NAD SERVICE MANUAL

7240PE
STEREO RECEIVER

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-7240PE-

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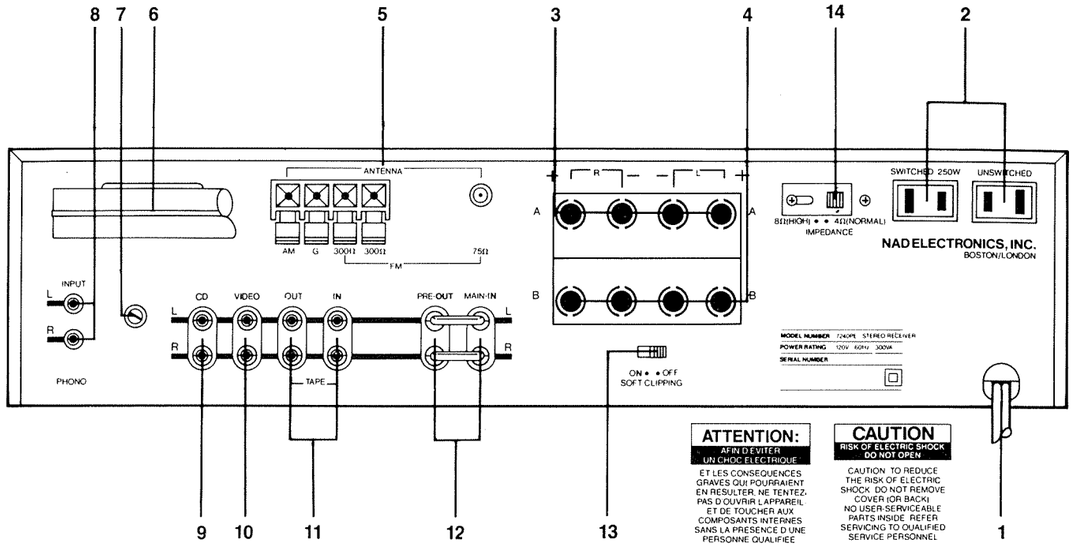

FRONT PANEL

1. Power
2. Phones
3. Speaker Selector
4. Bass
5. Treble
6. Bass EQ
7. Infrasonic Filter Off
8. Mono
9. FM NR Off
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12. Low Level
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16. Status Indicators
17. Tuning Pre-sets
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1. Alimentation
2. Casque d'écoute
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4. Graves
5. Aigus
6. Bass Eq
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8. Mono
9. FM NR Off
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FRONTSEITE

1. Netzschalter
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9. Stereo-Rauschminderung
10. Vor/Über Band-Schalter
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12. Schalter für Lautstärkeabsenkung
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14. Lautsfärke/Balance-Steller
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17. Stationstasten
18. Eingabebereitschaft für Stationstastenspeicher
19. Wellenbereichsschalter für UKW/Mittelwelle
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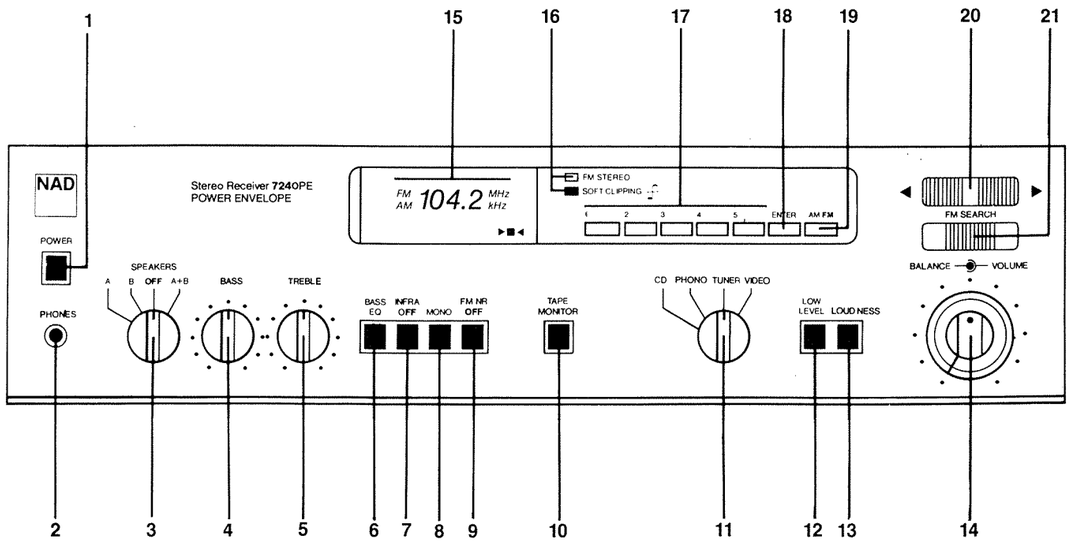
21. Suchlauf, nur UKW



Specifications
NAD 7240PE Stereo Receiver

Note: Specifications are measured in accordance with EIA Standard RS-490 (IHF A-202) for amplifiers and ANSI-IEEE Standard 185 (1975), i.e. IHF T-200, for tuners. Tuner sensitivity is measured via 75-ohm coaxial input and converted to equivalent 300-ohm values. Amplifier measurements referred to 8 ohms are taken with the Speaker Impedance selector set to 8Ω (High). Measurements for 4 and 2 ohms are taken with Impedance selector at 4Ω (Normal).

Power Amplifier Section

CONTINUOUS AVERAGE POWER		
OUTPUT AT 8 OHMS (minimum RMS power per channel, both channels driven, with no more than the rated distortion)		**40 W (16 dBW)**
Rated distortion (THD), **20 Hz - 20 kHz**		0.03%
Clipping power, 1 kHz (maximum continuous power per channel)		50W
Dynamic Headroom at 8 ohms		+6 dB
Dynamic power (maximum short-term power per channel)	**8 ohms**	160 W
	4 ohms	200 W
	2 ohms	250 W
Damping factor		> 50
Slew factor		> 50
Slew rate		15V/µsec
T.H.D. and SMPTE I.M. distortion from 250 mW to rated output		< 0.03%
IHF I.M. (CCIF IM) and T.I.M. distortion at rated output		< 0.03%
Input impedance		22 kΩ
Input sensitivity for 1 Watt / 40 Watts out		160 mV / 1.0 V
Power amp gain		25 dB (18X)

Preamplifier Section

Phono Input

Input Impedance	R = 47kΩ , C = 100 pF
Input Sensitivity (1 kHz)	0.55 mV for 1 Watt out 3.5 mV for 40 Watts out
Signal-to-Noise Ratio with cartridge connected, A-weighted	76 dB re 5 mV
Input Overload at 20 Hz/1kHz/20kHz	20/180/1500 mV
RIAA Accuracy	±0.5 dB

High-Level Inputs (CD, Video, Tape)

Input Impedance	R = 15 kΩ , C = 100 pF
Input Sensitivity	26 mV for 1W out 160 mV for 40W out
Signal-to-Noise ratio, A-weighted	86 dB re 1 W out 102 dB re 40W out
Input Overload	>10 V
Frequency Response	20Hz - 20kHz +0.5 dB

Outputs

Preamp output impedance	600 Ω
Tape output impedance	Source Z + 1000 Ω

Controls

Treble	±7 dB at 10kHz
Bass	±10 dB at 50 Hz
Bass Equalization	±3 dB at 70 Hz +6 dB at 40 Hz
Infrasonic Filter	-3 dB at 12 Hz 12 dB/octave
Low Level (audio muting)	-20 dB

FM Tuner Section

Input sensitivity		
	Mono, -30 dB THD+N	10.3 dBf (1.8 µV/300Ω, or 0.9 µV into 75Ω)
	Mono, 50 dB S/N	4.2 dBf (2.8 µV/300Ω)
	Stereo, 50 dB S/N	29 dBf (15 µV), FM NR on 36 dBf (35 µV), FM NR off
	Stereo 60 dB S/N	40 dBf (55 µV), FM NR on 46 dBf (110 µV), FM NR off
Capture ratio (at 45 and 65 dBf)		< 1.5 dB
AM rejection (at 65 and 85 dBf)		> 60 dB
Selectivity		65 dB
Image rejection		70 dB
R.F. intermodulation		65 dB
I.F. rejection		90 dB
SCA rejection		70 dB
Subcarrier suppression (19 & 38 kHz)		60 dB
THD at 100% modulation	**Mono, 1 kHz**	0.09%
	100Hz-6kHz	0.2%
	Stereo, 1 kHz	0.09%
	100Hz-6kHz	0.3%
Signal-to-noise ratio	**Mono**	> 80 dB
HF weighted, 65 dBf	**Stereo**	> 75 dB
Frequency response, 30Hz-15 kHz		±0.5 dB
Stereo separation (FM NR off)	**1 kHz**	50 dB
	30Hz-10kHz	40 dB

AM Tuner Section

Usable sensitivity	300 µV/meter
THD	0.5%
Selectivity	35 dB
Image rejection	50 dB
I.F. rejection	35 dB
S/N ratio (30% mod., 50 mV input)	45 dB

Physical Specifications

Width x Height x Depth	42 x 10.8 x 38 cm. 16.5 x 4.25 x 15 in.
Net Weight	7.48 kg (16.5 lbs)
Shipping Weight	8.95 kg (19.75 lbs)
Power Consumption	50/60 Hz at 110, 120, 220, or 240 VAC 200 W

Specifications are those in effect at the time of printing. NAD reserves the right to change specifications or designs at any time without notice.

ALIGNMENT METHOD

AUDIO SECTION 7240PE

IMPORTANT

Speaker Impedance switch should be in 8 ohm position while adjusting center volatge and idling current.

INITIAL ADJUSTMENT (No load connected)

A. CENTER VOLTAGE

1. Connect DC millivoltmeter to L channel output terminals.
2. Turn on and adjust to 0 V +- 30mV with VR401 (10KB). Connect DC millivoltmeter to R channel output terminals and adjust VR402 to 0 V +- 30mV.

B. IDLING CURRENT

1. Remove solder short across R471 and R472.
2. Connect DC millvoltmeter across R471 (1 ohm) (output transistor's collector resistor) and adjust VR403 (1KB) for 26-30mV reading on meter.
   Repeat adjust with VR404 (1KB), connecting meter across R472(1 ohm)
3. leave power on for minimum 5 minutes.

