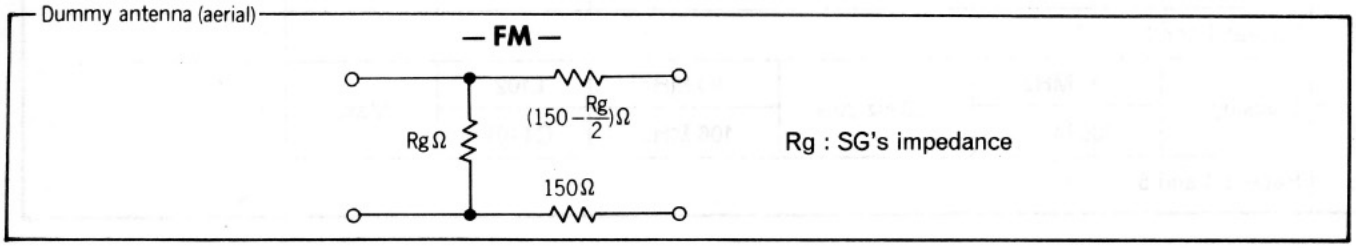
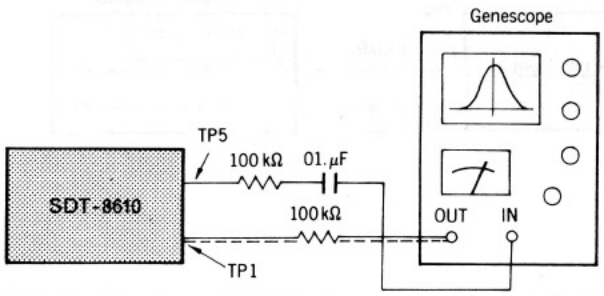
ADJUSTMENT

Tuner



FM IF adjustment

1. Connection

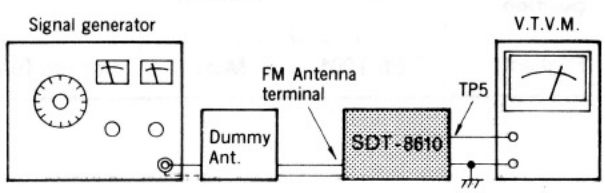


2. Adjustment

Genescope	Dial pointer position	Adjust	Reading	Remarks
10.7 MHz	Highest	T203	——	Turn the T203 fully clockwise.
		T102, T202	Maximum fc	1) fc : Specified centre frequency of the ceramic filter. 2) Reduce the level of the genescope so that the waveform will be one.
		T203		Adjust the T203 so that the output is like the S curve for symmetrical sinewave.
		T202		Adjust the T202 so that the straight line of the S curve can be achieved.

FM RF (Covering and Tracking) adjustment

1. Connection

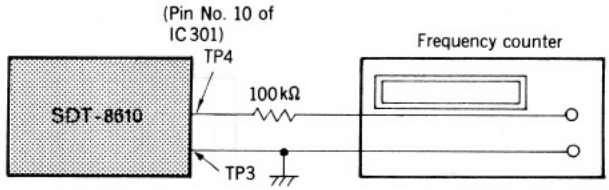


2. Adjustment

Item		Signal generator		Dial pointer position	Adjust	Reading	Remarks
		Frequency	Modulation				
1	Covering	87 MHz	400 Hz 30%	Lowest	L104	Max.	
2		109 MHz		Highest	CT102		
3	Repeat 1 and 2.						———
4	Tracking	90 MHz	400 Hz 30%	90 MHz	L102	Max.	
5		106 MHz		106 MHz	CT101		
6	Repeat 4 and 5.						

FM MPX (Multiplex) adjustment

1. Connection

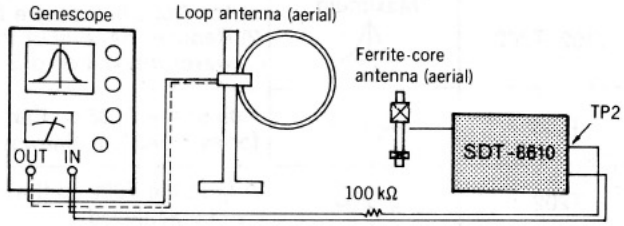


2. Adjustment

Adjust	Reading	Remarks
RT301	19 kHz±100 Hz	———

AM IF adjustment

1. Connection

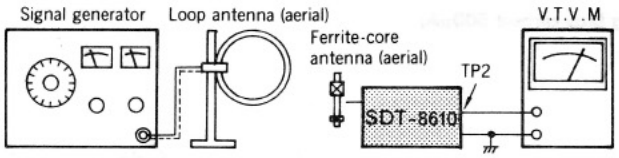


2.Adjustment

Genescope		Dial pointer position	Adjust	Reading	Remarks
Frequency	Modulation				
455 kHz	———	Highest	T151, T201	Max.	Set the function selector to the "AM".

AM RF (Covering and Tracking) adjustment

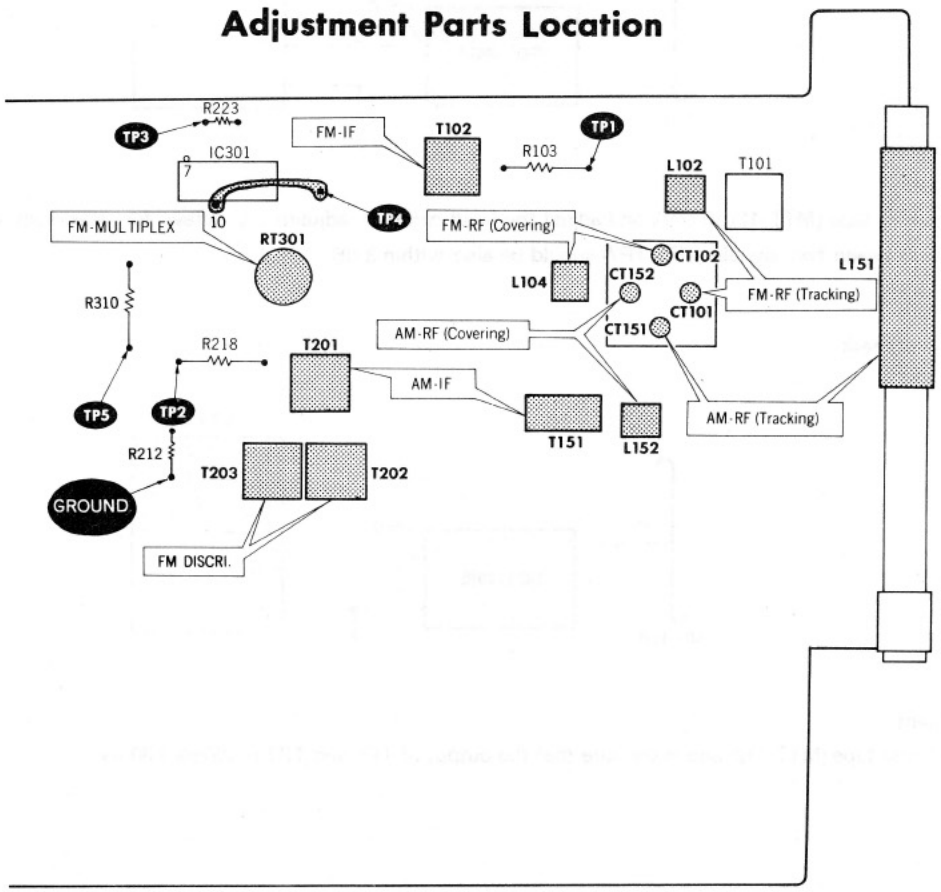
1. Connection



2. Adjustment

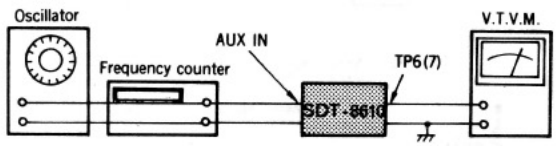
	Item	Signal generator		Dial pointer position	Adjust	Reading	Remarks
		Frequency	Modulation				
1	Covering	515 kHz	400 Hz 30%	Lowest	L152	Max.	
2		1650 kHz		Highest	CT152		
3	Repeat 1 and 2.						
4	Tracking	600 kHz	400 Hz 30%	600 kHz	L151	Max.	
5		1400 kHz		1400 kHz	CT151		
6	Repeat 4 and 5.						

