

SERVICE MANUAL

NAD

**701
AM/FM STEREO
RECEIVER**

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AM/FM STEREO
RECEIVER**

TABLE OF CONTENTS

SPECIFICATIONS	1
REAR PANEL	4
FRONT PANEL	4
ALIGNMENT PROCEDURES	
Main Amplifier	5
FM Tuner	6
AM Tuner	7
Instrument Set-up	8
IC BLOCK DIAGRAMS	9
PCB LAYOUTS	10
WIRING DIAGRAM	13
SCHEMATIC DIAGRAMS	
Main Amplifier	14
Tuner	15
Display/NAD Link	16
ELECTRICAL PARTS LIST	17
EXPLODED VIEW	26
EXPLODED VIEW PARTS LIST	27
PACKING DIAGRAM	29

SERVICE SAFETY PRECAUTIONS

1. Use exact replacement parts for critical locations, marked "⚠" on parts list.
2. Return lead dress to original position, and re-install protective covers.
3. Before returning to customer, test for shock hazard; use either method A or B:
 - A. Leakage test, "cold":**
 1. Unplug AC cord.
 2. Connect one lead of High Voltage Insulation Tester to both prongs of AC plug.
 3. Touch other lead to all exposed metal parts.
 4. Impedance measurement must be 0.3 - 5.0 Megohms.
 - B. Leakage test, "live":**
 1. Plug unit directly into AC outlet; do not use isolation transformer.
 2. Connect one lead of Leakage Current Tester to earth ground.
 3. Touch other lead to all exposed metal parts.
 4. Leakage measurement must be less than 0.5 milliamps.

SPECIFICATIONS

Specifications are measured in accordance with EIA Standard RS-490 (IHF T-202) for amplifiers and ANSI-IEEE Standard 185 (1975), i.e. IHF T-200 for tuners. Amplifier measurements referred to 8 ohms are taken with the Speaker Impedance selector set to 8 ohms (High). Measurements for 4 and 2 ohms are taken with Impedance selector at 4 ohms (Normal).

POWER AMPLIFIER SECTION

CONTINUOUS AVERAGE POWER OUTPUT (Min. power per channel, 20Hz-20kHz, both channels driven with no more than rated distortion).....		8 ohms=25W(14dBW) 4 ohms=25W(14dBW)
Rated distortion (THD, 20Hz-20kHz)	0.04%	
Clipping power at 8 ohms, 1kHz (maximum continuous power per channel).....	30W	
IHF dynamic headroom at 8 ohms	+4.4dB	
IHF dynamic power (maximum short-term power per channel)	8 ohms=57W 4 ohms=80W 2 ohms=85W	
Damping factor (ref. 8 ohms, 50Hz).....	>50	
Signal/Noise ratio (A-weighted, 220 ohms).....	(Ref. 1W), 80dB (Ref. 25W), 100dB	
Frequency response (20Hz-20kHz)	±0.5dB	
Input sensitivity (25W, 8 ohms).....	1V, ±0.05V	

PREAMPLIFIER SECTION

PHONO INPUT

Input impedance	R=47k ohms, C=100pF
Input sensitivity, 1kHz	2.7 V, ±0.3mV
Maximum input level	20Hz, >20mV 1kHz, >200mV 20kHz, >1.7V
Signal/Noise ratio (A-wtd, IHF cartridge source, 5mV in).....	72dB
THD (20Hz-20kHz).....	0.04%
RIAA response accuracy	+0.5, -0.8dB

LINE LEVEL INPUTS (CD, Aux, Video, Tape)

Input impedance R=25k ohms, C=100pF
Input sensitivity 180mV, ± 20 mV
Maximum input level >10V
Signal/Noise ratio (A-wtd., 1k ohm, 500mV in) AH=77dB
C=80dB
THD (20Hz-20kHz) 0.03%
Frequency response (20Hz-20kHz) +0.8,-1.0dB

LINE LEVEL OUTPUT

Output impedance 600 ohms
Maximum output level >12V

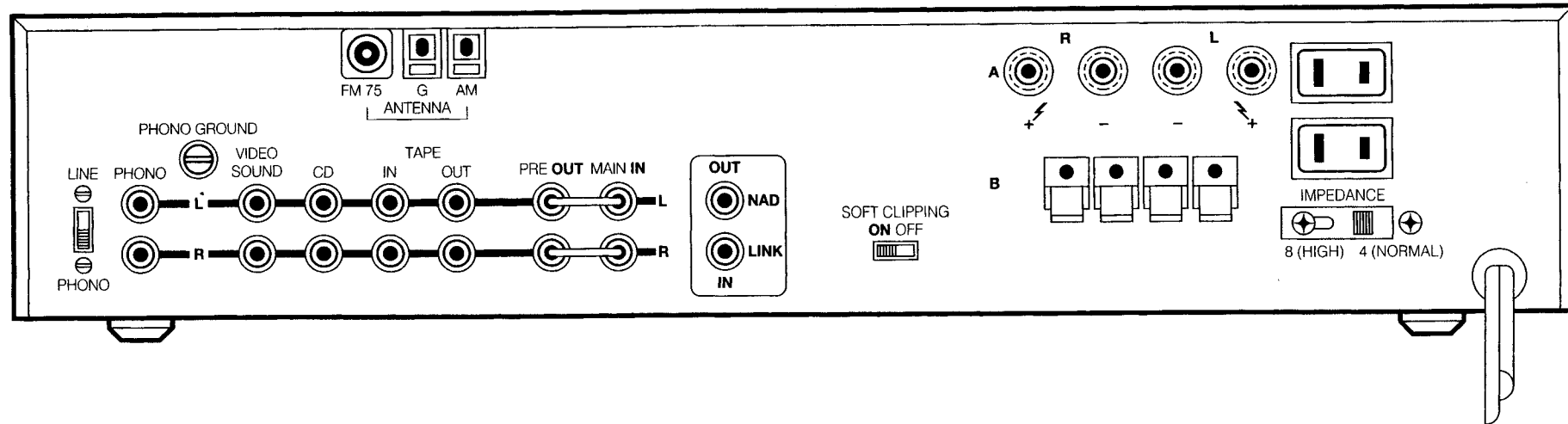
CONTROLS

Treble (10kHz) ± 7 dB
Bass (50Hz) ± 10 dB
Loudness 100Hz=+7.5dB
10kHz=+2.5dB
Infrasonic filter -3dB at 10Hz, fixed

FM TUNER SECTION

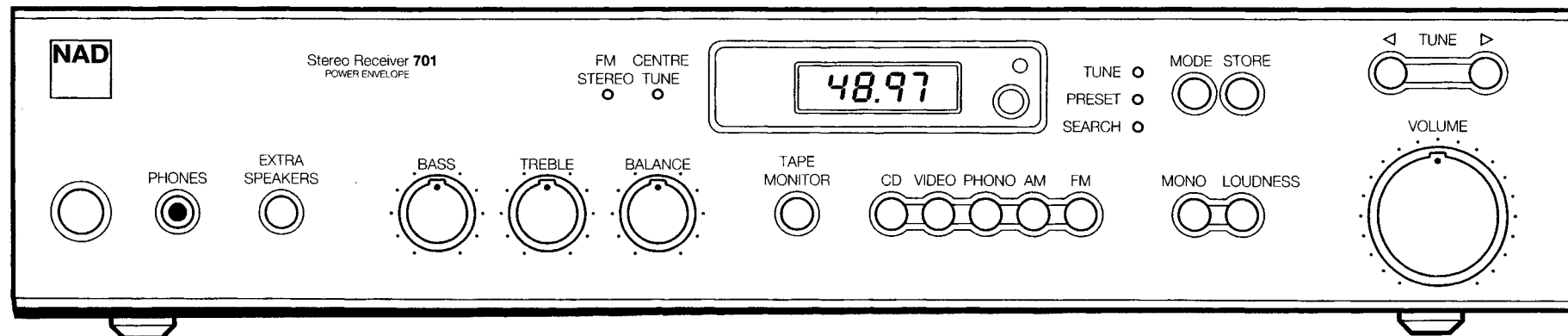
Usable sensitivity 2.0uV
50dB quieting Mono=2.5uV
Stereo=30uV
60dB quieting Mono=9uV
Stereo=150uV
Capture ratio (45dBf) 2.5dB
IF rejection 7.5dB
Image rejection 6.5dB
AM suppression 5.5dB
Selectivity, alternate channel 4.5dB

REAR PANEL



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FRONT PANEL



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ALIGNMENT PROCEDURES

MAIN AMPLIFIER

IMPORTANT NOTES:

- 1). Before adjusting, remove input signal and load, and set Speaker impedance switch to 8 ohms (reset to 4 ohms when finished).
- 2). These adjustments are always necessary after repair of main amplifier.
- 3). After repair, it is recommended to use a current limiter (30-70W lightbulb) in the mains line, for initial turn-on.

A. CENTER VOLTAGE ADJUSTMENT

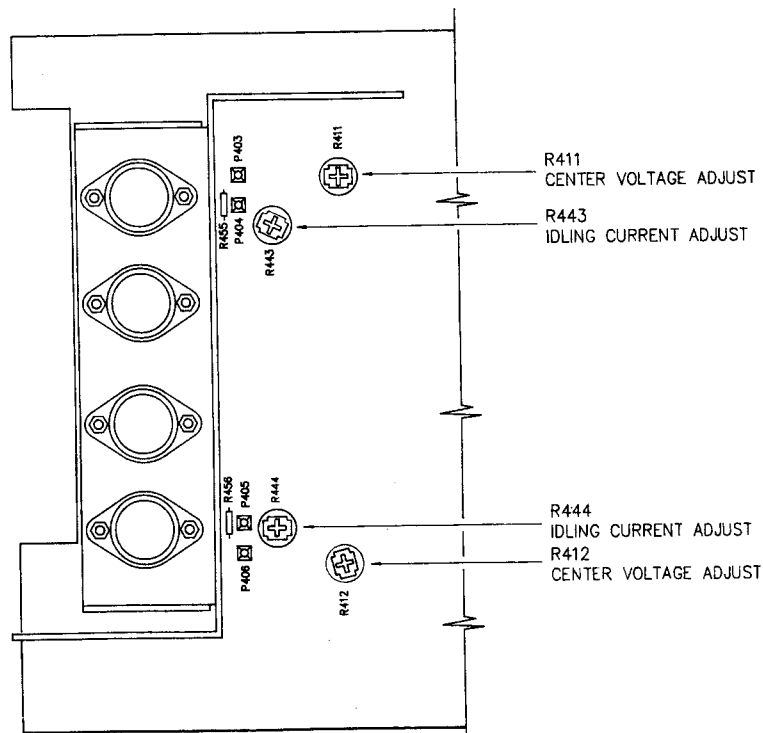
1. Connect DMM across L channel (R channel) output terminals.
2. Turn on, and adjust R411 (R412) for a reading of $0V \pm 30mVDC$.

B. IDLE CURRENT ADJUSTMENT

1. Remove solder short across R455 and R456.
2. Connect DMM across P403(-) and P404(+).
3. Turn on and adjust R443 for a reading of $28mV, \pm 2mVDC$.
4. Repeat, using P405(+) and P406(-), adjust R444.

C. FINAL ADJUSTMENT

1. Leave power on for a minimum of 5 minutes with no signal connected.
2. Repeat center voltage and idle current adjustments.
3. WHEN FINISHED, REPLACE SOLDER SHORT ACROSS R455 AND R456.



AMPLIFIER ADJUSTMENT POINTS

FM SECTION

A. PREPARATION

1. Set stereo modulator to mono mode with 1kHz modulating signal unless otherwise stated.
2. Set signal generator to FM mode with 75kHz deviation.
3. Store the following frequencies: 98MHz, 87.5MHz, 108MHz, 90MHz, and 106MHz.
4. Note: RF levels are open circuit voltages of signal generator with 75 ohms output impedance.

B. OSCILLATOR TUNING VOLTAGE

1. Connect DVM between TP1 and ground.
2. Tune to 87.5MHz and check DVM for a reading of 3.0VDC $\pm 0.5V$.
3. Tune to 108MHz and check DVM for a reading of 20.5VDC $\pm 0.5V$.

If either of the above is out of tolerance, adjust L8 (oscillator coil) until both readings are within tolerance.

C. I.F.

1. Connect DVM between TP113 (VA) and TP112 (VB).
2. Apply 10.7MHz (90dBu) via 1Kohm resistor to TP2.
3. Adjust I101 for 0VDC $\pm 50mV$ reading on DVM.
4. Adjust I102 until minimum THD is achieved at audio output.
5. Repeat (3) and (4) until no further improvement can be made.

When adjusting I102, two nulls can be found. With the core on top, adjust until the second one is found as this has lower THD. Correct position of the core is normally just above the metal casing.

D. SYNTHESIZER I.F. TRACKING

1. Maintain connection of DVM but disconnect 10.7MHz tap at TP2.
2. Apply 98MHz (60dBu) to FM antenna input and tune to 98MHz.
3. Adjust C917 for 0VDC $\pm 20mV$ reading on DVM.
4. Fine adjust I102 for minimum THD.
5. Repeat (3) and (4) until no further improvement can be made.

E. FRONT-END I.F.

1. Connect DVM between TP117 (level) and ground.
2. Turn R117 fully clockwise and R116 fully counterclockwise.
3. Apply 98MHz (12dBu) to antenna input.
4. Carefully adjust I1 to obtain minimum reading on DVM. There should only be one minimum.

F. R.F.

1. Apply 98MHz (6dBu) to antenna input.
2. Check if THD is better than 3%. If not, proceed to (3).
3. Adjust L2, L4, and L5 by squeezing or stretching using a non-metallic tool until THD is better than 3%.
4. Check THD at 90MHz and 106MHz with 7dBu input. If THD is more than 3% for both frequencies, re-adjust until required THD is met.

G. AUTOSEARCH LEVEL

1. Turn R116 fully clockwise and R117 fully counterclockwise.
2. Set stereo modulator to L=R mode and apply 98MHz (18dBu) to antenna input.
3. Adjust R116 counterclockwise until center tune LED lights up.
4. Increase antenna input signal to 22dBu and adjust R117 clockwise until FM stereo LED lights up.
5. Check if autosearch operation is working properly at antenna input level of 28dBu.

Center tune LED should be at least 2dBu higher than FM stereo LED.

H. STEREO SEPARATION AND PILOT SUPPRESSION

1. Modulate L-only at 98MHz (60dBu) and adjust R127 for minimum output on right channel.
2. Modulate R-only and adjust R127 for minimum output on left channel.
3. Repeat (1) and (2) until readings are the same and within specification.
4. Turn off modulating signal but leave pilot tone.
5. Adjust Z105 and Z106 for minimum output on left and right channels, respectively.

AM SECTION

A. PREPARATION

1. Set signal generator to AM mode with 1kHz at 30% modulation.
2. Connect 22pF ceramic capacitor between signal generator and AM antenna input terminal. Capacitor should be as close as possible to antenna input terminal.
3. Store the following frequencies: 603/600kHz, 999/1000kHz, and 1404/1400kHz.

B. OSCILLATOR TUNING VOLTAGE

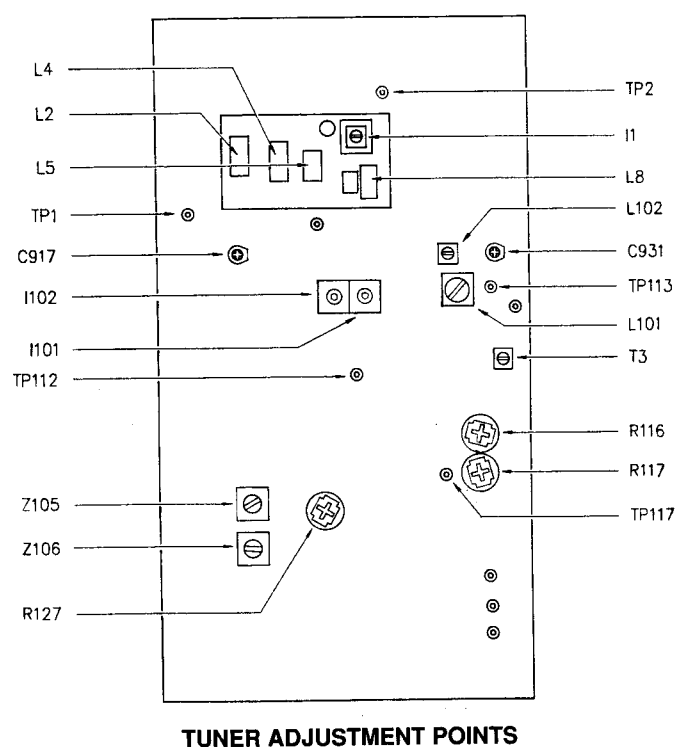
1. Connect DVM between TP1 and ground.
2. Tune to 603/600kHz and adjust L102 for 1.75VDC $\pm$ 50mV reading on DVM.