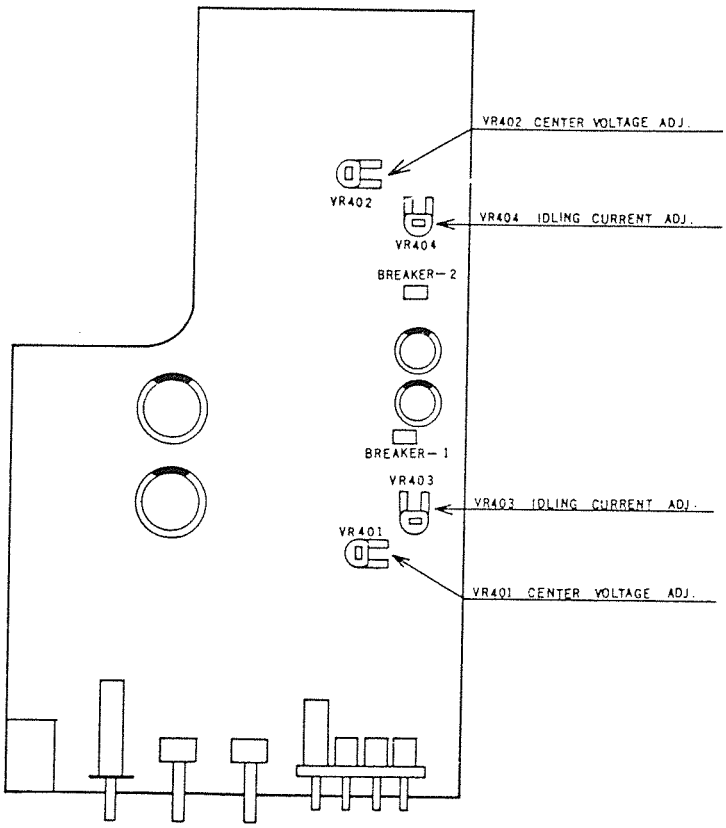
FINAL ADJUSTMENT

C. CENTER VOLTAGE

1. Repeat step A above.

D. IDLING CURRENT

1. Repeat step B and adjust with VR403, VR404 for 30mV reading on meter.
2. After the alignment is finished, 1 ohm resistor R471,R472 is shorted by solder short.



AMPLIFIER ADJUSTMENT POINTS

FM ALIGNMENTS

NECESSARY INSTRUMENTATION

FM GENERATOR (less than 0.05% THD)
STEREO GENERATOR (less than 0.05% THD, more than 50 dB separation at 1 KHz.
AUDIO GENERATOR (not necessary if FM generator has built in sweep; i.e. SOUND TECHNOLOGY ST 1000A and ST 1020A)
2 AC VTVM's (or one with left/right channel switch)
THD ANALYZER (resolution better than 0.1%)
OSCILLOSCOPE (5mV or better sensitivity, X input capability)
FREQUENCY COUNTER
VOM or DMM (high impedance, must read in mV)
DIODE DETECTOR PROBE
COPPER/FERRITE INDUCTOR

IMPORTANT

While all FM generator output levels hereafter are referred to the 300 ohm input, 75 ohm input can be used, but be aware of possible equipment groundloops and divide the RF output level by 2.
Before alignments commence set input selector to tuner and release tape, mono and FM NR. defeat switches (out)
ALIGNMENT OF FRONTEND should only be necessary after repair to frontend or crystal oscillator circuits (pin 2 and 3 on IC7)

A. TUNING VOLTAGE (OSCILLATOR)

It is essential to check tuning voltage before aligning the rest of the frontend.

1. Connect DMM between shield and pin 6 on frontend.
2. Tune to 108 MHz and adjust L 707 if voltage is incorrect.
   SPECIFICATION 20.5V +- 0.5V
3. Tune to 87.5 MHz and read voltage, repeat step 2 and 3 if incorrect.
   SPECIFICATION 3V +- 0.5V

B. RF ADJUSTMENT (TRACKING)

1. Connect RF generator to antenna input and detectorprobe to pin 1,IC 2 (IF DETECTOR) with ground to detectorshield. Adjust sensitivity of oscilloscope to maximum (5mV or better) and modulate FM generator sweep +- 300 KHz or more WITH modulating (sweep) signal connected to X-imput of oscilloscope.
2. Set tuner to 90 MHz, enter into preset 1, and tune generator so that curve appears on oscilloscope. Turn down RF input level so that curve covers approximately 1/2 of oscilloscope display.
3. Check alignments of L 702 - L 704 - L 705 by inserting copper/ferrite inductor close to them while watching curve on oscilloscope. Curve should decrease in height with either ferrite (same as increasing inductance, i.e. more core) or with copper (same as decreasing inductance, i.e. extend size of coil). If curve increases in size more than 10% adjust only the coil which reacts incorrectly. Adjust coils by gently extend or contract the aircoil with a non-metallic and non-static tool (i.e. plastic knit-pin or a wooden stick). Be careful not to deform coil.
4. Set tuner to 105MHz, enter into preset 2, and tune generator so that curve appears on oscilloscope.
5. Check L 702 - L 704 - L 705 again with the ferrite/copper inductor. Curve should not increase more than 10% on any of the coils.
6. Repeat step 2 + 3 + 4 + 5 if curve height is outside of telerances, if necessary distribute the error between 90 and 105 MHz. Check tuning voltage again if tolerances not possible to achieve.

C. IF ADJUSTMENT

1. Set tuner to approximately 98 MHz (the tuner must be tuned to an unoccupied frequency) enter into preset 3, and tune FM generator to display a curve on the oscilloscope.
2. Adjust L 709 (IFT tuner frontend) to maximum and symmetrical curve on th display, using as little input signal as possible.

D. DETECTOR COARSE ADJUSTMENT (OPTIONAL,NEEDED ONLY IF DETECTOR WAS REPAIRED).

1. Reduce sweep modulation level to +/- 75 kHz and set input level to 300 uv.
2. Adjust FM generator frquency so that both legs of the inverted U-shaped curve are equally high on the display. The curve should be almost perfectly symmetrical.
3. Disconnect detectorprobe from tuner and oscilloscope. Connect either of the tape rec. outputs to the oscilloscope.
4. Adjust IFT 1 primary (closest to the rear of unit) to maximum curveheight and 1FT 1 secondary (closest to the front of unit) to minimum curveheight and straightest possibe line. Go back and forth between primary and secondary till both are peaked.

NOTE:
Both the cores should be within 1.5 mm from the top of the form.

E. DETECTOR ALIGNMENTS (FINAL)

1. Disconnect detectorprobe and connect tape rec. outputs to VTVM's, oscilloscope and distortion analyzer.
2. Switch stereo generator to 1 kHz 100%(+/- 75kHz) mono modulation and oscilloscope to normal internal sweep 0.2 mS and 0.5 V/cm sensitivity.
3. Detector reference frequency
   Reduce FM generator output level while monitoring THD from left channel. When THD increases to 3%, fine tune the FM generator frequency to minimum THD. Reduce FM generator output level and fine tune till no reduction in the 3% THD can be achieved by fine tuning. Use this frequency for all the following detector, MPX and FM NR adjustments.

NOTE:
The typical input level for this 3% THD should be 1.6 uv to 2.3 uv. This is done only to "lineup" the frequency from the generator to the tuner's frequency. If IHF usable sensitivity (-30 dB THD+N= 3.16% THD+ N) is to be verified, a proper IHF bandpassfilter must be used.

4. Connect DMM ACROSS TP 2 (negative) and TP 1 (positive). Set FM generator output level to 1000 uv.
5. Adjust IFT 1 primary (closest to the rear of unit) for 0 V on DMM.
   TOLERANCE +/- 50 mV
6. Adjust IFT 1 secondary (closest to the front of unit) for lowest THD.
   SPECIFICATION less than 0.1%.
7. Repeat steps 3 - 5 and 6 till no further improvements. Record the DMM's final reading for use later in the adjustment.

F. AUTOSEARCH LEVEL

1. Connect DMM between IC 2 pin 12 and ground.
2. Increase FM generator level upwards from 0 and adjust VR 1 so that DMM reading goes from 0 V to approximately 4.8 V at 10 uv.
   TOLERANCE +/- 2 uv

G. STEREO DECODER, MPXFILTERS.

1. VCO Connect a frequency counter between IC 6 pin 11 and ground.
2. Set FM generator to 1000 uv output and no modulation.
3. Adjust VR 3 for a 19000 Hz reading on the counter.
   TOLERANCE +/- 100Hz
4. Disconnect frquency counter and press FM NR defeat switch (in).
5. Stero switch threshold.
   Modulate FM generator 1 kHz 45% left only plus 19 kHZ PILOT 8 - 10%.
6. Increase FM generator level upwards from 0 and adjust VR 2 so that stereo light turns on and audio outputs as watched on VTVM and oscilloscope, switches to one channel only at 10 uv input level.
   TOLERANCE +5 V

NOTE:
When turning input level down the unit will switch into mono at a lower level, typically 5 - 7 uv.

7. Stero separation
   Set FM generator output to 1000 uv, modulate in mono only.
8. Adjust VR 4 for identical outputs in the two channels.
   TOLERANCE +/- 20mV.
9. Modulate FM generator left channel only and adjust VR 5 for minimum on right channel VTVM.
10. Modulate FM generator right channel only and adjust VR 5 for minimum on left channel VTVM.
11. If the minimum in step 9 and 10 are different, adjust VR 5 so that the readings are the same in both channels.
    SPECIFICATION better than 40dB separation
12. MPX filter
    Turn off audio modulation, leaving pilot tone only. Disable IHF filter or external 19 kHz filter if used.
13. Adjust LPF 1 left channel and LPF 2 right channel for minimum output
    SPECIFICATION more than 60 dB suppression
14. Release the FM NR DEFEAT switch (out).

H. FM NR ADJUSTMENTS.

1. Turn VR 6 fully clockwise.
2. FM NR separation effect
   Observe output from left channel with FM generator output level 1000 uv and mdoulated 1 kHz left channel only. Reduce audio modulation only from stereo generator so that left channel output is reduced by 6 dB (50% stereo modulation).
   The 19 KHz pilot signal MUST REMAIN modulated 8-10%
3. Set FM generator output to 150 uv and adujust VR 6 for - 30 dB separation left to right channel (or right to left)
   TOLERANCE +/- 2 dB.

I. SYNTHESIZER FREQUENCY.

1. Tune to a known accurate frequency source, i.e. broadcasting station or synthesized / digital display FM generator, preferably in the midband (95 - 100 MHz).
2. Connect DMM acros TP 2 (negative) and TP 1 (positive).
3. Adjust VC 2 so that DMM reads the same as recorded in E - 7.
   TOLERANCE +/- 10 mV.

AM ALIGNMENTS

Unless repairs have been done to Oscillator Section, do not adjust AM OSC coil or Trimming Capacitor. If OSC Adjustment is needed, connect hight impedance voltmeter (preferably DMM) between R35 and ground.