Adjustment Parts Location



Recording level adjustment

1. Connection



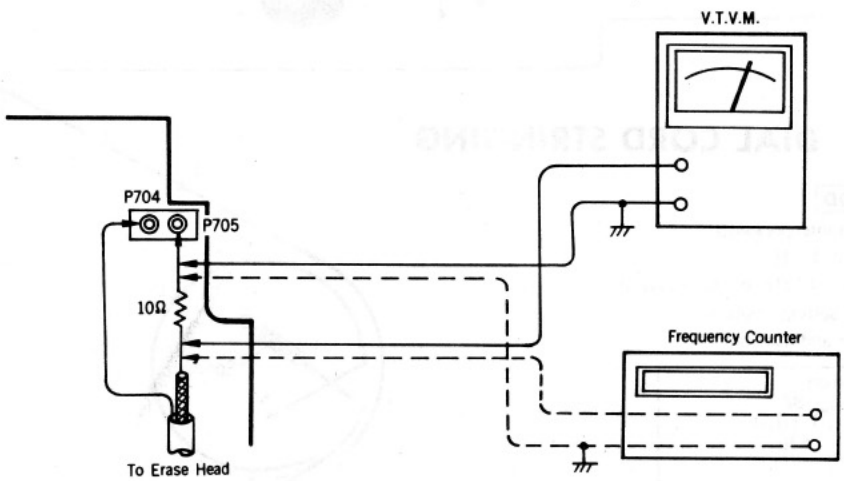
2. Adjustment

Feed a signal of 1 kHz, 300mV into LINE IN jacks and record it on a normal tape. Playback the tape and make sure that the VU meter deflects within 0VU ± 3 dB.

When the output difference between the TP6 and TP7 is over 3 dB, short out R724 (A, B) of the channel with the larger output.

Erase bias current oscillator frequency check

1. Connection

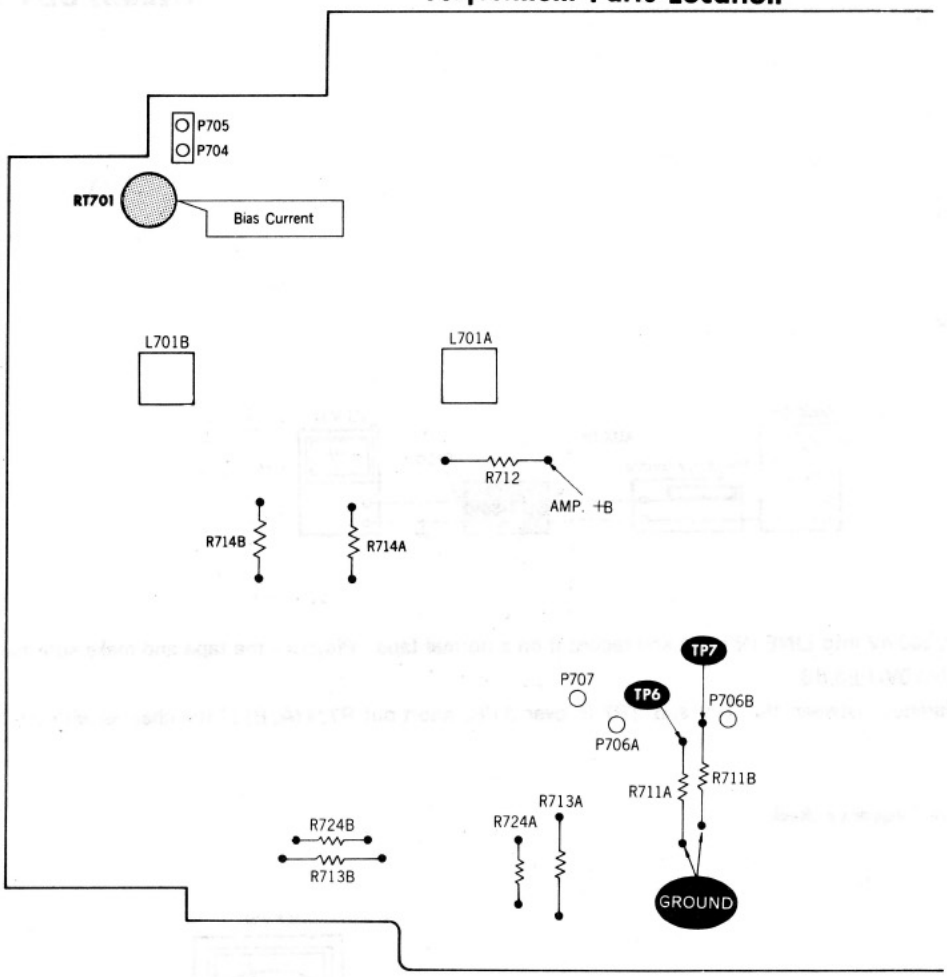


2. Adjustment

1) Connect a 10Ω resistor between the shield wire side of the erase head and P704. Connect the V.T.V.M. to both ends of this resistor and make sure that the voltage is 400mV or more.

2) Connect a frequency counter to both ends of the above 10Ω resistor, and check for a reading of 50 kHz ± 5 kHz.