C. I.F.

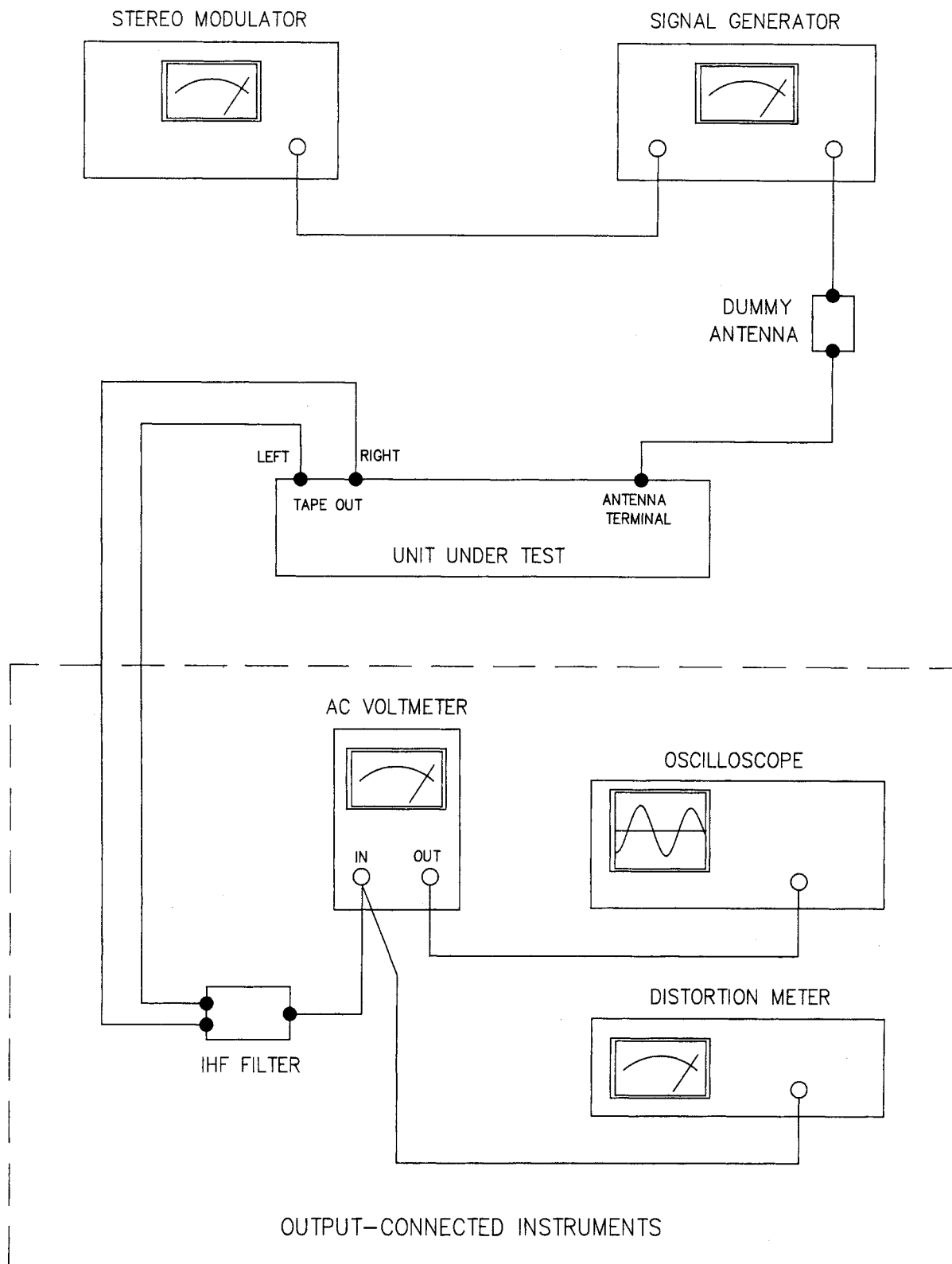
1. Apply 999/1000kHz (45dBu) to antenna input.
2. Tune to 999/1000kHz and adjust T3 for maximum reading on audio output.

D. R.F.

1. Apply 603/600kHz (45dBu) to antenna input.
2. Tune to 603/600kHz and adjust L101 for maximum reading on audio output.
3. Apply 1404/1400kHz (45dBu) to antenna input.
4. Tune to 1404/1400kHz adjust C931 for maximum reading on audio output.
5. Repeat (1) to (4) until no further improvement can be made.

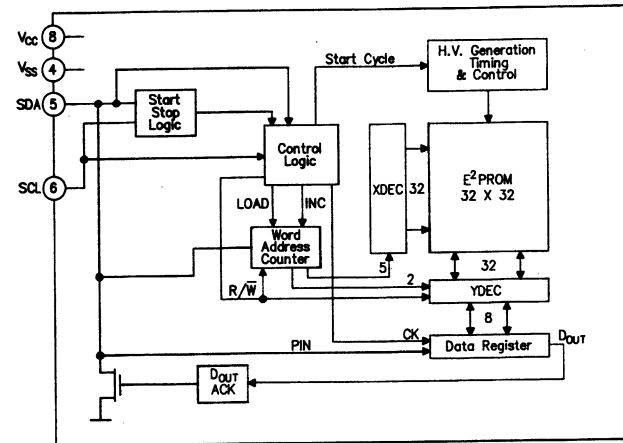


INSTRUMENT SET-UP

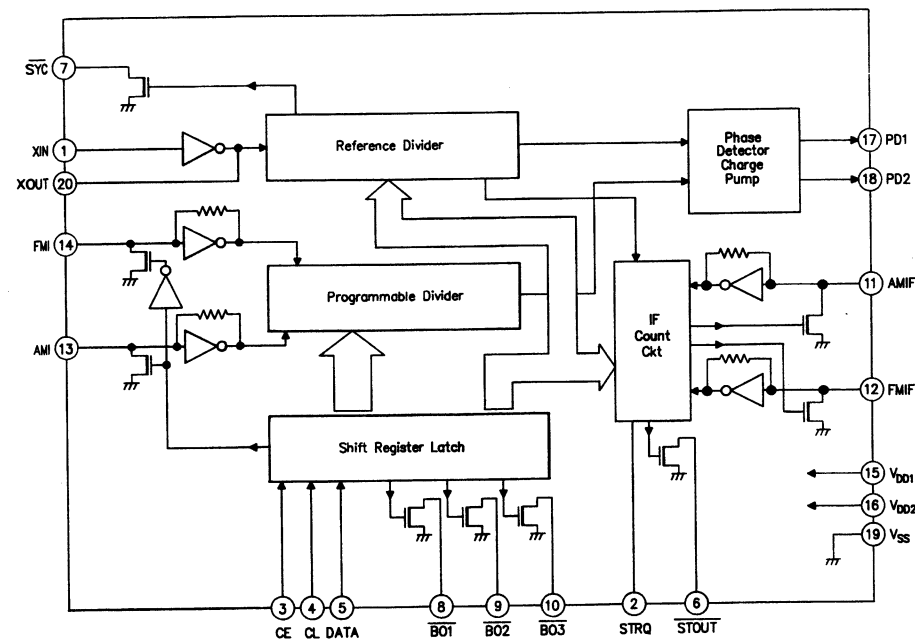


IC BLOCK DIAGRAMS

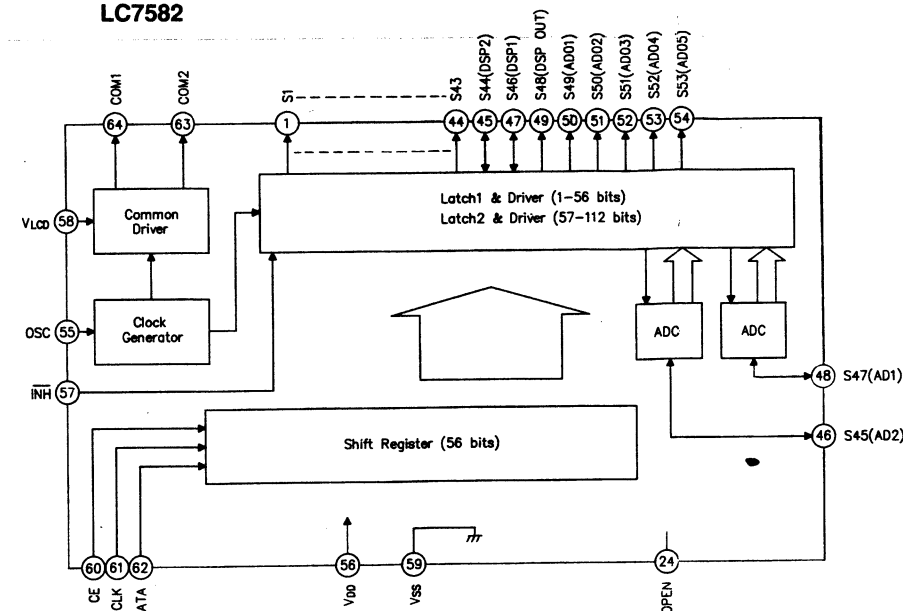
X24C01



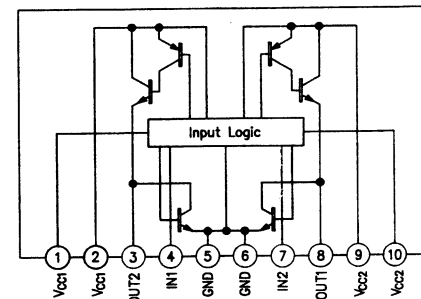
LM7000



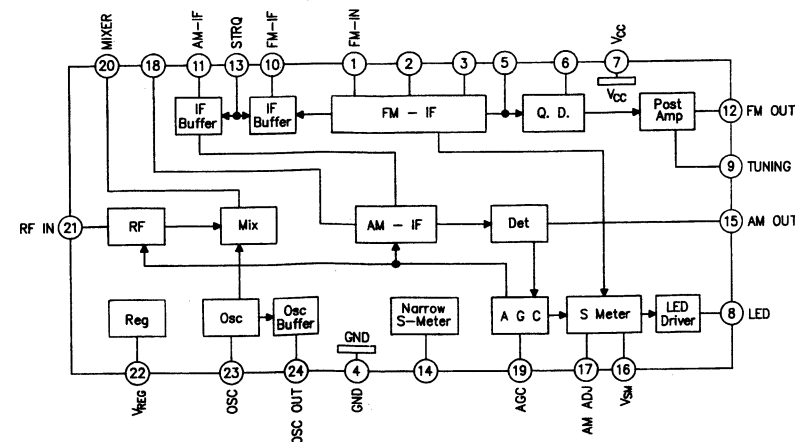
LC7582



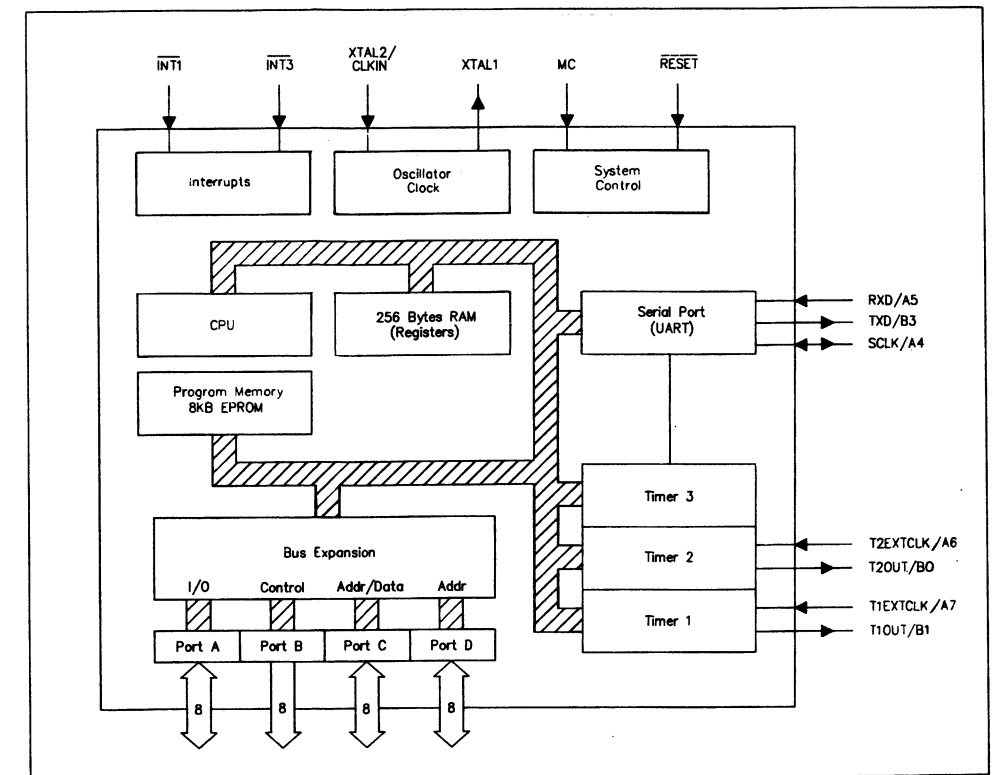
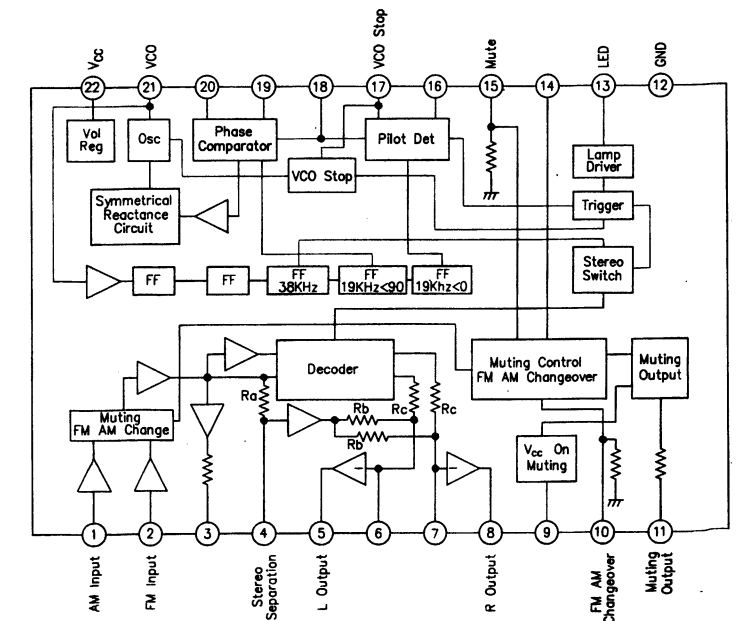
LB1642