A. OSC ADJUSTMENT

1. Tune unit to show 1610KHz or 1620 KHz on display and adjust VC3 to read 7.5 on DMM.
2. Tune unit to show 520KHz or 522KHz on display and adjust L3 to read 1V+-0.5V on DMM.
3. Repeat step 1 and unit no further improvement.

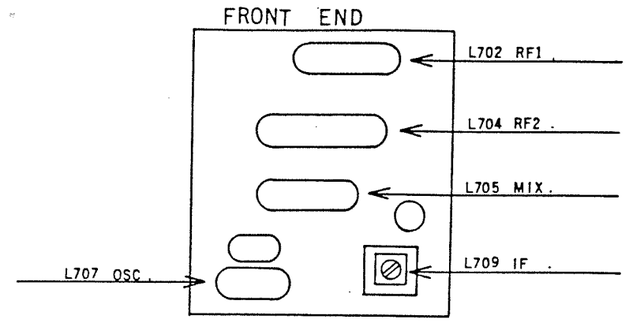
B. IF ADJUSTMENT

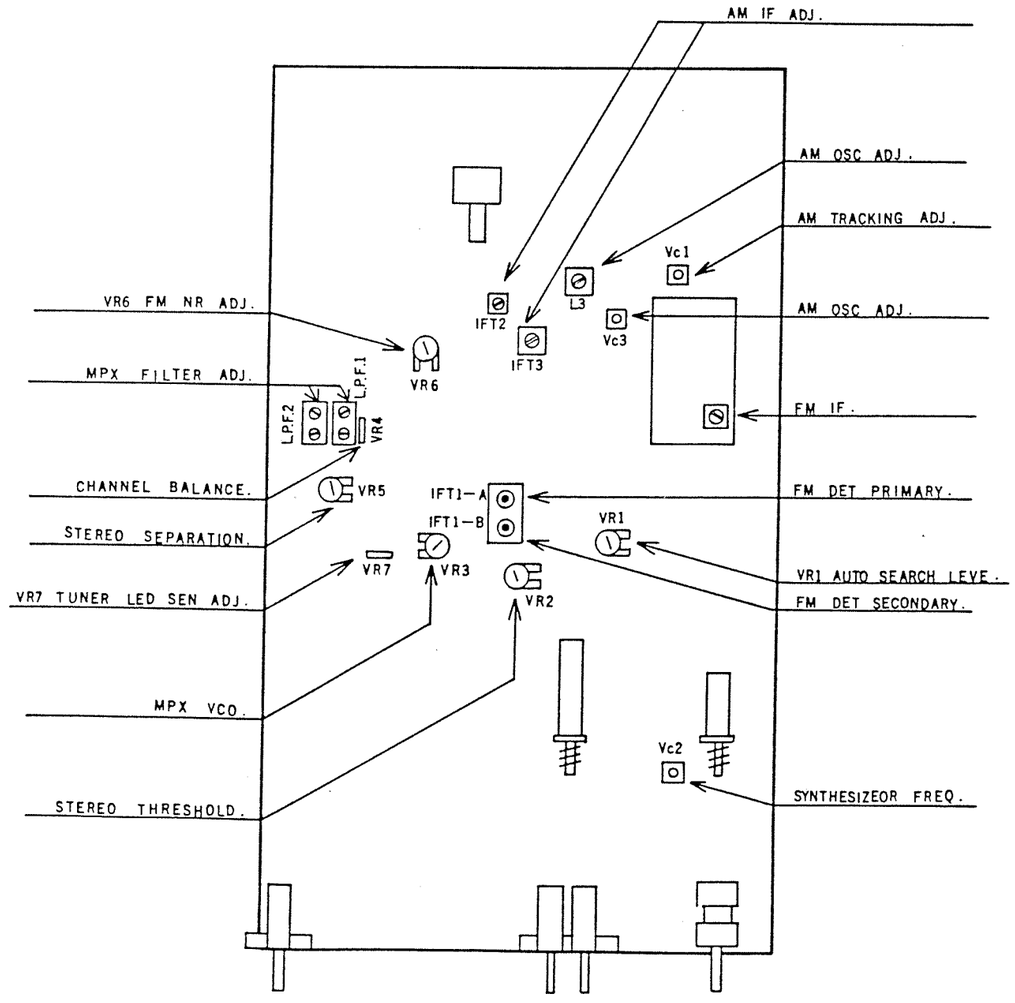
1. For IF adjustment and Tracaking adjustment connect VTVM to loudspeaker output (or tape output), only one channel connection needed, and connect signal generator to antenna terminals. Adjust generator for 30% modulation and approx. 100 uv input.
   Tune both generator and receiver to approx. 1000KHz, and adjust generator frequency for maximum reading on VTVM. Then adjust IFT2, and IFT3 for maximum reading on meter.

C. TRACKING ADJUSTMENT

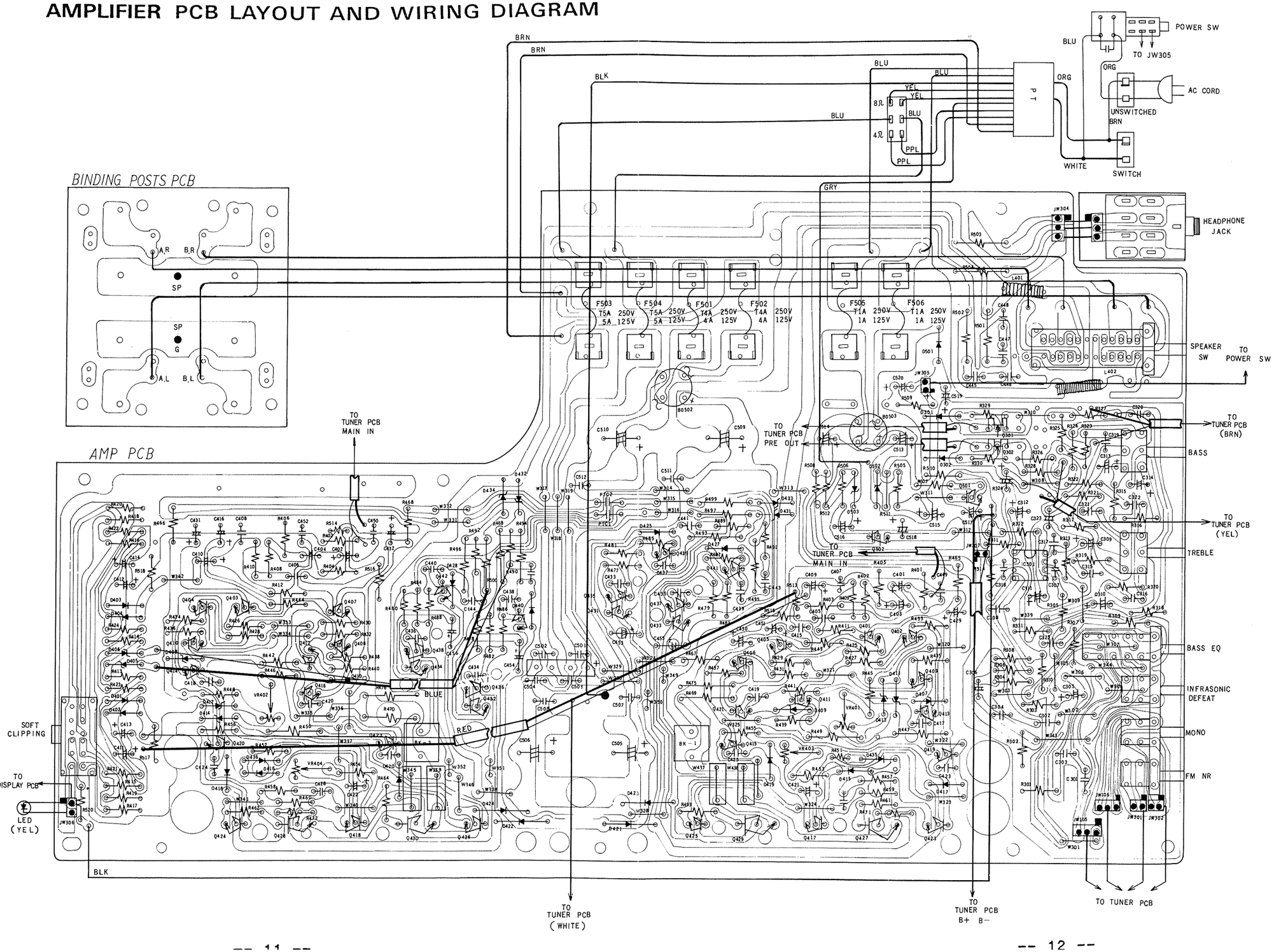
1. Tune unit and generator to show approx. 600KHz and adjust L2 to maximum reading on VTVM.
2. Tune unit and generator to show approx. 1400KHz and adjust VCI (Trimming Capacitor) for maximum reading on VTVM.
3. Repeat step 1 and 2 unit no furhter improvement is obtained.

