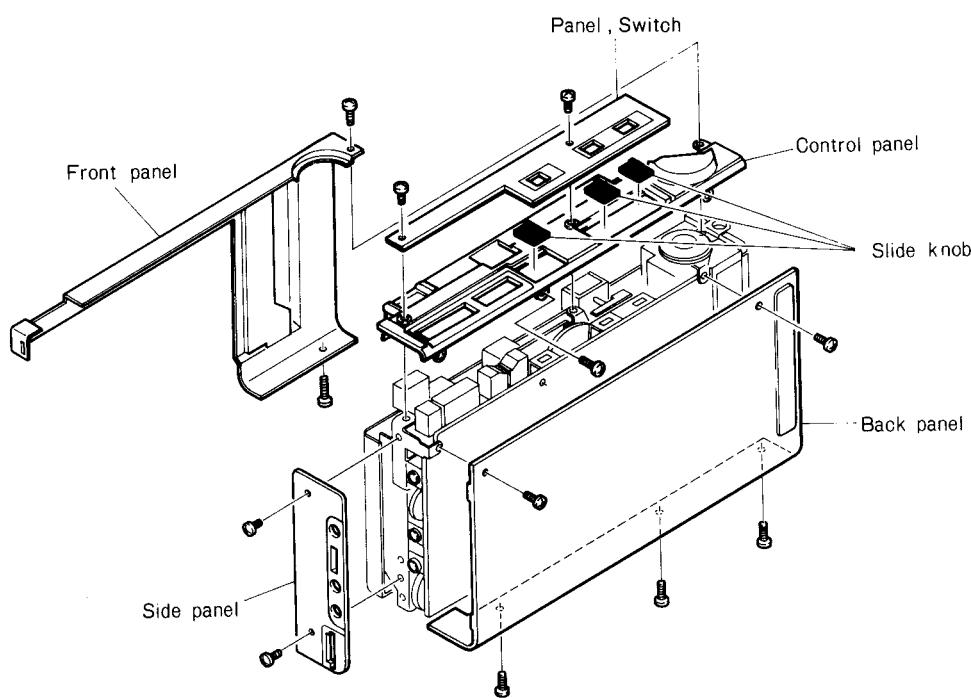


Fig. 1

4. Cassette lid

Remove the spring and then remove 1 screw. (See figure 2)

5. Battery holder

Remove 2 screws and move the holder in the direction of the arrow (See figure 3)

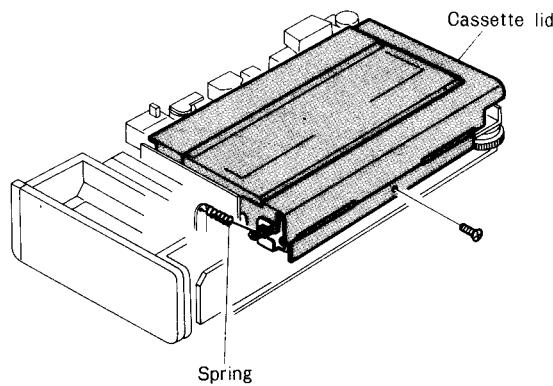


Fig. 2

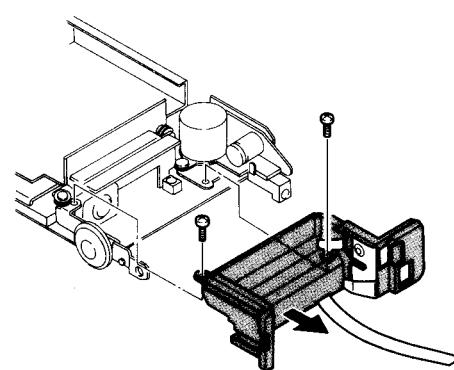


Fig. 3

6. Main PC Board

Unsolder wires (red, white, black, green, grey).

Note: Be sure to remove the wires on the PC Board side because the terminals on the PC Board are not heat-resistant.

Remove 5 screws (See figure 4)

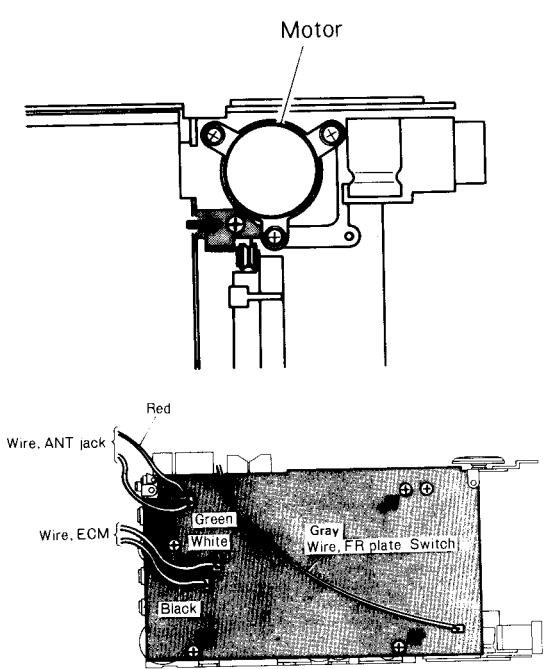


Fig. 4

7. Tuning frame

Remove 3 screws and lift the tuning frame in the direction of the arrow

A mylar sheet is fixed to the tuning frame to prevent other parts from touching it. Check that the mylar sheet is present when re-assembling the tuning frame. (See figure 5)