LA1266

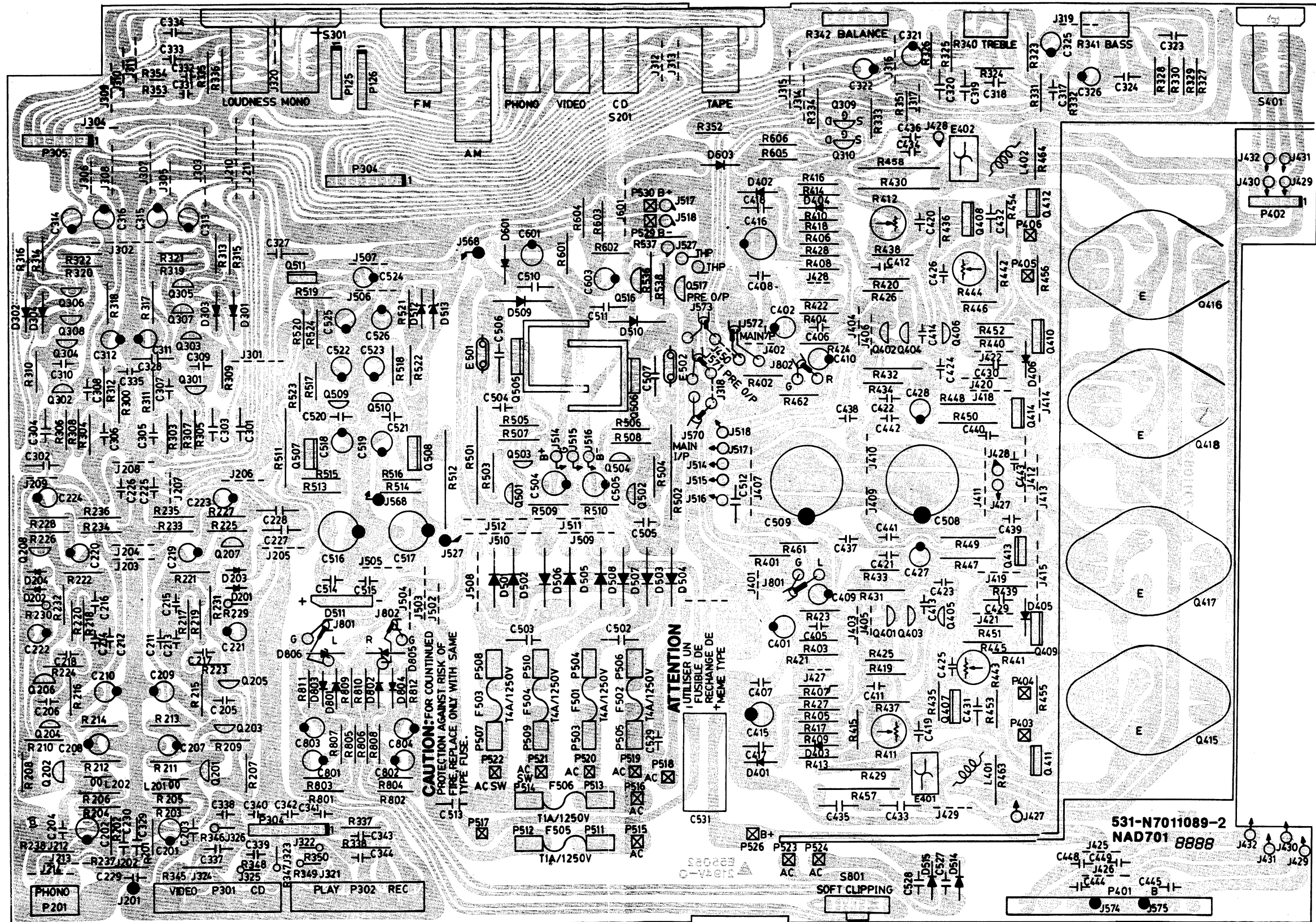


TMS70CX0

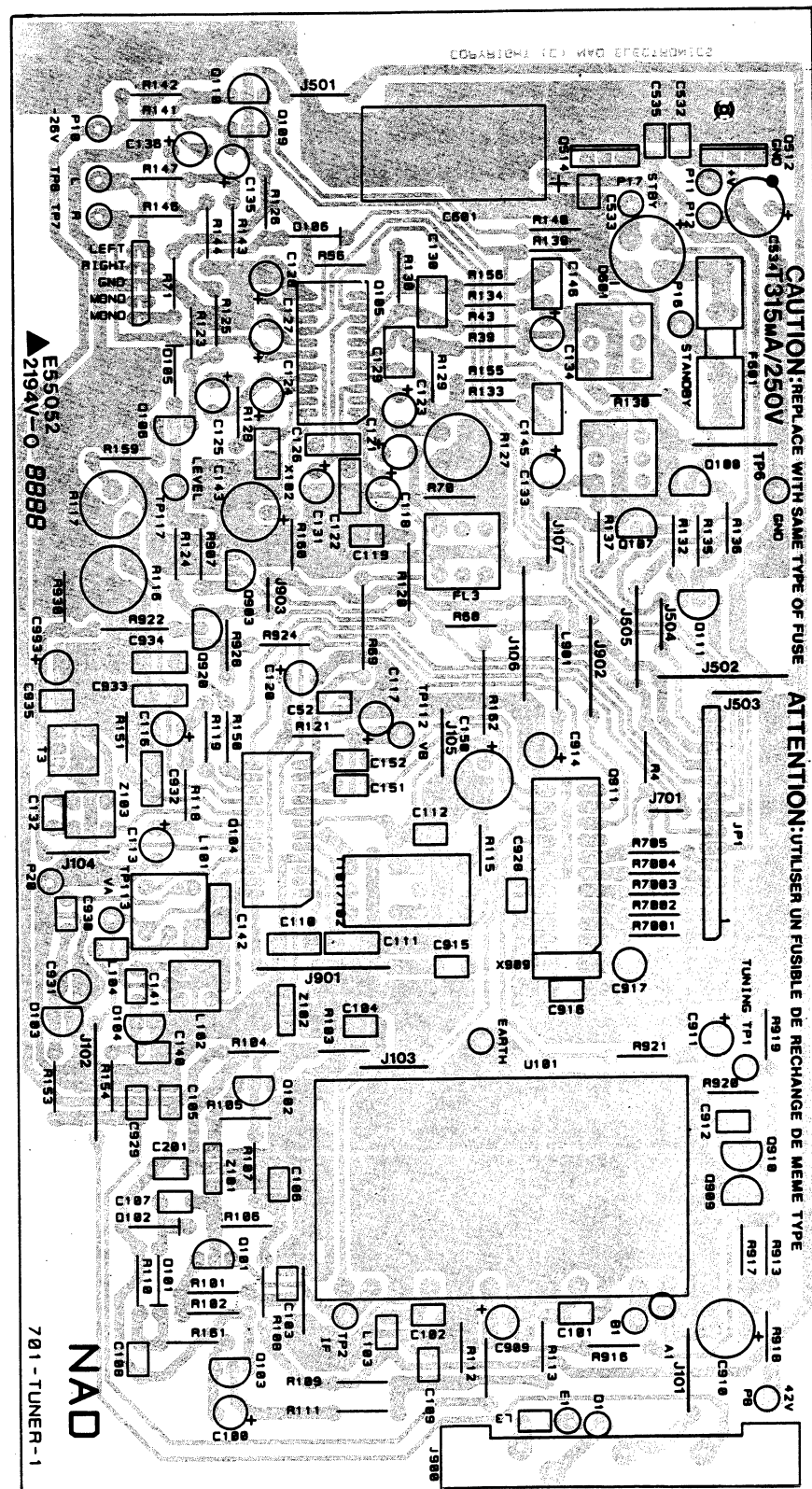
**LA3401**

PCB LAYOUTS

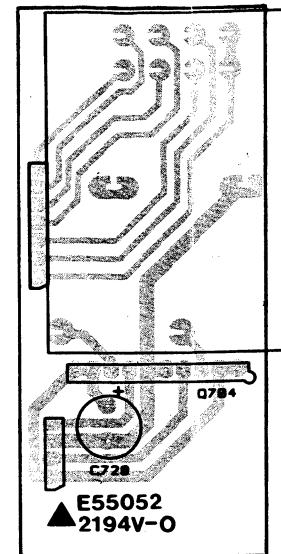
MAIN AMP PCB



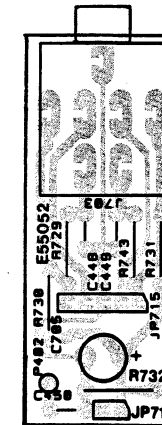
TUNER PCB



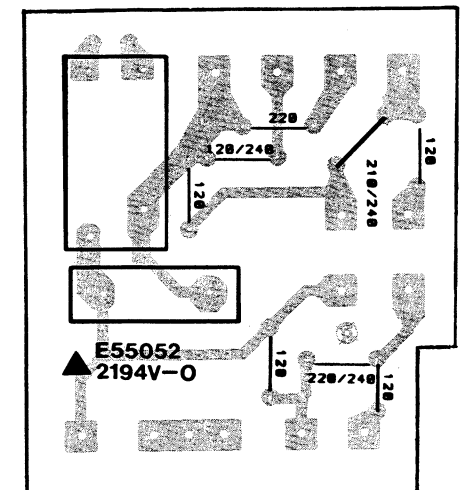
VOLUME CONTROL PCB



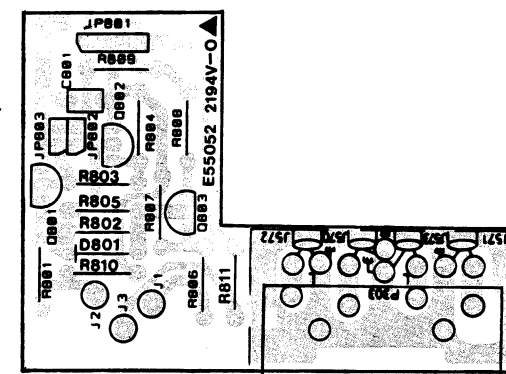
HEADPHONE PCB



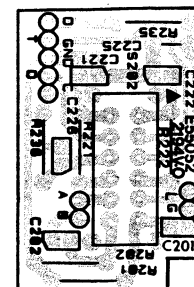
RELAY PCB



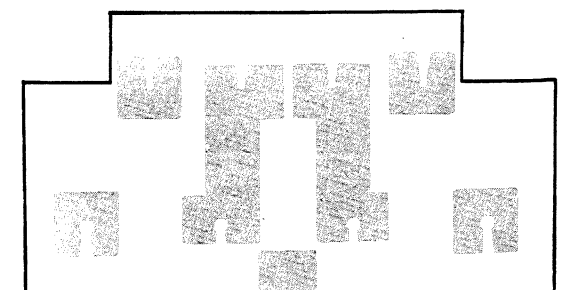
NAD LINK PCB



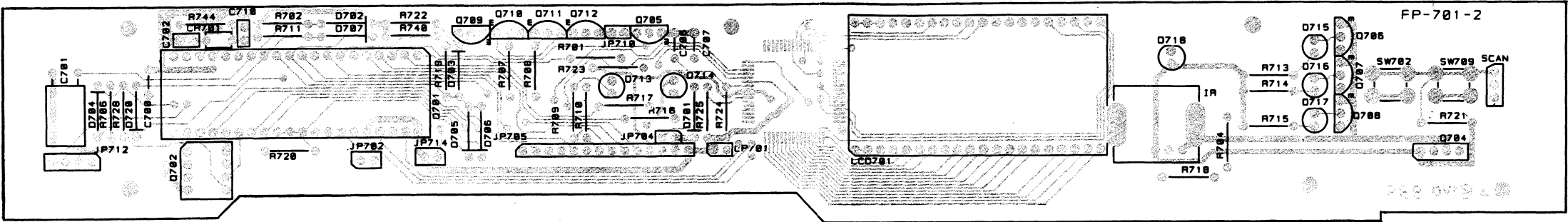
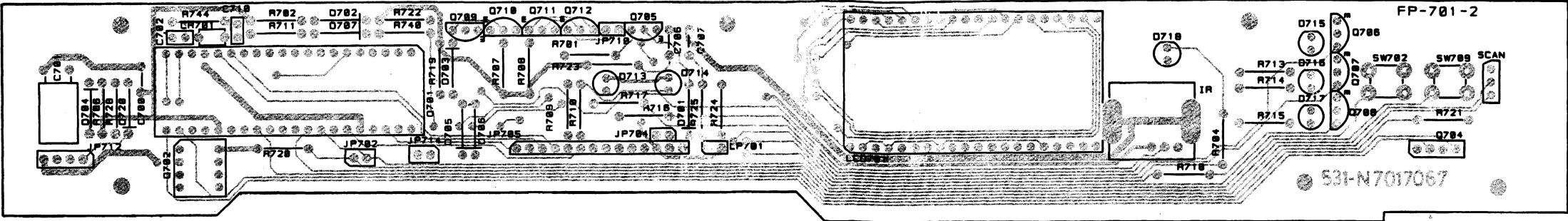
PHONO/LINE SWITCH PCB



SPEAKER PCB



DISPLAY PCB



TUNE PCB



LAMP PCB



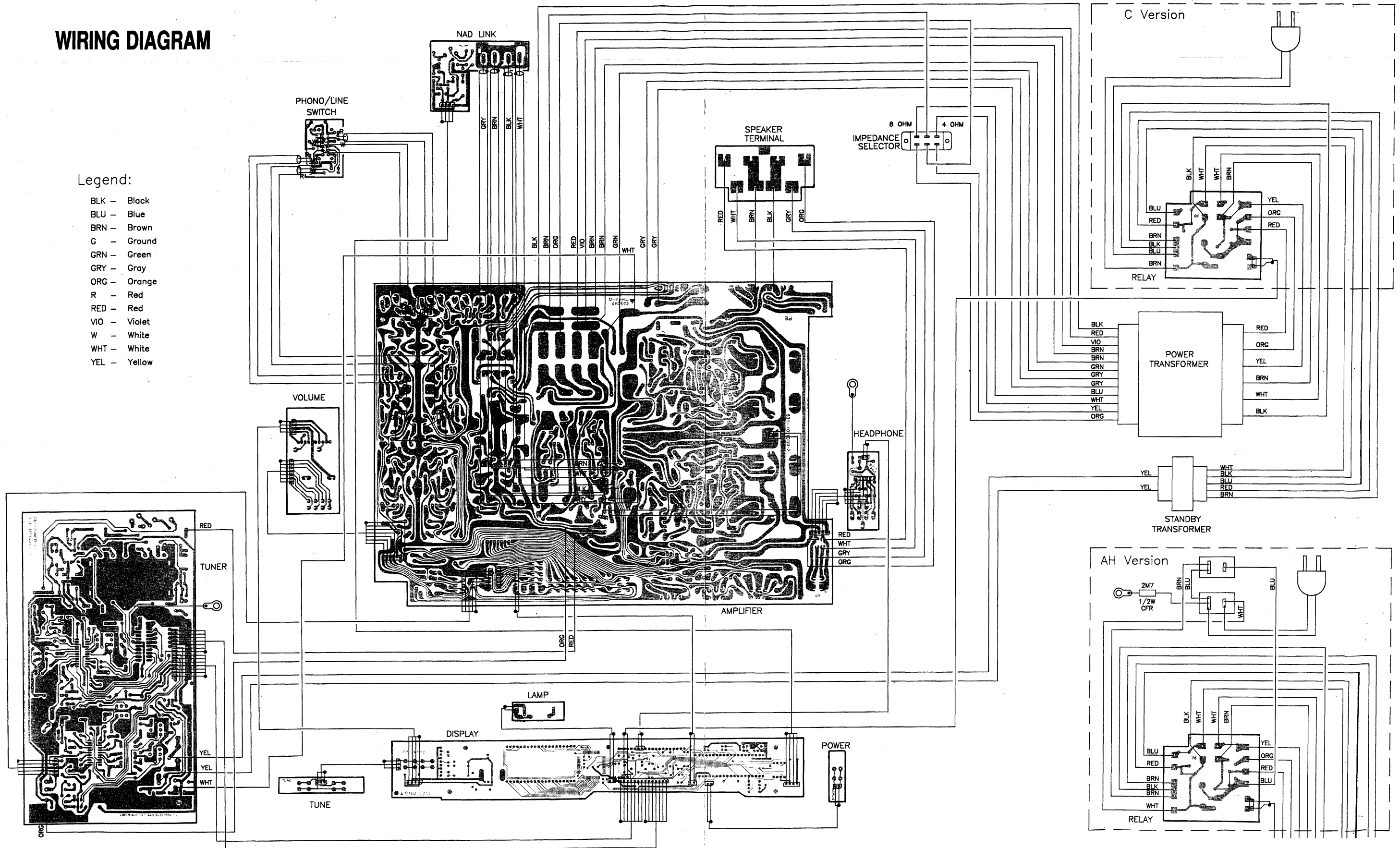
POWER PCB



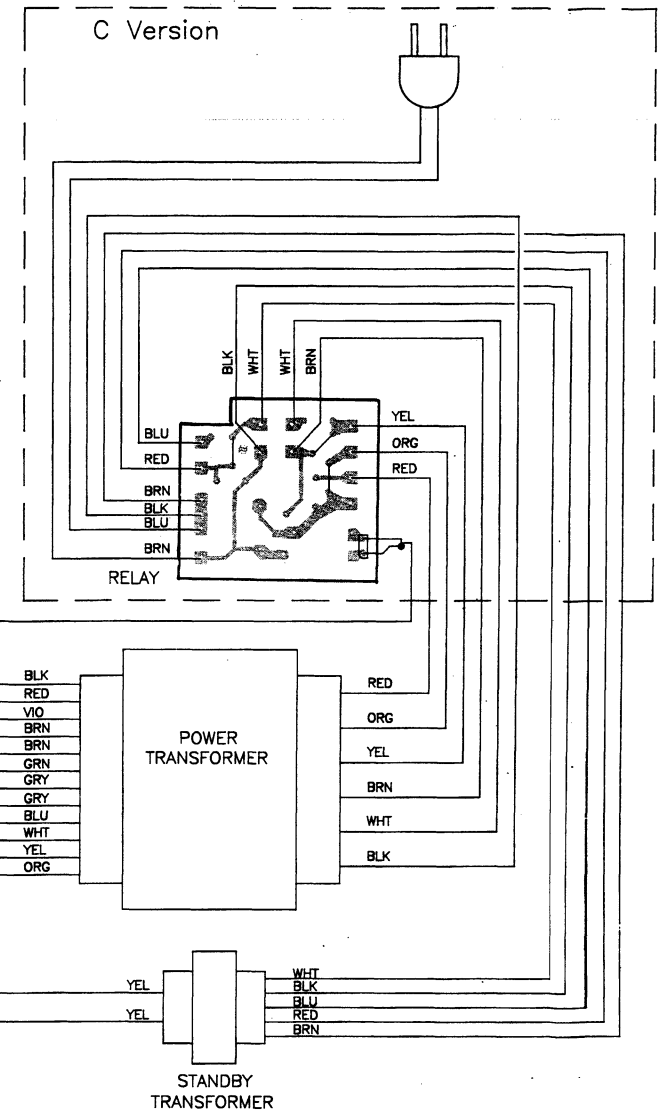
WIRING DIAGRAM

Legend:

