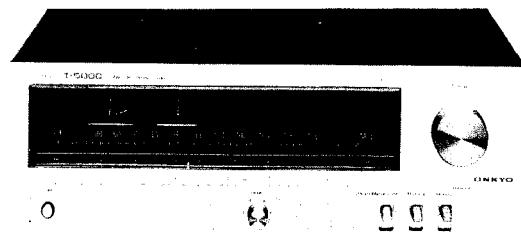


ON KYO® SERVICE MANUAL

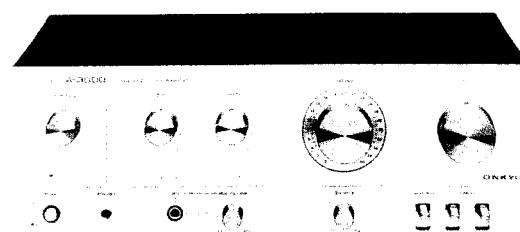
TURNTABLE SYSTEM CP-5000A



**AM/FM STEREO TUNER
T-5000**



**INTEGRATED STEREO AMPLIFIER
A-3000**



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**ON KYO®
AUDIO COMPONENTS**

SPECIFICATIONS

A-3000

Power Output	100 watts total	DIN rec out:	30 mV/100 kΩ
Dynamic:	35 watts per channel at 4 ohms	Bass Control	±9 dB at 100 Hz
Continuous:	both channels driven 1 kHz, 0.8% THD	Treble Control	±9 dB at 10,000 Hz
	28 watts per channel at 8 ohms both	Signal to Noise Ratio	
	channels driven 1 kHz, 0.8% THD	Phono:	70 dB (IHF C Network)
Power Supply Rating	AC 110/120/220/240V 50/60 Hz	Tuner:	90 dB (IHF C Network)
Total Harmonic Distortion	0.8% at rated power	Loudness	+5.5 dB at 70 Hz
	0.2% at 1 watt output	Controls	+4.5 dB at 10,000 Hz
IM Distortion	0.5% at rated power		POWER, SPEAKER (OFF, A, B, A+B),
Damping Factor	35 at 8 ohms 1 kHz 10 watts		SELECTOR (PHONO, TUNER),
Frequency Response	15 ~ 25,000 Hz (±1 dB)		VOLUME, BALANCE, BASS, TREBLE,
Power Bandwidth	20 ~ 40,000 Hz (0.8% THD -3 dB)		TAPE MONITOR-1 and 2, LOUDNESS,
Sensitivity and Impedance			MIC VOLUME
Phono:	2.5mV/50 kΩ	Outputs	SPEAKER A and B, HEADPHONE,
Tuner:	200 mV/50 kΩ		TAPE REC OUT-1 and 2, DIN REC OUT
Mic.:	9 mV/50 kΩ	Inputs	PHONO, TUNER, TAPE PLAY-1 and 2,
Tape play:	200 mV/50 kΩ		DIN PLAY, MIC
Tape rec Out:	200 mV/10 kΩ	Semiconductors	2 ICs, 13 Transistors, 6 Diodes
DIN play:	200 mV/50 kΩ	Dimensions	414 (16 5/16") x 150 (5 7/8") x
			301mm (11 7/8")
		Weight	7.2 kg (15.9 lbs.)

T-5000

Power Supply Rating	AC 110/120/220/240V, 50/60 Hz	AM Suppression Ratio	FM: 50 dB
Tuning Range	FM: 87.5 ~ 108 MHz AM: 530 ~ 1605 kHz	Harmonic Distortion	FM Mono: 0.3% FM Stereo: 0.5%
Usable Sensitivity	FM Mono: 2.5 μV (13.2 dBf) IHF 1.7 μV DIN FM Stereo: 7 μV (22.1 dBf) IHF 50 μV DIN AM: 40 μV	Frequency Response	AM: 0.8% FM: 30 ~ 15,000 Hz (+2, -3 dB)
50 dB Quieting	FM Mono: 5 μV (19.2 dBf) IHF	Stereo Separation	FM: 37 dB at 1 kHz 30 dB at 100 ~ 10,000 Hz
Sensitivity	FM Stereo: 40 μV (37.2 dBf) IHF	Pilot Suppression	FM: 55 dB
Intermediate Frequency	FM: 10.7 MHz AM: 455 kHz	Controls	POWER, TUNING, SELECTOR (FM, AM), LEVEL, MUTING, STEREO NOISE FILTER
Capture Ratio	FM: 1.5 dB	Output Voltage	Variable max. FM: 1.2V AM: 0.35V
Image Rejection Ratio	FM: 35 dB AM: 40 dB	Semiconductors	1 FET, 12 Transistors, 2 IC, 13 Diodes
F Rejection Ratio	FM: 80 dB AM: 30 dB	Antennas	FM: 300Ω balanced, 75Ω unbalanced
Signal to noise ratio	FM: 60 dB IHF FM: 55 dB DIN	Dimensions	AM: Built in ferrite core antenna and external terminal 414 (16 5/16")W x 150 (5 7/8")H x 306 (12 1/16")D mm
Alternate Channel Attenuation	FM: 50 dB (IHF)	Weight	5 kg (11 lbs)

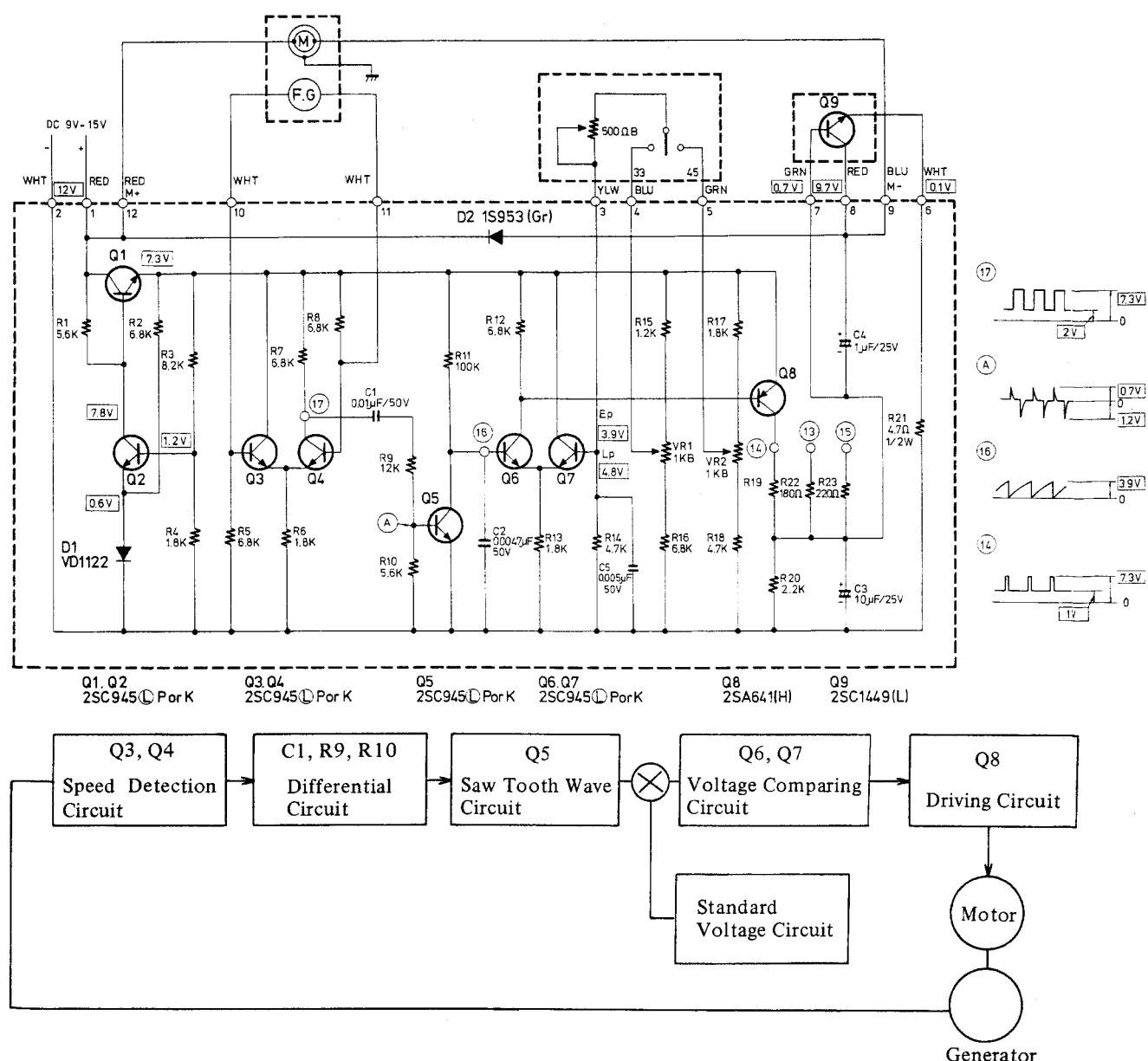
P-5000A

Type	2 speed, belt driven, auto-return, auto-cut turntable with arm lifter.	Overhang:	11mm.
Turntable platter	30cm aluminum diecast with stroboscope. 1.1 kg.	Effective arm length:	210mm
Motor	FG servo controlled DC motor.	Tracking error:	less than ±1.5°.
Speeds	33 1/3 and 45 rpm.	VM type OC-35V	
Tow and flutter/N ratio	Adjustable range ±2%. Less than 0.06% (WRMS)	Frequency response	20-20,000 Hz
Onearm	More than 55 dB Static balanced S-shaped pipe arm with lockable head shell, anti-skating device, and direct read tracking force scale.	Impedance	47 kΩ
	Tracking force adjustment: 0 ~ 3gr.	Compliance	7 x 10 ⁻⁶ cm./dyne
		Output	3.5 mV
		Separation	20 dB
		Stylus	DN-35ST
		Tip	0.65 mil (16.5 μ) Diamond
		Tracking force	2 g.
		Power supply	110V ~ 120V or 220V ~ 240V, 50/60 Hz
		Power consumption	3W