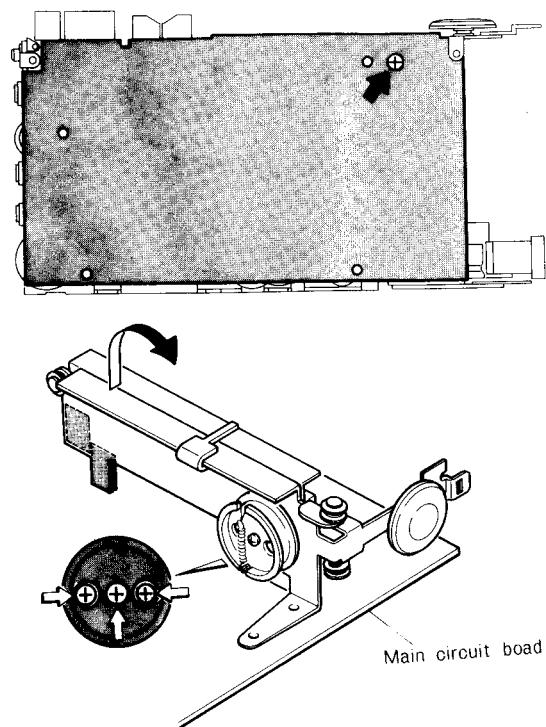
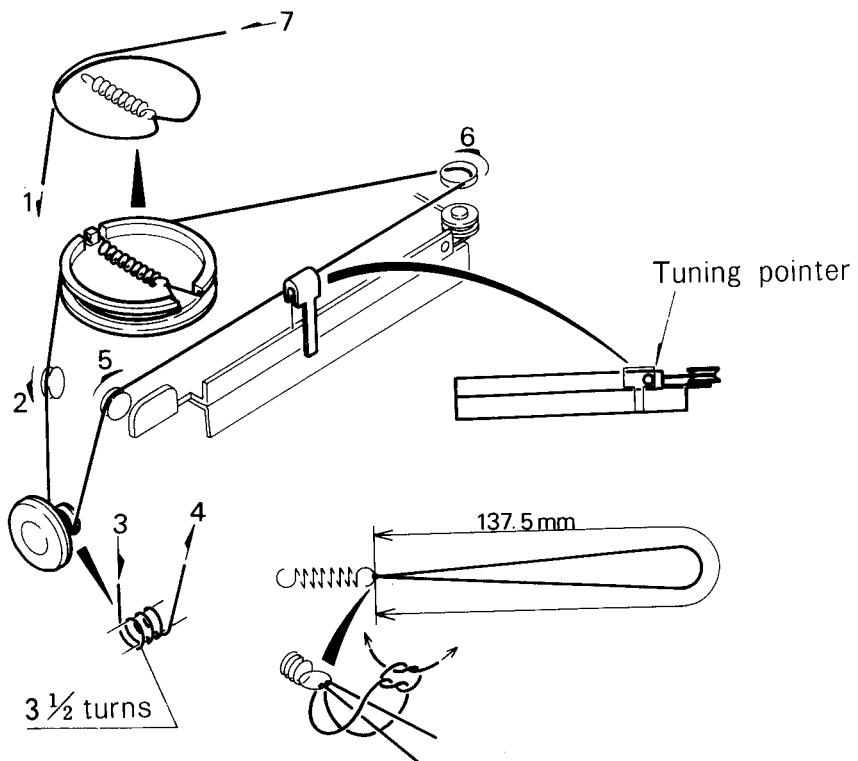
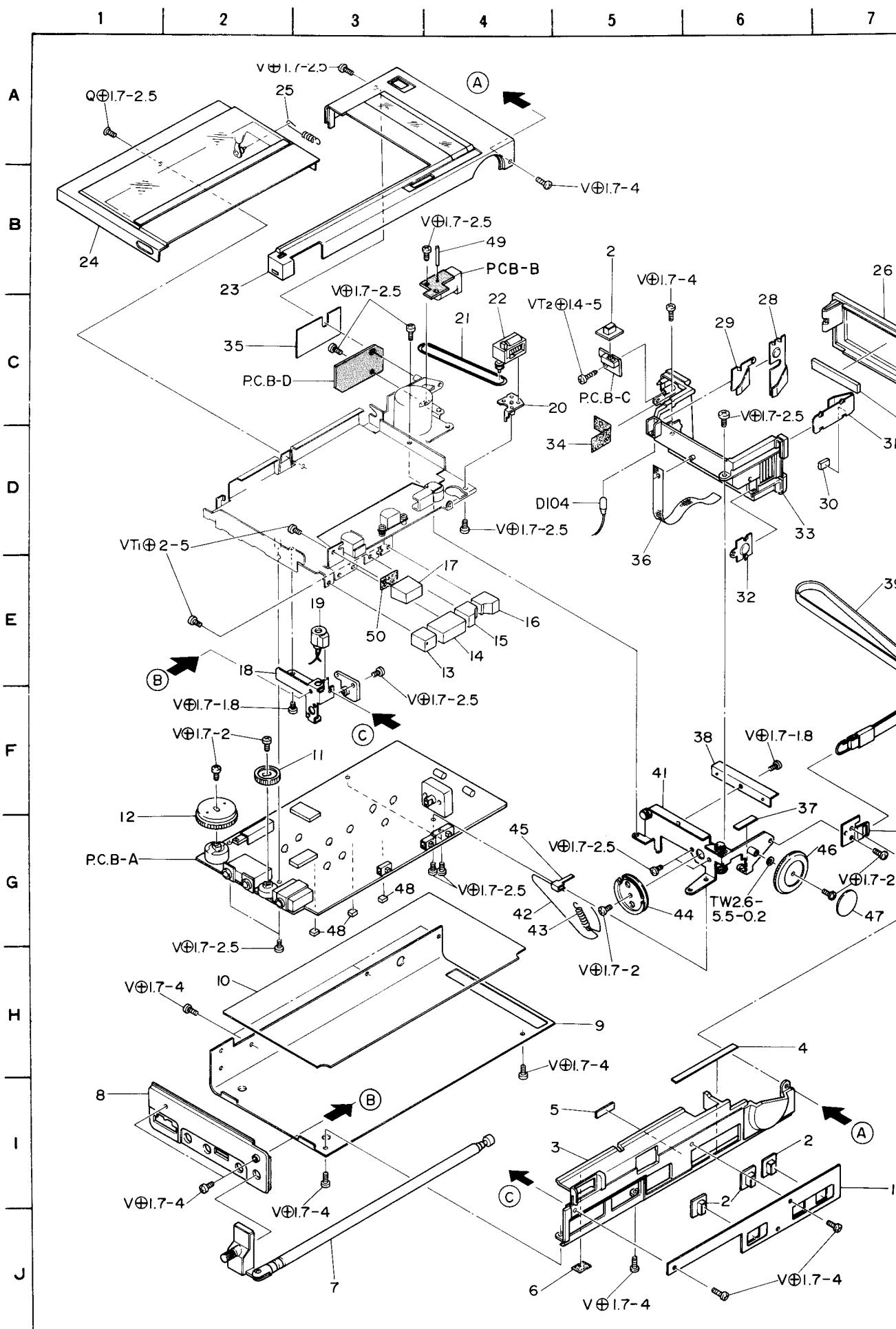


Fig. 5

DIAL CORD STRINGING



EXPLODED VIEW-1

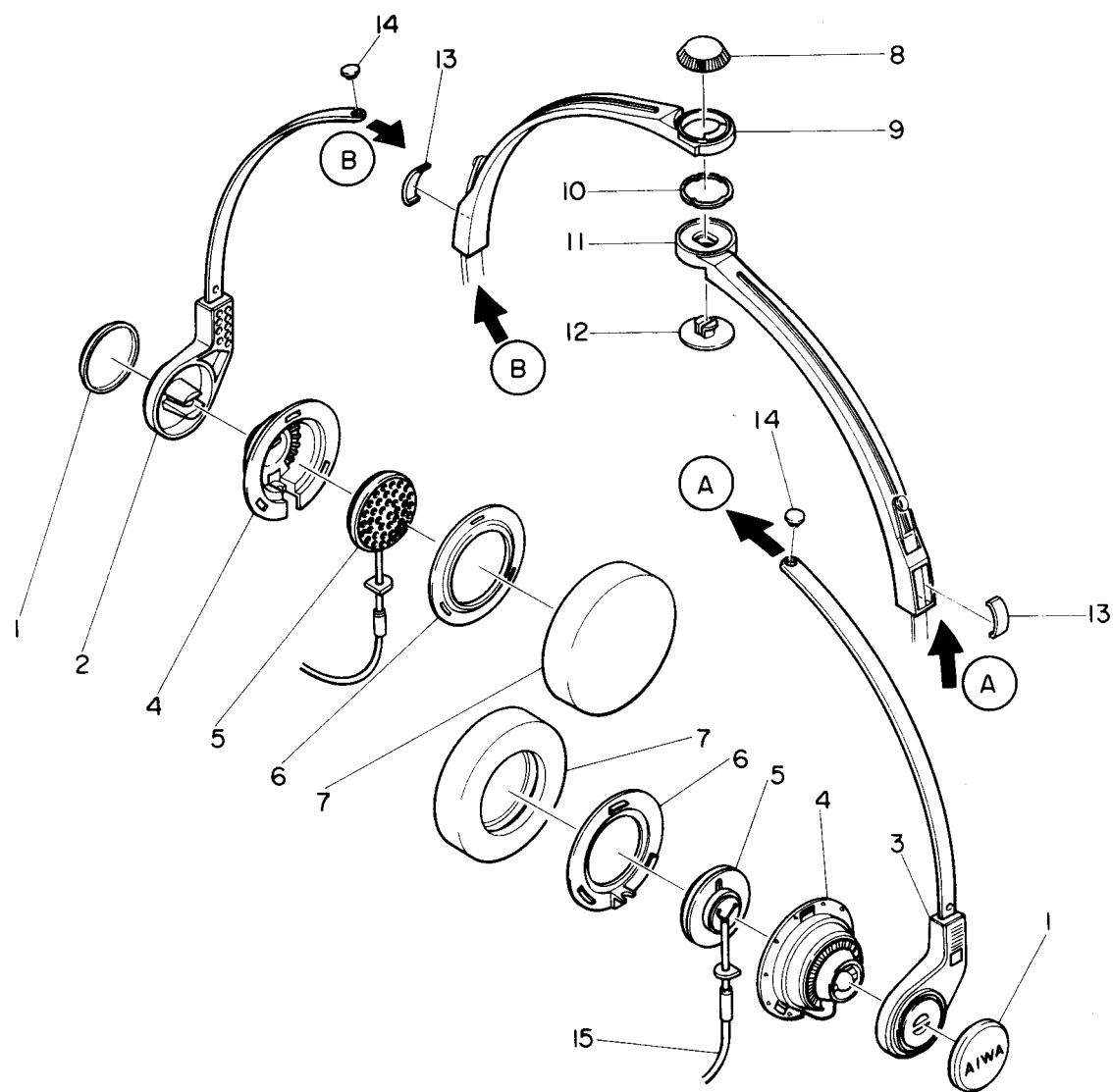


MECHANICAL PARTS

PARTS LIST

■ * mark in this part list shows exclusive part.