TUNER ADJUSTMENT POINTS

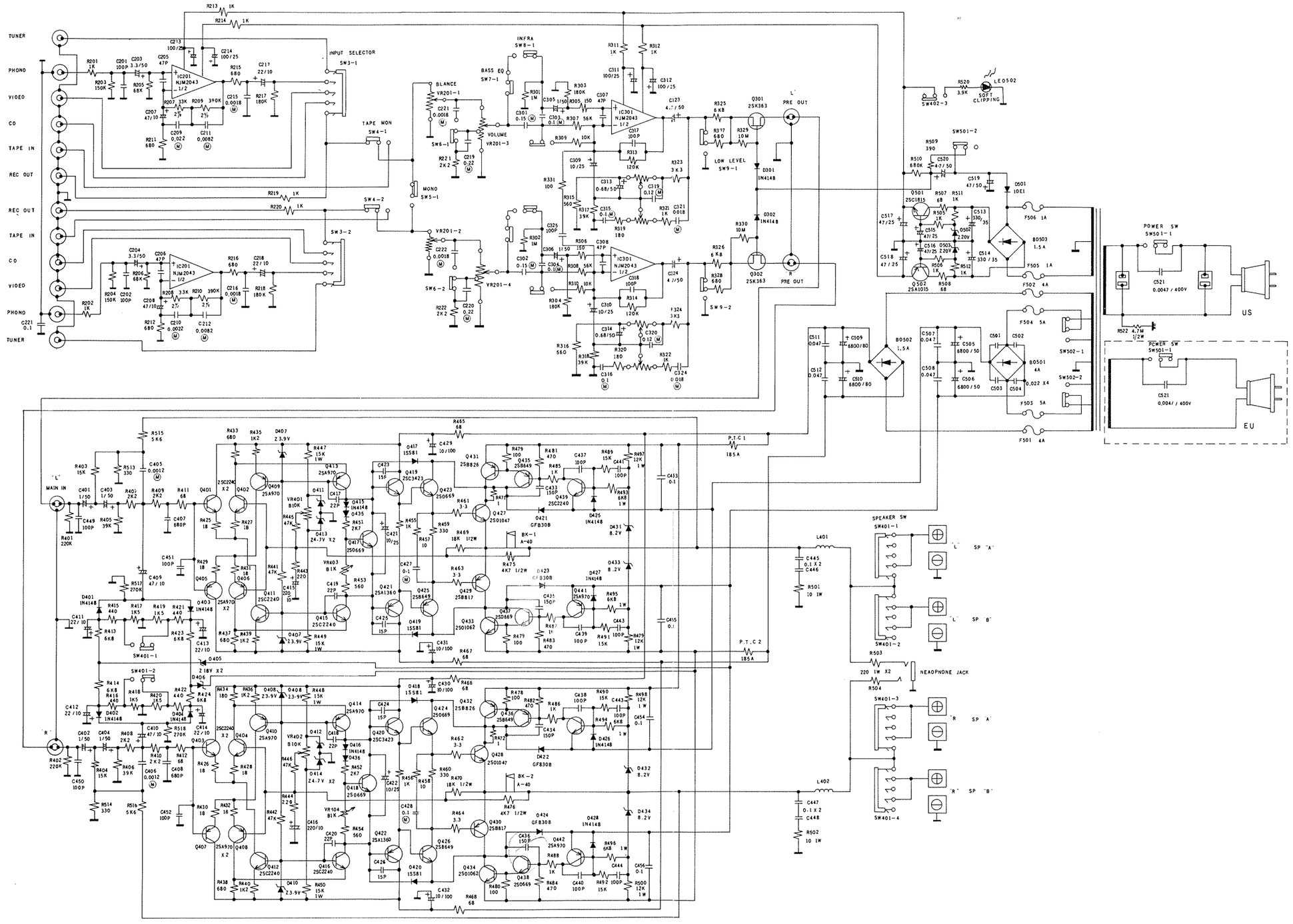




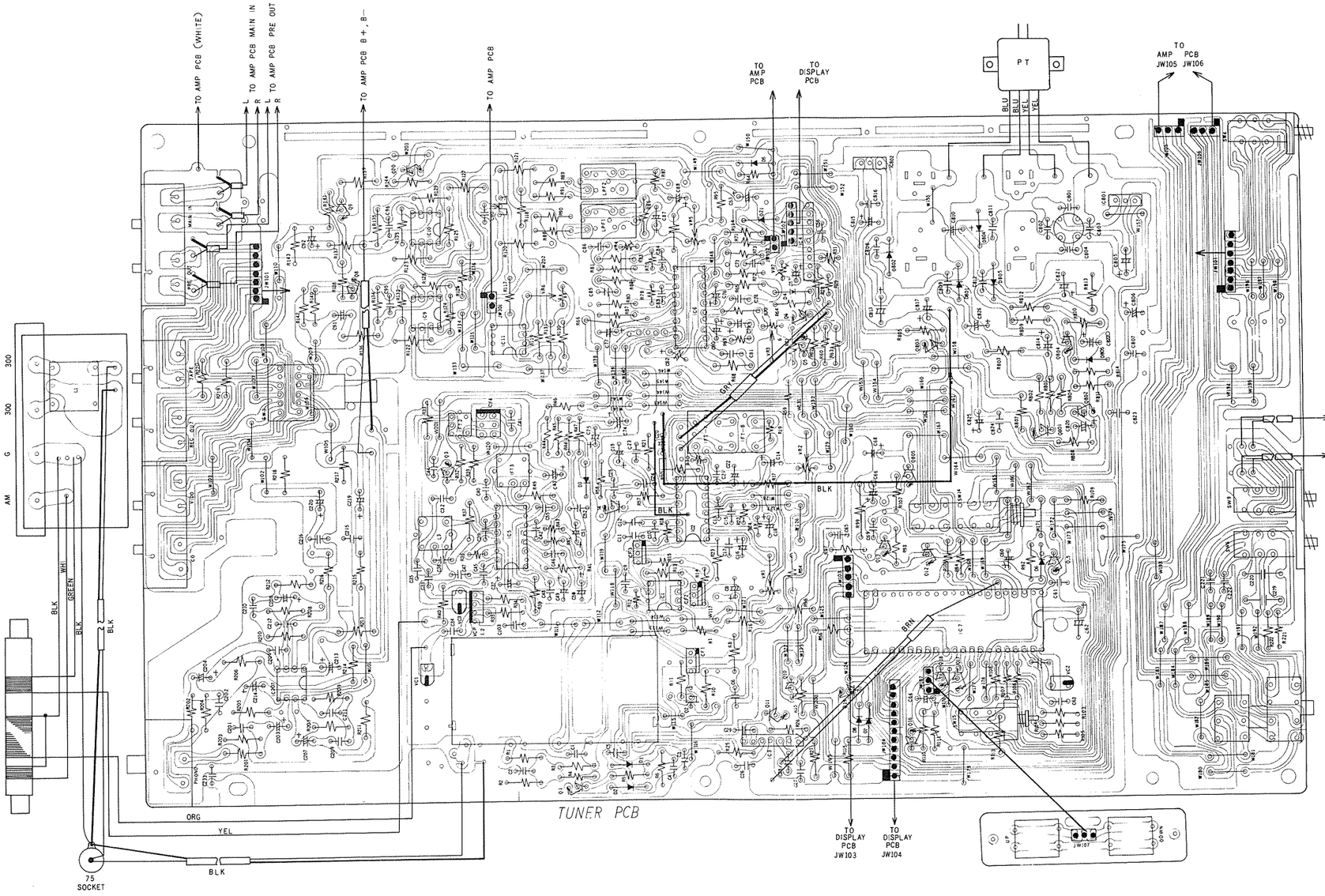
AMPLIFIER PCB LAYOUT AND WIRING DIAGRAM

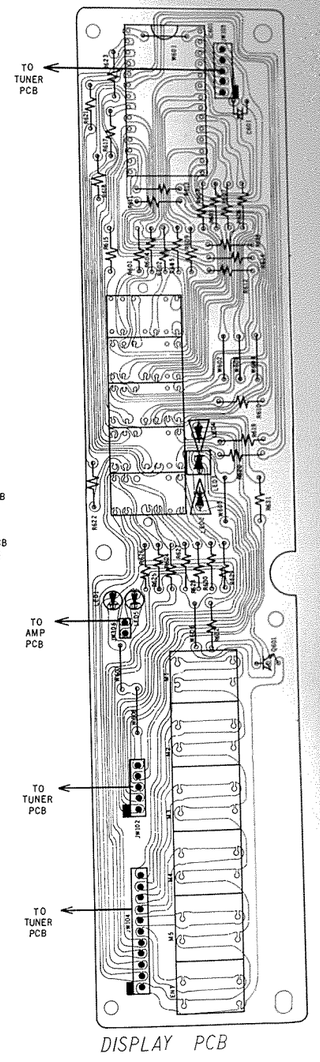


SCHEMATIC DIAGRAM
NAD7240PE
AMPLIFIER

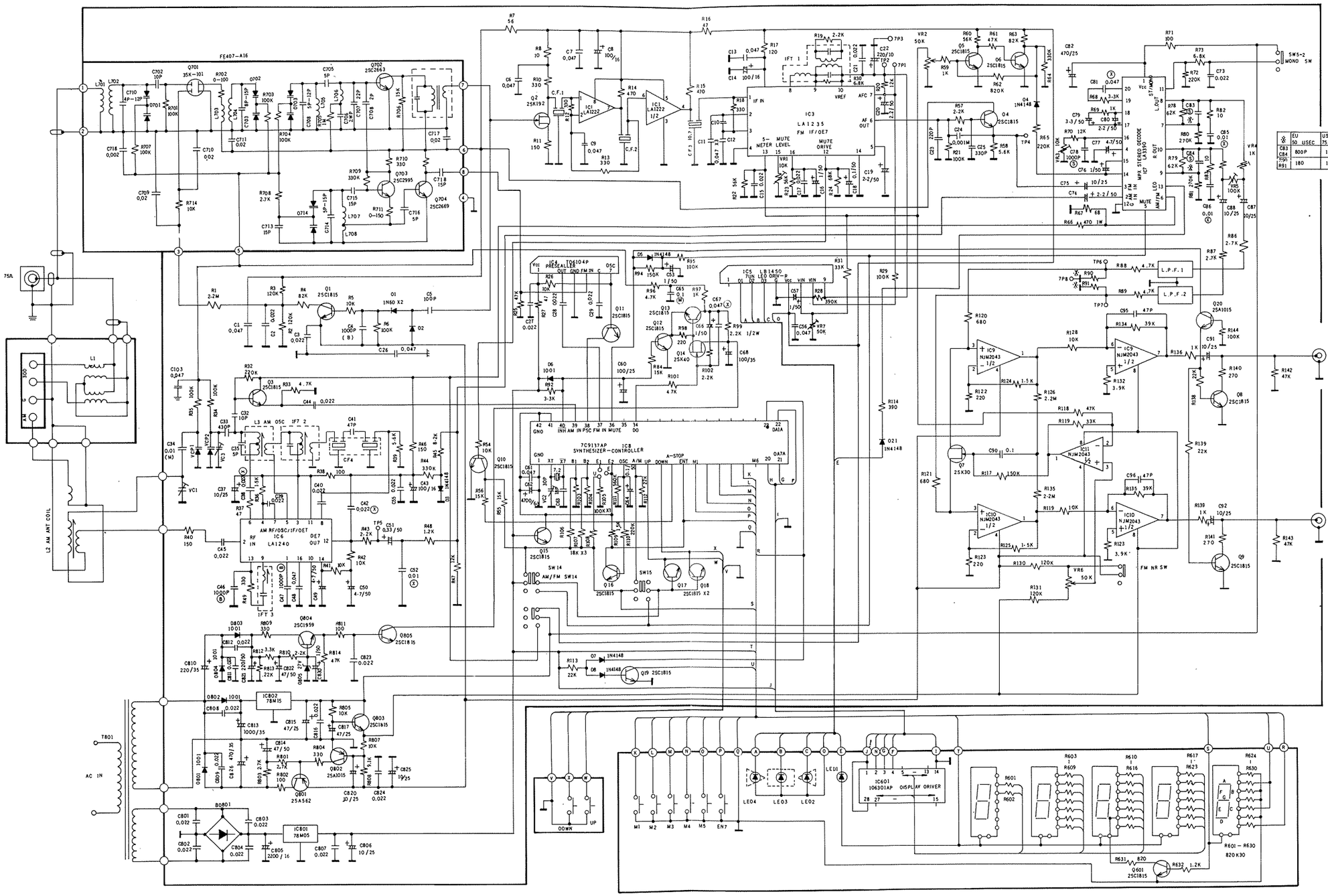