Specifications and design are subject to change without notice.

CP-5000A SCHEMATIC DIAGRAM

Voltage Controlling Circuit



The signal from the AC generator, provided coaxially with the motor rotation axis, is shaped into rectangular wave form by means of the speed detection circuit and then a differential wave form synchronized with the rotation frequency is obtained through the differential circuit. By the use of the stepping up portion of the differential wave form, a sawtooth wave which has the wave height proportionate to the frequency at the time of ON-OFF of a transistor is produced.

This sawtooth wave is compared with the standard voltage which is the output of the separately constituted standard voltage circuit, and the portion where the sawtooth wave peak value becomes higher than the standard voltage is taken out as a control signal. The control signal (rectangular wave pulse) is integrated for use as a motor driving signal.

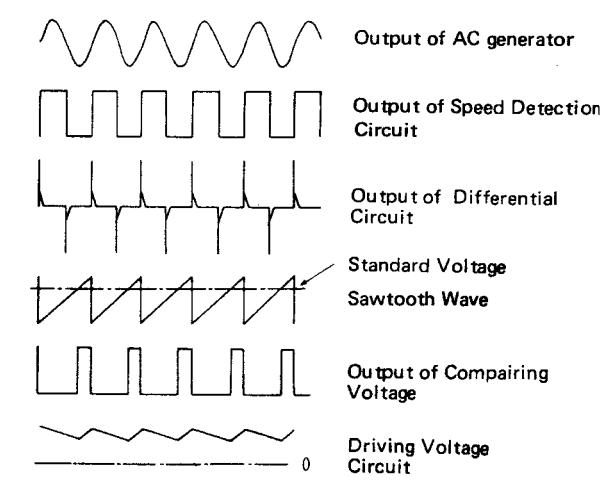
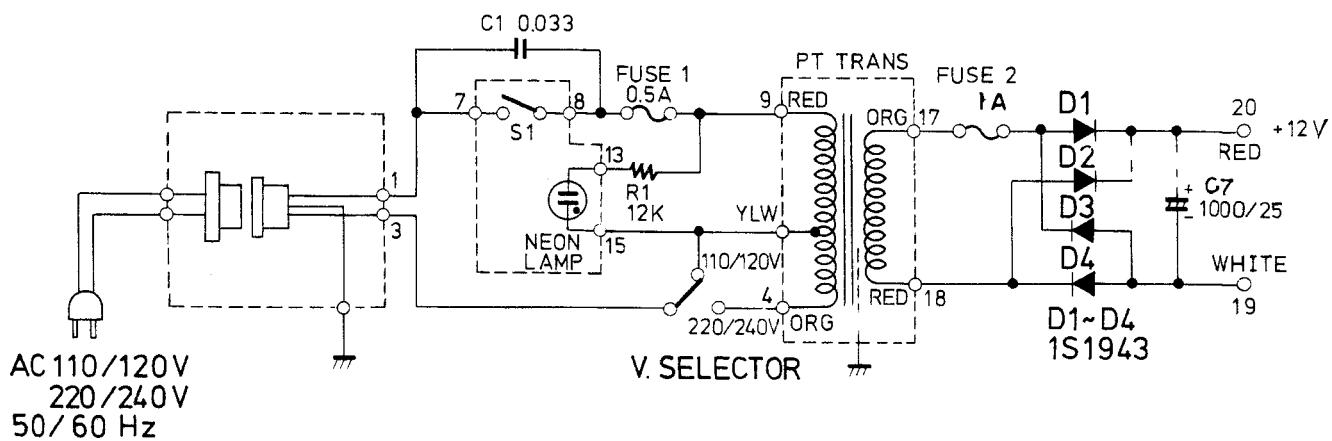


fig - 1

CP-5000A SCHEMATIC DIAGRAM

Power Supply Circuit



CP-5000A SERVICE ADJUSTMENT AND PROCEDURE

Power Voltage Selection

The record player has been set at a voltage of 220/240V before shipment.

To change for 110/120V, turn switch to the right position.

To change voltage, detach the fixture plate, adjust switch position and reattach the fixture plate.

The voltage selector switch is located on the side of the turntable.

220~240V

110~120V

fig. - 2

Auto-return

Adjust the return position with the fine adjustment nut shown in fig.3.

After final adjustment, apply lock-tite to the nut.

The stylus point moves below the correct point when it is rotated clockwise

The stylus point moves closest to the record edge when it is rotated counter-clock wise

Fine adjustment nut

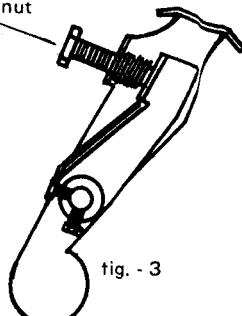


fig. - 3

Motor Speed Adjustment

When motor, turntable, belt, etc. are to be replaced or when the setting of revolution has been deviated by the lapse of time, carry out adjustments in the following manner.

When the turntable is stopped during energizing (more than continuously 1 minute), it rarely occurs that the motor may be locked and damaged, or, even if the motor is not locked, the belt may sustain an unreasonable force, giving rise to a partial elongation or flaw, and a poor stability of revolution.

Adjustment:

Set the VR (Z411-C) for fine adjustment nearly at the center, set the speed selector at 33-1/3, turn VR1 provided on the control circuit PC plate to the point to stop the upper part of the stroboscopic stripes. Then, switchover the rotation to 45 r.p.m., and adjust VR2 so as to stop the lower side of the stroboscopic stripes.

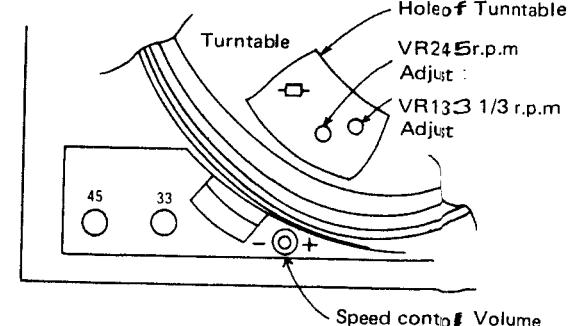


fig. - 4

Replacement of Motor

As for the screws for mounting motor, there are two kinds used, i.e., one chrome plated panhead screw (2.6 x 4) and two unichrome plated panhead screw (2.6 x 3) for ground co-fastening part. If the 4m/m size screw is applied to the portion of the 3m/m size screw, the motor insulation rubber is damaged to provide unstable motion of motor. Be careful not to mistake. Spring washers are provided for fastening purpose. Never fail to use them.

Replacement of Belt

- 1) In order to give an improved stability of the tension of the belt from the viewpoint of the motor construction, a one-side shaped belt is used. For replacement, please use the regular one SN242129B. The SN of the conventional both side cut belt is 242129. With regard to the one-side polished belt, the use in a manner that the polished side is in contact with the pulley and the turntable is the correct method, but the reverse manner may also be practically acceptable, where the S/N ratio and the revolution vary to a very slight degree. The polished surface is the side where the surface is uniform and mat. The opposite side is slightly lustrous and uneven.
- 2) The pulley is a single step without any belt guide.
Apply the belt to the turntable to the side near the lower end of the drum. Should the belt be set to the upper side, it would slip upward to the flange of the pulley at the time of the application to the pulley, with the result that the correct revolution may not be obtained or the belt may go out of the pulley.
- 3) Since the shaft of the motor is extremely fine at 2ϕ , be careful that any collision of turntable, etc. during service may cause a bend to the shaft or an irregular revolution in consequence of the deviation of the position of the bearing holder, etc.