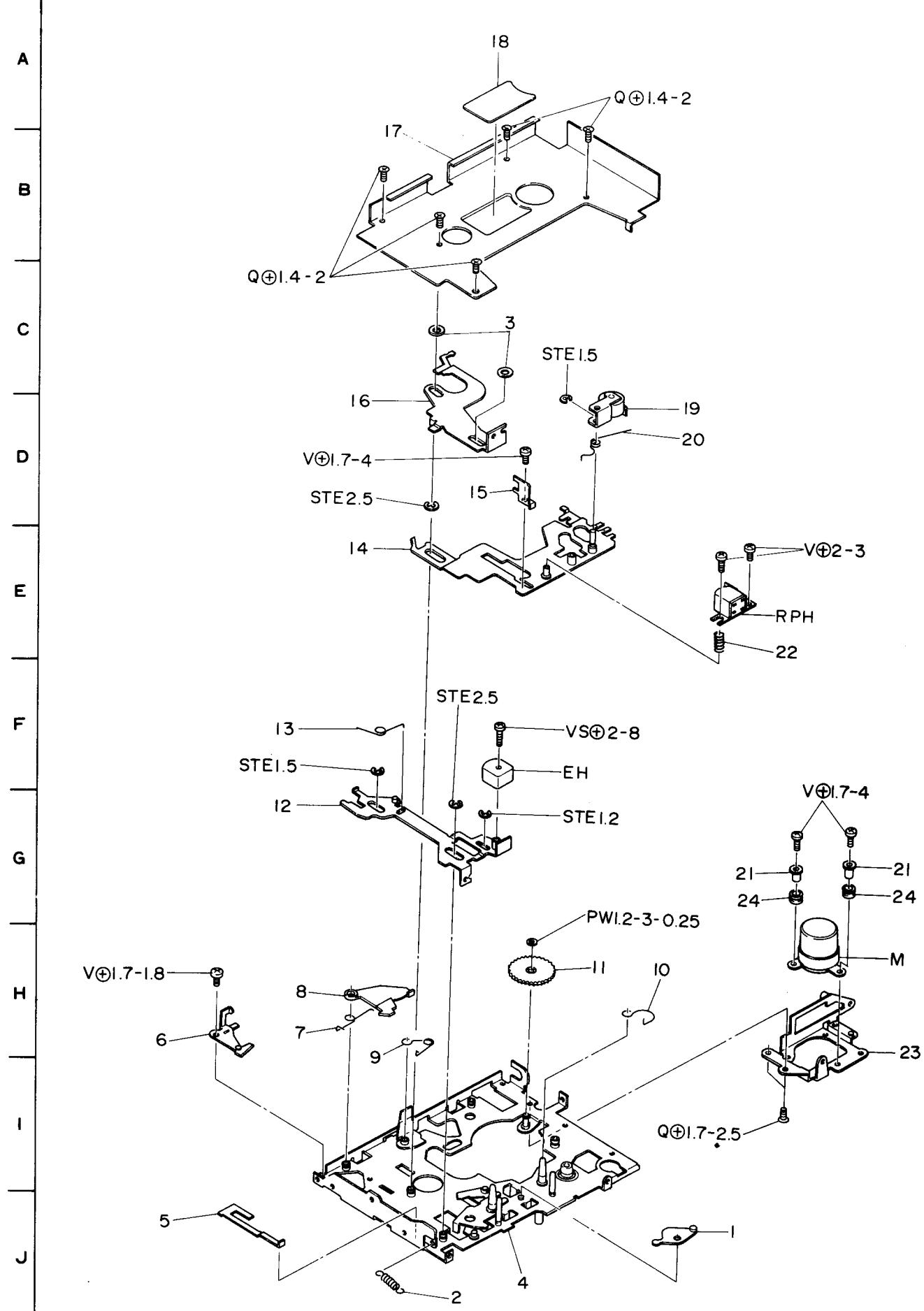
Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1-1	82-590-017-01		Panel S, Switch	*	1
1-2	82-590-012-01		Slide knob	*	4
1-3	82-590-006-01		Control panel S	*	1
1-4	82-641-230-01		Mylar sheet C	1	1
1-5	82-639-428-01		Rubber sheet 12-3-1	1	1
1-6	82-590-247-01	09-017-825-01	Himeron cloth 7 x 10 x 0.5	*	1
1-7	09-017-825-01	82-590-024-01	Antenna ass'y	*	1
	82-590-024-01	82-590-016-01	Cover, Antenna	*	1
	82-590-016-01	87-043-056-01	Screw, Antenna stopper	*	1
	87-043-056-01	82-590-137-01	Whip antenna	1	1
	82-590-137-01		Mylar sheet 9-15	*	1
1-8	82-590-007-01		Side panel S	*	1
1-9	82-590-592-01		Back panel S	*	1
1-10	82-590-234-01		Mylar sheet	*	1
1-11	82-641-020-01		Knob, BALANCE	1	1
1-12	82-641-010-01		Knob, VOLUME	1	1
1-13	82-641-006-01		Push-button, REC	1	1
1-14	82-641-007-01		Push-button, FWD	1	1
1-15	82-641-019-01		Push-button, REW	1	1
1-16	82-641-009-01		Push-button, FF	1	1
1-17	82-641-008-01		Push-button, STOP	1	1
1-18	82-590-220-01		Bracket, ECM	*	1
1-19	82-641-210-01		Holder, ECM	1	1
1-20	82-590-213-01		Counter holder ass'y	*	1
1-21	82-641-214-01		Belt, Counter	1	1
1-22	87-040-144-01		Counter	1	1
1-23	09-017-833-01		Front panel ass'y	*	1
	82-590-051-01		Front panel	*	1
	82-590-053-01		Dial, Window	*	1
	82-590-020-01		Decorated plate	*	1
	82-590-233-01		Adhesive paper 7-60	*	1
	82-590-239-01		L-metal fitting	*	1
1-24	09-017-824-01		Cassette lid ass'y	*	1
	82-590-003-01		Cassette lid S ass'y	*	1
	82-590-019-01		Name plate	*	1
	82-590-232-01		Adhesive paper 9-98	*	1
	82-590-231-01		Cassette window, Adhesive paper	*	1
	82-590-010-01		Cassette window (Blue)	*	1
1-25	82-641-204-01		E-spring, Cassette lid	1	1
1-26	82-590-009-01		Battery room lid S	*	1
1-27	82-575-283-01		M cushion 30-8-3	1	1
1-28	82-636-601-01		Terminal plate, Battery	1	1
1-29	82-299-702-01		Terminal plate (-)	1	1
1-30	82-445-253-01		Rubber A, Carrying handle	1	1
1-31	82-590-230-01		Terminal plate, Battery	*	1
1-32	82-299-701-01		Terminal plate (+)	1	1
1-33	82-590-008-01		Holder S, Battery	*	1
1-34	82-590-238-01		Himeron cloth, Blind	*	1
1-35	82-590-235-01		Mylar sheet 20-35	*	1
1-36	82-590-236-01		Ribbon, Battery	*	1
1-37	82-641-228-01		Nylon sheet 12-3-0.3	1	1
1-38	82-590-022-01		Dial plate (Blue)	*	1
1-39	82-641-956-01		Strap ass'y	1	1
1-40	82-590-025-01		Holder, Strap	*	1
1-41	82-590-225-01		Tuning frame ass'y	*	1
1-42	87-096-086-01		Dial string 0.4φ	1	1
1-43	82-590-229-01		E-spring, Tuning	*	1
1-44	82-590-228-01		Drum, Tuning	*	1
1-45	82-590-021-01		Tuning pointer	*	1
1-46	82-590-015-01		Tuning knob	*	1
1-47	87-590-018-01		Plate knob 13	*	1
1-48	82-575-320-01		G cushion 3-3-2.5	3	3
1-49	87-033-170-01		Pin, 1-11	1	1