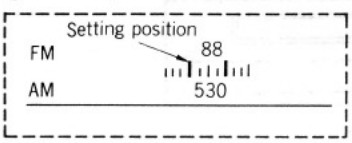
Adjustment Parts Location



DIAL CORD STRINGING

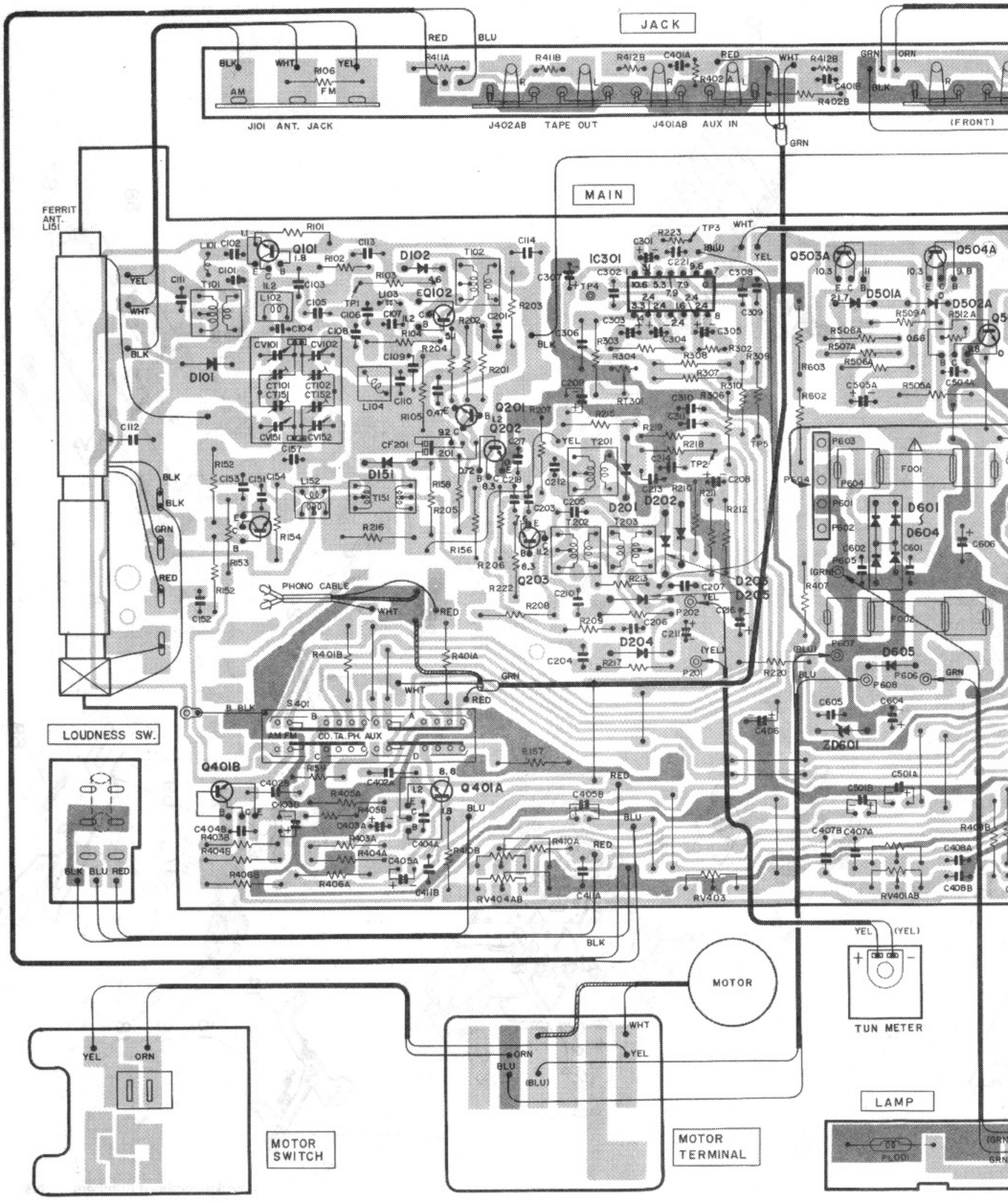
STRING METHOD

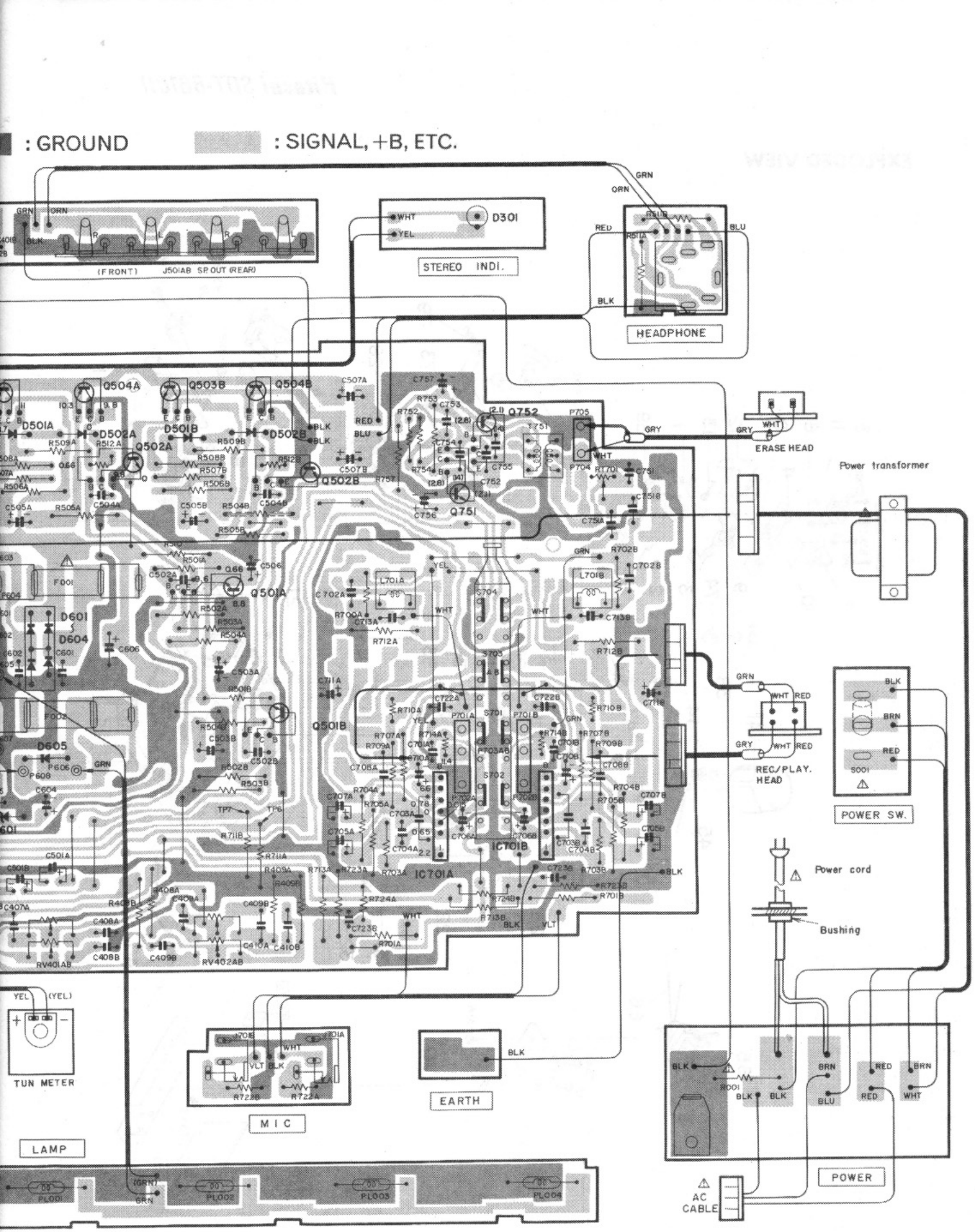
1. Turn pulley counterclockwise.
2. String dial cord (1~15).
3. Turn tuning shaft fully counterclockwise.
4. Set pointer to setting position.
5. Adhere pointer and dial cord.