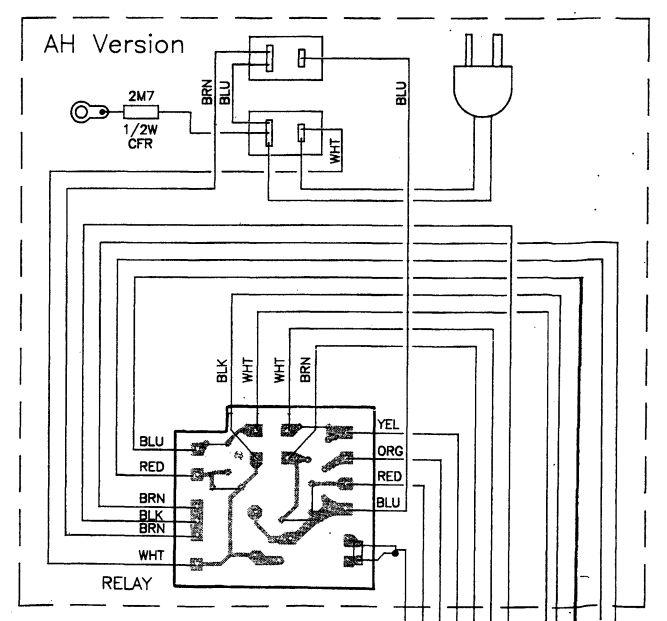
BLK - Black
 BLU - Blue
 BRN - Brown
 G - Ground
 GRN - Green
 GRY - Gray
 ORG - Orange
 R - Red
 RED - Red
 VIO - Violet
 W - White
 WHT - White
 YEL - Yellow



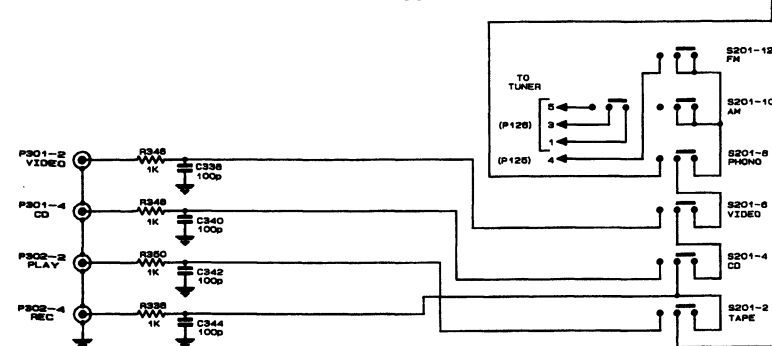
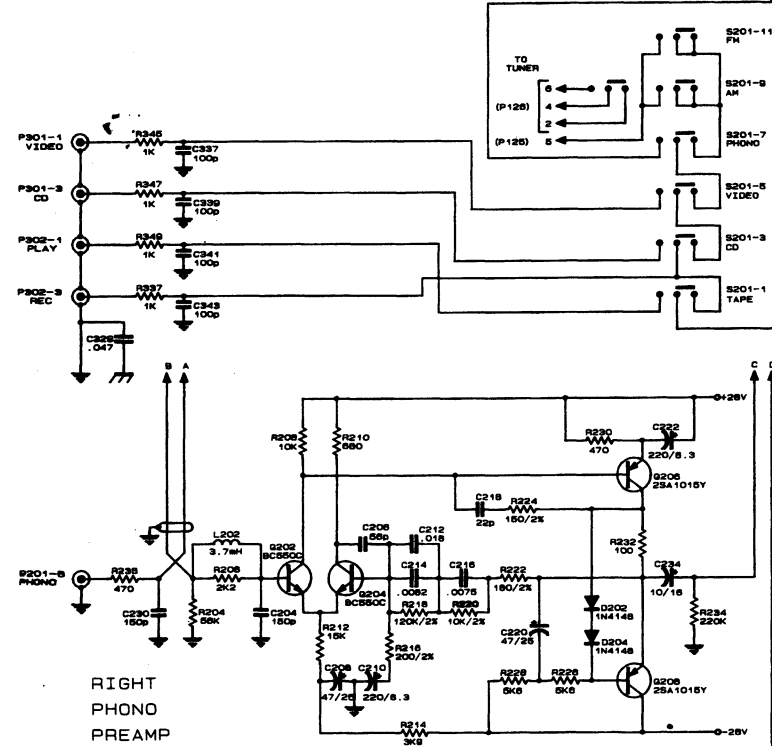
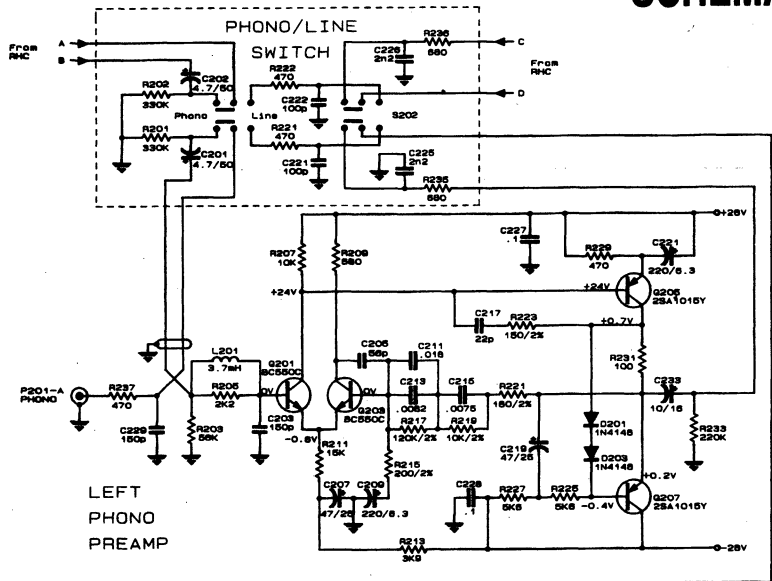
C Version



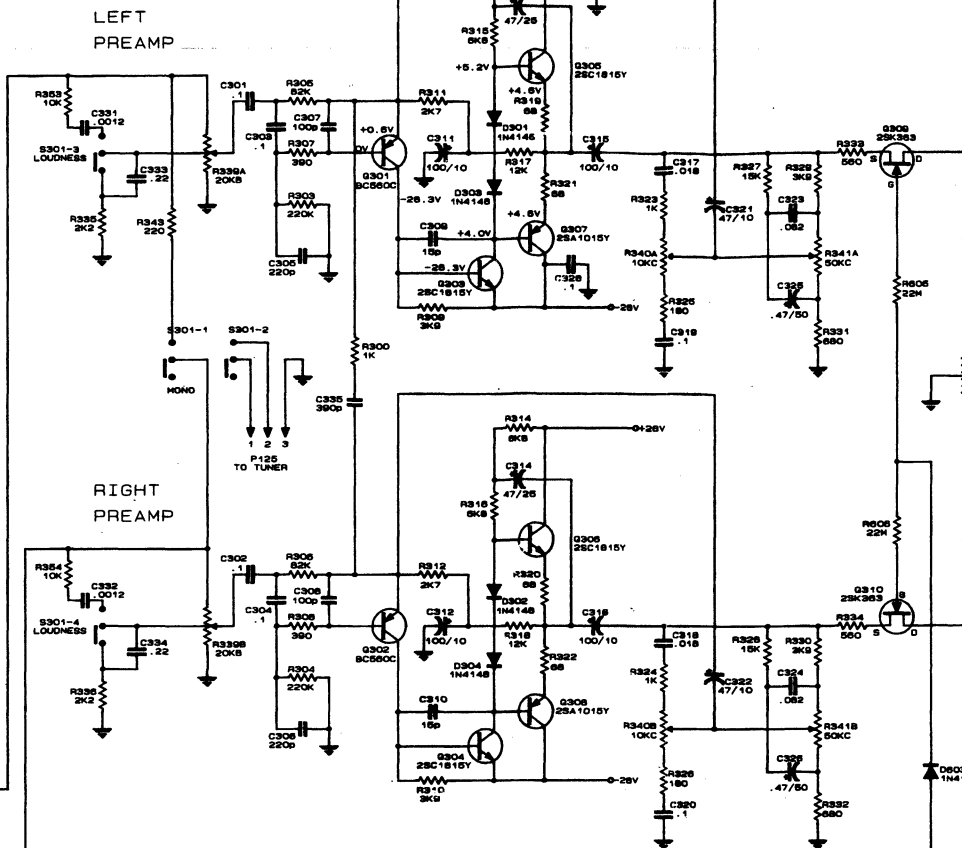
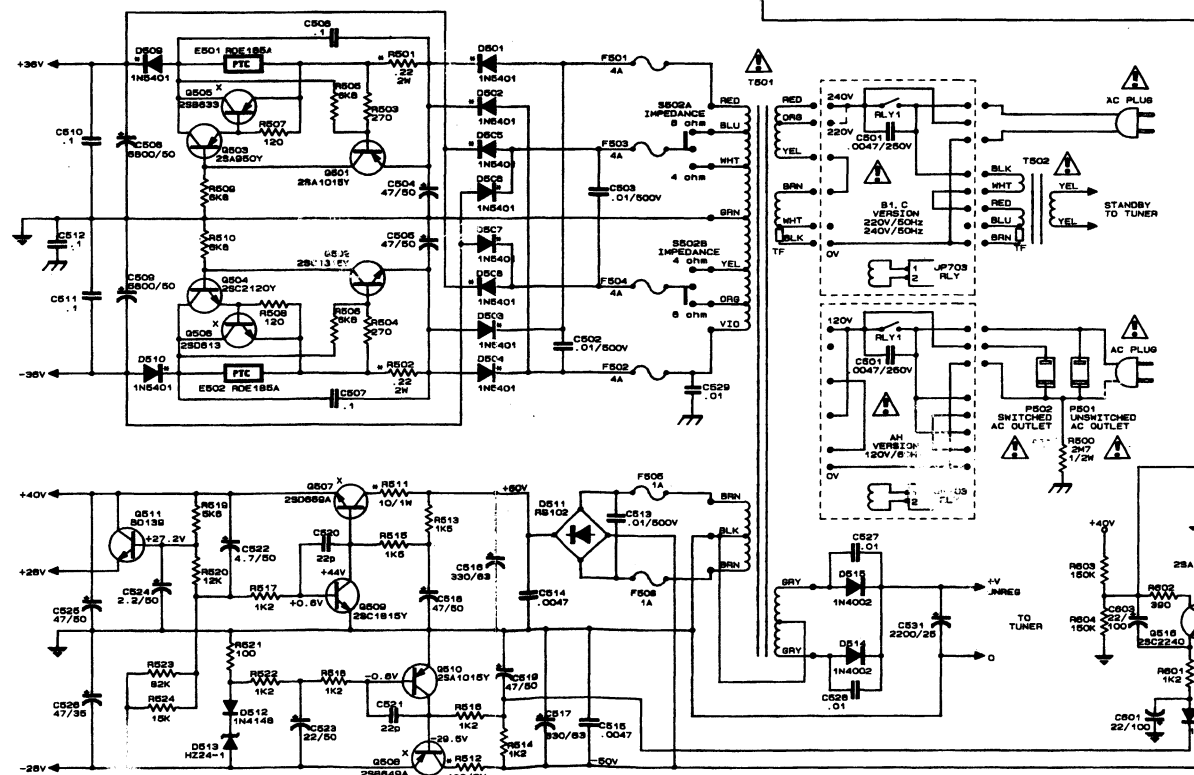
AH Version



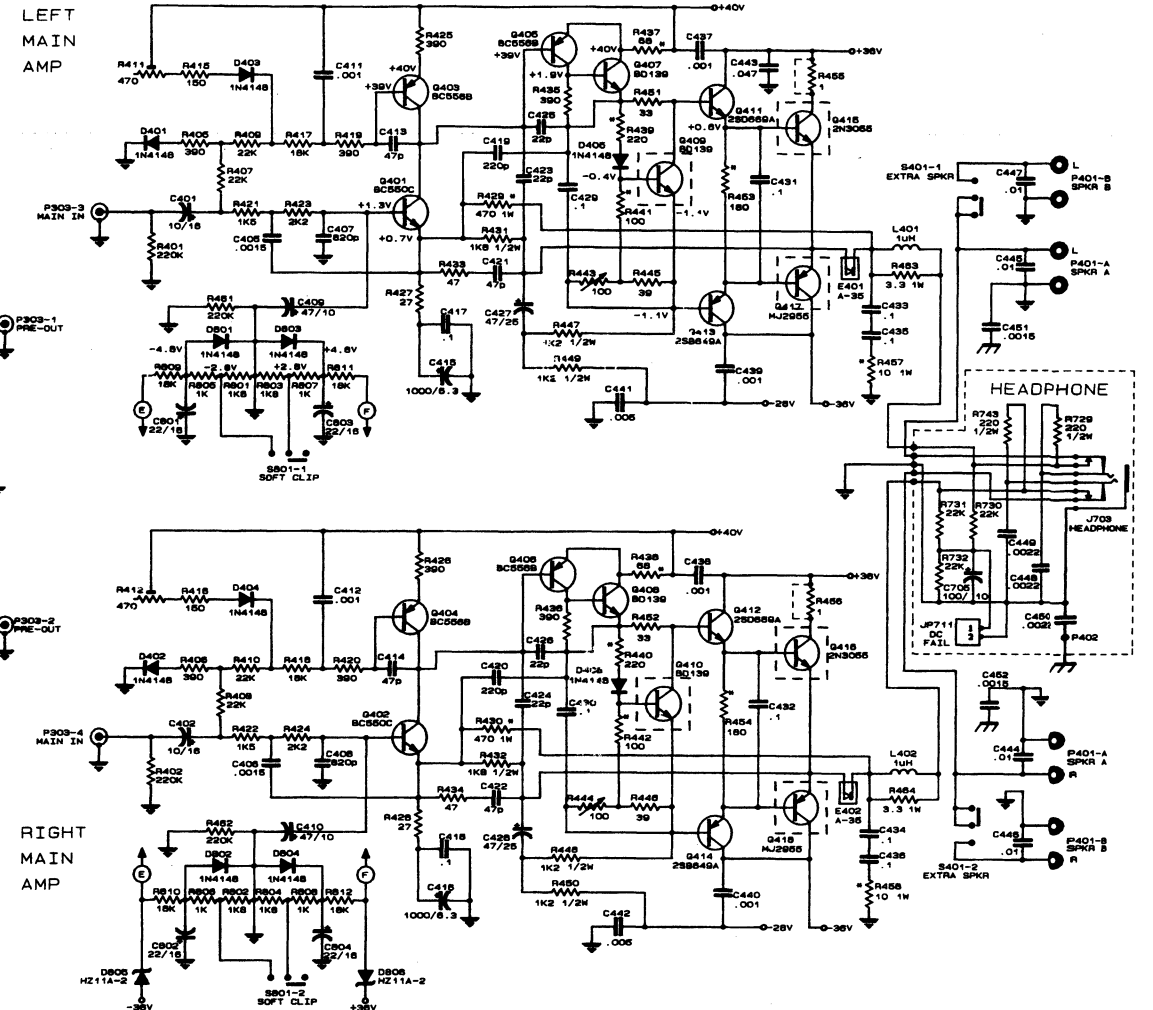
SCHEMATIC DIAGRAMS



MAIN AMPLIFIER

POWER
SUPPLY

LEFT
MAIN



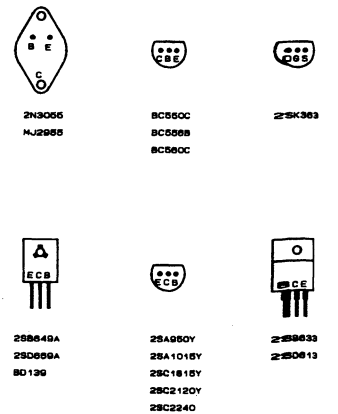
SWITCHES AND CONTROLS

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5201      : FUNCTION SWITCH (ALL OFF)
5201      1 - 2 : TAPE MONITOR
5201      3 - 4 : CD
5201      5 - 6 : VIDEO
5201      7 - 8 : PHONO
5201      9-10 : AM
5201     11-12 : FM
5202      : PHONO/LINE SWITCH (PHONO POSITION)
5301      1 - 2 : STEREO/MONO SWITCH (STEREO)
5301      3 - 4 : LOUDNESS SWITCH (OFF)
5401      1 - 2 : EXTRA SPEAKERS SWITCH (OFF)
5502      A - B : IMPEDANCE SWITCH (8 OHMS POSITION)
5601      1 - 2 : SOFT CLIPPING SWITCH (OFF)
R336      A - B : VOLUME CONTROL
R340      A - B : TREBLE CONTROL
R341      A - B : BASS CONTROL
R342      : BALANCE CONTROL