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1	86-388-015-01		Cap		2
2	86-388-010-01		Hanger L ass'y		1
3	86-388-011-01		Hanger R ass'y		1
4	86-388-012-01		Housing A		2
5	86-384-010-01		Driver unit		2
6	86-388-016-01		Housing B		2
7	86-388-018-01		Pad, Ear		2
8	86-388-021-01		Stopper A		1
9	86-388-013-01		Head band L		1
10	86-388-020-01		Spring		1
11	86-388-014-01		Head band R		1
12	86-388-022-01		Stopper B		1
13	86-388-019-01		Slide spring		2
14	86-384-020-01		Slide stopper		2
15	86-388-023-01		3.5φ cord ass'y		1

EXPLODED VIEW-2

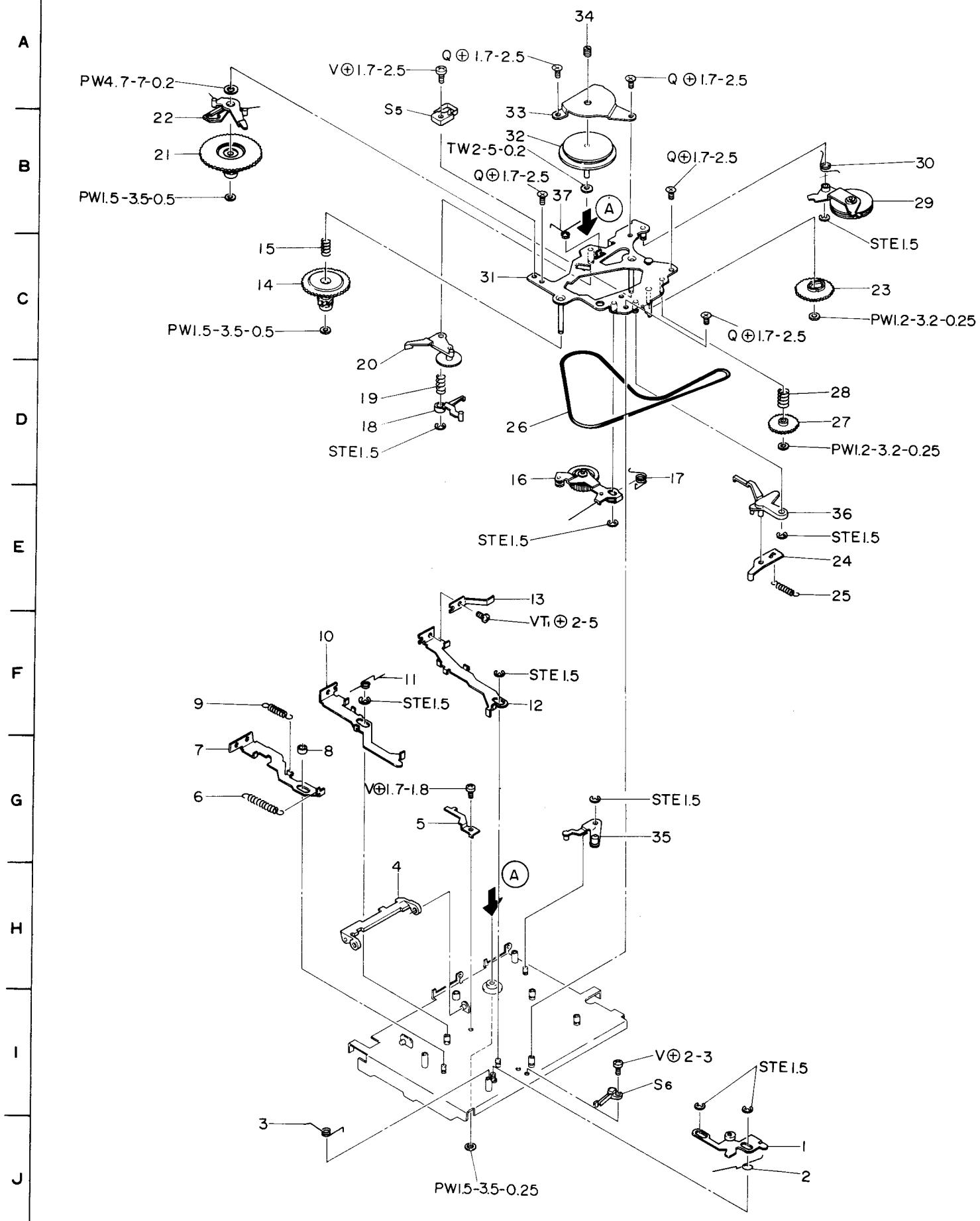
1 2 3 4 5 6 7



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
2-1	82-639-232-01		Arm actuating chassis B ass'y		1
2-2	82-639-396-01		E-spring, Eject		1
2-3	82-639-430-01		Washer, STOP lever		2
2-4	82-639-201-01		Chassis ass'y		1
2-5	82-639-252-01		Cam, Eject		1
2-6	82-639-378-01		Arm REC blocking ass'y		1
2-7	82-639-261-01		T-spring, REC lock		1
2-8	82-590-219-01		Arm, REC lock	*	1
2-9	82-639-251-01		T-spring, STOP lever		1
2-10	82-639-419-01		T-spring, Moving chassis		1
2-11	82-639-283-01		Gear, Counter		1
2-12	82-639-245-01		Lever, REC ass'y		1
2-13	82-639-246-01		T-spring, REC lever		1
2-14	82-639-411-01		Actuating chassis ass'y		1
2-15	82-639-405-01		Guide, Tape		1
2-16	82-639-250-01		Lever, STOP		1
2-17	82-590-023-01		Panel, Blind (Blue)	*	1
2-18	82-641-017-01		Label, Tape indication		1
2-19	82-639-281-01		Pinch lever ass'y		1
2-20	82-639-413-01		T-spring, Pinch lever		1
2-21	82-636-260-01		Collar, Motor		3
2-22	82-639-466-01		C-spring, Head		1
2-23	82-590-215-01		Motor holder ass'y	*	1
2-24	82-636-254-01		Rubber cushion		3