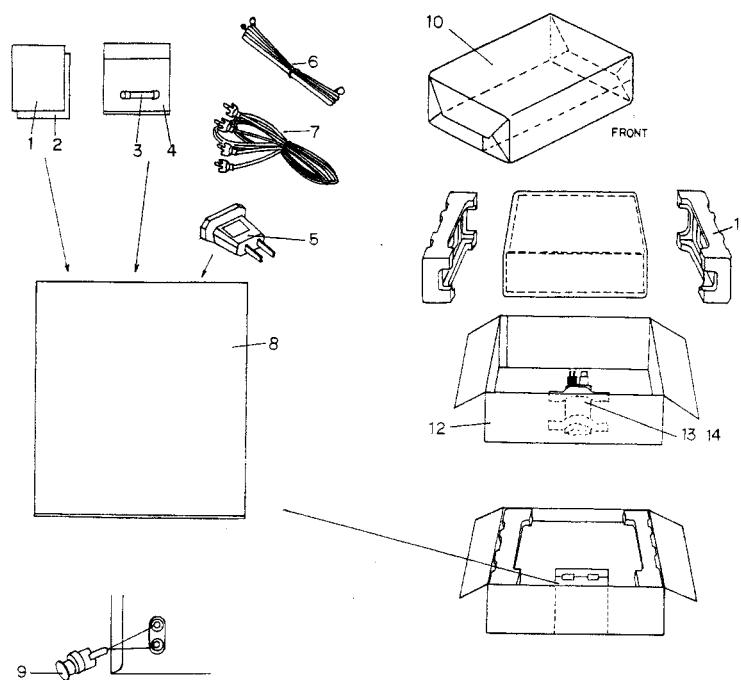
Fitting of Neon Lamp

Fit the neon lamp in a manner to set the electrode of the neon lamp nearly to the center of the claw of the lamp holder. If the neon lamp is not correctly fitted, the lamp house may include a dark area for lighting.

Others

- 1) Since the stopper of TT shaft is a molded product, do not use the one once disconnected but replace with a new one (because the continued use provides a cause for the leakage of oil and the coming off of shaft).
- 2) For lubrication of TT shaft, use the oil of ANDEROL #465 or #402.
- 3) For lubrication of motor bearing, the oil of LAUNA #40 is used. Use of other oil may cause irregular rotation and unstable revolution.
- 4) For disconnecting the PC plate, extract after sufficiently constricting the stopper for the mold.
Be careful not to exert unreasonable power for disconnecting the PC plate, or the PC plate will cause breakage.

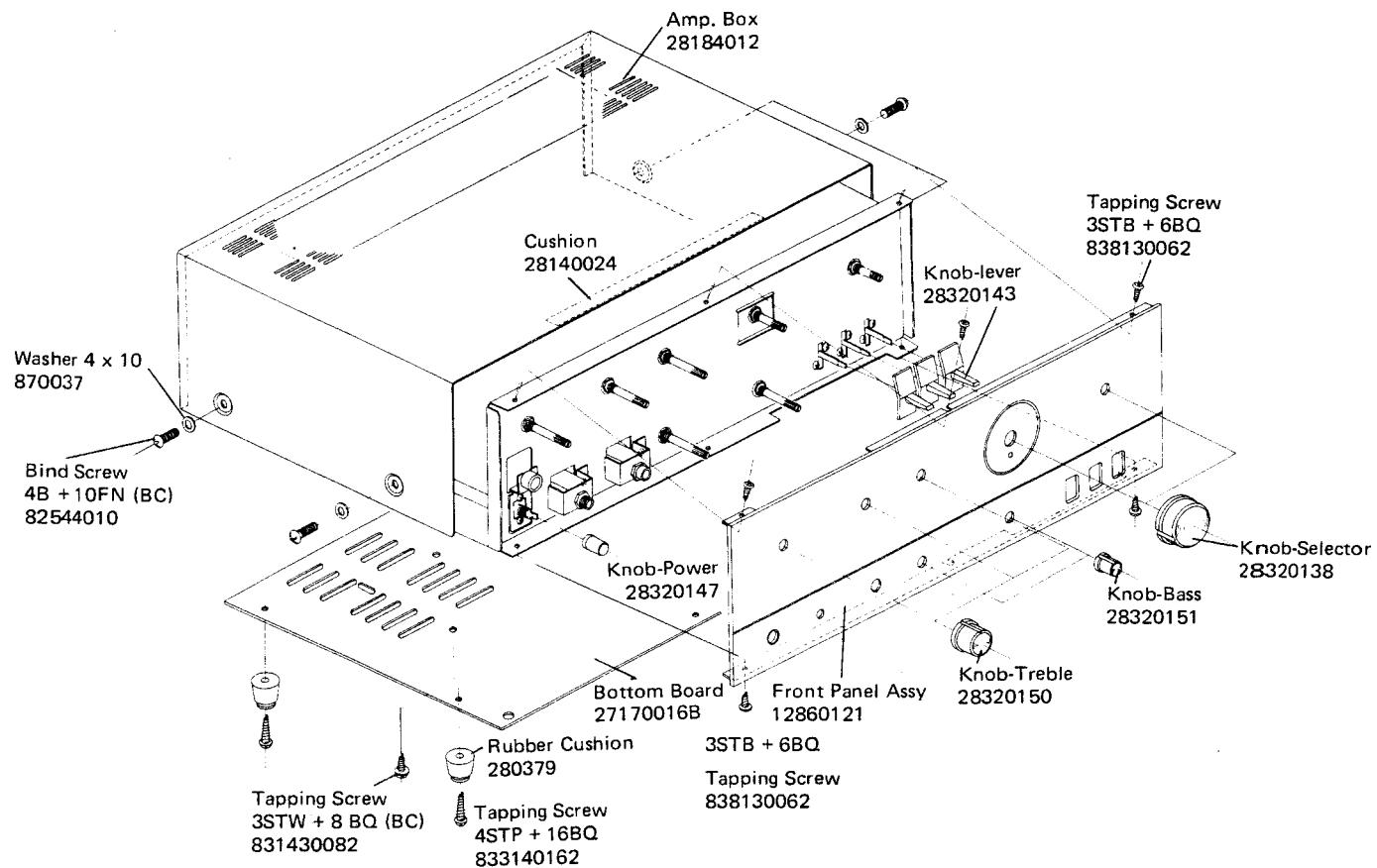
PACKING PROCEDURE



PARTS LIST

ITEM	DESCRIPTION	SPECIFICATIONS	A - 3000		T - 5000	
			STOCK NO.	Q'TY	STOCK NO.	Q'TY
1.	Schematic Diagram		29345011	1	29345012	1
2.	Instruction Manual		29340166	1	29340167	1
3.	Fuse	3A - T	252003	2	-	
	Fuse	1A - T	-		252001	1
4.	Poly Bag	150 x 80 mm	29100002	1	29100002	1
5.	Conversion Plug	CV-K or CV-K-1	292063 or 25055018	1	292063 or 25055018	1
6.	FM Antenna		-		292064	1
7.	Output Cord		-		253074	1
8.	Poly Bag	350 x 250mm	29100006A	1	29100006A	1
9.	Shorted Pin		250153	2	-	
10.	Protection Sheet	670 x 1000 mm	29095016	1	29095016	1
11.	Pad		29090124	2	29090124	2
12.	Master Carton Box		29050093	1	29050097	1
13.	Tag - Voltage		293268	1	293268	1
14.	Power Supply Cord		13876801	1	13876801	1

A-3000 EXPLODED VIEW



CAUTIONS

LINE VOLTAGE AND FUSE

This model operates on each one of the four line voltages, 110V, 120V, 220V and 240V.

Set the unit to the proper line voltage by the following procedure described below.

CHANGE LINE VOLTAGE SETTING AND FUSE

To remove the fuse, turn the fuse cap located on the line voltage selector counter-clockwise.

Then remove the fuse plug from the unit. Put the fuse plug back so that the proper line voltage marking can be seen through the cut in the edge of the plug.

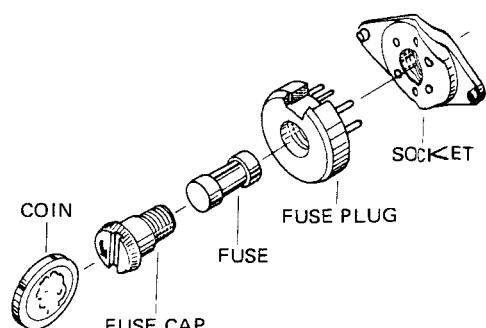
Whenever the position of the selector is changed, check the rating of the fuse.

A 0.5A fuse is for 220V or 240V operation and a 1.0A fuse is for 110V or 120V operation. (T-5000)

If the rating of the fuse is correct, replace the cap.