TUNER PCB LAYOUT AND WIRING DIAGRAM





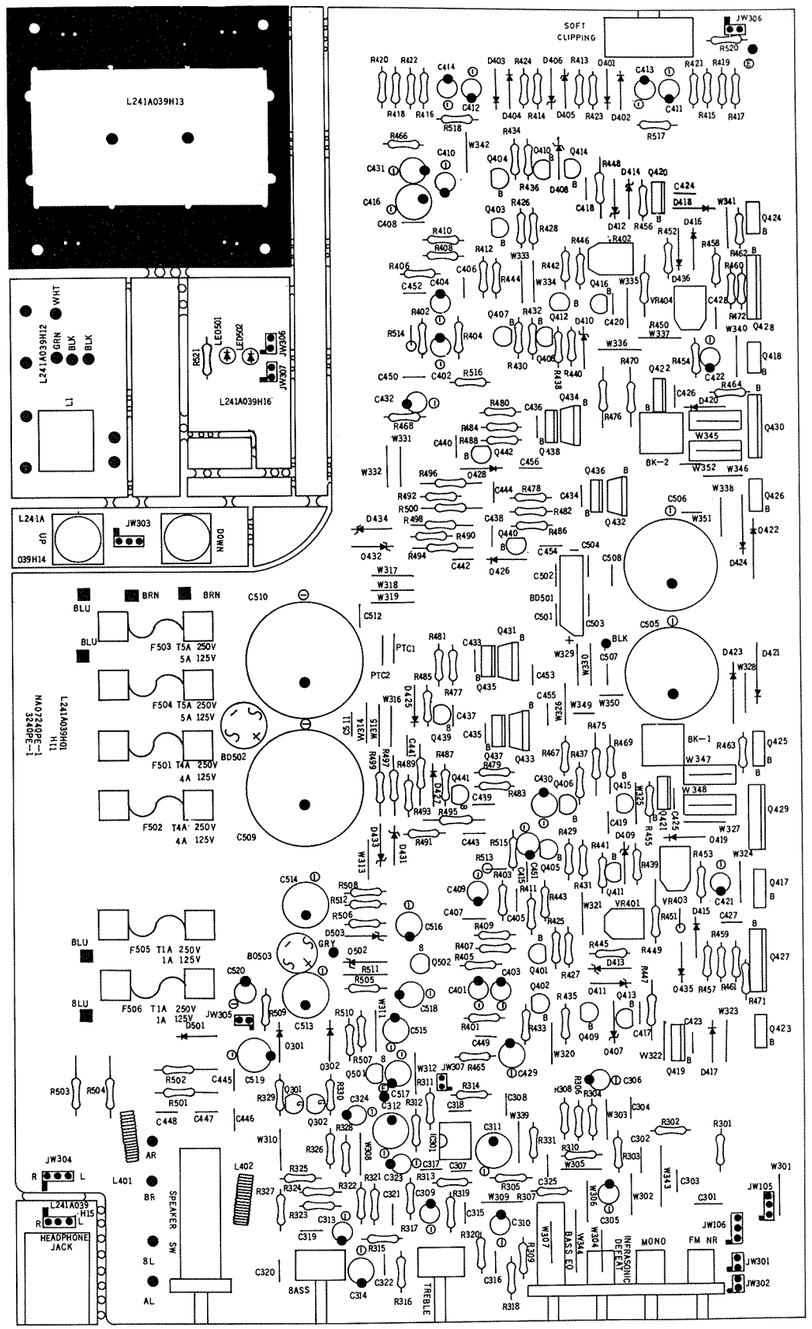
SCHEMATIC DIAGRAM
NAD7240PE
TUNER



	EU 50 USEC	US 75 USEC
CB3 CB4 R90 R91	800P	1200P
R91	180	120

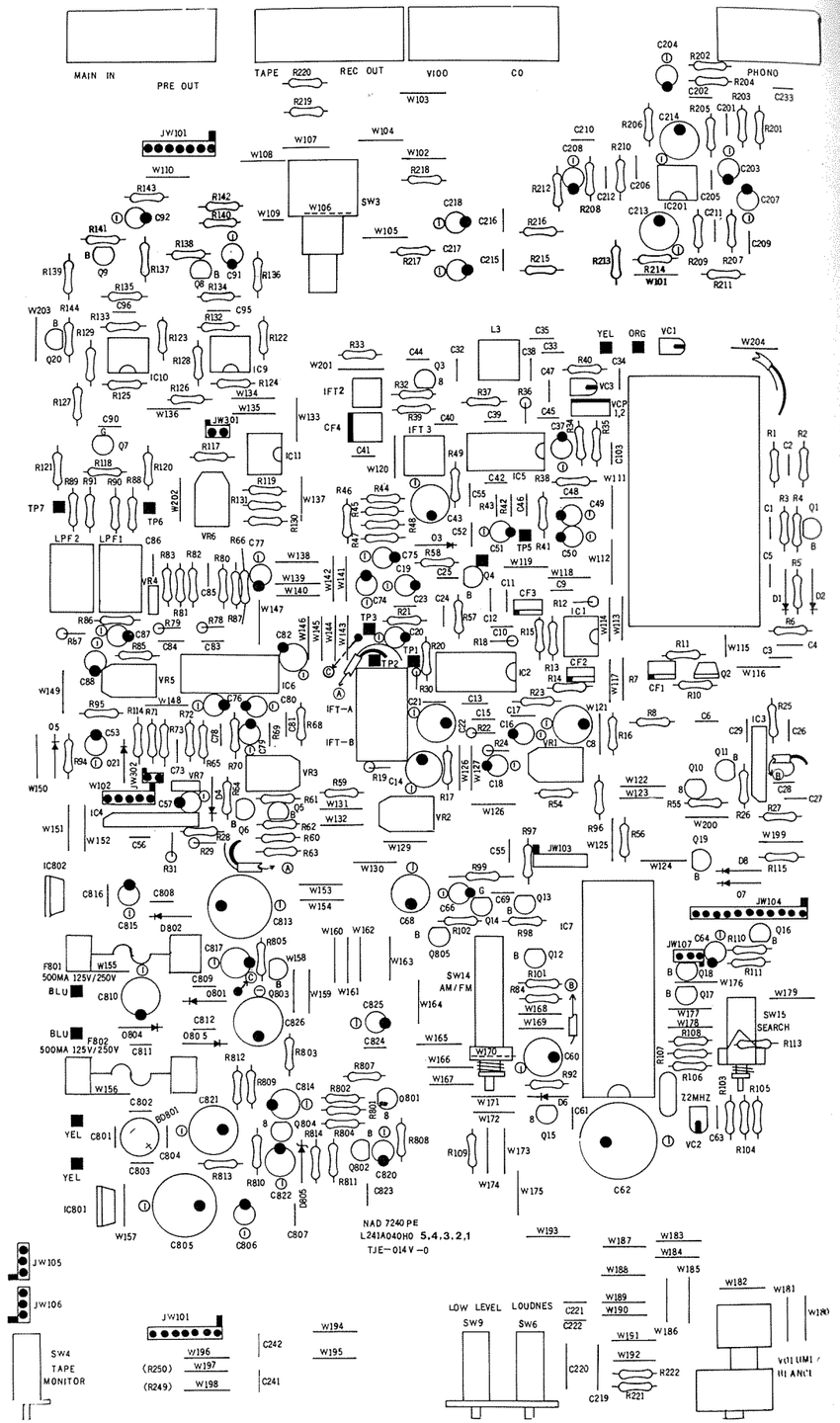
AMPLIFIER, TUNER, DISPLAY PCB COMPONENT LOCATION