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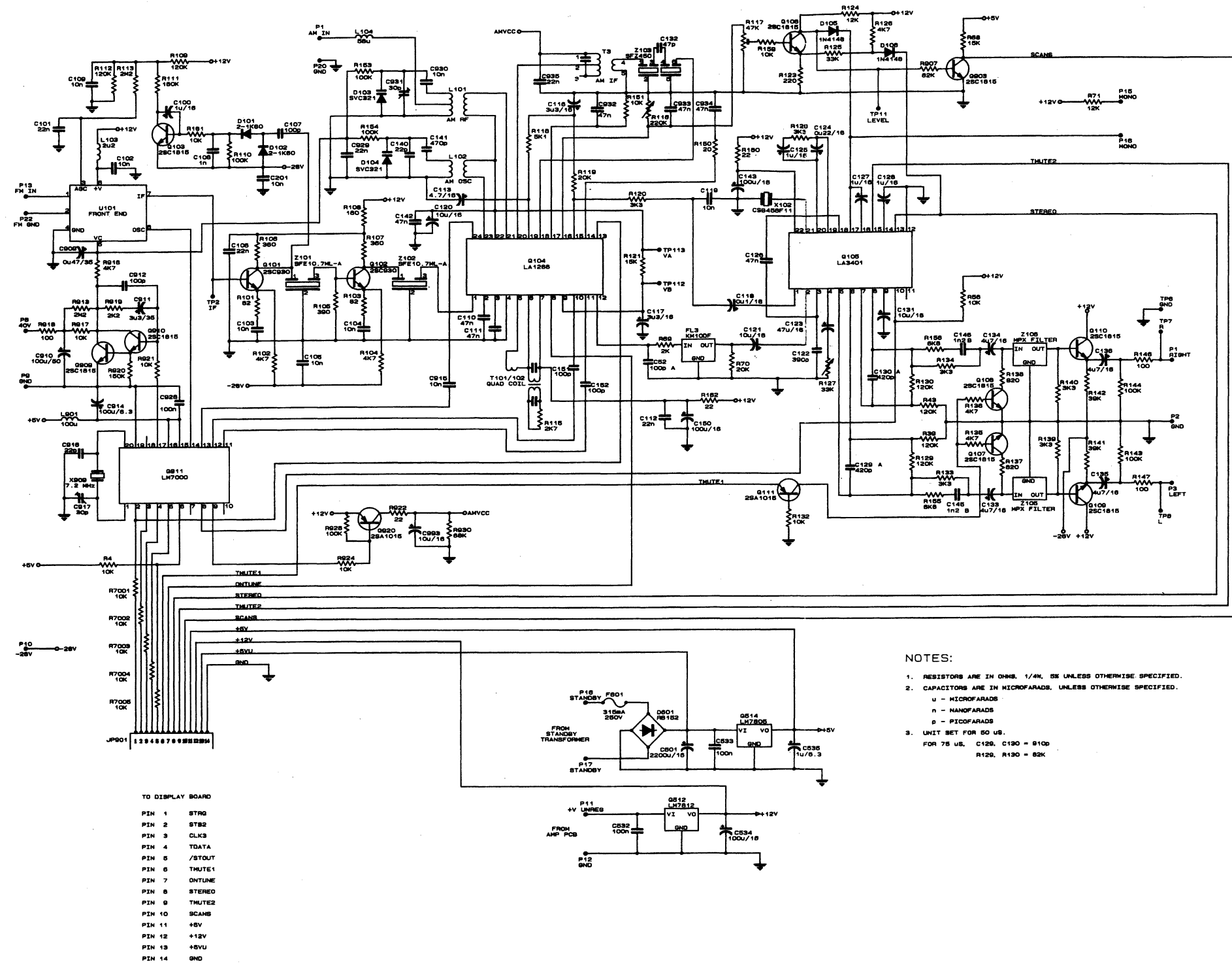
PIN ASSIGNMENTS



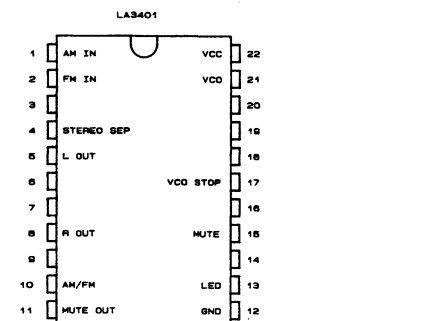
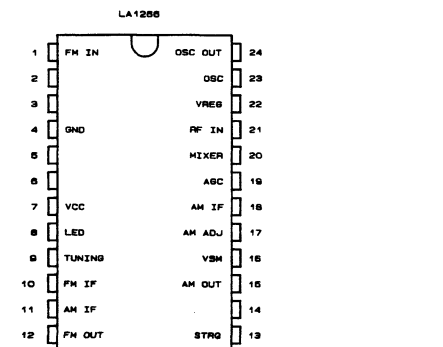
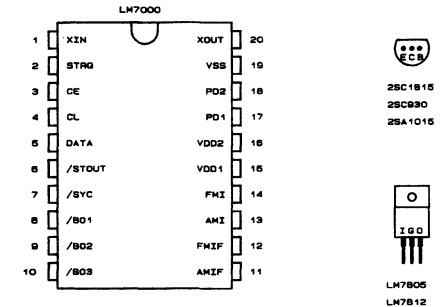
NOTES:

1. RESISTORS ARE IN OHMS, 1/4W, 5% UNLESS OTHERWISE SPEC'D.
2. CAPACITORS ARE IN MICROFARADS, UNLESS OTHERWISE SPEC'ED.
3. * - DENOTES COMPONENTS MOUNTED UP FROM PCB.
4. X - DENOTES PARTS MOUNTED ON SMALL HEATSINKS.
5. □ - DENOTES PARTS MOUNTED ON MAIN HEATSINK.
6. R455 AND R456 USED FOR TOLING CURRENT ADJUST ONLY. MUST BE SHORTED IN NORMAL OPERATION.
7. VOLTAGES SHOWN ARE MEASURED WITH NO SIGNAL APPLIED.
8. TF - THERMAL FUSE

TUNER

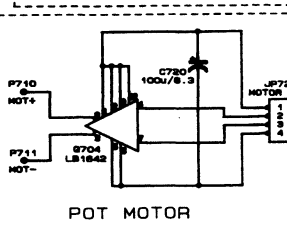
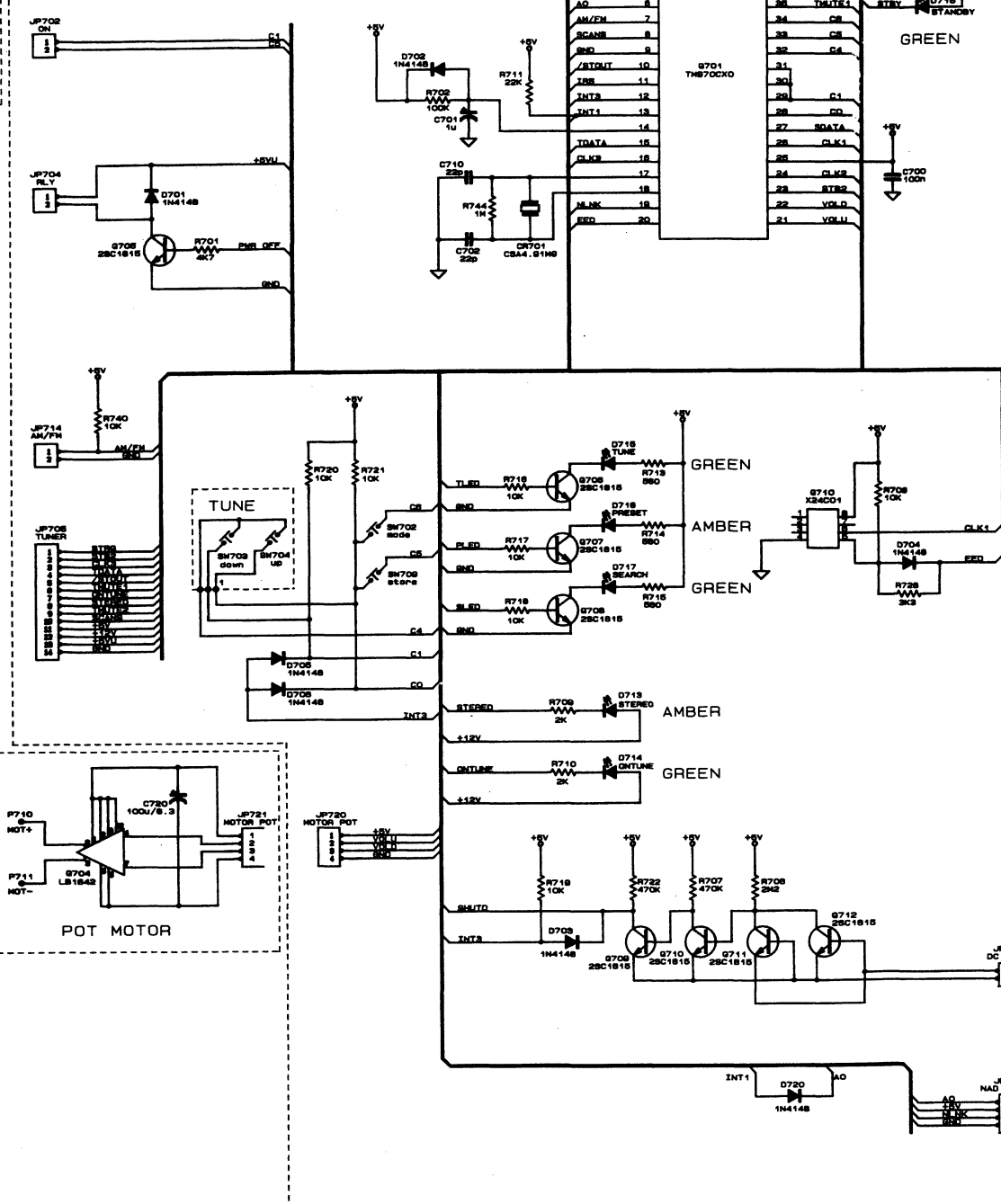
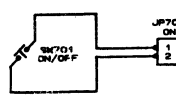


SEMICONDUCTOR PIN DESCRIPTIONS

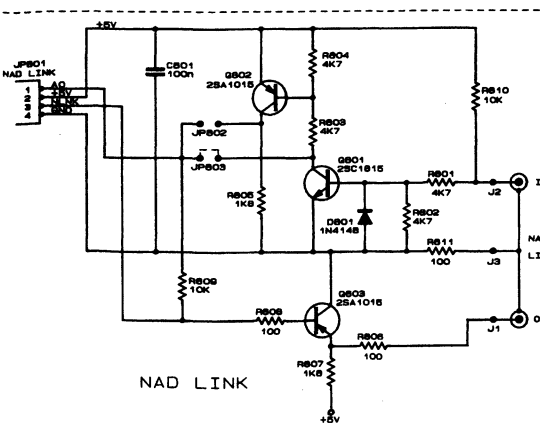
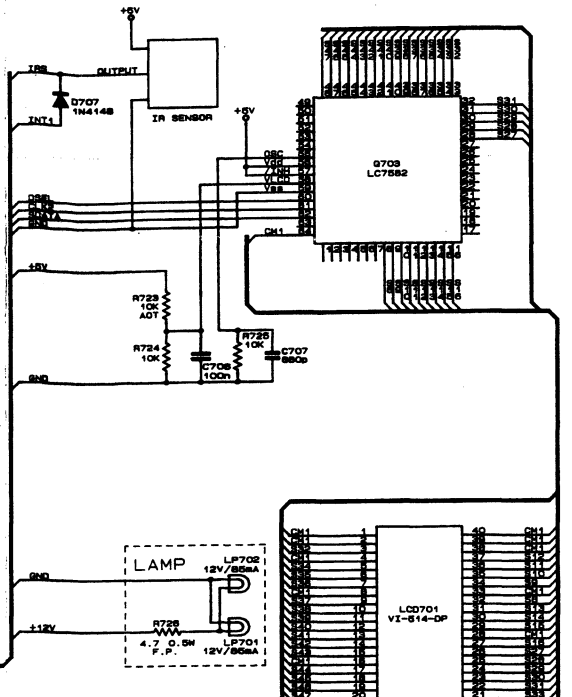


DISPLAY/NAD LINK

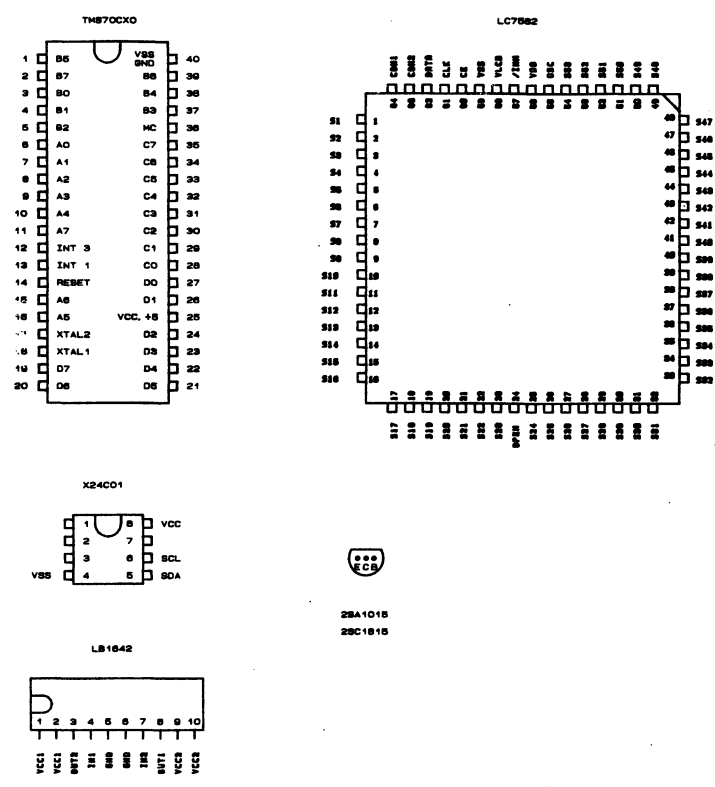
POWER ON/OFF



DISPLAY/IR



SEMICONDUCTOR PIN DESCRIPTIONS



- NOTES:
1. RESISTORS ARE IN OHMS, 1/K, 5K UNLESS OTHERWISE SPECIFIED.
 2. CAPACITORS ARE IN MICROFARADS, UNLESS OTHERWISE SPECIFIED.
- u - MICROFARADS
n - NANOFARADS
p - PICOFARADS