FUSE REPLACEMENT

When the fuse has blown, remove the fuse cap and replace the fuse with a new one.



Fuse ratings are:
A - 3000
110 ~ 120V - —3A
220 ~ 240V - —2A

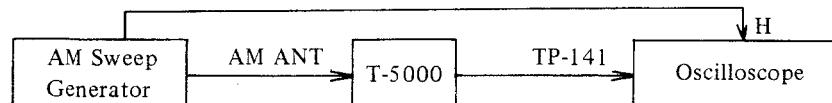
T-5000 ALIGNMENT PROCEDURE

INSTRUMENTS REQUIRED

1. AM Sweep Generator
2. AM and FM Signal Generator
3. Vacume Tube Voltage Meter (VTVM) AC, DC
4. Oscilloscope
5. Distortion Analyzer
6. Stereo Modulator
7. Frequency Counter

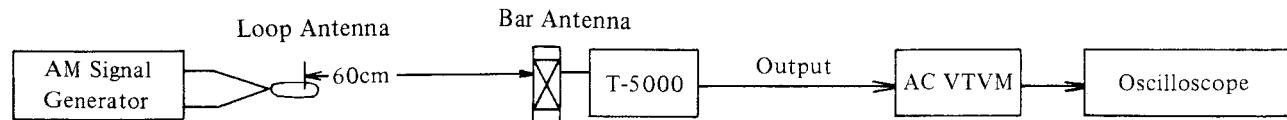
(1) AM IF ALIGNMENT

1. Set SELECTOR switch to AM.
2. Set radio dial to quiet point.



Set signal	Adjust	Oscilloscope	Remarks
455 kHz	X151 (CFZ-455C) L153 (NIT-7520)	Maximum Symmetrical Response	Usually not necessary to adjust

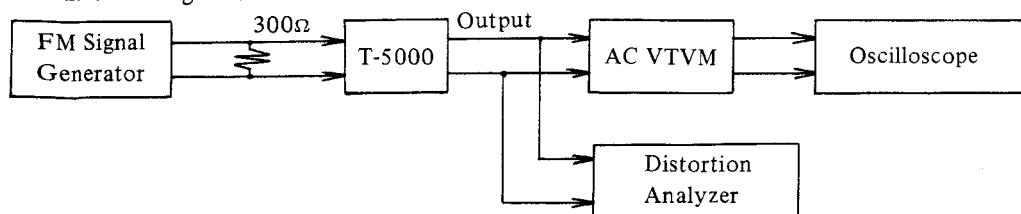
(2) AM RF ALIGNMENT



Step	Set Signal	Set Radio Dial	Adjust	VTVM reading	Remarks
1	515 KHz 400Hz 30%	Lower end (515 KHz)	L152 NMO-2503	Maximum	Repeat step 1 and 2 as necessary
2	1680 KHz 400 Hz 30%	Upper end (1680 KHz)	TC-4	Maximum	
3	600 KHz 400 Hz 30%	600 KHz	L151 NMA-2523	Maximum	Repeat step 3 and 4 as necessary
4	1400 KHz 400 Hz 30%	1400 KHz	TC-3	Maximum	

(3) FM FRONT END ALIGNMENT

1. Set SELECTOR switch to FM.
2. Push MUTING switch.
3. Connect FM Signal Generator to 300-ohm antenna terminals.

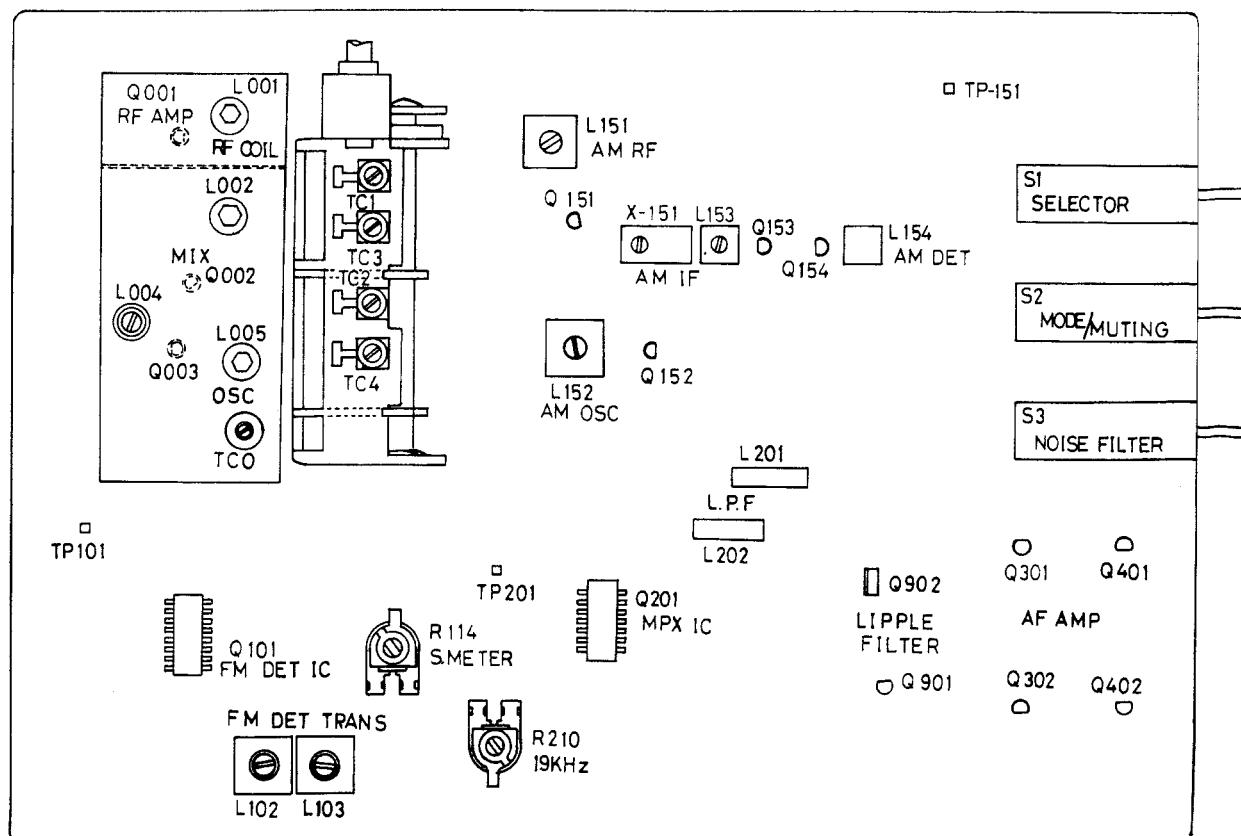


When adjust step 5 and 6, Set FM Signal Generator level as low as possible.

Step	FM Signal Generator	Dial to set	Adjust	Output Indicator	Adjust for	Remarks
1	No signal	Quiet Point	L102 NIT-0519P	Tuning Indicator	Center	Repeat step 1 and 2 as necessary.
2	98 MHz 60 dB 400 Hz 100% mod.	98 MHz	L103 Blue core NIT-0519S	Distortion Analyzer	Minimum	
3	90 MHz 60 dB 400 Hz 100% mod.	90 MHz	L005 OSC Coil NFO-3003	AC VTVM or Oscilloscope	Maximum	Repeat step 3 and 4 as necessary.
4	106 MHz 400 Hz 60 dB 100% mod.	106 MHz	TCO		Maximum	
5	90 MHz 400 Hz 100% mod.	90 MHz	L001, L002		Maximum	Repeat step 5 and 6 as necessary.
6	106 MHz 400Hz 100% mod.	106 MHz	TC001 TC002		Maximum	
7	98 MHz 400 Hz 100% mod.	98 MHz	L004		Maximum	