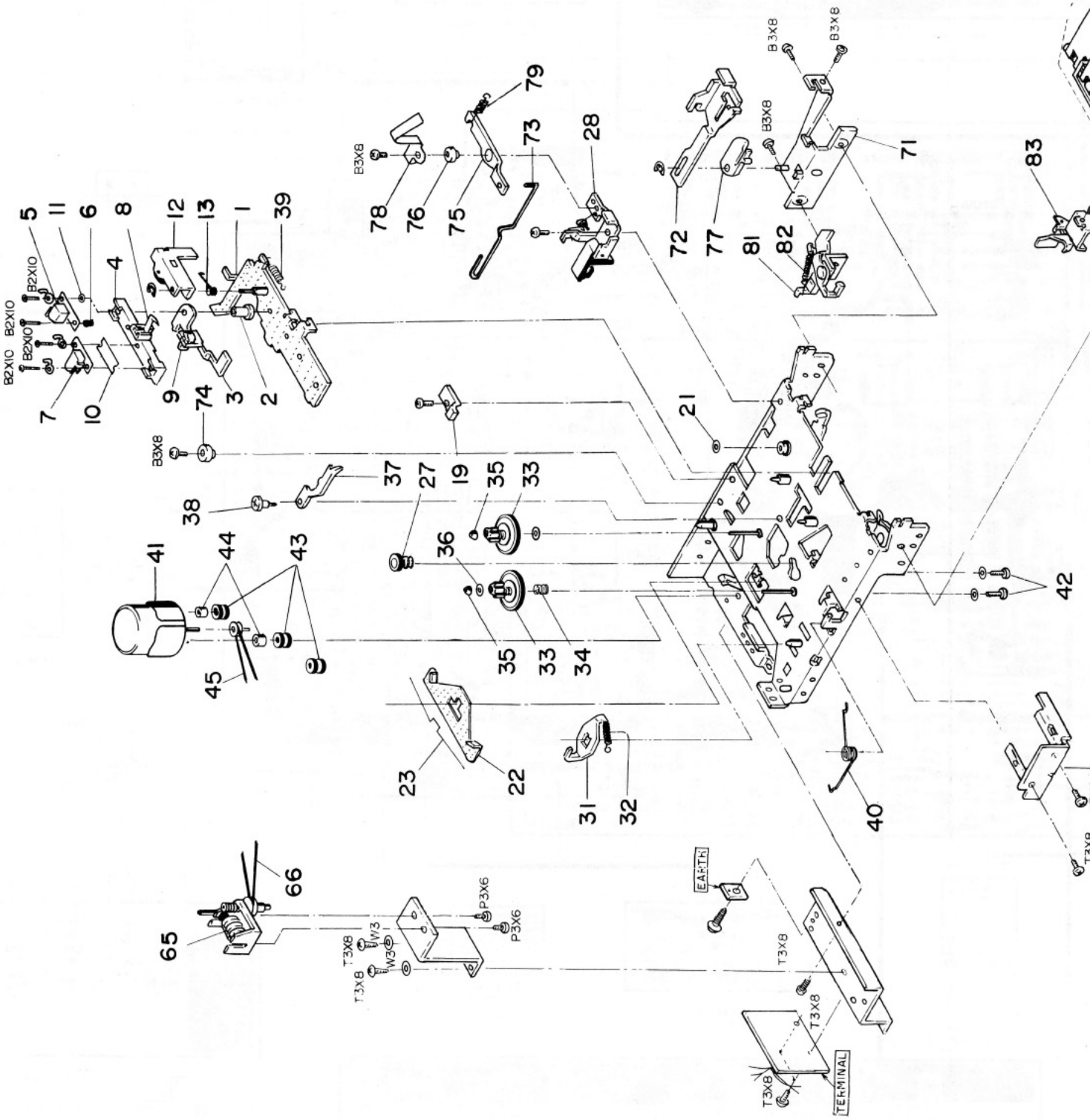
CIRCUIT BOARD DIAGRAM

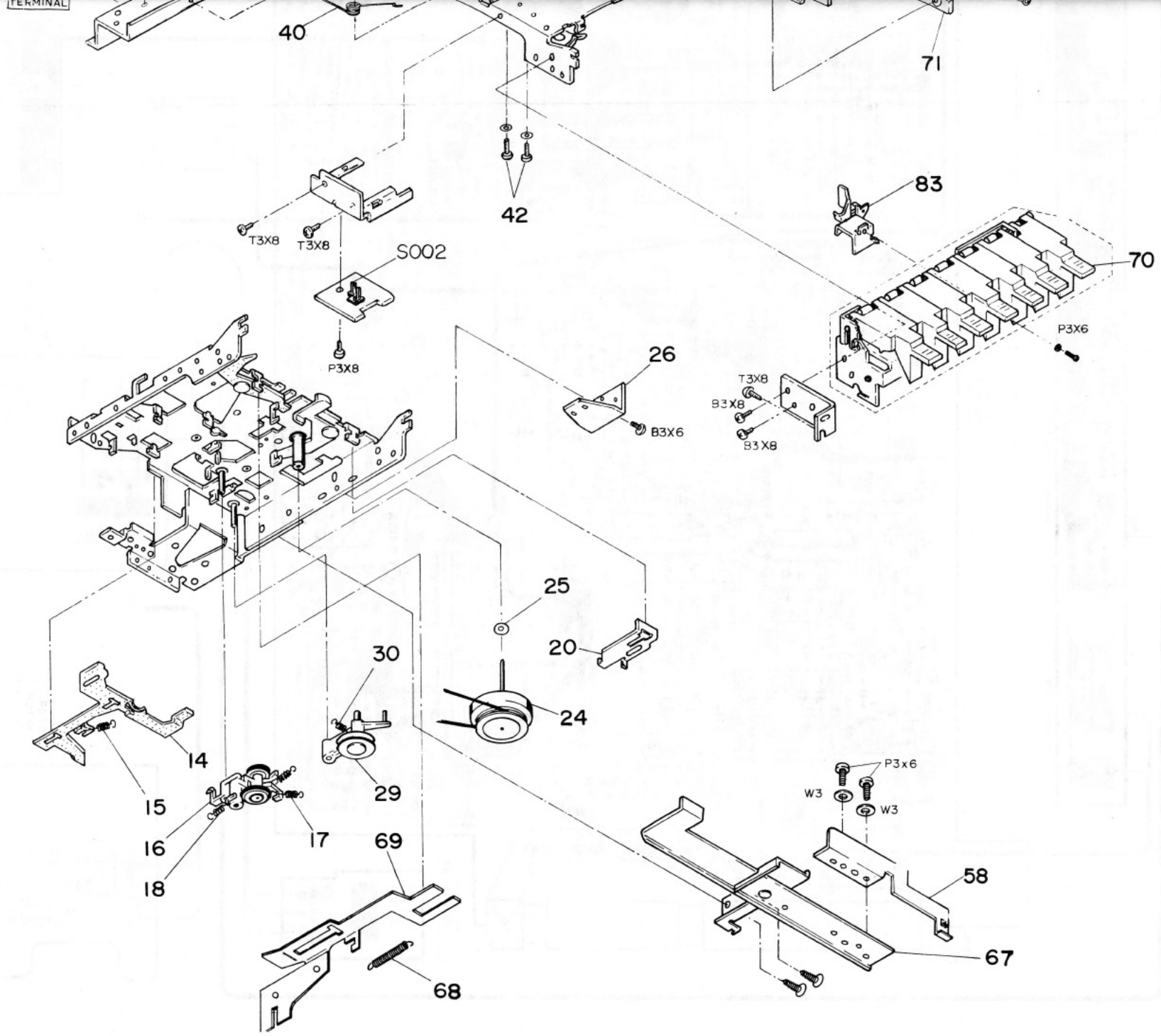
: GROUND




: GROUND
: SIGNAL, +B, ETC.
(FRONT)
J501AB SP OUT (REAR)
D301
STEREO INDI.
HEADPHONE
ERASE HEAD
Power transformer
REC/PLAY. HEAD
POWER SW.
Power cord
Bushing
TUN METER
LAMP
MIC
EARTH
POWER
AC CABLE
IC701A
IC701B
Q501A
Q501B
Q502A
Q502B
Q503B
Q504A
Q504B
Q751
Q752