AMPLIFIER PCB



AMPLIFIER, TUNER, DISPLAY PCB COMPONENT LOCATION

TUNER PCB



7240PE PARTS LIST

SYMBOL NO.	PART NO.	DESCRIPTION				REF
R1,126,127	L103Y214H57	Res, Carb,	2.2M	+-5%	1/4W	
R2,3.130,131,313,314	L103Y214H44	Res, Carb,	120K	+-5%	1/4W	
R4.63	L103Y214H42	Res, Carb,	82k	+-5%	1/4W	
R5.26.41,54,128,129,309.310,805,807	L103Y214H31	Res, Carb,	10K	+-5%	1/4W	
R6,21,34,35,95,104,105,144	L103Y214H43	Res, Carb,	100K	+-5%	1/4W	
R7	L103Y214H69	Res, Carb,	56	+-5%	1/4W	
R8,82,83,457,458	L103Y214H01	Res, Carb,	10	+-5%	1/4W	
R10,13,49,459,460,804,809	L103Y214H13	Res, Carb,	330	+-5%	1/4W	
R11,40,46,305,306	L103Y214H09	Res, Carb,	150	+-5%	1/4W	
R12,18	L103Y317H13	Res, Carb,	330	+-5%	1/4W	
R14,15,481,482,483,484	L103Y214H15	Res, Carb,	470	+-5%	1/4W	
R16,27,37	L103Y214H05	Res, Carb,	47	+-5%	1/4W	
R17	L103Y214H08	Res, Carb,	120	+-5%	1/4W	
R19	L103Y317H23	Res, Carb,	2.2K	+-5%	1/4W	
R20.47,70	L103Y214H32	Res, Carb,	12K	+-5%	1/4W	
R22	L103Y317H40	Res, Carb,	56K	+-5%	1/4W	
R23,60	L103Y214H40	Res, Carb,	56K	+-5%	1/4W	
R24	L103S017H41	Res, Carb,	68K	+-5%	1/4W	
R25,42,51,18,143,441,442,445,446,814	L103Y214H39	Res, Carb,	47K	+-5%	1/4W	
R28,44,64	L103Y214H49	Res, Carb,	330K	+-5%	1/4W	
R29	U103S017H43	Res, Carb,	100K	+-5%	1/4W	
R30	U103S017H29	Res, Carb,	6.8K	+-5%	1/4W	
R31	U103S017H37	Res, Carb,	33K	+-5%	1/4W	
R32.65,72.10,401,402	L103Y214H47	Res, Carb,	220K	+-5%	1/4W	
R33,88,89,96,101	L103Y214H27	Res, Carb,	4.7K	+-5%	1/4W	
R36	U103S017H21	Res, Carb,	1.5K	+-5%	1/4W	
R38,71,331,477,478,479,480,802,811	L103Y214H07	Res, Carb,	100	+-5%	1/4W	
R39.55,515,516	L103Y214H28	Res, Carb,	5.6K	+-5%	1/4W	
R42	U103S017H31	Res, Carb,	10K	+-5%	1/4W	
R45	L103Y214H30	Res, Carb,	8.2K	+-5%	1/4W	
R48.435.436,439,440,632	L103Y214H20	Res, Carb,	1.2K	+-5%	1/4W	
R55.56,84,403,404.489,490,491,492	L103Y214H33	Res, Carb,	15K	+-5%	1/4W	
R57,102,221,222,407,408,409,410,810	L103Y214H23	Res, Carb,	2.2K	+-5%	1/4W	
R59,97,136.137,201,213,214,219,220,302,311	L103Y214H19	Res, Carb,	1K	+-5%	1/4W	
R312,213,322,455,456,505,506,511,512						
R62	L103Y214H54	Res, Carb,	820K	+-5%	1/4W	
R66	U105S005H21	Res, Metal	470	+-5%	1W	
R67,411,412,465.466,467,468,507,508	L103Y214H25	Res, Carb,	68	+-5%	1/4W	
R68,92,323,324,812	L103Y214H25	Res, Carb,	3.3K	+-5%	1/4W	
R69	L103Y317H19	Res, Carb,	1K	+-5%	1/4W	
R73,325,326,413,414,423,424	L103Y214H29	Res, Carb,	6.8K	+-5%	1/4W	
R76,79	U103S037H40	Res, Carb,	62K	+-5%	1/4W	
R80,81.517,518	L103Y214H48	Res, Carb,	270K	+-5%	1/4W	
R85	L104Y214H16	Res, Carb,	15K	+-5%	1/4W	
R86.452,801,803	L103Y214H24	Res, Carb,	2.7K	+-5%	1/4W	
R87	U103S017H37	Res, Carb,	2.7K	+-5%	1/4W	
R90,91	L103Y022H08	Res, Carb,	120	+-5%	1/4W	A1,A2,A,C3
R90,91	L103Y022H10	Res, Carb,	120	+-5%	1/4W	B,C1,C,B1,C2
R94	L103Y214H45	Res, Carb,	150K	+-5%	1/4W	
R96,122,123,443,444	L103Y214H11	Res, Carb,	220	+-5%	1/4W	
R99	U103S024H23	Res, Carb,	2.2K	+-5%	1/2W	
R105	L103Y022H43	Res, Carb,	100K	+-5%	1/4W	
R105,137	L103Y214H34	Res, Carb,	18K	+-5%	1/4W	
R108	L103Y022H34	Res, Carb,	18K	+-5%	1/4W	
R109.124,125,417,418,419,420	L103Y214H21	Res, Carb,	1.5K	+-5%	1/4W	
R111	L103Y214H52	Res, Carb,	560K	+-5%	1/4W	
R113,138,139,813	L103Y214H35	Res, Carb,	22K	+-5%	1/4W	
R114	L103Y214H14	Res, Carb,	390	+-5%	1/4W	
R117,303,304	L103Y214H45	Res, Carb,	150K	+-5%	1/4W	
R119	L103Y214H37	Res, Carb,	33K	+-5%	1/4W	
R120,121,210,212,215,311,327,328,433,434	L103Y214H17	Res, Carb,	680K	+-5%	1/4W	
R437,438						
R132,133	L103Y214H17	Res, Carb,	3.9K	+-5%	1/4W	
R134,135,317,318,405,406	L103Y214H38	Res, Carb,	39K	+-5%	1/4W	
R140,141	L103Y214H12	Res, Carb,	270	+-5%	1/4W	
R305,306	L103Y214H41	Res, Carb,	68K	+-5%	1/4W	
R307,308	L103Y024H37	Res, Carb,	33K	+-5%	1/4W	
R309.310	L103Y024H50	Res, Carb,	390K	+-5%	1/4W	
R217,218,303,304	L103Y214H46	Res, Carb,	180K	+-5%	1/4W	
R601--R631	L103Y214H18	Res, Carb,	820	+-5%	1/4W	
R301	L103Y214H55	Res, Carb,	1M	+-5%	1/4W	
R307,308	L103Y214H40	Res, Carb,	56K	+-5%	1/4W	
R315,316,453,454	L103Y214H16	Res, Carb,	560	+-5%	1/4W	
R319,320	L103Y324H10	Res, Carb,	180	+-5%	1/4W	
R329,330	L103Y214H59	Res, Carb,	10M	+-5%	1/4W	
R415,415,421,422	L103Y022H80	Res, Carb,	440	+-5%	1/4W	
R425,426,427,428,429,430,431,432	L103Y022H56	Res, Carb,	18	+-5%	1/4W	
R447,48,449,450	U105S007H39	Res, Metal	15K	+-5%	1W	
R461,462,463,464	U103S140H60	Res, Carb,	3.3	+-5%	1/3W	
R469,470	U103S024H84	Res, Carb,	18K	+-5%	1/2W	
R471,472	L103Y214H52	Res, Carb,	1	+-5%	1/4W	
R475,476	U103S024H27	Res, Carb,	4.7K	+-5%	1/2W	
R485.486,487,488	U103S140H19	Res, Carb,	1K	+-5%	1/3W	
R493.494,495,496	U105S007H35	Res, Metal	6.8K	+-5%	1W	
R497,498,499,500	U105S007H38	Res, Metal	12K	+-5%	1W	
R501,502	U105S007H01	Res, Metal	10	+-5%	1W	
R503,504	L103Y214H17	Res, Carb,	220	+-5%	1/4W	
R509	L103Y214H14	Res, Carb,	390	+-5%	1/4W	
R510	L103Y214H53	Res, Carb,	680K	+-5%	1/4W	
R513,514	U103S017H13	Res, Carb,	330	+-5%	1/4W	
R520	L103Y214H26	Res, Carb,	3.9K	+-5%	1/4W	
C1,6,9,11,12,13,55,61,103,507,508,511,512	L140Y306H45	Cap, Cer	0.047uF	+80-20%	50WV	
C2,15,21,27,28,29,39.40,44,45,55,73,433	L140Y306H39	Cap, Cer	0.022uF	+80-20%	50WV	
C434,435,436,501,502,503.504,801.802,803						
C804,807,808,809,811,812,816,823,824						
C3	U140S020H43	Cap, Cer	0.022uF	+-10%	25WV	
C4,46,47	L140Y306H12	Cap, Cer	0.001uF	+-10%	50WV	
C5,201,202.317,318.325,433,434,435,436,437	L140Y203H35	Cap, Cer	100pF	+-5%	50WV	
C438,439,440,441,442,443,444,449,450,451						
C452						
C8,14,43	L182Y322H26	Cap, EL	100uF	+50-10%	16V	
C10,48	U140S005H31	Cap, Cer	0.047uF	+80-20%	50WV	
C16,53,66,76	L182Y322H60	Cap, EL	1uF	+75-10%	50V	
C17	U140S005H29	Cap, Cer	0.022uF	+80-20%	50WV	
C18,64	L182Y322H55	Cap, EL	0.1uF	+75-10%	50V	
C19,20	L182Y322H51	Cap, EL	2.2uF	+75-10%	50V	
C22	L182Y322H15	Cap, EL	22uF	+50-10%	10V	
C23	L150Y308H43	Cap, Cer	220pF	-5%	50WV	
C24	L172Y305H01	Cap, Poly	0.001uF	-5%	50WV	
C25	L150Y308H47	Cap, Cer	330pF	-5%	50WV	
C32	L140Y203H11	Cap, Cer	10pF	+-0.5%	50WV	
C33	U173S006H15	Cap, Styrol	430pF	+-0.5%	50WV	
C34	L172Y305H13	Cap, Poly	0.01uF	+-0.5%	50WV	
C35	L140Y203H06	Cap, Cer	1pF	+-0.5%	50WV	
C37,75,87,88,91,92,309.310.805.820.825	L182Y322H34	Cap, EL	10uF	+50-10%	25V	
C38,142	L140Y201H17	Cap, Cer	430pF	+-10%	25WV	

Q804	L260D022H02	TR, 2SC1959(Y)	
Q301.302	L260D036H01	TR, 2SK363(GR)	
Q401.402,403,404,411,412,415,416,439,440	L260D058H01	TR, 2SC2240(GR)	
Q405,406,407,408,409,410,413,414,441,442	L260D057H01	TR, 2SA970(GR)	
Q417,418,423,424	L260D024H05	TR, 2SD669A(C)	
Q419,420	L260D060H01	TR, 2SC3423(Y)	
Q421,422	L260D059H01	TR, 2SA1360(Y)	
Q425,426,435,436	L260D021H05	TR, 2SB649A(C)	
Q429,430	L260D063H02	TR, 2SB817(E)	
Q431,432	L260D061H03	TR, 2SB826	
Q433,434	L260D063H03	TR, 2SD1062	
Q437,438	L260D025H05	TR, 2SD669A(C)	
Q501	L260S061H03	TR, 2SC1815(GR)	
D1,2	U264D006H11	DIODE IN60	
D3,4,5,7,8,21	U2640037H01	DIODE IN4148	
D6,801,802,803,804	U264S003H01	DIODE 10E1	
D805	L264C003H72	DIODE-ZEHER UZ-27B(M)	
D301,302,401,402,403,404,415,416,425,426	U264D037H01	DIODE IN4148	
D427,428,435,436			
D405,406	L264C003H53	DIODE-ZENER UZ-15BL	
D407,408,409,410	L264C003H16	DIODE-ZENER UZ-3.9B	
D411,412,413,414	L264C003H20	DIODE-ZENER UZ-4.7B	
D417,418,419,420	U264S010H01	DIODE ISS81	
D421,422,423,424	L264D022H01	DIODE GF830(8)	
D431,432,433,434	L264C003H36	DIODE-ZEHER UZ-8.2B(M)	
D501	U264S003H01	DIODE 10E1	
D502,503	L264C003H03	DIODE-ZMEER UZ-20B(M)	
BD501	L264D018H01	PBL403	
B0502,503,801	L264D017H01	PB153M	
LED1	L268Y027H01	LED, SE-94310	
LED2,4	L268Y025H01	LED, SE-7231	
LED3	L268Y024H01	LED, SE-6721	
LED5	L268Y026H01	LED, SE-9421D	
LED6-10	L268Y028H01	LED - DISPLAY	
IC1	L262C029H01	IC, LA1222	
IC2	L262C016H01	IC, LA1235	
IC3	L262C023H01	IC, TD6104P	
IC4	L262C019H01	IC, LB1450	
IC5	L262C017H01	IC, LA1240	
IC6	L262C018H01	IC, LA3390	
IC7	L262C022H01	IC, TC91378P	
IC9,10,11,12,301	L262C020H01	IC, NJM2043(D)	
IC501	U260S061H03	IC, 2SC1815(GR)	
IC801	L262C025H01	IC, NJM78M05	
IC802	L262C026H01	IC, NJM78M15	
IFT1	L364Y001H02	IFT-FM	
IFT2	L374Y002H01	IFT-AM	
IFT3	L374Y003H01	IFT-AM	
L1	L361Y024H01	COIL-FM ANT	
L3	L361Y022H01	COIL-AM OSC	
L401,402	L361Y023H01	COIL, SPRING	
LPF1,2	L351C003H01	FILTER LOW PASS	
LPF3	L351C046H01	FILTER	
CF1,2,3	L355Y002H01	FILTER, CERAMIC FM (10.7MC)	
CF4	L365Y001H01	FILTER, CERAMIC AM (SEZ450B)	
BK-1,2	L422Y001H14	BREAKER A-40	
CR1	L285Y001H01	CRYSTAL	
VC1,2,3	U202S002H04	VC-TRIM-30N750 GREEN	
VCP1	U254Y014H01	KV1235Z	
VCP2	U264C017H01	KV1226Z	