FM MPX ALIGNMENT

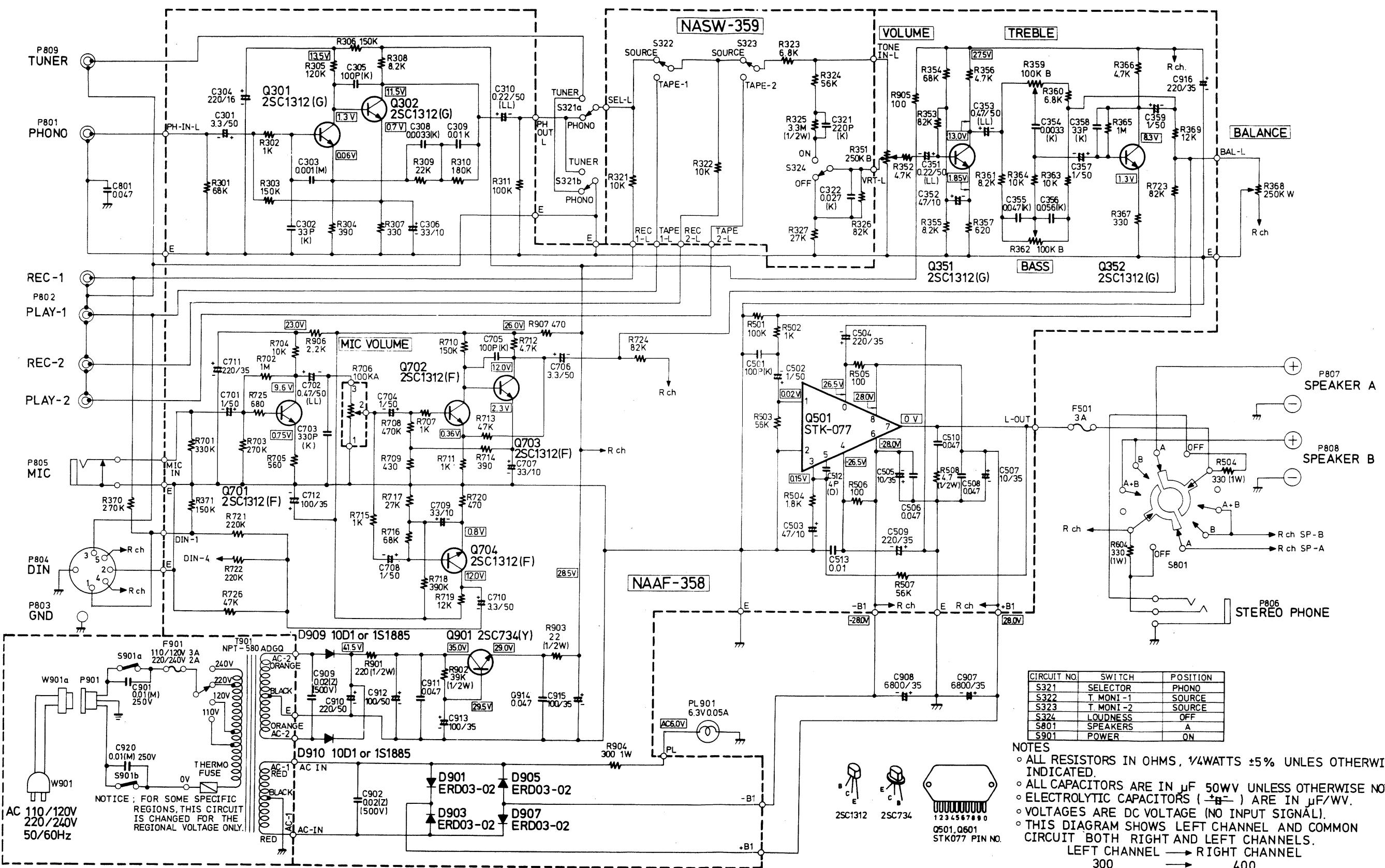
1. Connect FM Signal Generator to 300-ohm antenna terminals.
2. Connect Frequency Counter to TP-201.
3. Set FM Signal Generator to no mod. (98 MHz, 400Hz, 60 dB)
4. Set radio dial to 98 MHz.
5. Adjust the Frecquency to 19000 ± 19 Hz with R201.
6. The stereo indicator should light up when an FM stereo program is being received.