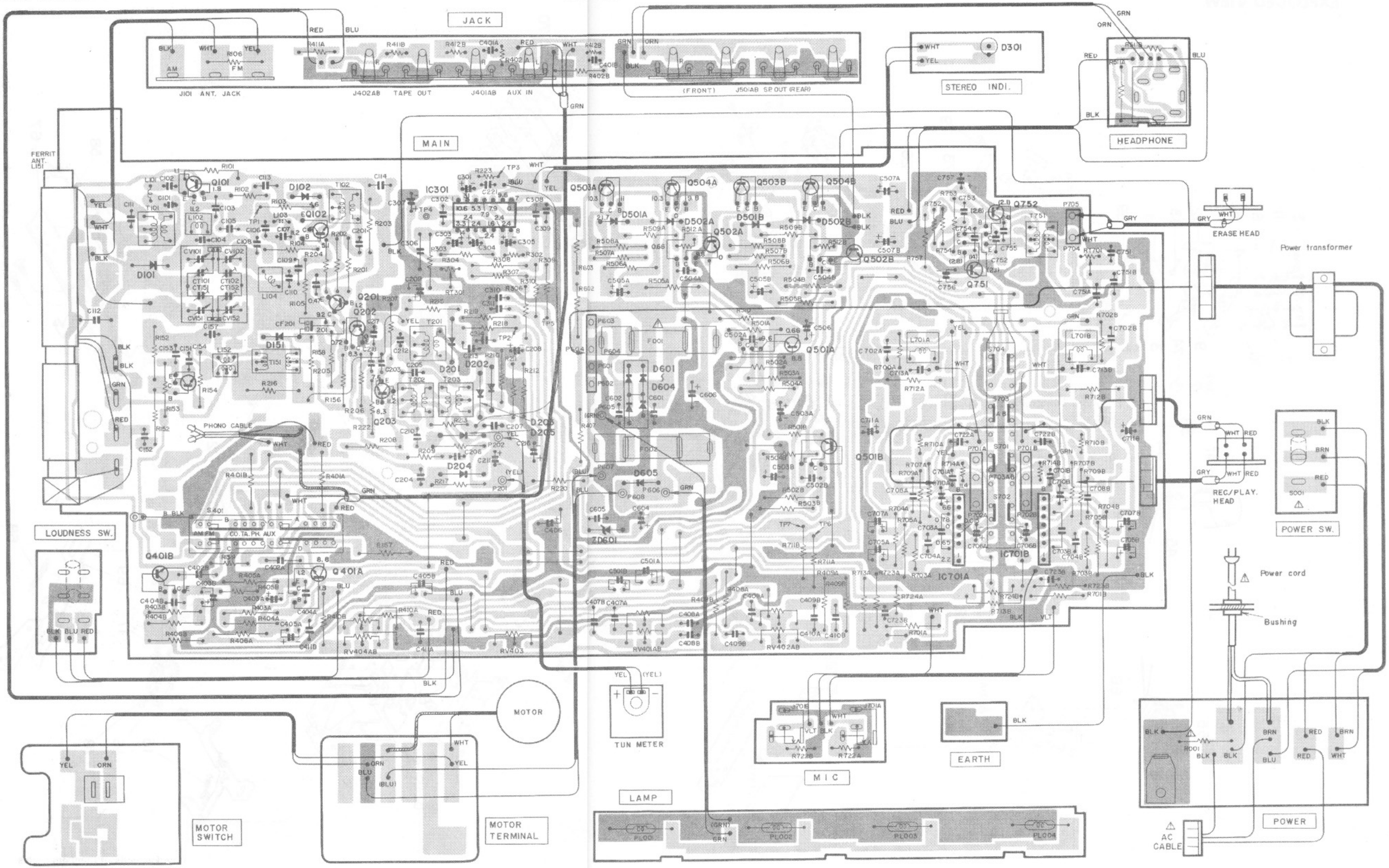
EXPLODED VIEW



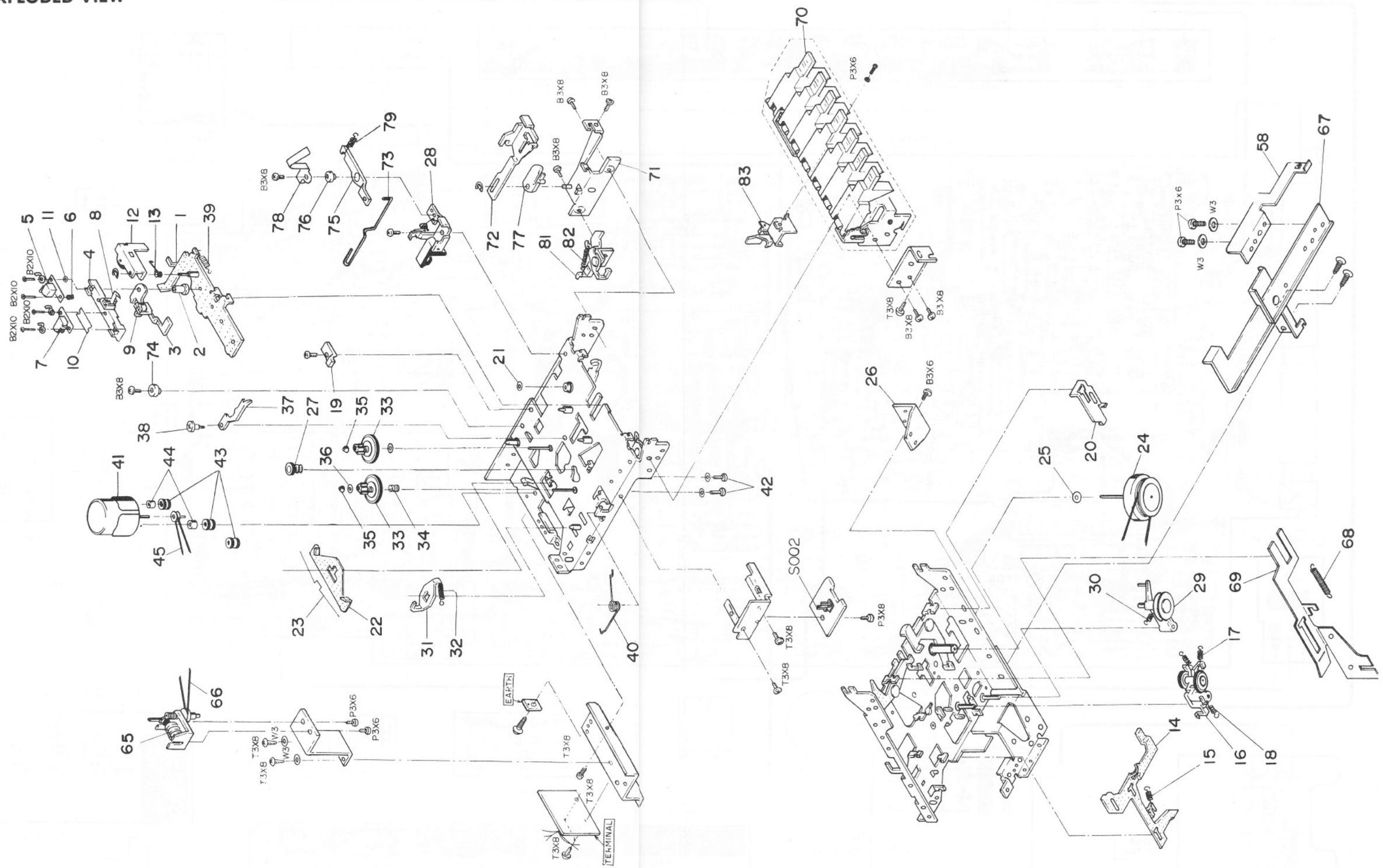

TERMINAL
40
71
42
T3X8
T3X8
S002
P3X8
83
70
P3X6
T3X8
B3X8
B3X8
26
B3X6
25
20
30
24
14
15
16
18
17
29
69
68
P3x6
W3
W3
58
67

CIRCUIT BOARD DIAGRAM

: GROUND : SIGNAL, +B, ETC.



EXPLODED VIEW



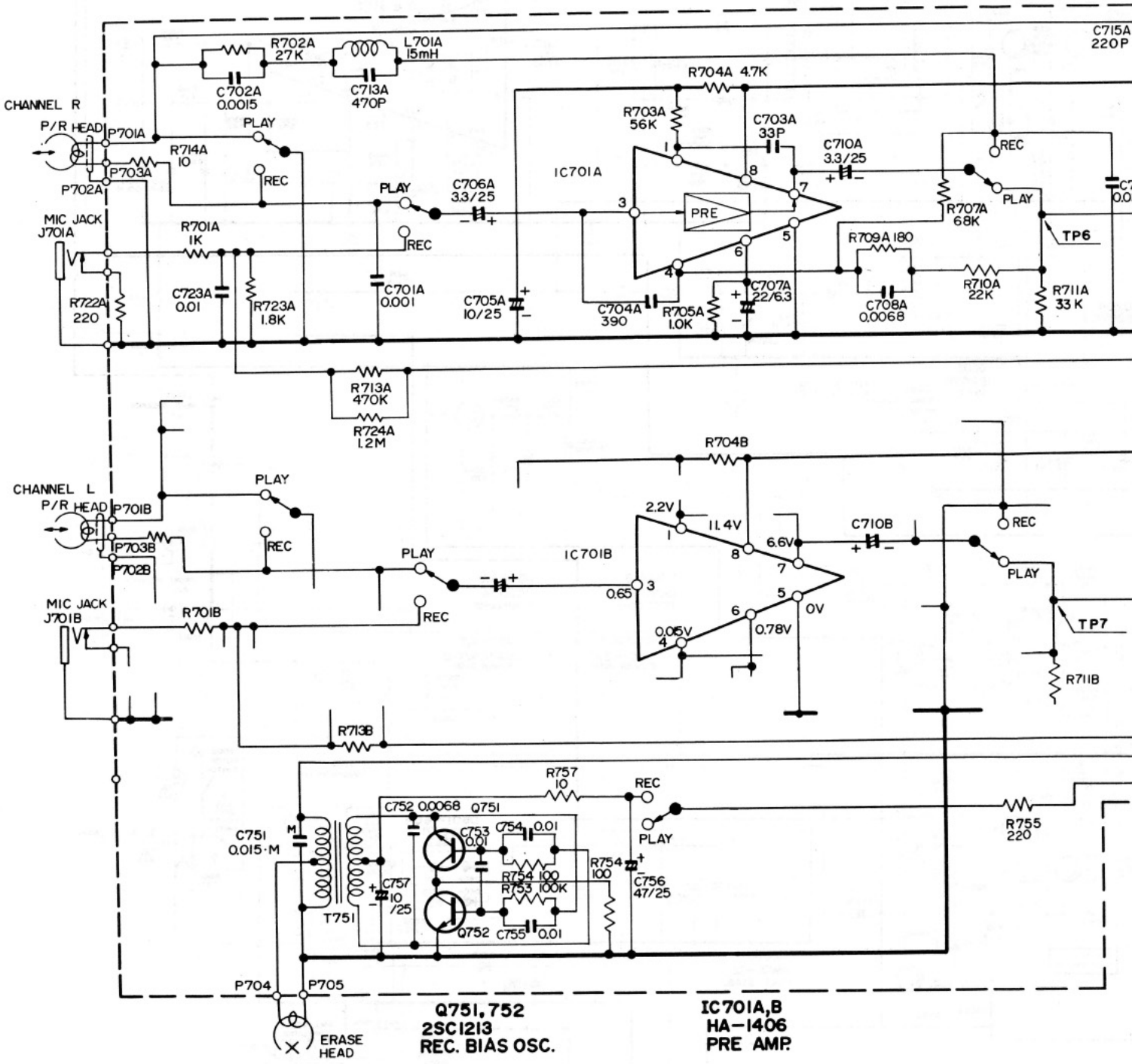
SYMBOL-NO	P-NO	DESCRIPTION
		FOR CASSETTE DECK ASSEMBLY (A)
1	7264312	HEAD PLATE ASSEMBLY
2	7535222	COLLAR
3	7262163	PICK UP ARM
4	6731114	HEAD BASE
5	5443071	RECORD PLAYBACK HEAD
6	6321733	HEAD SPRING C
7	5445061	ERASE HEAD
8	6325931	HEAD PLATE SUPPORTER
9	6730821	PICK UP PIECE
10	7767371	HEAD SPACER
11	7771441	WASHER - 2 MMD
12	7239877	PINCH ROLLER ARM ASSEMBLY
13	6306622	SPRING
14	7239785	BRAKE FUNCTION PLATE
15	6323063	SPRING
16	6411531	PULLEY ASSEMBLY
17	6324154	PULLEY SPRING 2
18	6300401	SPRING
19	7123283	HEAD PLATE GUIDE
20	7239791	EJECT FUNCTION PLATE
21	7771912	NYLON WASHER
22	7239742	BRAKE PLATE
23	6321565	SPRING
24	6721822	FLYWHEEL ASSEMBLY
25	7778183	POLYESTER WASHER
26	7239824	FLYWHEEL SUPPORTING PLATE
27	6381072	IDLER ASSEMBLY
28	7158019	EJECT ASSEMBLY
29	6721836	TAKE UP PULLEY ASSEMBLY
30	6321684	SPRING
31	7239893	RECORDING PREVENTION PLATE
32	6322661	SPRING
33	7667667	TURNTABLE ASSEMBLY
34	6320731	BACK TENSION SPRING LEFT
35	0930002	CAP
36	0948831	POLYESTER WASHER TURNTABLE MOUNTING
37	7264821	LOCK LEVER
38	7535183	PIN
39	6303072	SPRING
40	6306304	SPRING
41	5572201	MICRO MOTOR 100G 30MW
42	0711309	PAN HEAD SCREW - 2.6MMD X 9MM
43	7669151	RUBBER PLATE
44	7515513	COLLAR PLATE
45	6350621	BELT-MICRO MOTOR 1.2D