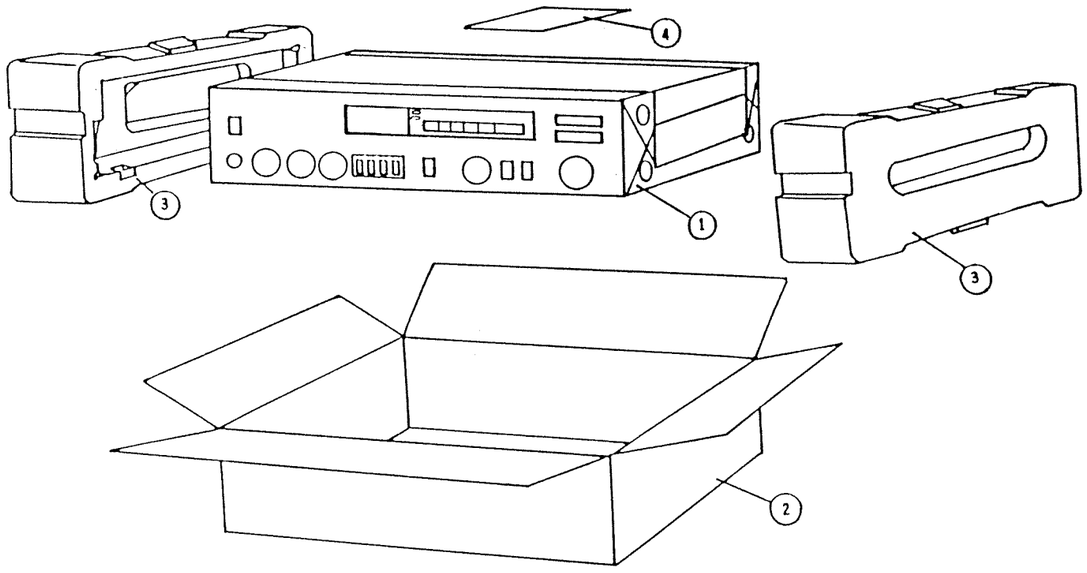
C41,95,96,307,308	L140Y203H27	Cap, Cer 47pF	+-5% 50WV
C49,50,77,322,323,520	L182Y322H63	Cap, EL 4.7uF	+75-10% 50V
C51	U182S022H57	Cap, EL 0.33uF	+75-10% 50WV
C52,85,86	L140Y201H13	Cap, Cer 0.01uF	+-10% 25WV
C57	U182S022H60	Cap, EL 1uF	+75-10% 50V
C60,213,214,311,312	L182Y322H38	Cap, EL 100uF	+50-10% 25V
C62	L180Y037H01	Cap, EL 4700uF	+50-10% 6.3V
C63,205,206	L140Y203H17	Cap, Cer 18pF	+-5% 50WV
C65,90,427,428	L172Y306H25	Cap, Poly 0.1uF	+-5% 50WV
C67,81	L140Y201H21	Cap, Cer 0.047uF	+-10% 25WV
C68	U182S022H49	Cap, EL 100uF	+50-10% 35V
C74	L182Y322H61	Cap, EL 2.2uF	+75-10% 50V
C78	U173S004H09	Cap, Styrol 1000pF	+-5% 50V
C79	U182S022H62	Cap, EL 3.3uF	+75-10% 50V
C80	U182S02H61	Cap, EL 2.2uF	+75-10% 50V
C82	U182S022H41	Cap, EL 470uF	+50-10% 25V
C83,84	U173S004H18	Cap, Styrol 1200pF	+-5% 50WV A1,A2,A,C3,C2
C83,84	L173D001H03	Cap, Styrol 800pF	+-5% 50WV B,C1,C,B1
C203,204	L182Y322H62	Cap, EL 3.3uF	+75-10% 50V
C207,208,409,410	L182Y322H13	Cap, EL 47uF	+50-10% 10V
C209,210	L172Y306H05	Cap, Poly 0.0022uF	+-5% 50WV
C211,212	L172Y306H12	Cap, Poly 0.0082uF	+-5% 50WV
C215,216,221,222	L172Y306H04	Cap, Poly 0.0018uF	+-5% 50WV
C217,218,411,412,413,414	L182Y322H23	Cap, EL 22uF	+50-10% 16V
C219,220	U172S002H15	Cap, Poly 0.22uF	+-5% 50WV
C223,445,446,447,448	L140Y201H25	Cap, Cer 0.1uF	+-20% 25WV
C601	U182S022H34	Cap, EL 10uF	+50-10% 25V
C805	U182S022H31	Cap, EL 2200uF	+50-10% 16V
C810	U182S022H50	Cap, EL 220uF	+50-10% 35V
C813	U182S022H53	Cap, EL 1000uF	+50-10% 35V
C814,822,519	L182Y322H67	Cap, EL 47uF	+50-10% 50V
C815,515,516,517,518,817	L182Y322H37	Cap, EL 47uF	+50-10% 25V
C821	U182S022H69	Cap, EL 220uF	+50-10% 50V
C826	U182S022H52	Cap, EL 470uF	+50-10% 35V
C301,302	U172S002H14	Cap, Poly 0.15uF	+-5% 50WV
C305,306,401,402,403,404	U182S333H40	Cap, EL 1uF	+75-10% 50V
C313,314	U182S333H38	Cap, EL 0.68uF	+75-10% 50V
C315,316	U172S002H13	Cap, Poly 0.1uF	+-5% 50WV
C319,320	L172Y306H26	Cap, Poly 0.12uF	+-5% 50WV
C321,322	L172Y306H16	Cap, Poly 0.018uF	+-5% 50WV
C405,406	L172Y306H02	Cap, Poly 0.0012uF	+-5% 50WV
C407,408	L140Y306H10	Cap, Cer 680pF	+-5% 50WV
C415,416	U182S022H15	Cap, EL 220uF	+50-10% 10V
C417,418,419	L140Y203H19	Cap, Cer 22pF	+-5% 50WV
C421,422	L182Y322H34	Cap, EL 10uF	+50-10% 50WV
C423,424,425,426	L140Y203H15	Cap, Cer 15pF	+-5% 50WV
C429,430,431,432	U182S022H88	Cap, EL 10uF	+50-10% 100V
C453,454,455,456	U140S021H71	Cap, Cer 0.1uF	+-5% 50WV
C505,506	U180S016H01	Cap, EL 6800uF	+50-10% 50V
C509,510	L180Y038H01	Cap, EL 6800uF	+50-10% 80V
C513,514	U182S022H51	Cap, EL 330uF	+50-10% 35V
C521	U140Y007H07	Cap, Cer 10uF	+50-10% 400V
Q1,3,10,11,12,13,15,16,17,18,19,601,803,805	U260S061H03	TR, 2SC1815(GR)	
Q2	L260D025H01	TR, 2SK192(Y)	
Q3,4,5,6	L260D026H03	TR, 2SC1815(GR)	
Q7	L250D025H01	TR, 2SK30ATM(Y)	
Q8	L250D025H03	TR, 2SC1815(GR)	
Q14	L260D032HQ2	TR, 2SK40(C)	
Q20,502,803	L250D020H03	TR, 2SA1015(GR)	
Q601	L260D019H02	TR, 2SA562(Y)	