EXPLODED VIEW-3

1 2 3 4 5 6 7

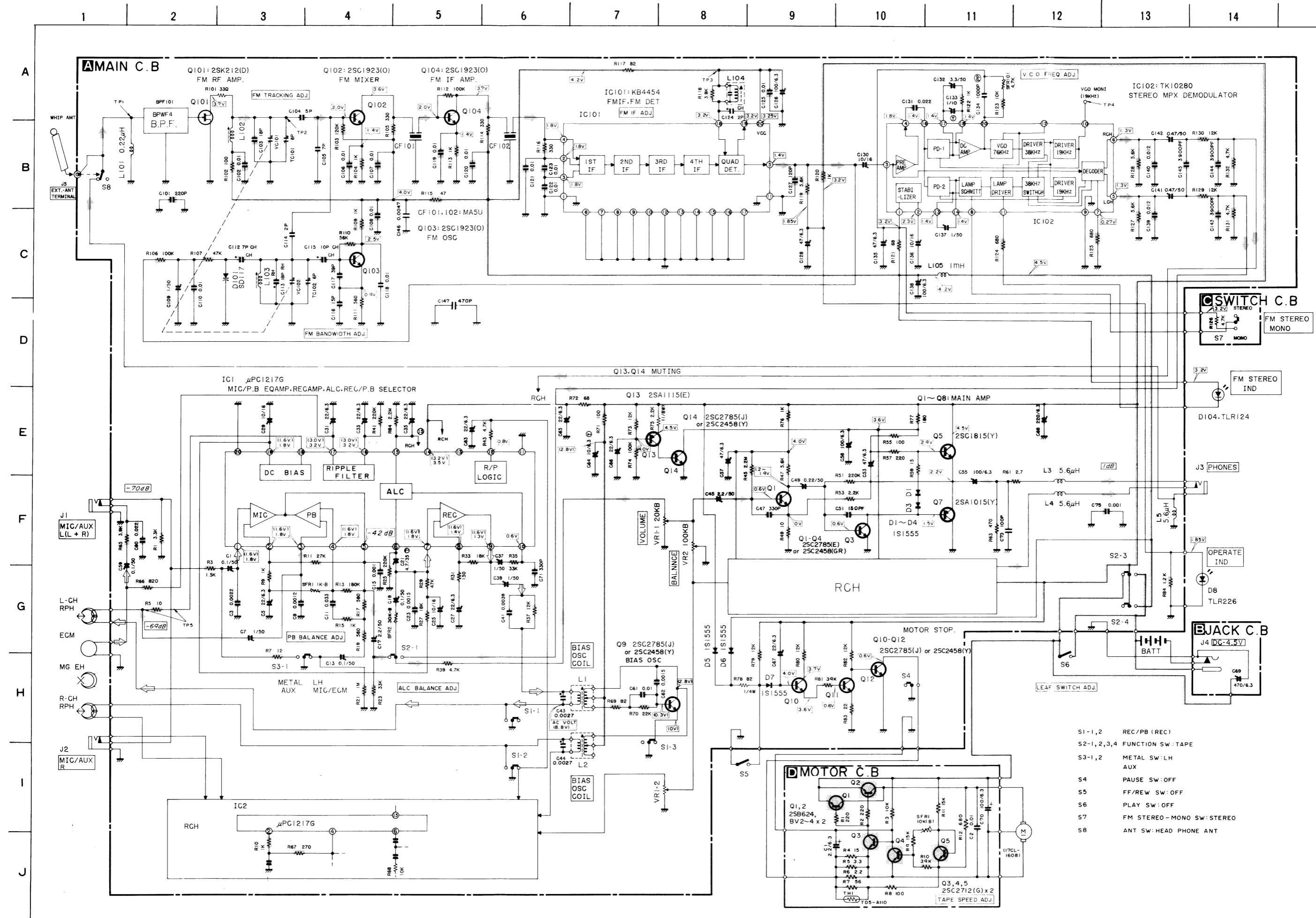


Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
3-1	82-639-273-01		Brake ass'y		1
3-2	82-639-262-01		T-spring, Eject arm		1
3-3	82-639-427-01		T-spring, REC B		1
3-4	82-639-270-01		Lock plate button		1
3-5	82-639-271-01		P-spring, Lock plate		1
3-6	82-639-243-01		E-spring, Play lever		1
3-7	82-639-242-01		Play lever		1
3-8	82-639-276-01		Roller, Brake		1
3-9	82-639-244-01		E-spring, Actuating chassis		1
3-10	82-639-240-01		Lever, REW		1
3-11	82-639-241-01		T-spring, FF/REW lever		1
3-12	82-639-238-01		Lever, FF		1
3-13	82-639-239-01		P-spring, FF lever		1
14~31	82-590-211-11		Bottom plate ass'y		1
3-14	82-639-325-01		Supply reel ass'y		1
3-15	82-639-375-01		C-spring, Back tension		1
3-16	82-639-340-01		Arm, REW gear ass'y		1
3-17	82-639-345-01		T-spring, REW gear		1
3-18	82-639-354-01		Arm, Sensor eject		1
3-19	82-639-442-01		C-spring, Auto eject		1
3-20	82-639-349-01		FF gear ass'y		1
3-21	82-639-313-01		Take-up reel ass'y		1
3-22	82-639-390-01		Sensor ass'y		1
3-23	82-639-360-01		Cam, Auto-stop		1
3-24	82-639-357-01		Arm, Eject gear		1
3-25	82-639-358-01		E-spring, Eject gear		1
3-26	82-590-212-01		Rubber belt	*	1
3-27	82-639-359-01		Gear, Auto-stop		1
3-28	82-639-421-01		C-spring, Cam auto gear		1
3-29	82-639-330-01		Take-up ass'y		1
3-30	82-639-339-01		T-sprung, Arm take-up		1
3-31	82-639-300-01		Bottom plate semi ass'y		1
3-32	82-639-289-01		Flywheel ass'y		1
3-33	82-639-287-01		Plate, Flywheel		1
3-34	82-639-361-01		Adjust screw		1
3-35	82-639-267-01		Take-up lever ass'y		1
3-36	82-639-356-01		Arm, Sensor		1
3-37	82-639-441-01		T-spring, FF gear A		1

ACCESSORIES / PACKAGE

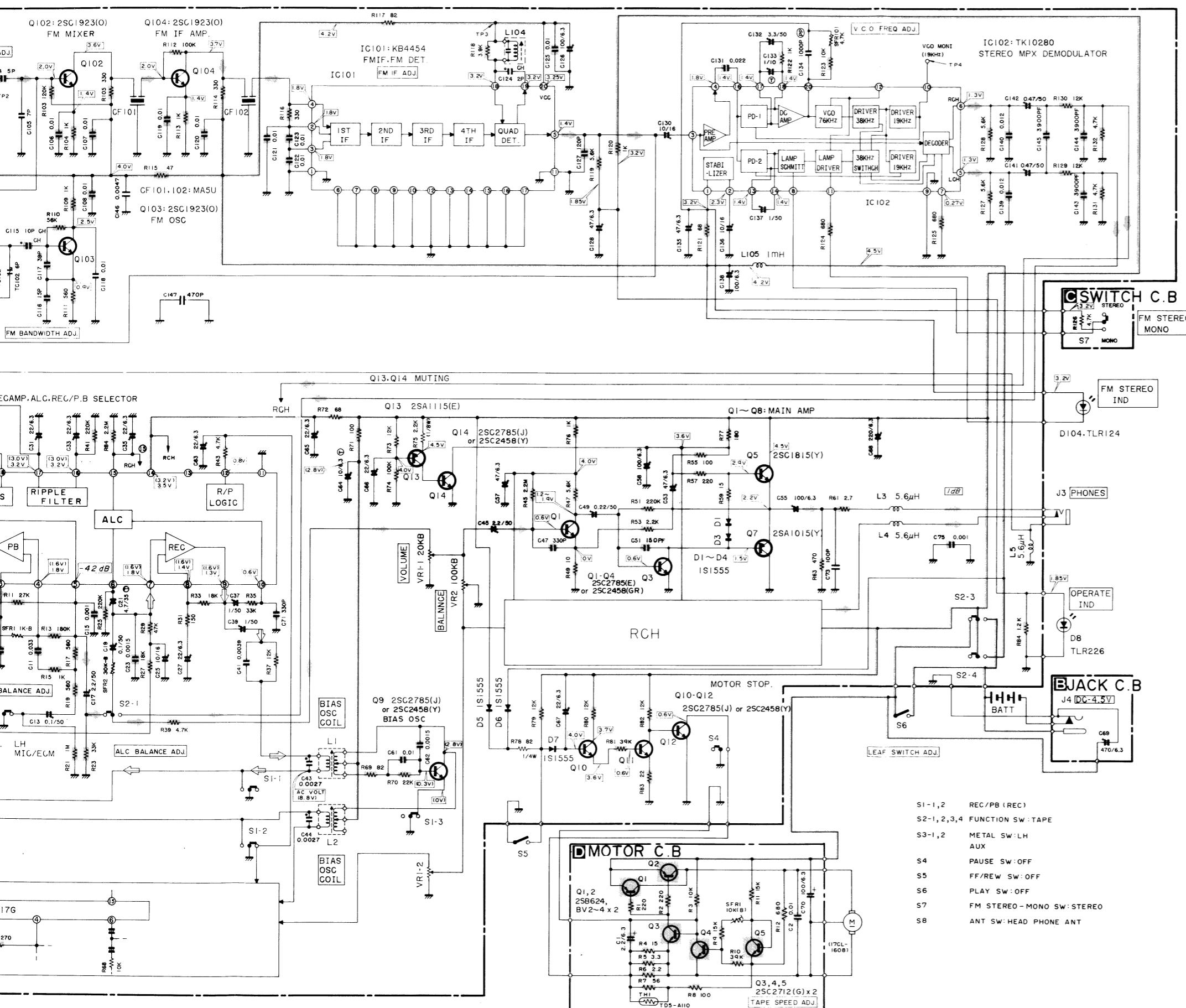
Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1	82-590-856-01		Printed indiv., Packing Y	*	1
2	82-590-861-01		Sheet Y, Auxiliary cushion	*	1
3	82-590-858-01		Cushion, Printed indiv.	*	1
4	87-051-131-11		Poly-vinyl sack		1
5	87-051-136-11		Poly-vinyl sack		1
6	82-590-904-01		Instructions bookelt	*	1
7	87-051-136-11		Poly-vinyl sack		1
8	87-056-009-41		Distributors list (Y,YG model only)		1
9	87-056-045-01		Guarantee card U (YU model only)		1
10	87-056-057-01		Service station list (YU model only)		1
11	87-056-059-01		Guarantee card G (YG model only)		1
12	82-590-952-01		Carrying case EX	*	1
13	82-590-953-01		Band holder	*	1
14	82-641-956-01		Strap ass'y		1
15	82-916-730-01		Tape cassette DMC-163		1
16	86-388-001-01		Headphone HP-M5K		1
17	09-017-825-01		Antenna ass'y	*	1