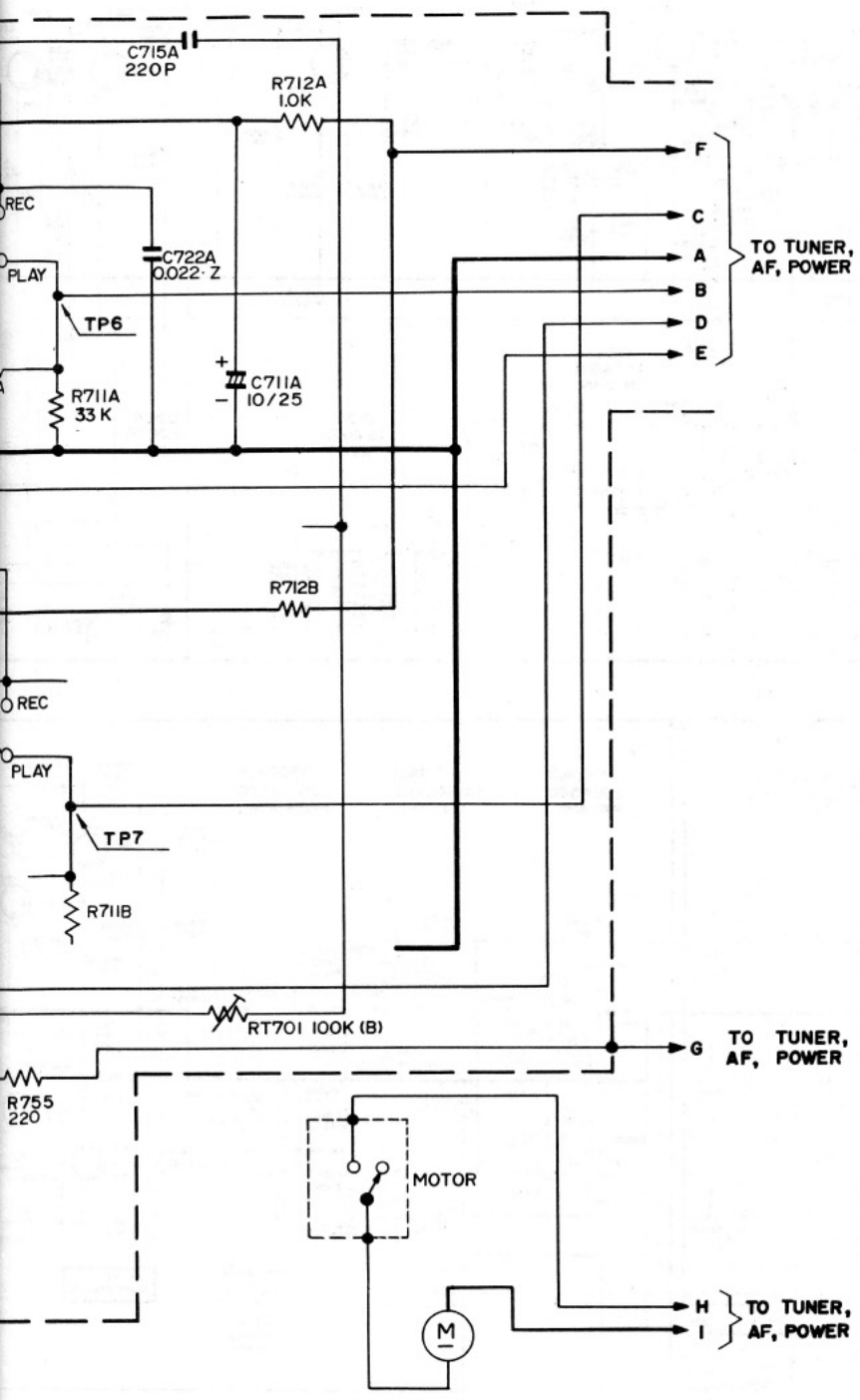
SYMBOL-NO	P-NO	DESCRIPTION
		FOR CASSETTE DECK ASSEMBLY (B)
46	7781133	BT SCREW-3MMD
47	6220971	PANEL CHASSIS
48	6746491	TUNING HOLDER
49	7581501	TUNING SHAFT
50	6344111	ROLLER-13MMD
51	7564281	ROLLER PIN
52	6629272	FRONT METAL ASSEMBLY
53	6629261	METAL (A)
54	6193001	BOTTOM PLATE
55	7666162	RUBBER LEG
56	6139331	BOTTOM CASE
57	7666162	RUBBER LEG
58	6530731	RECORDING SPRING
59	6467031	SCALE PLATE
60	6398382	POINTER ASSEMBLY
61	6345681	PULLEY
62	6316232	SPRING M
63	7444091	CLIP ANTENNA
64	0043793	BUSHING NYLON
65	5551706	COUNTER
66	7668061	COUNTER BELT
67	7283701	RECORDING LEVER ASSEMBLY
68	6323761	SPRING
69	7249903	RECORDING FUNCTION PLATE
70	6255436	CASSETTE BUTTON ASSEMBLY
71	7255034	PAUSE HOLDER ASS'Y
72	7255013	PAUSE SLIDER ASSEMBLY
73	7257644	PAUSE LEVER
74	7536282	PAUSE PIN
75	7255001	PAUSE PLATE
76	7530631	PAUSE PIN
77	6725701	PAUSE LOCK PIECE
78	6324751	BUTTON SPRING B
79	6322301	SPRING
80	6220106	CASSETTE PANEL ASSEMBLY
81	7153956	EJECT ASSEMBLY
82	6300301	SPRING
83	7159342	LVER HOLDER ASSEMBLY
		MISCELLANEOUS
84	6155912	CABINET
85	6282251	KNOB (L)
86	6282231	KNOB (M)
87	6310162	SPRING WASHER
88	6193025	BACK COVER
		RECORD CHANGER AND SPEAKER ASSEMBLY
	LA6503031	DUST COVER
	LA5704011	CARTRIDGE (BSR TC-11M)
	LA5704082	STYLUS (BSR T-3MD)
	LAX030101	45 RPM ADAPTOR (BSR SP-20)
	LA6500122	SPEAKER BOX ASSEMBLY (SS-82A)
	LA5702002	SPEAKER WIRE