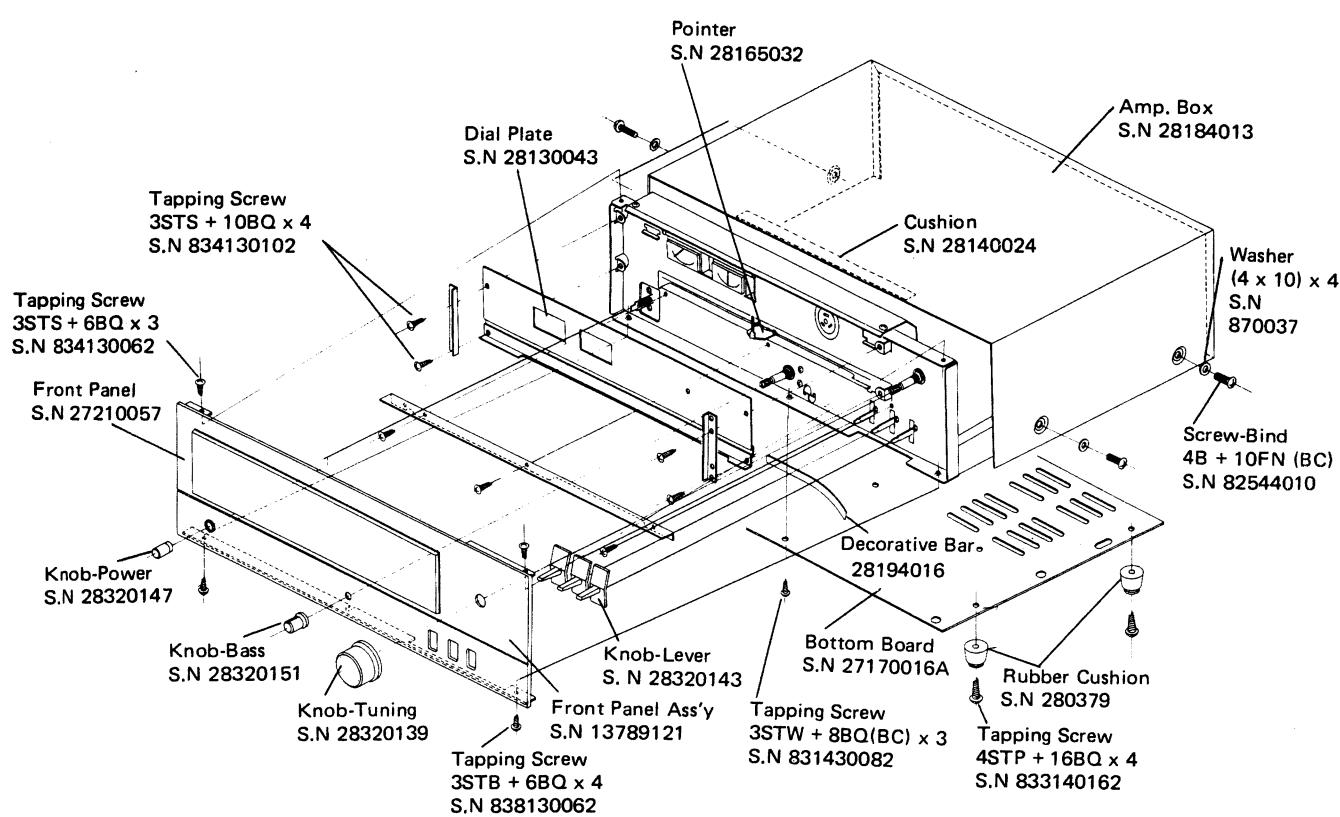
A-3000 PARTS LIST

PARTS NO.	DESCRIPTION	SPECIFICATIONS	Q'TY	STOCK NO.	REMARKS
	AF-AS	NAAF-358	1	12870558	
	SW-AS	NASW-359	1	12870559	
Q501, Q601	IC	STK-077	2	222007	Power Amp.
PL901	Pilot Lamp	6.3V 0.05AW3	1	210015	Power Source Ind.
T901	Transformer-Power	NPT-580ADGQ	1	230174	
C901, C902	Capacitor-IS	PME271Y510CEE	2	3500052	0.01μF 250V
C907, C908	Capacitor-Elect.	CE62W35V6800μF	2	3504077	
R368	Resistor-Variable	N16R250KW35	1	5146004	Balance
R504, R604	Resistor-Metal Oxide Film	RS1WBJ330 ohm	2	441623314	
R706	Resistor-Variable	N16R100KA35	1	5146005	Mic Volume
S801	Switch-Rotary	NRS-124-35Y	1	25030044	Speakers
P801	Pin Jack	NPJ-2PRBL-02	1	25045023	Phono
P802	Pin Jack	NTM-6WPBL-E1	1	250171	Tape
P803	Terminal		1	25060008	GND
P804	Socket-DIN		1	250008	
P805	Jack-Microphone	HJ-631S-H2	1	250051	
P806	Jack-Stereo Headphone	XG-7716	1	250078	
P807, P808	Terminal-Speaker	NTM-4WPUN1	2	25060001A	
P809	Pin Jack	NTM-4WPBL-E1	1	250169	Tuner
F501, F601	Holder-Fuse		1	25050004	With the cover
F501a, F601a	Fuse	3A-T	2	252003	Speaker
S901	Switch-Push	NPS-121-L	1	25035034	Power Source
S321	Rotary Switch	NRS-132-35F	1	25030066	Selector
P901	Inlet-3P	CM-3	1	25050013	
F901	Socket-VS	S-I7205-7	1	250186	
F901a	Fuse	2A-T	1	252002	
W901	Power Supply cord	AS-CEE	1	253083	
W901a	Plug-PS	SFO-40A3	1	250227	
	Binder	SKB-1	8	260208	
A006	Back Panel		1	27120052	
A026	Heat Sink		1	27160008	
«NAAF-358»					
Q301, Q302, Q401, Q402, Q351, Q352, Q451, Q452	Transistor	2SC1312-31(G)	8	2210137	
Q701~Q704	Transistor	2SC1312-31(F)	4	2210136	
Q901	Transistor	2SC734(Y)	1	2210064	
D901, D903, D905, D907	Silicon diode	ERD03-02	4	223832	
D909, D910	Silicon Diode	10D1 or 1S1885	2	223801 or 223802	
C301, C401, C706, C710	Capacitor-Elect.	CE04W50V3.3μF	4	352780331	
C304, C404	Capacitor-Elect.	CE04W16V220μF	2	352742211	
C301, C406, C707, C709	Capacitor-Elect.	CE04W10V33μF	4	352733301	
C352, C452, C503, C603	Capacitor-Elect.	CE04W10V47μF	4	352734701	
C357, C359, C502, C457, C459, C602, C708	Capacitor-Elect.	CE04W50V1μF	7	352780101	
C504, C509, C701, C711, C604, C609, C704, C916	Capacitor-Elect.	CE04W35V220μF	8	352762211	
C505, C507, C605, C607	Capacitor-Elect.	CE04W35V10μF	4	352761001	
C712, C913, C915	Capacitor-Elect.	CE04W35V100μF	3	352761011	
C910	Capacitor-Elect.	CE04W50V220μF	1	352782211	
C912	Capacitor-Elect.	CE04W50V100μF	1	352781011	
C310, C410, C351, C451	Capacitor-LL	LL04B50V0.22μF	4	392882297	
C702	Capacitor-LL	LL04B50V0.47μF	1	392884797	
C355, C455	Capacitor-DE	DE93M50V0.047μF	2	374124735	
C356, C456	Capacitor-DE	DE93M50V0.056μF	2	374125635	
R351, R451	Resistor-Variable	N24RGL41C250KBTP35	1	5172045	VOLUME
R359, R362, R459, R462	Resistor-Variable	N16RGC100KB35	2	5104037	TONE
R904	Resistor-Metal Oxide Film	RS1WBJ300 ohm	1	441623014	
«NASW-359»					
C322, C422,	Capacitor-DE	DE93M50V0.027μF	2	374122735	
S322-S324	Switch-Lever	NLS-122-27-SL	3	25040021	T. MONI. LOUDNESS