SCHEMATIC DIAGRAM



NOTES:
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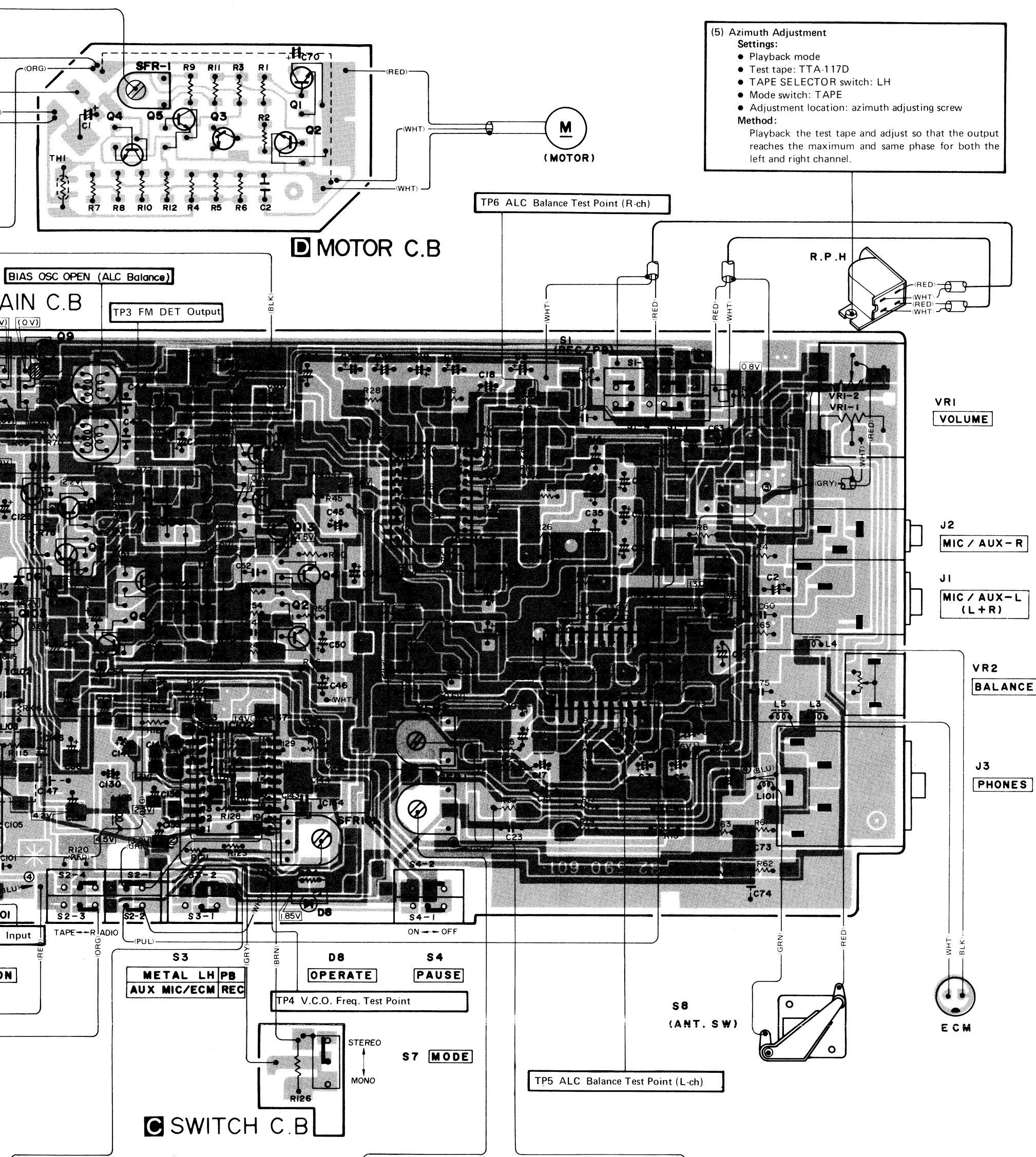
ELECTRICAL MAIN PARTS LIST