REPLACEMENT PARTS LIST

SYMBOL-NO	P-NO	DESCRIPTION
		CAPACITORS
CT101	5052201	PLASTIC FILM VARIABLE
CT102	5052201	PLASTIC FILM VARIABLE
CT151	5052201	PLASTIC FILM VARIABLE
CT152	5052201	PLASTIC FILM VARIABLE
CV101	5052201	PLASTIC FILM VARIABLE
CV102	5052201	PLASTIC FILM VARIABLE
CV151	5052201	PLASTIC FILM VARIABLE
CV152	5052201	PLASTIC FILM VARIABLE
C108	0248475	CERAMIC DISC 5PF +- 0.5PF
C110	0249501	CERAMIC DISC 6.0PF+-0.5PF
C306	0249537	CERAMIC DISC 470PF+-5%
		RESISTORS
⚠ R001	0134704	CARBON FILM 2.2M OHM
RT301	0151885	VARIABLE 4.7K OHM B
RT701	0151889	SEMI VARIABLE 100K OHMB
RV401AB	5000514	VARIABLE 100K OHM (B)
RV402AB	5000514	VARIABLE 100K OHM (B)
RV403	5000284	VARIABLE 50K OHM (B)
RV404AB	5000513	VARIABLE 100K OHM (B)
		SEMI-CONDUCTORS
D101	5330131	DIODE SILICON 1S2076 100MHZ 250MW 5NS
D102	5330133	DIODE SILICON 1S2076 100MHZ 250MW
D151	5330131	DIODE SILICON 1S2076 100MHZ 250MW 5NS
D201	5330131	DIODE SILICON 1S2076 100MHZ 250MW 5NS
D202	5330732	DIODE GERMANIUM 1N60P 80MHZ 50MW
D203	5330732	DIODE GERMANIUM 1N60P 80MHZ 50MW
D204	5330131	DIODE SILICON 1S2076 100MHZ 250MW 5NS
D205	5330131	DIODE SILICON 1S2076 100MHZ 250MW 5NS
D301	5380101	RADIATION DIODE SLP-248
D501AB	5330133	DIODE SILICON 1S2076 100MHZ 250MW
D502AB	5330133	DIODE SILICON 1S2076 100MHZ 250MW
D601-604	5330381	DIODE SILICON 1S2371 60HZ 1.7W
D605	5330341	DIODE SILICON W0-6A 60HZ 1.7W
IC301	5351073	IC HA1156
IC701AB	5350251	IC HA1406
Q101	0573508	TRANSISTOR SILICON 2SC461C 230MHZ 200MW
Q102	0573508	TRANSISTOR SILICON 2SC461C 230MHZ 200MW
Q151	0573487	TRANSISTOR 2SC460C
Q201	0573486	TRANSISTOR SILICON 2SC460 230MHZ 200MW
Q202	0573487	TRANSISTOR 2SC460C
Q203	0573487	TRANSISTOR 2SC460C
Q401AB	5320064	TRANSISTOR SILICON 2SC458D 230MHZ 200MW
Q501AB	5321252	TRANSISTOR ZSA844D
Q502AB	5320613	TRANSISTOR SILICON 2SC1213C 80MHZ 400MW
Q503AB	5320643	TRANSISTOR SILICON 2SC1162 150MHZ 10W
Q504AB	5320723	TRANSISTOR 2SA715WT-C
Q751	5320613	TRANSISTOR SILICON 2SC1213C 80MHZ 400MW
Q752	5320613	TRANSISTOR SILICON 2SC1213C 80MHZ 400MW
ZD601	5330601	DIODE SILICON AW01-12 DC-1W
		TRANSFORMERS
⚠ T001	5211896	POWER 10VA,300G
T101	5126571	FM ANTENNA
T102	0329605	FM IF
T151	5136012	AM IF
T201	0322118	AM-IF
T202	5148041	FM DISCRIMINATOR
T203	5148042	FM DISCRIMINATOR
T751	5260311	REC OSC
		COILS
L101	0324003	10.7MHZ TRAP
L102	5126692	FM RF
L103	5150791	CHOKE
L104	5126313	FM OSCILLATOR
L151	5113211	FERRITE ANTENNA
L152	5120275	MW OSCILLATOR
L701AB	5120531	CHOKE
		MISCELLANEOUS
⚠	5741045	AC CABLE
⚠	5746304	POWER CORD
	5746393	PHONO CABLE
CF201	5160211	CERAMIC FILTER CF107A
⚠ F001	0591138	FUSE 2A 125V
J401AB	5676082	PIN JACK
J402AB	5676082	PIN JACK
J501AB	5676082	PIN JACK
J502AB	5676082	PIN JACK
J503	5671631	HEADPHONE JACK
J701AB	5670461	MOULD JACK(MICROPHONE)
PL001-004	5765051	LAMP ASSEMBLY
⚠ S001	5632931	LEVER SWITCH(POWER)
⚠ S002	5603091	LEAF SWITCH
S401	5610641	ROTARY SWITCH
S402AB	5632911	LEVER SWITCH(NOISE FILTER)
S701AB	5620592	SLIDE SWITCH(PLAY, REC.)
S702AB	5620592	SLIDE SWITCH(PLAY, REC.)
S703AB	5620592	SLIDE SWITCH(PLAY, REC.)
S704	5620592	SLIDE SWITCH(PLAY, REC.)
TUN,M	5554392	TUNING METER

SCHEMATIC DIAGRAM (TAPE DECK)





Note

1. Voltage measured at base of chassis with minimum volume control and no signal.
2. Nomenclature of Resistors and Capacitors.

R101 150-RS·1·K

Circuit No.	
Value	No indicated Ω(Ohm) M : 1000kΩ
Tolerance	No indicated ±5% K : ±10% M : ±20%
Wattage	No indicated ¼W
Sort	No indicated Carbon film RC : Composition RW : Wire wound RS : Oxide metal film RN : Fixed metal film