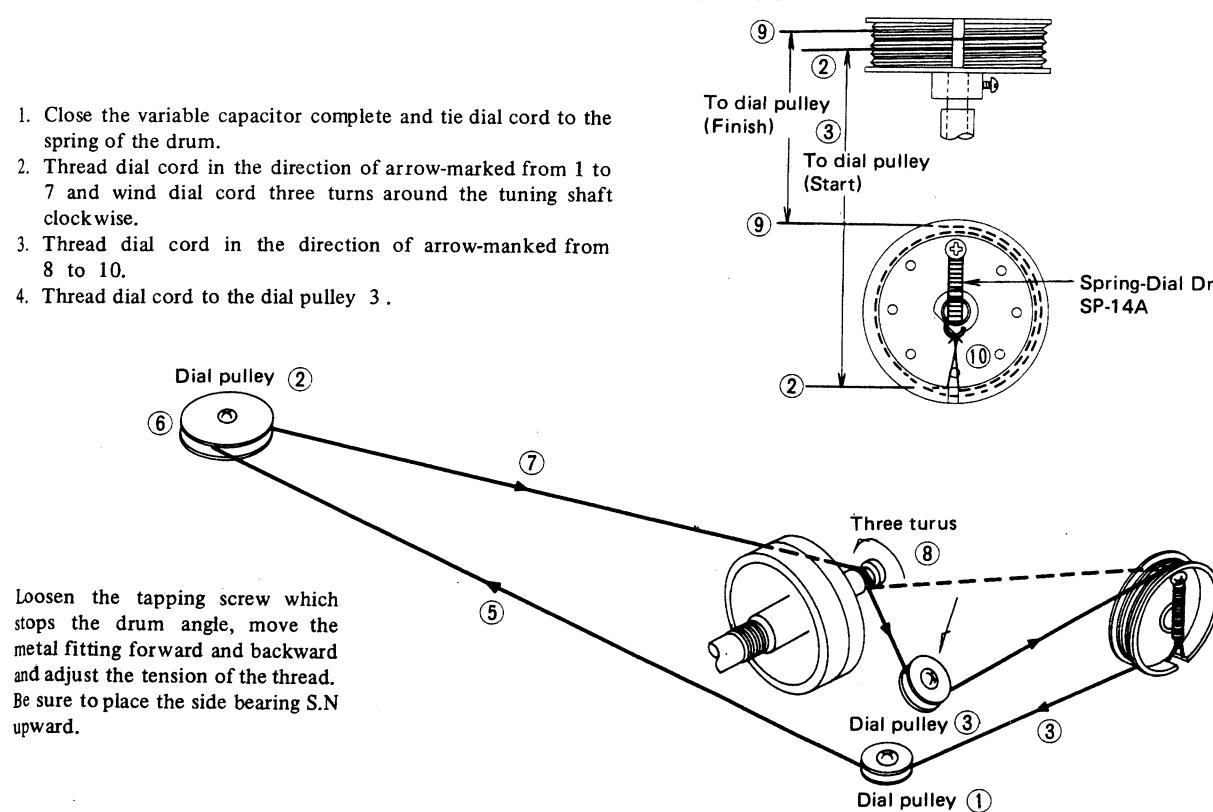
MODEL A-3000 SCHEMATIC DIAGRAM



T-5000 EXPLODED VIEW



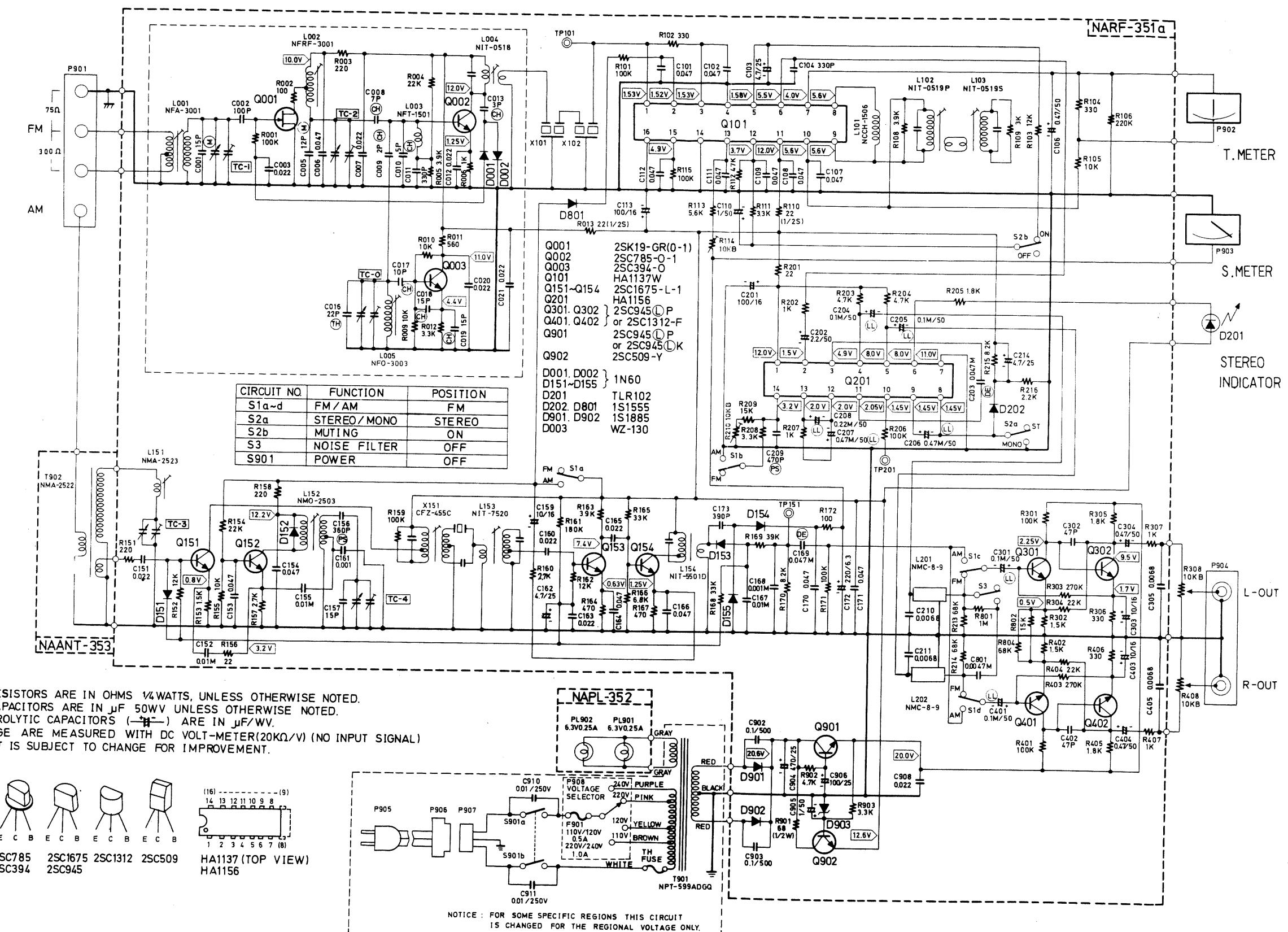
T-5000 DIAL CORD ARRANGEMENT

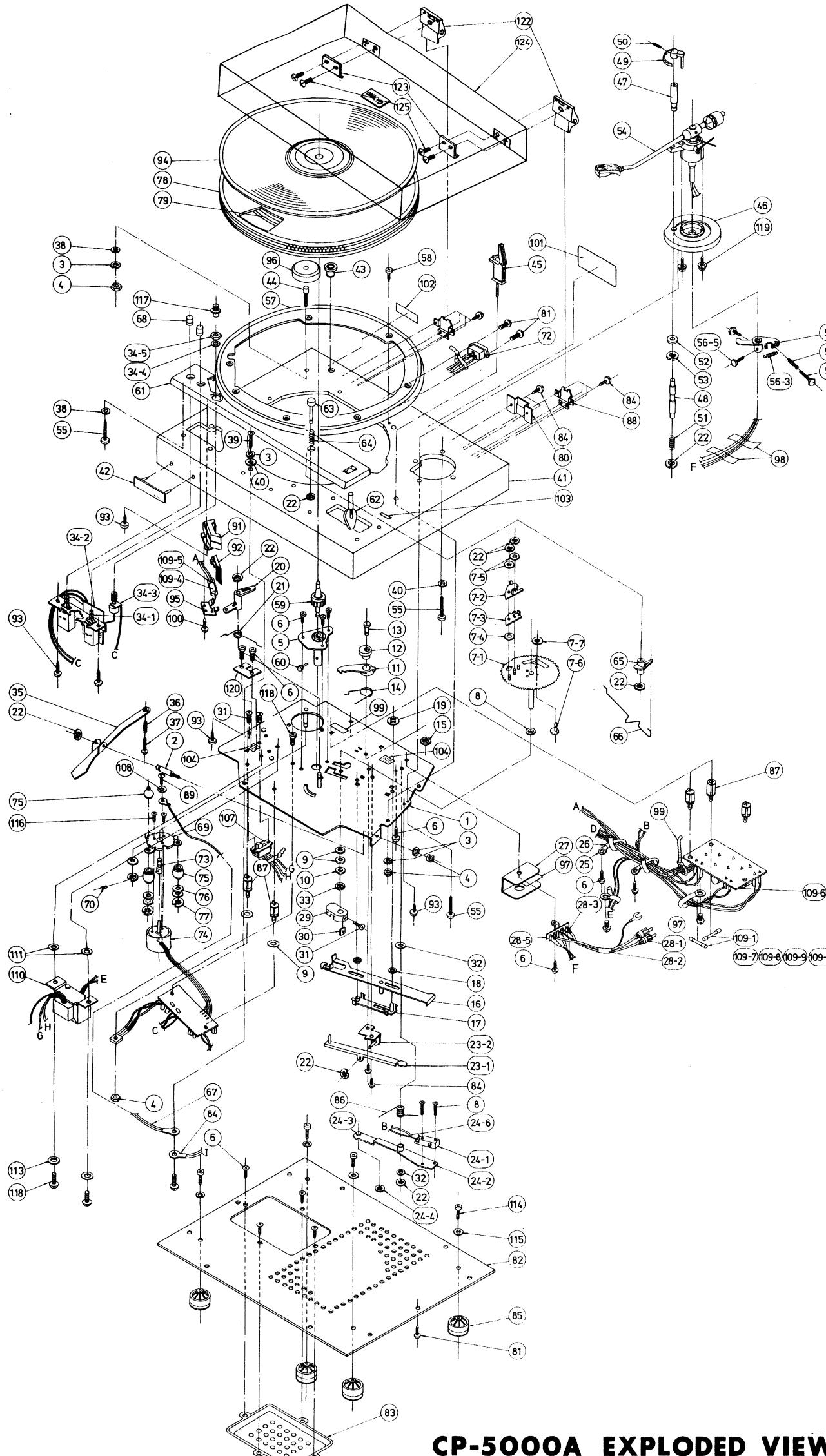


T-5000 PARTS LIST

PARTS NO.	DESCRIPTION	SPECIFICATIONS	Q'TY	STOCK NO.	REMARKS
U1	RF-AS	NARF-351a	1	13789551A	
U2	PL-AS	NAPL-352	1	13799552	
U3	ANT-AS	NAANT-353	1	NMA2522AS	
D201	Light Emitting Diode	TLR-102	1	225005	
T901	Transformer-Power	NPT-599ADGQ	1	230172	
C910, C911	Capacitor-IS	PME271Y510	2	3500052	
R308, R408	Resistor-Variable	N16RG10KB35	1	5147005	Level Power
S901	Switch-Push	NPS-121-L	1	25035034	
F901	Fuse	0.5A-T	1	252023	
P901	Terminal	NTM-4PUN1-L	1	25060003	Antenna Center
P902	Tuning Indicator	NIIND-0250S61	1	243061	Strength
P903	Tuning Indicator	NIIND-0500S60	1	243060	Output
P904	Pin Jack	NPJ-2PRBL02	1	25045023	
P905	Power Supply Cord	AS-CEE	1	253083	
P906	Plug-PS	SFO-40A3	1	250227	
P907	Inlet-3P	CM-3	1	25050013	
P908	Socket-VS	SI-7205-7	1	250186	
	Binder	SKB-1	2	260208	
	Back Panel		1	27120054	
<< NARF-351a >>					
Q001	Transistor	2SK19-Y(O-1) or 2KS19GR(O-1)	1	2210374 or 2210375	RF AMP (F.E.T)
Q002	Transistor	2SC785 (O-1)	1	2210380	MIX
Q003	Transistor	2SC394 (O)	1	2210393	OSC
Q101	IC	HA-1137W	1	222421	FM DET
Q151-Q154	Transistor	2SC1675 (L-1)	4	2210823	AM IF
Q201	IC	HA-1156	1	222419	FM MPX
Q301, Q302, Q401, Q402	Transistor	2SC945 L (P) or 2SC1312 (F)	4	2210743 or 2210136	AF AMP
Q901	Transistor	2SC945 L (P) or (K)	1	2210734 or 2210741	Lipple Filter
Q902	Transistor	2SC509Y	1	2210901	Lipple Filter
D001, D002	Diode-Germanium	1N60 N FM	7	2231031	
D151-D155					
D202, D801	Diode-Silicon	1S1555	2	223105	
D901, D902	Diode-Silicon	1S1885	2	223802	
D903	Diode-Zener	WZ-130	1	223924	
L001	Coil-Antenna	NFA-3001	1	233088-1	
L002	Coil-RF	NFRF-3001	1	233091	
L003	Coil-Trap	NFT-1501	1	233037	
L004	Transformer-IF	NIT-0518	1	233085	
L005	Coil-OSC	NFO-3003	1	233090	
L101	Choke Coil	NCCH-1506	1	233074	
L102	Transformer-IF	NIT-0519P	1	233086	FM DET
L103	Transformer-IF	NIT-0519S	1	233087	FM DET
L151	Coil-Antenna	NMA-2523	1	232057	
L152	Coil-OSC	NMO-2503	1	232013	
L153	Transformer-IF	NIT-7520	1	232058	
L154	Transformer-IF	NIT-5501D	1	232012	
L201, L202	Coil-MPX	NMC-8-9	2	233073	L.P.F.
X101, X102	Ceramic Filter	SFE-10.7MA	2	3010003	
X151	Ceramic Filter	CFZ-455C	1	3010004	
VC001	Capacitor-Variable	NVC2-327SA	1	3050004	
TC001	Capacitor-Trimmer	NTC-F	1	3060001	
C103, C162, C214	Capacitor-Elect.	CE04W25V4.7μF	3	352750471	
C106, C304, C404	Capacitor-Elect.	CE04W50V0.47μF	3	352784791	
C110, C905	Capacitor-Elect.	CE04W50V1μF	2	352780101	
C159, C303, C403	Capacitor-Elect.	CE04W16V10μF	3	352741001	
C172	Capacitor-Elect.	CE04W6.3V220μF	1	352722211	
C201	Capacitor-Elect.	CE04W16V100μF	1	352741011	
C202	Capacitor-Elect.	CE04W50V2.2μF	1	352780221	
C904	Capacitor-Elect.	CE04W25V470μF	1	352754711	
C906	Capacitor-Elect.	CE04W25V100μF	1	352751011	
C156	Capacitor-Polystyrene	ST08-50V360PF	1	372323615	
C209	Capacitor-Polystyrene	ST08-50V470PF	1	372324715	
C169, C203,	Capacitor-DE	DE93M50V0.047μF	2	374124737	
C204, C205, C301, C401	Capacitor-LL	LL04B50V0.1μF	4	392881097	
C206, C207	Capacitor-LL	LL04B50V0.47μF	2	392884797	
C208	Capacitor-LL	LL04B50V0.22μF	1	392882297	
R114	Resistor-Semi Fixed	R-HK10KB3P	1	5225017	S. Meter Adjust
R210	Resistor-Semi Fixed	R-HK10KB3P	1	5225017	19 KHz Adjust
S1	Switch-Lever	NLS-142-27-SL	1	25040022	Selector
S2, S3	Switch-Lever	NLS-122-27-SL	2	25040021	Muting, Noise Filtre
	Shielded Plate F		1	27150010	
	Shielded Plate H		1	27150012	
	Shielded Plate I		1	27150044	
<< NAPL-352 >>					
PL901, PL902	Pilot Lamp	6.3V0.25A	2	210026	
PL901a, PL902a	Fuse Holder	SN5051	4	250113	
<< NAANT-353 >>					
T902	Coil-Antenna	NMA-2522	1	232056	
	Cover-Antenna		1	27300040	
	Holder-Antenna		1	27190016	