VR1,3,401,402	L127Y003H07	VR, SEMI B10K	
VR2	L127Y003H12	VR, SEMI B50K	
VR4	L127Y001H01	VR, SEMI B1K	
VR5	L127Y003H13	VR, SEMI B100K	A1
VR5	L127Y003H13	VR, SEMI B100K	A2
VR5	L127Y003H13	VR, SEMI B100K	A
VR5	L127Y003H13	VR, SEMI B100K	B
VR5	L127Y003H07	VR, SEMI B10K	C1
VR5	L127Y003H13	VR, SEMI B100K	C
VR5	L127Y002H13	VR, SEMI B100K	B1
VR5	L127Y003H13	VR, SEMI B100K	C3
VR5	L127Y003H13	VR, SEMI B100K	C2
VR6	L127Y003H12	VR, SEMI B50K	
VR7	L127Y001H09	VR, SEMI B50K	
VR201	L121Y009H01	VR, VOLUME 20KB+50KMN	
VR301,302	L121Y010H01	VR-ROTARY 10KC*2	
VR403,404	L127Y003H02	VR, SEMI B1K	
SW2,5,7,8	L432Y031H01	SW-PUSH	
SW3	L430Y009H01	SW-SELECT (CD/PHONO/TUNER/VIDEO)	
SW4	L432Y056H01	SW-PUSH (TAPE MONITER)	
SW6	L432Y028H01	SW-PUSH (LOUDNESS)	
SW9	L432Y028H01	SW-PUSH (LOW LEVEL)	
SW14	L432Y055H01	SW-PUSH (AM/FM)	
SW15	L432Y030H01	SW-PUSH (SEARCH)	
SW401	L431Y014H01	SW-SLIDE	
SW402	L430Y010H01	SW-ROTARY	
SW-501	U432S066H01	SW-PUSH	
J201	L440Y005H01	JACK-RCA	
J202,203,204,205,206,207	L440Y006H01	JACK-RCA	
PT1-22	U685S223H01	PIN	
	U565D381H02	RADIATOR IC802 USED	
	L565D012H01	RADIATOR-L IC801 USED	
	U565D502H01	RADIATOR	
	L440Y007H01	ANT TERMINAL	
	L457D501H01	FUSE-HOLDER	
	L265Y001H06	PTC RED 185A	
	U838S101H01	BAND	
	L451Y017H02	JACK (HEAD PHONO)	
	L281Y006H01	ANTENNA-FM	
SW	L432Y035H01	POWER-SW	A1
	L432Y035H01	POWER-SW	A2
	L432Y035H01	POWER-SW	A
	L432Y034H01	POWER-SW	B
	L432Y034H01	POWER-SW	C1
	L432Y034H01	POWER-SW	C
	L432Y034H01	POWER-SW	B1
	L432Y034H01	POWER-SW	C3
	L432Y034H01	POWER-SW	C2
PT-1	L350Y083H01	TRANS-POWER	A1
	L350Y087H01	TRANS-POWER	A2
	L350Y084H01	TRANS-POWER	A
	L350Y086H01	TRANS-POWER	B
	L350Y085H01	TRANS-POWER	C1
	L350Y085H01	TRANS-POWER	C
	L350Y086H01	TRANS-POWER	B1
	L350Y088H01	TRANS-POWER	C3
	L350Y085H01	TRANS-POWER	C2
PT-2	L350Y028H01	TRANS-POWER	A1
	L350Y055H01	TRANS-POWER	A2
	L350Y035H01	TRANS-POWER	A
	L350Y030H01	TRANS-POWER	B
	L350Y029H01	TRANS-POWER	C1
	L350Y029H01	TRANS-POWER	C
	L350Y030H01	TRANS-POWER	B1
	L350Y036H01	TRANS-POWER	C3
	L350Y038H01	TRANS-POWER	C2
SW	L431Y013H01	SW-SLIDE	A1
	L431Y013H01	SW-SLIDE	A2
	L431Y016H01	SW-SLIDE	A
	L431Y013H01	SW-SLIDE	B
	L431Y013H01	SW-SLIDE	C1
	L431Y013H01	SW-SLIDE	C
	L431Y013H01	SW-SLIDE	B1
	L431Y013H01	SW-SLIDE	C3
	L431Y013H01	SW-SLIDE	C2
F501/F502	U283S017H16	FUSE 4A-UL	A1
	U283S017H16	FUSE 4A-UL	A2
	U283S017H16	FUSE 4A-UL	A
	U283S022H22	FUSE 4A-SEMKO	B
	U283S022H22	FUSE 4A-SEMKO	C1
	U283S022H22	FUSE 4A-SEMKO	C
	U283S022H22	FUSE 4A-SEMKO	B1
	U283S027H16	FUSE 4A-UL	C3
	U283S022H22	FUSE 4A-SEMKO	C2
F503/F504	U283S017H17	FUSE 5A-UL	A1
	U283S017H17	FUSE 5A-UL	A2
	U283S017H17	FUSE 5A-UL	B
	U283S022H28	FUSE 5A-SEMKO	C1
	U283S022H28	FUSE 5A-SEMKO	C
	U283S022H28	FUSE 5A-SEMKO	B1
	U2B3S017H17	FUSE 5A-UL	C3
	U283S022H28	FUSE 5A-SEMKO	C2
F505/F506	U283S017H10	FUSE 1A-UL	A1
	U283S017H10	FUSE 1A-UL	A2
	U283S017H10	FUSE 1A-UL	A
	U283S022H17	FUSE 1A-SEMKO	B
	U283S022H17	FUSE 1A-SEMKO	C1
	U283S022H17	FUSE 1A-SEMKO	C
	U283S022H17	FUSE 1A-SEMKO	B1
	U283S017H10	FUSE 1A-UL	C3
	U283S022H17	FUSE 1A-SEMKO	C2
FE1	L929Y001H01	FRONT END	A1
	L929Y001H01	FRONT END	A2
	L929Y001H01	FRONT END	A
	L929Y001H01	FRONT END	B
	L929Y502H01	FRONT-PACK	C1
	L929Y001H01	FRONT END	C
	L929Y001H01	FRONT END	B1
	L929Y001H01	FRONT END	C3
	L929Y001H01	FRONT END	C2
	L230Y003H01	CONNECTOR	A2
	L230Y003H01	CONNECTOR	B
	L230Y003H01	CONNECTOR	C1
	L230Y003H01	CONNECTOR	C
	L230Y003H01	CONNECTOR	B1

ITEM	PARTS NO.	NAME	Q'TY
01	L580A002H01	Cover Bott	1
02	L561A010H01	Cabinett	1
03	L582A001H01	Chassis, Front Sub	1
04	L702A012H01	Panel, Front	1
05	L582A002H09	Panel, Rear	A1
05	L582A002H09	Panel, Rear	A2
05	L582A002H09	Panel, Rear	A
05	L582A002H11	Panel, Rear	B
05	L582A002H10	Panel, Rear	C1
05	L582A002H10	Panel, Rear	C
05	L582A002H11	Panel, Rear	B1
05	L582A002H09	Panel, Rear	C3
05	L582A002H12	Panel, Bear	C2
06	L547B005H01	Frame (L)	1
07	L547B006H01	Frame (R)	1
08	L565B005H01	Hest Sink	1
09	L541C017H01	Bracker, PCB Support	1
10	L704D062H01	Knob Volume	1
11	L704D066H01	Knob Search	1
12	L704D060H01	Knob Tuning	1
13	L704D059H01	Knob AM/FM	1
14	L704D059H02	Knob Enter	1
15	L704D061H01	Knob Function Selector	7
16	L704D061H02	Knob Power	1
17	L704D063H01	Knob Preset Ass'y	1
18	L704D065H01	Knob Balance	1
19	L704D064H01	Knob Rotary	4
20	L550D037H01	Ring, Felt Toneacontroll	4
21	L550D037H02	Ring, Felt Volumecontroll	1
22	L703D022H01	Display Window	1
23	L541D083H01	Display Frame	1
24	L241B092640	PCB Ass'y Up/Down	1
25	L241C021601	PCB Ass'y Display	1
26	L550D036H01	Bearing, Shaft	1
27	L531D017H01	Shaft, Input Selector	1
28	L526D022H01	Sieeve, Input Selector Switch	1
29	L526C006H01	Arm, Switch/Knob Connector	2
30	L241B093G01	PCB Ass'y Tuner	1
31	L241B092C01	PCB Ass'y Amplifier	1
32	L241B092620	PCB Ass'y Antenna Terminals	1
33	L440Y007H01	Ant Terminal	1
34	L350Y029H01	Transformer, Tuner Power	1
35	L350Y033H01	Transformer, Main Power	1
36	L241B092650	PCB Ass'y Headphone	1
37	L241B092630	PCB Ass'y Binding Posts	1
38	L541B018H01	Binding Posts Loudspeaker	2
39	L704C013H01	Hand-Post (BLK)	A1 4
39	L704C013H01	Hand-Post (BLK)	A2 4
39	L704C013H01	Hand-Post (BLK)	A 4
39	L704C013H01	Hand-Post (BLK)	B 4
39	L704C013H01	Hand-Post (BLK)	C1 4
39	L704C013H03	Hand-Post (BLK)	C 4
39	L704C013H01	Hand-Post (BLK)	B1 4
39	L704C013H01	Hand-Post (BLK)	C3 4
39	L704C013H01	Hand-Post (BLK)	C2 4
40	L704C013H02	Hand-Post (RED)	A1 4
40	L704C013H02	Hand-Post (RED)	A2 4
40	L704C013H02	Hand-Post (RED)	A 4
40	L704C013H02	Hand-Post (RED)	B 4
40	L704C013H04	Hand-Post (RED)	C 4
40	L704C013H02	Hand-Post (RED)	B1 4
40	L704C013H02	Hand-Post (RED)	C3 4
40	L704C013H02	Hand-Post (RED)	C2 4
41	L370Y023H01	AM ANT Bar	1
42	L531D018H01	Binding Post Ground	1
43	L452D001H01	CONNECTOR	A1 1
43	L452D001H01	CONNECTOR	A2 1
43	L452D001H01	CONNECTOR	A 1
43	L452D003H01	CONNECTOR	B 1
43	L452D003H01	CONNECTOR	C1 1
43	L452D003H01	CONNECTOR	C 1
43	L452D003H01	CONNECTOR	B1 1
43	L452D003H01	CONNECTOR	C3 1
43	L452D003H01	CONNECTOR	C2 1
44	L703D027H01	Plate Switch Lock	1
45	L449Y002H02	AC SOCKET	A1 2
45	L449Y002H02	AC SOCKET	A2 2
45	L449Y002H	AC SOCKET	A 2
45	L449Y002H02	AC SOCKET	C3 2
45	L449Y002H02	AC SOCKET	C2 2
46	L242Y501H01	AC-CORD	A1 1
46	L242Y501H01	AC-CORD	A2 1
46	L242Y501H01	AC-CORD	A 1
46	L242C872H06	AC-CORD	B 1
46	U242C809H19	AC-CORD	C1 1
46	U242C809H19	AC-CORD	C 1
46	L242C013H01	AC-CORD	B1 1
46	L242C013H01	AC-CORD	C3 1
46	U242C809H19	AC-CORD	C2 1
47	L540D501H01	Clamper	1
48	L291D006H01	Bar Link	1
49	L552D013H01	Cushion Sponge	1
50	L771D006H01	Foot Rubber	1
51	U650S065H19	Screw-B M3X6	1
52	U650S063H19	Screw-B m3x6	1
53	U656S165H22	Screw-Tap 1-3x6	1
54	U651S065H30	Screw-B M4x8	1
55	U650S063H95	Screw-B M4x5	1
56	U650S063H31	Screw-B M4x10	1
57	U656S164H25	Screw-Tap 1-3x10	1
58	U656S223H20	Screw-Tap 2-3x6	1
59	U656S263H23	Screw-Tap 2-3x6	1
60	U656S164H23	Screw-Tap 1-3x6	1
61	U656S263H23	Screw-Tap 2-3x6	2
62	U656S164H23	Screw-Tap 1-3x6	4
63	U656S164H24	Screw-Tap 1-3x8	4
64	U656S263H23	Screw-Tap 2-3x6	4
65	U656S263H23	Screw-Tap 2-3x6	4
66	U680S322H03	Washer Toothed 3	4
67	U670S003H02	Nut M3	4
68	L840D009H01	COVER-AC SOCKET	A1 4
68	L840D009H01	COVER-AC SOCKET	A2 4
68	L840D009H01	COVER-AC SOCKET	A 4
68	L840D009H01	COVER-AC SOCKET	C3 4
68	L840D009H01	COVER-AC SOCKET	C2 4
68	L541D106H01	HOLDER-L	4
70	L09OD003H01	SHEET-ISOLATING	1

EXPLODED VIEW

PACKING DIAGRAM



ITEM	NUMBER	NAME	Q'TY
1	L831D002H01	Bag-POly	1
2	L800D003H04	Carton Individual	1
3	L813A006H01	Styro Packing	2
4	L871B502H85	Instruction	1