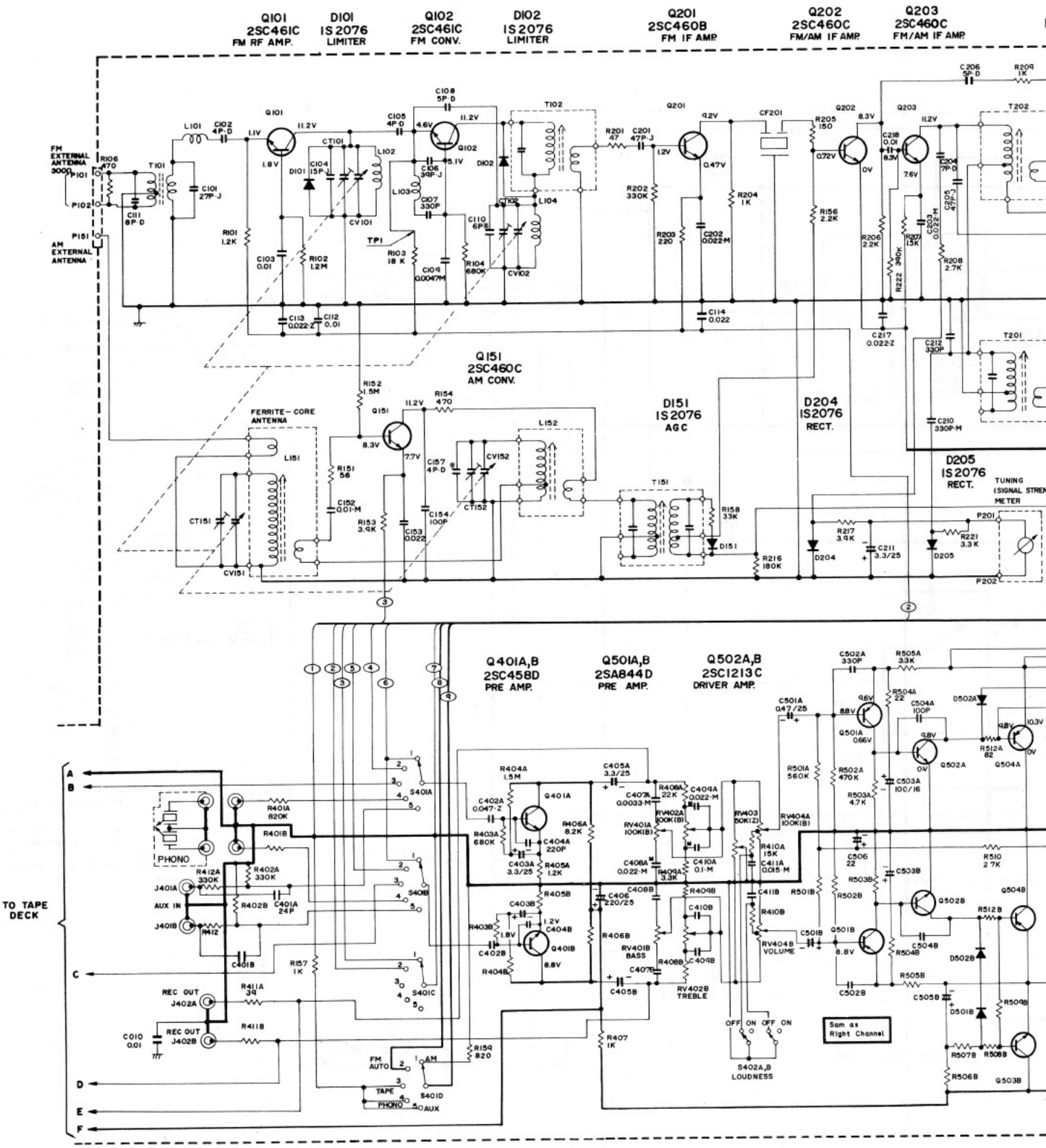
C101 0.001·M

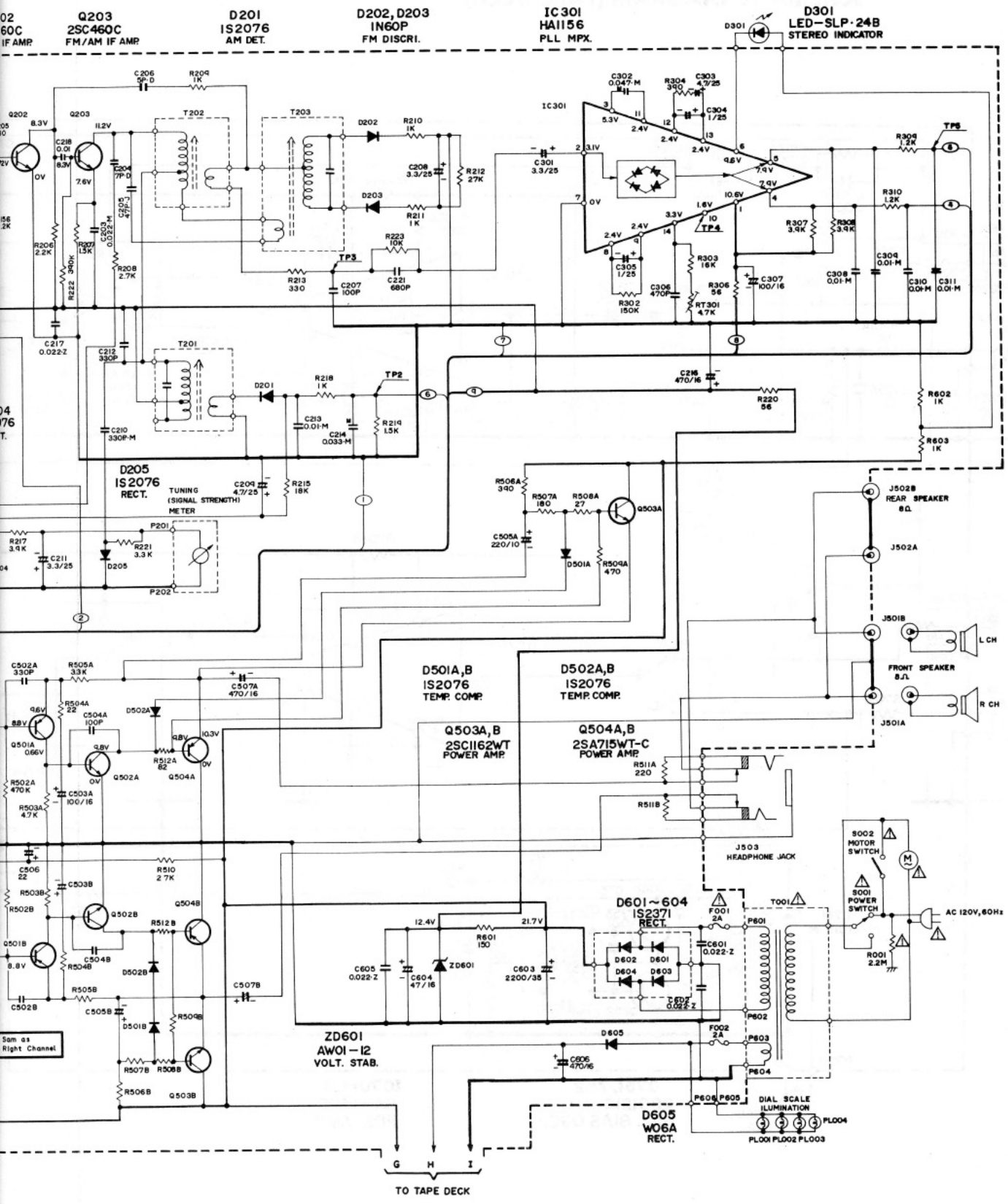
C102 0.1/16-

Circuit No.		
Value	No indicated μF P : PF	
Tolerance	No indicated ±10% J : ± 5% M : ±20% Z : +80%, −20% D : ±0.5pF C : ±0.25pF	
Sort		Ceramic
		Electrolitic
		Mylar
		Polyester
		Styrol
Voltage	No indicated 50WV	

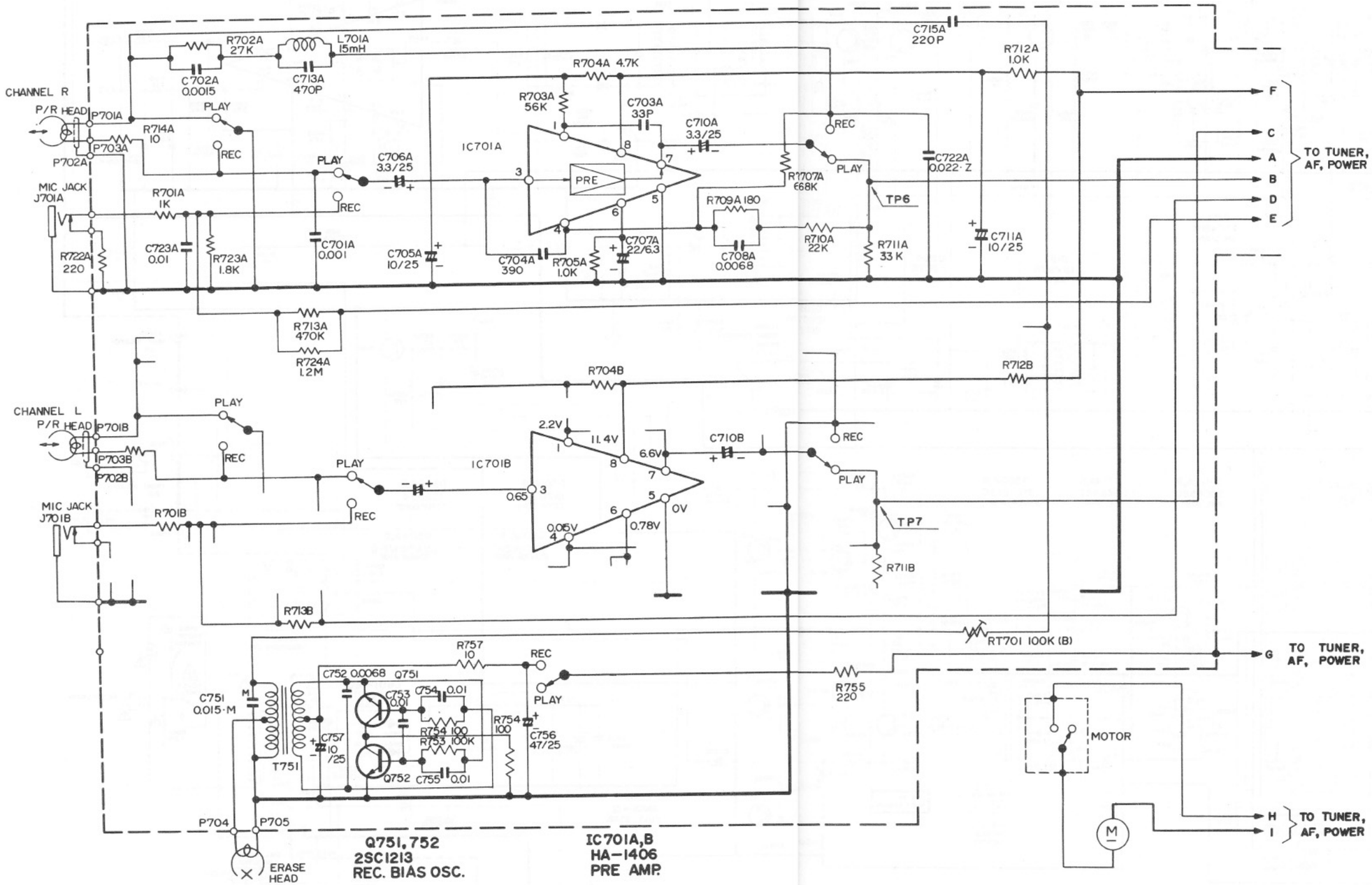
3. Be sure to make your orders of resistors and capacitors with value, voltage, tolerance and sort.
4. When replacing capacitors marked with ✱, use specified ones stated on parts list since required temperature characteristics.

SCHEMATIC DIAGRAM (TUNER, AF, POWER)




Q203
2SC460C
FM/AM IF AMP.
D201
IS2076
AM DET.
D202, D203
IN60P
FM DISCRI.
IC301
HA1156
PLL MPX.
D301
LED-SLP-24B
STEREO INDICATOR
D205
IS2076
RECT.
TUNING
(SIGNAL STRENGTH)
METER
D501A,B
IS2076
TEMP. COMP.
D502A,B
IS2076
TEMP. COMP.
Q503A,B
2SC1162WT
POWER AMP.
Q504A,B
2SA715WT-C
POWER AMP.
J502B
REAR SPEAKER
8Ω
J502A
J501B
L CH
FRONT SPEAKER
8Ω
R CH
J501A
J503
HEADPHONE JACK
S002
MOTOR
SWITCH
S001
POWER
SWITCH
AC 120V, 60Hz
D601~604
IS2371
RECT.
ZD601
AW01-12
VOLT. STAB.
D605
W06A
RECT.
DIAL SCALE
ILLUMINATION
PL004
PL001 PL002 PL003
TO TAPE DECK
Same as
Right Channel

SCHEMATIC DIAGRAM (TAPE DECK)



Note

1. Voltage measured at base of chassis with minimum volume control and no signal.
2. Nomenclature of Resistors and Capacitors.

R101 150-RS·1·K

	Circuit No.
Value	No indicated Ω(Ohm) M : 1000kΩ
Tolerance	No indicated ±5% K : ±10% M : ±20%
Wattage	No indicated ¼W
Sort	No indicated Carbon film RC : Composition RW : Wire wound RS : Oxide metal film RN : Fixed metal film

C101 0.001·M

C102 0.1/16·

	Circuit No.	
Value	No indicated μF P : PF	
Tolerance	No indicated ±10% J : ± 5% M : ±20% Z : +80%, −20% D : ±0.5pF C : ±0.25pF	
Sort		Ceramic
		Electrolitic
		Mylar
		Polyester
		Styrol
Voltage	No indicated 50WV	

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

SCHEMATIC DIAGRAM (TUNER, AF, POWER)