MODEL T-5000 SCHEMATIC DIAGRAM

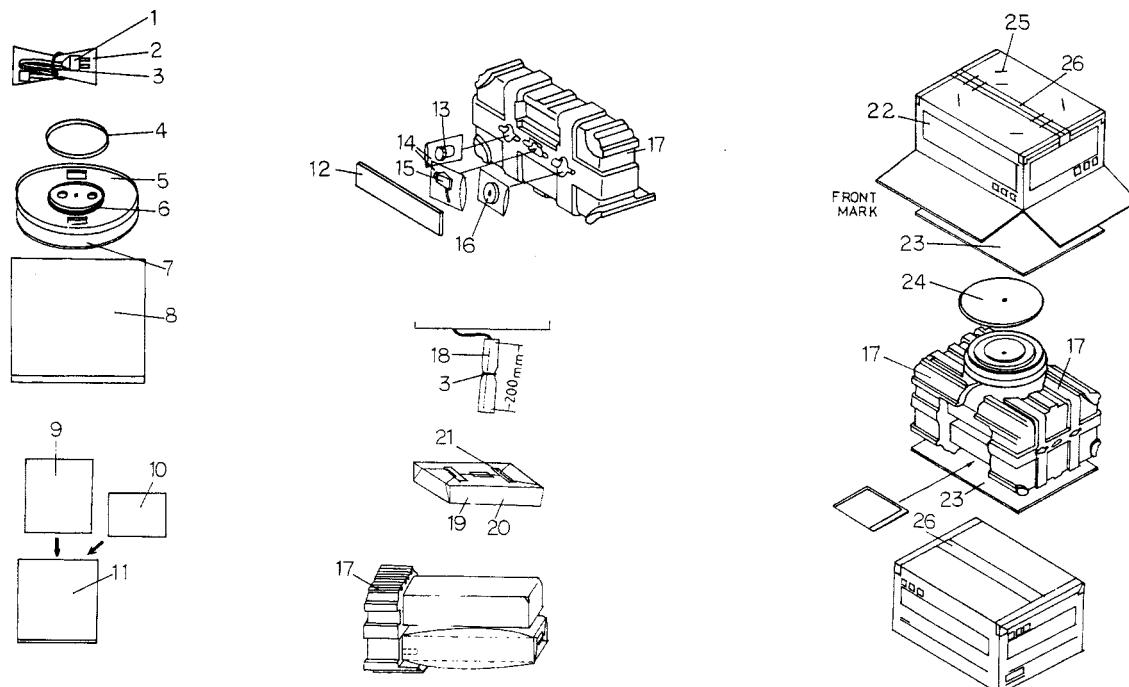




CP-5000A EXPLODED VIEW

117	Knob-Volume	24504128	103	Label-Stylus	29375012	78	Turntable	24502038
118	CT + 3 x 8		104	Tag-Voltage		79	Belt	24212913
120	Fixture Plate	270444	107	Slide Switch S-J0275	250159	80	Stopper	
121	Phono Motor Ass'y (67, 69, 74, 116)		108	S. SW2.6φ		81	WM + 3.1 x 13	
122	Hinge Ass'y	28180037	109-1	Fuse 0.5A	252023	82	Bottom Board	24506087
123	Plate	28180022	109-2	Fuse 1A		83	Cover-Motor	27300007
124	Dust cover	28165028-1	109-4	Neon Lamp NE-2HU	211003	84	Shielded Cord	
125	Screw BM x 4 x 10		109-6	Printed Circuit Board		85	Cushion-Motor	24509031
	Player Ass'y MSS-7312A	242253	109-7	Capacitor-Ceramic		86	Spring-Arm	24500767
	Headshell			1500WV0.033μF		87	PC Support	24506085
	Cartridge OC-35V	24501108	109-9	Diode 1S1943	223836	88	Plate-Hinge	
	Stylus DN-35ST	24501110	109-10	Fuse Holder		89	FM + 2.6 x 4	
			109-11	Resistor 12 kΩ 1W		91	Lamp House	24504137
			109-12	Capacitor-Elect.		92	Lamp Cover	24504138
				25WV 1000μF	351251021	93	FMT + 3 x 8	
			110	Transformer-Power		94	T.T Mat	292045A
				NPT-604DG	230169	95	Lamp Holder	
			111	Ring-Transformer		96	45 Adaptor	292023
			114	FM + 4 x 10		99	Band	
			115	FW 4φ x 10φ x 0.5t		100	FMT + 3 x 6	
			116	FM + 2.6 x 3		101	Rating Plate	29360120
						102	Label-Model	

CP-5000A PACKING PROCEDURE



CP-5000A PARTS LIST

NO.	DESCRIPTION	SPECIFICATIONS	Q'TY	S. N.
1	Power Supply Cord Ass'y		1	
1-a	Power Supply Cord	AS-CEE	1	253083
1-a	Conversion Plug	CV-K or CV-K-1	1	292063 or 25055018
1-a	Plug-PS	SFO-40A3	1	250227
1-b	Power Supply cord	AS-VDE-C	1	253089
1-c	Power Supply cord		1	253077
1-c	Plug-PS	SFO-40A3	1	250227
2	Poly Bag		1	
3	Rubber Band		1	262001
4	Pad Sheet		1	
5	Turntable		1	24502038
6	Belt		1	242129B
7	T. T Mat		1	292045A
8	Poly Bag – Turntable	450x350mm	1	29100008
9-a	Instruction Manual		1	29340160
9-b	Instruction Manual		1	29340161
10-b	Warranty Card		1	29365001-1
11	Poly Bag	330x220mm	1	29100005

NO.	DESCRIPTION	SPECIFICATIONS	Q'TY	S. N.
12	Pad Sheet – Side		1	29095031
13	Counter Weight		1	
14	Poly Bag	150x80mm	2	29100002
15	Headshell Ass'y		1	
16	45 Adaptor		1	292023
17	Pad-Side		2	29090078-1
18	Paper-Output Cord		1	290076
19	Dust Cover		1	28165028-1
20	Sheet	670x1000mm	2	29095016
21	Adhesive Tape			
22	Master Carton Box		1	29050088
23	Pad Sheet		2	29095030
24	Pad – Turntable		1	24509019
25	Sealing Hook		8	282301
26	Adhesive Tape	W50mm		262037

a: Universal Type

b: Germany Type

c: Austria Type

PARTS NO.	DESCRIPTION	SPECIFICATIONS	Q'TY	S. N.
Q1~Q7	Transistor	2SC945(L) Por K	7	2210743 or 2210741
Q8	Transistor	2SA641 (H)	1	2210981
Q9	Transistor	2SC1449 (L)	1	2200623
D1	Varistor	VD1122	1	4000030
D2	Diode	1S953	1	223104
VR1, VR2	Resistor-Semi Fixed	NO 8 HRIKBC	2	5215001
C3	Capacitor-Elect.	CE04W 25V 10 10μF	1	352751001
C4	Capacitor-Elect.	CE 04W 25V 10μF	1	352750101

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