ELECTRICAL PARTS LIST

SYMBOL NO.	PART NUMBER	DESCRIPTION						REMARKS
MAIN AMPLIFIER								
C203, C204	N150F151J-5-GG	Capacitor	Ceramic	150pF	±5%	50V		
C205, C206	N150F560J-5-IF	Capacitor	Ceramic	56pF	±5%	50V		
C207, C208	N157E476M-5-IU	Capacitor	Electrolytic	47uF	±20%	25V		
C209, C210	N157C227M-5-KW	Capacitor	Electrolytic	220uF	±20%	10V		
C211, C212	N153H183J-5-JQ	Capacitor	Mylar	0.018uF	±5%	100V		
C213, C214	N153H822J-5-WQ	Capacitor	Mylar	0.0082uF	±5%	100V		
C215, C216	N153H752J-5-IQ	Capacitor	Mylar	0.0075uF	±5%	100V		
C217, C218	N150F220J-5-IF	Capacitor	Ceramic	22pF	±5%	50V		
C219, C220	N157E476M-5-IU	Capacitor	Electrolytic	47uF	±20%	25V		
C221, C222	N157C227M-5-KW	Capacitor	Electrolytic	220uF	±20%	10V		
C223, C224	N157D106M-5-IU	Capacitor	Electrolytic	10uF	±20%	16V		
C227, C228	N150F104Z-5-IU	Capacitor	Ceramic	0.1uF	+80-20%	50V		
C229, C230	N150F151J-5-GG	Capacitor	Ceramic	150pF	±5%	50V		
C301, C302	N153H104J-5-QW	Capacitor	Mylar	0.1uF	±5%	100V		
C303, C304	N153H104J-5-QW	Capacitor	Mylar	0.1uF	±5%	100V		
C305, C306	N150F221J-5-OF	Capacitor	Ceramic	220pF	±5%	50V		
C307, C308	N150F101J-5-IF	Capacitor	Ceramic	100pF	±5%	50V		
C309, C310	N150F150J-5-IF	Capacitor	Ceramic	15pF	±5%	50V		
C311, C312	N157C107M-5-IU	Capacitor	Electrolytic	100uF	±20%	10V		
C313, C314	N157E476M-5-IU	Capacitor	Electrolytic	47uF	±20%	25V		
C315, C316	N157C107M-5-IU	Capacitor	Electrolytic	100uF	±20%	10V		
C317, C318	N153H183J-5-JQ	Capacitor	Mylar	0.018uF	±5%	100V		
C319, C320	N153H104J-5-QW	Capacitor	Mylar	0.1uF	±5%	100V		
C321, C322	N157C476M-5-IU	Capacitor	Electrolytic	47uF	±20%	10V		
C323, C324	N153H823J-5-SM	Capacitor	Mylar	0.082uF	±5%	100V		
C325, C326	N157F474M-5-IU	Capacitor	Electrolytic	0.47uF	±20%	50V		
C327, C328	N150F104Z-5-IU	Capacitor	Ceramic	0.1uF	+80-20%	50V		
C331, C332	N153H122K-5-IQ	Capacitor	Mylar	0.0012uF	±10%	50V		
C333, C334	N153H224J-5-OQM	Capacitor	Mylar	0.22uF	±5%	100V		
C335	N150F391K-5-RF	Capacitor	Ceramic	390pF	±10%	50V		
C337, C338	N150F101J-5-IF	Capacitor	Ceramic	100pF	±5%	50V		
C339, C340	N150F101J-5-IF	Capacitor	Ceramic	100pF	±5%	50V		
C341, C342	N150F101J-5-IF	Capacitor	Ceramic	100pF	±5%	50V		
C343, C344	N150F101J-5-IF	Capacitor	Ceramic	100pF	±5%	50V		
C401, C402	N157D106M-5-IU	Capacitor	Electrolytic	10uF	±20%	16V		
C405, C406	N153H152J-5-IQ	Capacitor	Mylar	0.0015uF	±5%	100V		
C407, C408	N150F821K-5-IF	Capacitor	Ceramic	820pF	±10%	50V		
C409, C410	N157C476M-5-IU	Capacitor	Electrolytic	47uF	±20%	10V		
C411, C412	N153H102J-5-IQ	Capacitor	Mylar	0.001uF	±5%	100V		
C413, C414	N150F470J-5-IF	Capacitor	Ceramic	47pF	±5%	50V		
C415, C416	N157C108M-5-S5	Capacitor	Electrolytic	1000uF	±20%	10V		
C417, C418	N153H104J-5-QW	Capacitor	Mylar	0.1uF	±5%	100V		
C419, C420	N150F221J-5-OF	Capacitor	Ceramic	220pF	±5%	50V		
C421, C422	N150F470J-5-IF	Capacitor	Ceramic	47pF	±5%	50V		
C423, C424	N150F220J-5-IF	Capacitor	Ceramic	22pF	±5%	50V		
C425, C426	N150F220J-5-IF	Capacitor	Ceramic	22pF	±5%	50V		
C427, C428	N157E476M-5-IU	Capacitor	Electrolytic	47uF	±20%	25V		
C429, C430	N153H104J-5-QW	Capacitor	Mylar	0.1uF	±5%	100V		
C431, C432	N153H104J-5-QW	Capacitor	Mylar	0.1uF	±5%	100V		
C433, C434	N150F104Z-5-IU	Capacitor	Ceramic	0.1uF	+80-20%	50V		
C435, C436	N150F104Z-5-IU	Capacitor	Ceramic	0.1uF	+80-20%	50V		
C437, C438	N150F102K-5-II	Capacitor	Ceramic	0.001uF	±10%	50V		
C439, C440	N150F102K-5-II	Capacitor	Ceramic	0.001uF	±10%	50V		
C441, C442	N150F502K-5-OG	Capacitor	Ceramic	0.005uF	±10%	50V		
C443	N150F473Z-5-SG	Capacitor	Ceramic	0.047uF	±20%	50V		
C502, C503	N153L103M-5-6S	Capacitor	Mylar	0.01uF	±20%	500V		
C504, C505	N157F476M-5-PV	Capacitor	Electrolytic	47uF	±20%	50V		
C506, C507	N150F104Z-5-IU	Capacitor	Ceramic	0.1uF	+80-20%	50V		

SYMBOL NO.	PART NUMBER	DESCRIPTION					REMARKS
C508, C509	N89100029-0	Capacitor	Electrolytic	6800uF	±20%	50V	
C510, C511	N150H104Z-5-MM	Capacitor	Ceramic	0.1uF	+80-20%	100V	
C512	N150F104Z-5-IU	Capacitor	Ceramic	0.1uF	+80-20%	50V	
C513	N153L103M-5-6S	Capacitor	Mylar	0.01uF	±20%	500V	
C514, C515	N150F473Z-5-SG	Capacitor	Ceramic	0.047uF	±20%	50V	
C516, C517	N157I337M-5-Y9	Capacitor	Electrolytic	330uF	±20%	63V	
C518, C519	N157F476M-5-PV	Capacitor	Electrolytic	47uF	±20%	50V	
C520, C521	N150F220J-5-IF	Capacitor	Ceramic	22pF	±5%	50V	
C522	N157F475M-5-IU	Capacitor	Electrolytic	4.7uF	±20%	50V	
C523	N157F226M-5-LU	Capacitor	Electrolytic	22uF	±20%	50V	
C524	N157F225M-5-GM	Capacitor	Electrolytic	2.2uF	±20%	50V	
C525	N157F476M-5-PV	Capacitor	Electrolytic	47uF	±20%	50V	
C526	N157Q476M-5-LU	Capacitor	Electrolytic	47uF	±20%	35V	
C527, C528	N150F103K-5-UU	Capacitor	Ceramic	0.01uF	±10%	50V	
C529	N150F103K-5-UU	Capacitor	Ceramic	0.01uF	±10%	50V	
C531	N157E228Z-5-6@	Capacitor	Electrolytic	2200uF	+80-20%	25V	
C601	N157H226M-5-PV	Capacitor	Electrolytic	22uF	±20%	100V	
C603	N157H226M-5-PV	Capacitor	Electrolytic	22uF	±20%	100V	
C801, C802	N157D226M-5-IU	Capacitor	Electrolytic	22uF	±20%	16V	
C803, C804	N157D226M-5-IU	Capacitor	Electrolytic	22uF	±20%	16V	
D201, D202	N48041480-2	Diode		1N4148			
D203, D204	N48041480-2	Diode		1N4148			
D301, D302	N48041480-2	Diode		1N4148			
D303, D304	N48041480-2	Diode		1N4148			
D401, D402	N48041480-2	Diode		1N4148			
D403, D404	N48041480-2	Diode		1N4148			
D405, D406	N48041480-2	Diode		1N4148			
D501, D502	N48054010-1	Diode		1N5401, 100V, 3A			
D503, D504	N48054010-1	Diode		1N5401, 100V, 3A			
D505, D506	N48054010-1	Diode		1N5401, 100V, 3A			
D507, D508	N48054010-1	Diode		1N5401, 100V, 3A			
D509, D510	N48054010-1	Diode		1N5401, 100V, 3A			
D511	N48400470-0	Rectifier	Bridge	RS102, 100V, 1A			
D512	N48041480-2	Diode		1N4148			
D513	N483724B4-1	Diode	Zener	(23.81-24.81)		0.5W	
D514, D515	N48040020-2	Diode		1N4002			
D601	N48041480-2	Diode		1N4148			
D603	N48041480-2	Diode		1N4148			
D801, D802	N48041480-2	Diode		1N4148			
D803, D804	N48041480-2	Diode		1N4148			
D805, D806	N48378C20-1	Diode	Zener	11V		0.5W	
E401, E402	N89100030-0	Circuit Breaker		3.5A		250 VAC	
E501, E502	N89100035-0	PTC Polyswitch		RDE185			
F501, F502	N51004020-1A	Fuse	UL/CSA 5x20mm		4A	125 V	AH ▲
F501, F502	N51004020-1B	Fuse	SEMKO HBC 5x20mm		4A	250 V	C ▲
F503, F504	N51004020-1A	Fuse	UL/CSA 5x20mm		4A	125 V	AH ▲
F503, F504	N51004020-1B	Fuse	SEMKO HBC 5x20mm		4A	250 V	C ▲
F505, F506	N51001020-1A	Fuse	UL/CSA 5x20mm		1A	125 V	AH ▲
F505, F506	N51001020-1B	Fuse	SEMKO 5x20mm		1A	250 V	C ▲
L201, L202	N18030013-0	Inductor	Toroid	3.7mH	±20%		
L401, L402	N18040470-0	Coil	Spring	0.7/8/13.5			
P201	N21035102-0	Jack	RCA 2 Pos. Gold Plated, Phono				
P301, P302	N21035204-0	Jack	RCA 4 Pos. PCB Type, Video, CD, Tape In, Tape Out				
Q201, Q202	N485C550C-5	Transistor	BC550C				
Q203, Q204	N485C550C-5	Transistor	BC550C				
Q205, Q206	N4851015Y-5	Transistor	2SA1015-Y				
Q207, Q208	N4851015Y-5	Transistor	2SA1015-Y				
Q301, Q302	N485C560C-5	Transistor	BC560C				
Q303, Q304	N4851815Y-5	Transistor	2SC1815-Y				

SYMBOL NO.	PART NUMBER	DESCRIPTION				REMARKS
Q305, Q306	N4851815Y-5	Transistor		2SC1815-Y		
Q307, Q308	N4851015Y-5	Transistor		2SA1015-Y		
Q309, Q310	N485363BL-5	Transistor	N-JFET	2SK363-BL		
Q401, Q402	N485C550C-5	Transistor		BC550C		
Q403, Q404	N485C556B-5	Transistor		BC556B		
Q405, Q406	N485C556B-5	Transistor		BC556B		
Q407, Q408	N485D1390-5	Transistor	Philips	BD139-10		
Q409, Q410	N485D1390-5	Transistor	Philips	BD139-10		
Q411, Q412	N485669AC-5	Transistor		2SD669A-C		
Q413, Q414	N485649AC-5	Transistor		2SB649A-C		
Q415, Q416	N48530550-5	Transistor	Motorola	2N3055		
Q417, Q418	N48529550-5	Transistor	Motorola	MJ2955		
Q501	N4851015Y-5	Transistor		2SA1015-Y		
Q502	N4851815Y-5	Transistor		2SC1815-Y		
Q503	N485A950Y-5	Transistor		2SA950-Y		
Q504	N4852120Y-5	Transistor		2SC2120-Y		
Q505	N485B633D-5	Transistor		2SB633D		
Q506	N485D613D-5	Transistor		2SD613D		
Q507	N485669AC-5	Transistor		2SD669A-C		
Q508	N485649AC-5	Transistor		2SB649A-C		
Q509	N4851815Y-5	Transistor		2SC1815-Y		
Q510	N4851015Y-5	Transistor		2SA1015-Y		
Q511	N485D1390-5	Transistor	Philips	BD139-10		
Q516	N485240GR-5	Transistor		2SC2240GR		
Q517	N4851015Y-5	Transistor		2SA1015-Y		
R203, R204	N4705563J-2	Resistor	Carbon Film	56K	1/4W ±5%	
R205, R206	N4705222J-2	Resistor	Carbon Film	2.2K	1/4W ±5%	
R207, R208	N4705103J-2	Resistor	Carbon Film	10K	1/4W ±5%	
R209, R210	N4705681J-2	Resistor	Carbon Film	680	1/4W ±5%	
R211, R212	N4705153J-2	Resistor	Carbon Film	15K	1/4W ±5%	
R213, R214	N4705392J-2	Resistor	Carbon Film	3.9K	1/4W ±5%	
R215, R216	N4705201C-2	Resistor	Carbon Film	200	1/4W ±2%	
R217, R218	N4705124C-2	Resistor	Carbon Film	120K	1/4W ±2%	
R219, R220	N4705103C-2	Resistor	Carbon Film	10K	1/4W ±2%	
R221, R222	N4705181C-2	Resistor	Carbon Film	180	1/4W ±2%	
R223, R224	N4705151J-2	Resistor	Carbon Film	150	1/4W ±5%	
R225, R226	N4705562J-2	Resistor	Carbon Film	5.6K	1/4W ±5%	
R227, R228	N4705562J-2	Resistor	Carbon Film	5.6K	1/4W ±5%	
R229, R230	N4705471J-2	Resistor	Carbon Film	470	1/4W ±5%	
R231, R232	N4705101J-2	Resistor	Carbon Film	100	1/4W ±5%	
R233, R234	N4705224J-2	Resistor	Carbon Film	220K	1/4W ±5%	
R237, R238	N4705471J-2	Resistor	Carbon Film	470	1/4W ±5%	
R300	N4705102J-2	Resistor	Carbon Film	1K	1/4W ±5%	
R303, R304	N4705224J-2	Resistor	Carbon Film	220K	1/4W ±5%	
R305, R306	N4705823J-2	Resistor	Carbon Film	82K	1/4W ±5%	
R307, R308	N4705391J-2	Resistor	Carbon Film	390	1/4W ±5%	
R309, R310	N4705392J-2	Resistor	Carbon Film	3.9K	1/4W ±5%	
R311, R312	N4705272J-2	Resistor	Carbon Film	2.7K	1/4W ±5%	
R313, R314	N4705682J-2	Resistor	Carbon Film	6.8K	1/4W ±5%	
R315, R316	N4705682J-2	Resistor	Carbon Film	6.8K	1/4W ±5%	
R317, R318	N4705123J-2	Resistor	Carbon Film	12K	1/4W ±5%	
R319, R320	N4705680J-2	Resistor	Carbon Film	68	1/4W ±5%	
R321, R322	N4705680J-2	Resistor	Carbon Film	68	1/4W ±5%	
R323, R324	N4705102J-2	Resistor	Carbon Film	1K	1/4W ±5%	
R325, R326	N4705181J-2	Resistor	Carbon Film	180	1/4W ±5%	
R327, R328	N4705153J-2	Resistor	Carbon Film	15K	1/4W ±5%	
R329, R330	N4705392J-2	Resistor	Carbon Film	3.9K	1/4W ±5%	
R331, R332	N4705681J-2	Resistor	Carbon Film	680	1/4W ±5%	
R333, R334	N4705561J-2	Resistor	Carbon Film	560	1/4W ±5%	

SYMBOL NO.	PART NUMBER	DESCRIPTION					REMARKS
R335, R336	N4705222J-2	Resistor	Carbon Film	2.2K	1/4W	±5%	
R337, R338	N4705102J-2	Resistor	Carbon Film	1K	1/4W	±5%	
R340	N47503486-0	Resistor	Variable - Treble	10KCx2			
R341	N47503506-2	Resistor	Variable - Bass	50KCx2			
R342	N47503496-0	Resistor	Variable - Balance	20KW			
R345, R346	N4705102J-2	Resistor	Carbon Film	1K	1/4W	±5%	
R347, R348	N4705102J-2	Resistor	Carbon Film	1K	1/4W	±5%	
R349, R350	N4705102J-2	Resistor	Carbon Film	1K	1/4W	±5%	
R353, R354	N4705103J-2	Resistor	Carbon Film	10K	1/4W	±5%	
R401, R402	N4705224J-2	Resistor	Carbon Film	220K	1/4W	±5%	
R405, R406	N4705391J-2	Resistor	Carbon Film	390	1/4W	±5%	
R407, R408	N4705223J-2	Resistor	Carbon Film	22K	1/4W	±5%	
R409, R410	N4705223J-2	Resistor	Carbon Film	22K	1/4W	±5%	
R411, R412	N47564715-3-09	Resistor	Semi-fixed, Horizontal, 5mm	470			
R415, R416	N4705151J-2	Resistor	Carbon Film	150	1/4W	±5%	
R417, R418	N4705183J-2	Resistor	Carbon Film	18K	1/4W	±5%	
R419, R420	N4705391J-2	Resistor	Carbon Film	390	1/4W	±5%	
R421, R422	N4705152J-2	Resistor	Carbon Film	1.5K	1/4W	±5%	
R423, R424	N4705222J-2	Resistor	Carbon Film	2.2K	1/4W	±5%	
R425, R426	N4705391J-2	Resistor	Carbon Film	390	1/4W	±5%	
R427, R428	N4705270J-2	Resistor	Carbon Film	27	1/4W	±5%	
R429, R430	N4718471J-1	Resistor	Metal Oxide	470	1W	±5%	
R431, R432	N4707182J-1	Resistor	Carbon Film	1.8K	1/2W	±5%	
R433, R434	N4705470J-2	Resistor	Carbon Film	47	1/4W	±5%	
R435, R436	N4705391J-2	Resistor	Carbon Film	390	1/4W	±5%	
R437, R438	N4717680J-1	Resistor	Metal Oxide	68	1/2W	±5%	
R439, R440	N4717221J-1	Resistor	Metal Oxide	220	1/2W	±5%	
R441, R442	N4717101J-1	Resistor	Metal Oxide	100	1/2W	±5%	
R443, R444	N47561015-3-09	Resistor	Semi-fixed, Horizontal, 5mm	100			
R445, R446	N4705390J-2	Resistor	Carbon Film	39	1/4W	±5%	
R447, R448	N4707122J-1	Resistor	Carbon Film	1.2K	1/2W	±5%	
R449, R450	N4707122J-1	Resistor	Carbon Film	1.2K	1/2W	±5%	
R451, R452	N4705330J-2	Resistor	Carbon Film	33	1/4W	±5%	
R453, R454	N4717181J-1	Resistor	Metal Oxide	180	1/2W	±5%	
R455, R456	N47051R0J-2	Resistor	Carbon Film	1	1/4W	±5%	
R457, R458	N4718100J-1	Resistor	Metal Oxide	10	1W	±5%	
R461, R462	N4705224J-2	Resistor	Carbon Film	220K	1/4W	±5%	
R463, R464	N47083R3J-1	Resistor	Carbon Film	3.3	1W	±5%	
R501, R502	N4719R22J-1	Resistor	Metal Oxide	0.22	2W	±5%	
R503, R504	N4705271J-2	Resistor	Carbon Film	270	1/4W	±5%	
R505, R506	N4705682J-2	Resistor	Carbon Film	6.8K	1/4W	±5%	
R507, R508	N4705121J-2	Resistor	Carbon Film	120	1/4W	±5%	
R509, R510	N4705682J-2	Resistor	Carbon Film	6.8K	1/4W	±5%	
R511	N4718100J-1	Resistor	Metal Oxide	10	1W	±5%	
R512	N4719101J-1-K	Resistor	Metal Oxide	100	2W	±5%	
R513	N4705152J-2	Resistor	Carbon Film	1.5K	1/4W	±5%	
R514	N4705122J-2	Resistor	Carbon Film	1.2K	1/4W	±5%	
R515	N4705152J-2	Resistor	Carbon Film	1.5K	1/4W	±5%	
R516	N4705122J-2	Resistor	Carbon Film	1.2K	1/4W	±5%	
R517, R518	N4705122J-2	Resistor	Carbon Film	1.2K	1/4W	±5%	
R519	N4705562J-2	Resistor	Carbon Film	5.6K	1/4W	±5%	
R520	N4705123J-2	Resistor	Carbon Film	12K	1/4W	±5%	
R521	N4705101J-2	Resistor	Carbon Film	100	1/4W	±5%	
R522	N4705122J-2	Resistor	Carbon Film	1.2K	1/4W	±5%	
R523	N4705823J-2	Resistor	Carbon Film	82K	1/4W	±5%	
R524	N4705153J-2	Resistor	Carbon Film	15K	1/4W	±5%	
R536	N4705473J-2	Resistor	Carbon Film	47K	1/4W	±5%	
R537	N4705153J-2	Resistor	Carbon Film	15K	1/4W	±5%	
R538	N4705104J-2	Resistor	Carbon Film	100K	1/4W	±5%	