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description	Symbol No.	Part No.	Description				
<MAIN CIRCUIT BOARD SECTION>												
PCB-A	82-590-601-21	Main circuit board	Q9,10,11, 12,14	89-324-584-01	Transistor, 2SC2458 (Y)	C64	87-015-843-01	10 μ F 6.3V Tantalum				
< Tuner section >												
IC101	87-027-748-01	IC, KB4454	(Q9,10,11, 12,14)	89-327-852-01	Transistor, 2SC2758 (J)	C51,53	87-015-766-01	150pF Chip capacitor				
IC102	87-027-763-01	IC, TK10280	Q13	89-111-154-01	Transistor, 2SA1115 (E)	C47,48	87-015-770-01	330pF Chip capacitor				
Q101	89-502-124-01	FET, 2SK212 (D)	D1,2,3,4, 5,6,7	87-027-097-01	Diode, 1S1555	C15,16,75	87-015-776-01	0.001 μ F Chip capacitor				
Q102,103,104	89-319-233-01	Transistor, 2SC1923 (O)	D8	87-027-636-01	LED, TLR226	C9,10	87-015-826-01	0.0012 μ F Chip capacitor				
D101	87-017-004-01	Diode, SD117	L1,2	82-641-612-01	Bias, OSC coil	C23,24,62	87-015-825-01	0.0015 μ F Chip capacitor				
D104	87-027-262-01	LED, TLR124	L3,4,5	87-003-061-01	Choke coil, 5.6 μ H	C3,4	87-015-817-01	0.0022 μ F Chip capacitor				
L101	87-003-063-01	Coil, 0.22 μ H	J1,2	87-032-978-01	Jack, 3.5 ϕ (MIC/AUX)	C41,42	87-015-824-01	0.0039 μ F Chip capacitor				
L102,103	87-006-055-01	FM RF coil, FM OSC coil	J3	87-049-012-01	Jack, 3.5 ϕ (PHONES)	C61	87-015-819-01	0.01 μ F Chip capacitor				
L104	82-590-603-01	Quad coil, DET 5SH	S1	87-031-593-01	Slide switch (REC/PB)	C60	87-015-883-01	0.022 μ F Chip capacitor				
L105	87-003-062-01	Choke coil, 1mH	S2	87-031-629-01	Slide switch (RADIO/TAPE)	C11,12	87-015-834-01	0.033 μ F Chip capacitor				
VC101,102	87-011-125-01	PVC	S3,4	87-031-595-01	Slide switch (LH/AUX, PAUSE)	< JACK CIRCUIT BOARD SECTION >						
TC101,102	87-011-124-01	Trimmer, 6pF	VR1	82-641-603-11	Volume, 20k Ω -A (VOLUME)	PCB-B	82-590-602-01	Jack circuit board				
BPF101	87-030-082-01	Band pass filter	VR2	87-021-640-01	Volume, 100k Ω -B (BALANCE)	J4	87-049-048-01	DC jack				
CF101,102	87-008-229-01	Ceramic filter MA5U	SFR1	87-021-673-01	Semi-fixed resistor, 1k Ω -B	< SWITCH CIRCUIT BOARD SECTION >						
SFR101	87-021-643-01	Semi-fixed resistor, 4.7k Ω -B	SFR2	87-021-674-01	Semi-fixed resistor, 30k Ω -B	PCB-C	82-590-610-01	Switch circuit board				
< Resistors >												
R115	88-129-470-01	47 Ω Chip resistor	R61,62	88-129-279-01	2.7 Ω Chip resistor	S7	87-031-632-01	Slide switch (STEREO/MONO)				
R121	88-129-680-01	68 Ω Chip resistor	R5,6,49,50	88-129-100-01	10 Ω Chip resistor	< MISCELLANEOUS >						
R117	88-129-820-01	82 Ω Chip resistor	R7,8	88-129-120-01	12 Ω Chip resistor	RPH	87-046-193-01	REC/PB head				
R102	88-129-101-01	100 Ω Chip resistor	R59,60	88-129-150-01	15 Ω Chip resistor	EH	82-424-625-01	Erase head				
R105,114,116	88-129-331-01	330 Ω Chip resistor	R83	88-129-220-01	22 Ω Chip resistor	M·PCB-D	86-636-810-01	Motor, 17CL-1608 W/Motor circuit board				
R120	88-129-471-01	470 Ω Chip resistor	R72	88-129-680-01	68 Ω Chip resistor	J5	82-590-241-01	Antenna jack ass'y (EXT·ANT TERMINAL)				
R111	88-129-561-01	560 Ω Chip resistor	R55,56,71	88-129-101-01	100 Ω Chip resistor	S5	82-641-604-01	Leaf switch (FF/REW)				
R124,125	88-129-681-01	680 Ω Chip resistor	R31,32	88-129-151-01	150 Ω Chip resistor	S6	87-031-548-01	Leaf switch (PLAY)				
R104,109,113, 120,122	88-129-102-01	1k Ω Chip resistor	R77	88-129-181-01	180 Ω Chip resistor	ECM	87-049-019-01	ECM				
R118	88-129-392-01	3.9k Ω Chip resistor	R57,58	88-129-221-01	220 Ω Chip resistor							
R131,132	88-129-472-01	4.7k Ω Chip resistor	R67	88-129-271-01	270 Ω Chip resistor							
R119,127,128	88-129-562-01	5.6k Ω Chip resistor	R63,64	88-129-471-01	470 Ω Chip resistor							
R123	88-129-103-01	10k Ω Chip resistor	R17,18,19,	88-129-561-01	560 Ω Chip resistor							
R129,130	88-129-123-01	12k Ω Chip resistor	20	< Capacitors >								
R107,108	88-129-473-01	47k Ω Chip resistor	R24,25,69	88-129-681-01	680 Ω Chip resistor	C134	87-014-057-01	1000pF PP				
R110	88-129-563-01	56k Ω Chip resistor	R9,10,15,16,	88-129-102-01	1k Ω Chip resistor	C133	87-015-376-01	1 μ F 10V Tantalum				
R106,112	88-129-104-01	100k Ω Chip resistor	76	< Resistors >								
R103	88-129-124-01	120k Ω Chip resistor	R3,4	88-129-152-01	1.5k Ω Chip resistor	C114,124	87-015-880-01	2pF Chip capacitor				
< Capacitors >			R53,54,66	88-129-222-01	2.2k Ω Chip resistor	C104	87-015-746-01	5pF Chip capacitor				
C134	87-014-057-01	1000pF PP	R1,2	88-129-332-01	3.3k Ω Chip resistor	C105,112	87-015-748-01	7pF Chip capacitor				
C133	87-015-376-01	1 μ F 10V Tantalum	R65	88-129-392-01	3.9k Ω Chip resistor	C115	87-015-879-01	10pF Chip capacitor				
C114,124	87-015-880-01	2pF Chip capacitor	R39,40,43, 44	88-129-472-01	4.7k Ω Chip resistor	C116	87-015-753-01	15pF Chip capacitor				
C104	87-015-746-01	5pF Chip capacitor	R47,48	88-129-562-01	5.6k Ω Chip resistor	C103	87-015-754-01	18pF Chip capacitor				
C105,112	87-015-748-01	7pF Chip capacitor	R68	88-129-103-01	10k Ω Chip resistor	C117	87-015-759-01	39pF Chip capacitor				
C115	87-015-879-01	10pF Chip capacitor	R37,38,73, 79,80,82	88-129-123-01	12k Ω Chip resistor	C127	87-015-765-01	120pF Chip capacitor				
C116	87-015-753-01	15pF Chip capacitor	R27,28,33	88-129-183-01	18k Ω Chip resistor	C143,144,145	87-015-824-01	3900pF Chip capacitor				
C103	87-015-754-01	18pF Chip capacitor	34	88-129-223-01	22k Ω Chip resistor	C102,106,107, 108,110,111, 119,120,121, 122,123,125,	87-015-819-01	0.01 μ F Chip capacitor				
C117	87-015-759-01	39pF Chip capacitor	R70	88-129-273-01	27k Ω Chip resistor	C139,140	87-015-882-01	0.012 μ F Chip capacitor				
C127	87-015-765-01	120pF Chip capacitor	R11,12	88-129-333-01	33k Ω Chip resistor	C131	87-015-883-01	0.022 μ F Chip capacitor				
C143,144,145	87-015-824-01	3900pF Chip capacitor	R23,24,35, 36	88-129-393-01	39k Ω Chip resistor	< Audio section >						
C102,106,107, 108,110,111, 119,120,121, 122,123,125,	87-015-819-01	0.01 μ F Chip capacitor	R29,30	88-129-473-01	47k Ω Chip resistor	IC1,2	87-027-745-01	IC, μ PC1217G				
C139,140	87-015-882-01	0.012 μ F Chip capacitor	R74	88-129-104-01	100k Ω Chip resistor	Q1,2,3,4 (Q1,2,3,4)	89-324-585-01	Transistor, 2SC2458 (GR)				
C131	87-015-883-01	0.022 μ F Chip capacitor	R13,14	88-129-184-01	180k Ω Chip resistor	Q5,6	89-318-154-01	Transistor, 2SC1815 (Y)				
< Audio section >			R25,26,41, 42,51,52	88-129-224-01	220k Ω Chip resistor	Q7,8	89-110-154-01	Transistor, 2SA1015 (Y)				
< Capacitors >			R21	88-129-105-01	1M Ω Chip resistor							
			R45,46,84	88-129-225-01	2.2M Ω Chip resistor							
< Capacitors >												

no signals.
recording.