SYMBOL NO.	PART NUMBER	DESCRIPTION						REMARKS
R601	N4705122J-2	Resistor	Carbon Film	1.2K	1/4W	±5%		
R602	N4705391J-2	Resistor	Carbon Film	390	1/4W	±5%		
R603, R604	N4705154J-2	Resistor	Carbon Film	150K	1/4W	±5%		
R605, R606	N4705226J-2	Resistor	Carbon Film	22M	1/4W	±5%		
R801, R802	N4705182J-2	Resistor	Carbon Film	1.8K	1/4W	±5%		
R803, R804	N4705182J-2	Resistor	Carbon Film	1.8K	1/4W	±5%		
R805, R806	N4705102J-2	Resistor	Carbon Film	1K	1/4W	±5%		
R807, R808	N4705102J-2	Resistor	Carbon Film	1K	1/4W	±5%		
R809, R810	N4705183J-2	Resistor	Carbon Film	18K	1/4W	±5%		
R811, R812	N4705183J-2	Resistor	Carbon Film	18K	1/4W	±5%		
S201	N52002071-0-01	Switch	Push, 12.5mmx12.5mm 6 Keys, Input Selector					
S301	N52002041-0-01	Switch	Push, 2S2S (SPUF21) 2 Keys Alps, Mono/Loudness					
S401	N52002081-0-01	Switch	Push, 2P2J 1 Key Alps, Extra Speakers					
S801	N52002091-0-01	Switch	Slide, 2P2T 3.5T22K10G10, Soft Clipping					
	N89100031-0	T.S-110	PTH9M04BC471TS2F333					
T501	N18062095-0	Transformer	EI67					⚠
T502	N18062096-0	Transformer	EI35 115/230VAC 160mA					⚠
TUNER								
C52	N158D121J-5-IQ	Capacitor	Polystyrene	120pF	±5%	16V		
C100	N157F105M-5-IU	Capacitor	Electrolytic	1uF	±20%	50V		
C101	N150F203Z-5-OL	Capacitor	Ceramic	0.02uF	+80-20%	50V		
C102, C103	N150F103Z-5-II	Capacitor	Ceramic	0.01uF	+80-20%	50V		
C104, C105	N150F103Z-5-II	Capacitor	Ceramic	0.01uF	+80-20%	50V		
C106	N150F203Z-5-OL	Capacitor	Ceramic	0.02uF	+80-20%	50V		
C107	N150F101J-5-IF	Capacitor	Ceramic	100pF	±5%	50V		
C108	N150F102Z-5-II	Capacitor	Ceramic	0.001uF	+80-20%	50V		
C109	N150F103Z-5-II	Capacitor	Ceramic	0.01uF	+80-20%	50V		
C110, C111	N150F473Z-5-SG	Capacitor	Ceramic	0.047uF	±20%	50V		
C112	N150F203Z-5-OL	Capacitor	Ceramic	0.02uF	+80-20%	50V		
C113	N157F475M-5-IU	Capacitor	Electrolytic	4.7uF	±20%	50V		
C116, C117	N157F335M-5-IU	Capacitor	Electrolytic	3.3uF	±20%	50V		
C118	N157F104M-5-IU	Capacitor	Electrolytic	0.1uF	±20%	50V		
C119	N150F103Z-5-II	Capacitor	Ceramic	0.01uF	+80-20%	50V		
C120, C121	N157D106M-5-IU	Capacitor	Electrolytic	10uF	±20%	16V		
C122	N150F391K-5-RF	Capacitor	Ceramic	390pF	±10%	50V		
C123	N157D476M-5-IU	Capacitor	Electrolytic	47uF	±20%	16V		
C124	N157F224M-5-IU	Capacitor	Electrolytic	0.22uF	±20%	50V		
C125	N157F105M-5-IU	Capacitor	Electrolytic	1uF	±20%	50V		
C126	N150F473Z-5-SG	Capacitor	Ceramic	0.047uF	±20%	50V		
C127, C128	N157F105M-5-IU	Capacitor	Electrolytic	1uF	±20%	50V		
C129, C130	N158E421J-5-IQ	Capacitor	Polystyrene	420pF	±5%	25V		
C129, C130	N158E911J-5-IQ	Capacitor	Polystyrene	910pF	±5%	25V		
C131	N157D106M-5-IU	Capacitor	Electrolytic	10uF	±20%	16V		
C132	N15CH470J-5-KG	Capacitor	Ceramic	47pF NPO	±5%			
C133, C134	N157F475M-5-IU	Capacitor	Electrolytic	4.7uF	±20%	50V		
C135, C136	N157F475M-5-IU	Capacitor	Electrolytic	4.7uF	±20%	50V		
C140	N15CH220J-5-GG	Capacitor	Ceramic	22pF NPO	±5%	50V		
C141	N158E471J-5-IQ	Capacitor	Polystyrene	470pF	±5%	25V		
C142	N150F473Z-5-SG	Capacitor	Ceramic	0.047uF	±20%	50V		
C143	N157D107Z-5-KW	Capacitor	Electrolytic	100uF	+80-20%	16V		
C145, C146	N153H122K-5-IQ	Capacitor	Mylar	0.0012uF	±10%	50V		
C150	N157D107Z-5-KW	Capacitor	Electrolytic	100uF	+80-20%	16V		
C151, C152	N150F101J-5-IF	Capacitor	Ceramic	100pF	±5%	50V		
C201	N150F103Z-5-II	Capacitor	Ceramic	0.01uF	+80-20%	50V		
C532, C533	N150F104Z-5-IU	Capacitor	Ceramic	0.1uF	+80-20%	50V		
C534	N157D107Z-5-KW	Capacitor	Electrolytic	100uF	+80-20%	16V		
C535	N157F105Z-5-IU	Capacitor	Electrolytic	1uF	+80-20%	50V		
C601	N157D228Z-5-W9	Capacitor	Electrolytic	2200uF	+80-20%	16V		

C
AH

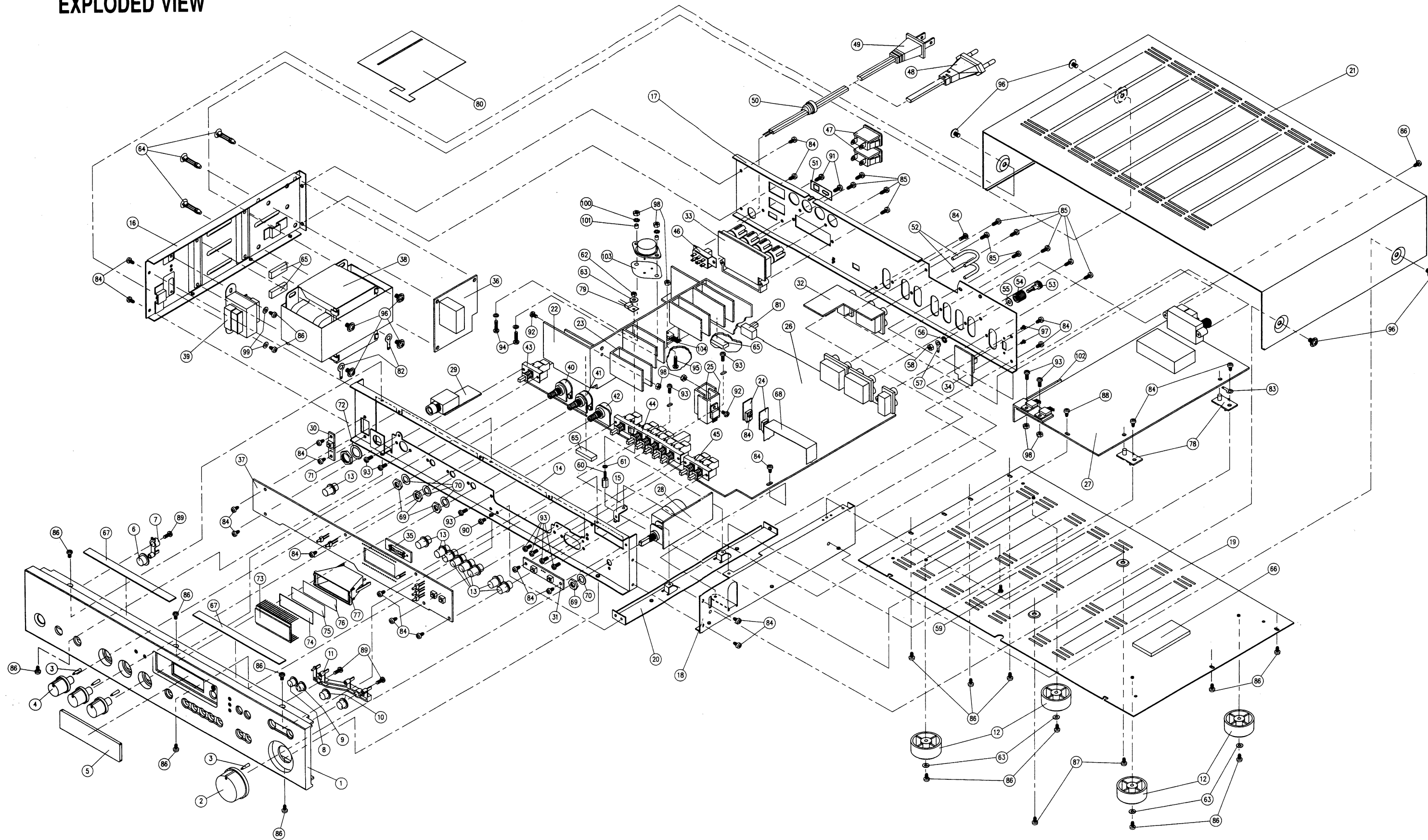
SYMBOL NO.	PART NUMBER	DESCRIPTION						REMARKS
C909	N157F474Z-5-IU	Capacitor	Electrolytic	0.47uF	+80-20%	50V		
C910	N157F107Z-5-OW	Capacitor	Electrolytic	100uF	+80-20%	50V		
C911	N157F335M-5-IU	Capacitor	Electrolytic	3.3uF	±20%	50V		
C912	N150F104Z-5-IU	Capacitor	Ceramic	0.1uF	+80-20%	50V		
C914	N157D476Z-5-IU	Capacitor	Electrolytic	47uF	+80-20%	16V		
C915	N150F103Z-5-II	Capacitor	Ceramic	0.01uF	+80-20%	50V		
C916	N15CH220J-5-GG	Capacitor	Ceramic	22pF NPO	±5%	50V		
C917	N15510210-M	Capacitor	Trimmer	6mm TZ03R300FR		30pF		
C928	N150F104Z-5-IU	Capacitor	Ceramic	0.1uF	+80-20%	50V		
C929	N150F203Z-5-OL	Capacitor	Ceramic	0.02uF	+80-20%	50V		
C930	N150F103Z-5-II	Capacitor	Ceramic	0.01uF	+80-20%	50V		
C931	N15510210-M	Capacitor	Trimmer	6mm TZ03R300FR		30pF		
C932	N150F473Z-5-SG	Capacitor	Ceramic	0.047uF	±20%	50V		
C933, C934	N150F473Z-5-SG	Capacitor	Ceramic	0.047uF	±20%	50V		
C935	N150F203Z-5-OL	Capacitor	Ceramic	0.02uF	+80-20%	50V		
C993	N157D106M-5-IU	Capacitor	Electrolytic	10uF	±20%	16V		
D101, D102	N4801N60P-1	Diode	Germanium	2-1K60				
D103, D104	N484C321D-5	Diode	AFC	SVC321SPA				
D105, D106	N48041480-2	Diode		1N4148				
D601	N48400490-0	Rectifier	Bridge	RB152, 100V, 1.5A				
F601	N51003120-1A	Fuse	UL/CSA 5x20mm	315mA		250V	AH 	
F601	N51003120-1B	Fuse	SEMKO 5x20mm	315mA		250V	C 	
FL3	N56002296-S	Coil	FTZ	10DFE01				
JP901	N21024114-0-901	Socket	14-Pin, Right Angle					
L101	N56002276-S	Coil	AM RF	5564102600				
L102	N56002286-S	Coil	AM Osc	5564312800				
L103	N18012R2M-M	Coil	Choke	2.2uH	±20%			
L104	N1801560M-M	Coil	Choke	56uH	±20%			
L901	N1801101K-M	Coil	Choke	100uH	±10%			
Q101, Q102	N485C930E-5	Transistor		2SC930E				
Q103	N4851815Y-5	Transistor		2SC1815-Y				
Q104	N31303390-0	IC	Sanyo FM/AM Tuner	LA1266				
Q105	N31303400-0	IC	PLL Multiplex	LA3401				
Q106	N4851815Y-5	Transistor		2SC1815-Y				
Q107, Q108	N4851815Y-5	Transistor		2SC1815-Y				
Q109, Q110	N4851815Y-5	Transistor		2SC1815-Y				
Q111	N4851015Y-5	Transistor		2SA1015-Y				
Q512	N31302520-1	IC	Regulator, 12V	7812				
Q514	N31302020-1	IC	Regulator, 5V	7805				
Q903	N4851815Y-5	Transistor		2SC1815-Y				
Q909, Q910	N4851815Y-5	Transistor		2SC1815-Y				
Q911	N31303430-0	IC	Sanyo DTS	LM7000				
Q920	N4851015Y-5	Transistor		2SA1015-Y				
R4	N4705103J-2	Resistor	Carbon Film	10K	1/4W	±5%		
R39	N4705124J-2	Resistor	Carbon Film	120K	1/4W	±5%		
R43	N4705124J-2	Resistor	Carbon Film	120K	1/4W	±5%		
R56	N4705103J-2	Resistor	Carbon Film	10K	1/4W	±5%		
R68	N4705153J-2	Resistor	Carbon Film	15K	1/4W	±5%		
R69	N4705202J-2	Resistor	Carbon Film	2K	1/4W	±5%		
R70	N4705203J-2	Resistor	Carbon Film	20K	1/4W	±5%		
R71	N4705123J-2	Resistor	Carbon Film	12K	1/4W	±5%		
R101	N4705820J-2	Resistor	Carbon Film	82	1/4W	±5%		
R102	N4705472J-2	Resistor	Carbon Film	4.7K	1/4W	±5%		
R103	N4705820J-2	Resistor	Carbon Film	82	1/4W	±5%		
R104	N4705472J-2	Resistor	Carbon Film	4.7K	1/4W	±5%		
R105	N4705391J-2	Resistor	Carbon Film	390	1/4W	±5%		
R106, R107	N4705361J-2	Resistor	Carbon Film	360	1/4W	±5%		
R108	N4705181J-2	Resistor	Carbon Film	180	1/4W	±5%		
R109	N4705124J-2	Resistor	Carbon Film	120K	1/4W	±5%		