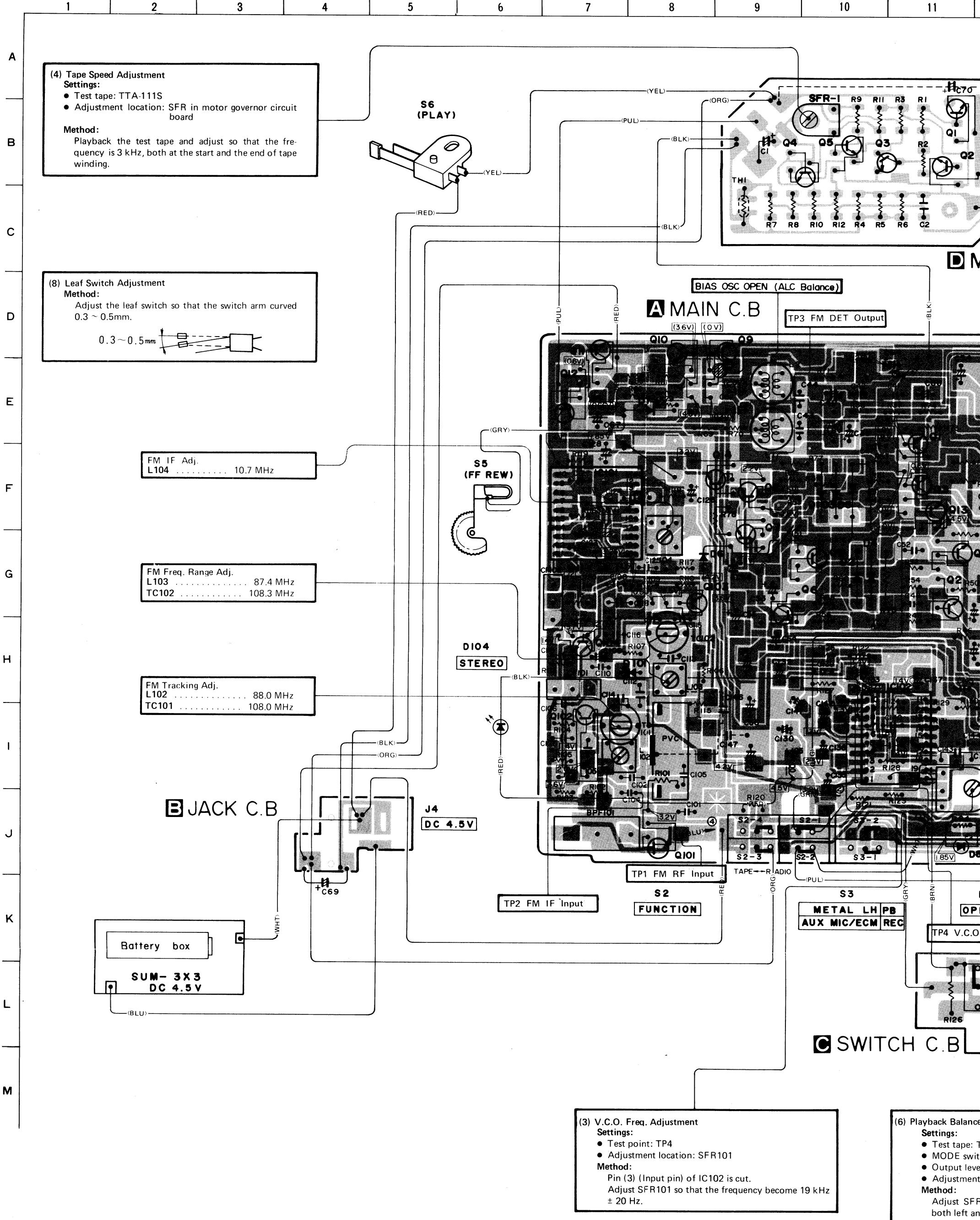
CS-JIY,YU,YG

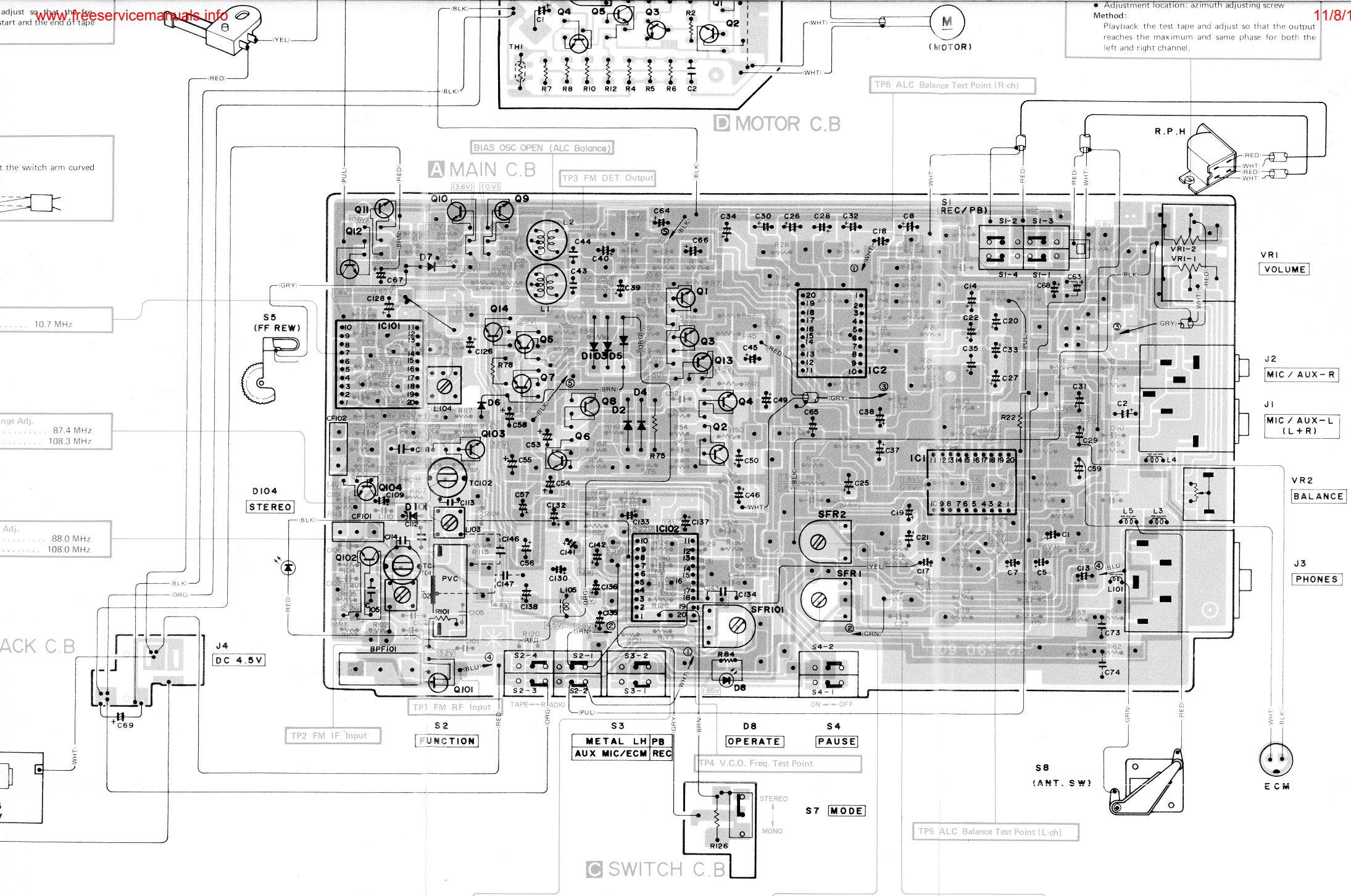
9 10 11 12 13 14 15 16 17 18 19



WIRING-1

NOTES (1) B(+) Pattern Component side pattern Others pattern
(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals. An asterisk (*) indicates that the value was measured with a vacuum-tube voltmeter during recording.





(3) V.C.O. Freq. Adjustment

Settings:

Published in Heiloo, Holland.

(7) ALC Balance Adjustment

Settings:

S
n: SFR in motor governor circuit
board

tape and adjust so that the frequency is the same at the start and the end of tape.

atch so that the switch arm curves

turn so that the switch arm

M IF Adj.
104 10.7 MH

M Freq. Range Adj.
103 87.4 MHz
C102 108.3 MHz

Tracking Adj.
102 88.0 MHz
C101 108.0 MHz

B JACK C.B

WHT

M- 3 X 3