SYMBOL NO.	PART NUMBER	DESCRIPTION					REMARKS	
VOLUME CONTROL								
C720	N157C107Z-5-LI	Capacitor	Electrolytic	100uF	+80-20%	10V		
Q704	N31303410-0	IC	Sanyo Motor Driver	LB1642				
R339	N47503516-0	Resistor	Variable, Volume, Motor Drive	20K B (D)				
HEADPHONE								
C448, C449	N150F222K-5-LF	Capacitor	Ceramic	0.0022uF	±10%	50V		
C450	N150F222K-5-LF	Capacitor	Ceramic	0.0022uF	±10%	50V		
C705	N157C107Z-5-IU	Capacitor	Electrolytic	100uF	+80-20%	10V		
J703	N21035401-0	Jack	Headphone, 6.5mm					
R729	N4707221J-1	Resistor	Carbon Film	220	1/2W	±5%		
R730, R731	N4705223J-2	Resistor	Carbon Film	22K	1/4W	±5%		
R732	N4705223J-2	Resistor	Carbon Film	22K	1/4W	±5%		
R743	N4707221J-1	Resistor	Carbon Film	220	1/2W	±5%		
POWER								
SW701	N52003011-0-01	Switch	Tact, 4-Pin	Power				
TUNE								
SW703, SW704	N52003011-0-01	Switch	Tact, 4-Pin	down, up				
NAD LINK								
C801	N150F104Z-5-IU	Capacitor	Ceramic	0.1uF	+80-20%	50V		
D801	N48041480-2	Diode		1N4148				
	N21035602-0	Jack	RCA 2 Pos. Yellow PCB Type, NAD Link					
P303	N21035204-0	Jack	RCA 4 Pos. PCB Type, Pre Out, Main In					
Q801	N4851815Y-5	Transistor	2SC1815-Y					
Q802, Q803	N4851015Y-5	Transistor	2SA1015-Y					
R801, R802	N4705472J-2	Resistor	Carbon Film	4.7K	1/4W	±5%		
R803, R804	N4705472J-2	Resistor	Carbon Film	4.7K	1/4W	±5%		
R805, R806	N4705101J-2	Resistor	Carbon Film	100	1/4W	±5%		
R807	N4705182J-2	Resistor	Carbon Film	1.8K	1/4W	±5%		
R808	N4705101J-2	Resistor	Carbon Film	100	1/4W	±5%		
R809, R810	N4705103J-2	Resistor	Carbon Film	10K	1/4W	±5%		
R811	N4705101J-1	Resistor	Carbon Film	100	1/4W	±5%		
SPEAKER								
C444, C445	N150F103K-5-QU	Capacitor	Ceramic	0.01uF	±10%	50V		
C446, C447	N150F103K-5-QU	Capacitor	Ceramic	0.01uF	±10%	50V		
C451, C452	N150F152K-5-IF	Capacitor	Ceramic	0.0015uF	±10%	50V		
P401-A	N21036004-0	Speaker Terminal,	screw type, without Plug				AH	
P401-A	N21036604-0	Speaker Terminal,	screw type, with Plug				C	
P401-B	N21035504-0	Speaker Terminal,	clip type					
PHONO/LINE SWITCH								
C201, C202	N157F475M-5-GM	Capacitor	Electrolytic	4.7uF	±20%	50V		
C221, C222	N150F101J-5-IF	Capacitor	Ceramic	100pF	±5%	50V		
C225, C226	N153H222J-5-NL	Capacitor	Mylar	0.0022uF	±5%	100V		
R201, R202	N4705334J-2	Resistor	Carbon Film	330K	1/4W	±5%		
R221, R222	N4705471J-2	Resistor	Carbon Film	470	1/4W	±5%		
R235, R236	N4705681J-2	Resistor	Carbon Film	680	1/4W	±5%		
S202	N52003021-0-01	Switch	Slide, 4P2T	Phono/Line Switch				
LAMP								
LP701, LP702	N24500636-0	Lamp	Festoon	12V, 85mA				
R726	N47174R7J-1	Resistor	Metal Oxide	4.7	1/2W	±5%		
RELAY								
C501	N89100032-0	Capacitor	Safety, DL	0.0047uF	±20%	400 V		
RLY1	N45000110-0	Relay	12V DC, Taiko	DGX1-12M				

SYMBOL NO.	PART NUMBER	DESCRIPTION					REMARKS
R110	N4705104J-2	Resistor	Carbon Film	100K	1/4W	±5%	C AH
R111	N4705184J-2	Resistor	Carbon Film	180K	1/4W	±5%	
R112	N4705124J-2	Resistor	Carbon Film	120K	1/4W	±5%	
R113	N4705225J-2	Resistor	Carbon Film	2.2M	1/4W	±5%	
R115	N4705272J-2	Resistor	Carbon Film	2.7K	1/4W	±5%	
R116	N47562245-3-09	Resistor	Semi-fixed, Horizontal, 5mm	220K			
R117	N47564735-3-09	Resistor	Semi-fixed, Horizontal, 5mm	47K			
R118	N4705512J-1	Resistor	Carbon Film	5.1K	1/4W	±5%	
R119	N4705203J-2	Resistor	Carbon Film	20K	1/4W	±5%	
R120	N4705332J-2	Resistor	Carbon Film	3.3K	1/4W	±5%	
R121	N4705153J-2	Resistor	Carbon Film	15K	1/4W	±5%	
R123	N4705221J-2	Resistor	Carbon Film	220	1/4W	±5%	
R124	N4705123J-2	Resistor	Carbon Film	12K	1/4W	±5%	
R125	N4705333J-2	Resistor	Carbon Film	33K	1/4W	±5%	
R126	N4705472J-2	Resistor	Carbon Film	4.7K	1/4W	±5%	
R127	N47563335-3-09	Resistor	Semi-fixed, Horizontal, 5mm	33K			
R128	N4705332J-2	Resistor	Carbon Film	3.3K	1/4W	±5%	
R129, R130	N4705124J-2	Resistor	Carbon Film	120K	1/4W	±5%	
R129, R130	N4705823J-2	Resistor	Carbon Film	82K	1/4W	±5%	
R132	N4705153J-2	Resistor	Carbon Film	15K	1/4W	±5%	
R133, R134	N4705332J-2	Resistor	Carbon Film	3.3K	1/4W	±5%	
R135, R136	N4705472J-2	Resistor	Carbon Film	4.7K	1/4W	±5%	
R137, R138	N4705821J-2	Resistor	Carbon Film	820	1/4W	±5%	
R139, R140	N4705332J-2	Resistor	Carbon Film	3.3K	1/4W	±5%	
R141, R142	N4705393J-2	Resistor	Carbon Film	39K	1/4W	±5%	
R143, R144	N4705104J-2	Resistor	Carbon Film	100K	1/4W	±5%	
R146, R147	N4705101J-2	Resistor	Carbon Film	100	1/4W	±5%	
R150	N4705220J-2	Resistor	Carbon Film	22	1/4W	±5%	
R151	N4705103J-2	Resistor	Carbon Film	10K	1/4W	±5%	
R153, R154	N4705104J-2	Resistor	Carbon Film	100K	1/4W	±5%	
R155, R156	N4705682J-2	Resistor	Carbon Film	6.8K	1/4W	±5%	
R159	N4705103J-2	Resistor	Carbon Film	10K	1/4W	±5%	
R160	N4705220J-2	Resistor	Carbon Film	22	1/4W	±5%	
R161	N4705103J-2	Resistor	Carbon Film	10K	1/4W	±5%	
R162	N4705220J-2	Resistor	Carbon Film	22	1/4W	±5%	
R907	N4705823J-2	Resistor	Carbon Film	82K	1/4W	±5%	
R913	N4705225J-2	Resistor	Carbon Film	2.2M	1/4W	±5%	
R916	N4705472J-2	Resistor	Carbon Film	4.7K	1/4W	±5%	
R917	N4705103J-2	Resistor	Carbon Film	10K	1/4W	±5%	
R918	N4705101J-2	Resistor	Carbon Film	100	1/4W	±5%	
R919	N4705222J-2	Resistor	Carbon Film	2.2K	1/4W	±5%	
R920	N4705154J-2	Resistor	Carbon Film	150K	1/4W	±5%	
R921	N4705103J-2	Resistor	Carbon Film	10K	1/4W	±5%	
R922	N4705220J-2	Resistor	Carbon Film	22	1/4W	±5%	
R924	N4705103J-2	Resistor	Carbon Film	10K	1/4W	±5%	
R928	N4705104J-2	Resistor	Carbon Film	100K	1/4W	±5%	
R930	N4705683J-2	Resistor	Carbon Film	68K	1/4W	±5%	
R7001, R7002	N4705103J-2	Resistor	Carbon Film	10K	1/4W	±5%	
R7003, R7004	N4705103J-2	Resistor	Carbon Film	10K	1/4W	±5%	
R7005	N4705103J-2	Resistor	Carbon Film	10K	1/4W	±5%	
T3	N56002246-S	Coil	AM IF	5565105200			
T101	N56002256-S	Coil	FM, Primary	5565204300			
T102	N56002266-S	Coil	FM, Secondary	5565204400			
U101	N89100034-0	Tuner Module	Mitsumi	FE407-A16			
X102	N27030020-0	Ceramic Resonator		CSB456F11			
X909	N23000440-0	Crystal		7.2MHz 20ppm			
Z101, Z102	N27010546-1-0	Ceramic Filter		SFE10.7ML-A			
Z103	N27010066-0	Ceramic Filter		SFZ450G			
Z105, Z106	N56002236-S	Filter Coil	19kHz	10DFF01			

SYMBOL NO.	PART NUMBER	DESCRIPTION					REMARKS
DISPLAY							
C700	N150F104Z-5-IU	Capacitor	Ceramic	0.1uF	+80-20%	50V	
C701	N157C105Z-5-GM	Capacitor	Electrolytic	1uF	+80-20%	10V	
C702	N15CH220J-5-GG	Capacitor	Ceramic	22pF NPO	±5%	50V	
C706	N150F104Z-5-IU	Capacitor	Ceramic	0.1uF	+80-20%	50V	
C707	N150F681K-5-GG	Capacitor	Ceramic	680pF	±10%	50V	
C710	N15CH220J-5-GG	Capacitor	Ceramic	22pF NPO	±5%	50V	
CR701	N27030120-0	Ceramic Resonator		CSA4.91MG			
D701, D702	N48041480-1	Diode		1N4148			
D703, D704	N48041480-1	Diode		1N4148			
D705, D706	N48041480-1	Diode		1N4148			
D707	N48041480-1	Diode		1N4148			
D713	N37004509-Y	LED		2mm Yellow, FM Stereo			
D714, D715	N37004510-G	LED		2mm Green, Centre Tune, Tune			
D716	N37004509-Y	LED		2mm Yellow, Preset			
D717	N37004510-G	LED		2mm Green, Search			
D718	N37002489-G	LED		3mm Green, Standby			
D720	N48041480-1	Diode		1N4148			
I/R701	N89100033-0	Infrared Receiver, Kodenshi		HC-341F			
LCD701	N24600900-0	LCD		Varitronix Display			
Q701	N31303440-0	IC	TI Controller	NAD701-01			
Q702	N31303450-0	IC	Xicor EEPROM	X24C01			
Q703	N31303420-0	IC	Sanyo LCD Driver	LC7582A			
Q705, Q706	N4851815Y-5	Transistor		2SC1815-Y			
Q707, Q708	N4851815Y-5	Transistor		2SC1815-Y			
Q709, Q710	N4851815Y-5	Transistor		2SC1815-Y			
Q711, Q712	N4851815Y-5	Transistor		2SC1815-Y			
R701	N4705472J-1	Resistor	Carbon Film	4.7K	1/4W	±5%	
R702	N4705104J-1	Resistor	Carbon Film	100K	1/4W	±5%	
R704	N4705272J-1	Resistor	Carbon Film	2.7K	1/4W	±5%	
R706	N4705103J-1	Resistor	Carbon Film	10K	1/4W	±5%	
R707	N4705474J-1	Resistor	Carbon Film	470K	1/4W	±5%	
R708	N4705225J-1	Resistor	Carbon Film	2.2M	1/4W	±5%	
R709, R710	N4705202J-1	Resistor	Carbon Film	2K	1/4W	±5%	
R711	N4705223J-1	Resistor	Carbon Film	22K	1/4W	±5%	
R713, R714	N4705561J-1	Resistor	Carbon Film	560	1/4W	±5%	
R715	N4705561J-1	Resistor	Carbon Film	560	1/4W	±5%	
R716, R717	N4705103J-1	Resistor	Carbon Film	10K	1/4W	±5%	
R718, R719	N4705103J-1	Resistor	Carbon Film	10K	1/4W	±5%	
R720, R721	N4705103J-1	Resistor	Carbon Film	10K	1/4W	±5%	
R722	N4705474J-1	Resistor	Carbon Film	470K	1/4W	±5%	
R723, R724	N4705103J-1	Resistor	Carbon Film	10K	1/4W	±5%	
R725	N4705103J-1	Resistor	Carbon Film	10K	1/4W	±5%	
R728	N4705332J-1	Resistor	Carbon Film	3.3K	1/4W	±5%	
R740	N4705103J-1	Resistor	Carbon Film	10K	1/4W	±5%	
R744	N4705105J-1	Resistor	Carbon Film	1M	1/4W	±5%	
SW702	N52003011-0-01	Switch	Tact, 4-Pin	mode			
SW709	N52003011-0-01	Switch	Tact, 4-Pin	store			
CHASSIS							
P501, P502	N21035802-0	AC Outlet		125V 15A UL SMK			AH  AH
R500	N4707275J-1	Resistor	Carbon Film	2.7M	1/2W	±5%	
S502	N52003031-0 -01	Switch	Slide	5.2T22S28G10(TH), Impedance			

EXPLODED VIEW



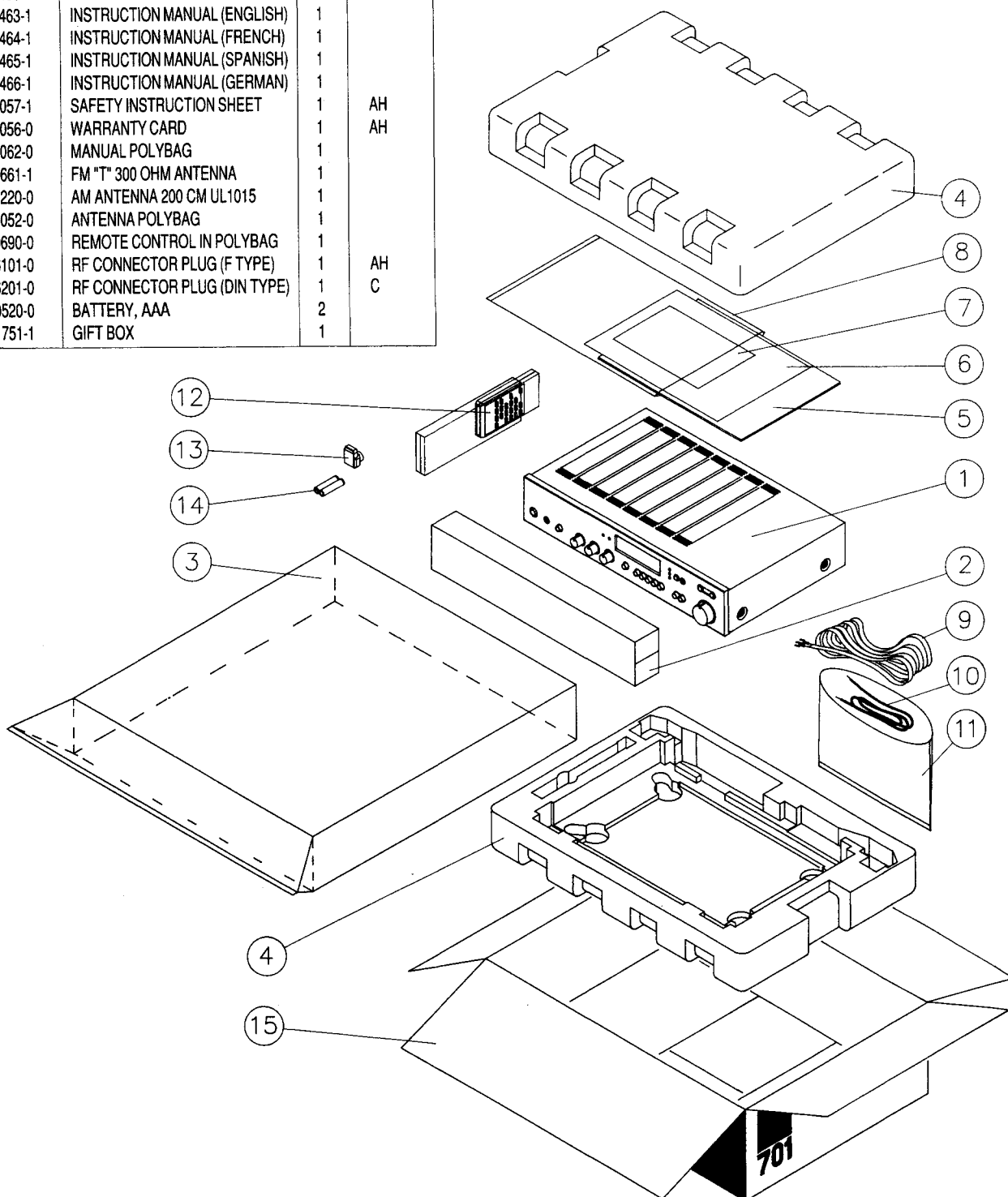
EXPLODED VIEW PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	N14616511-0	Front Panel	1
2	N24360901-0	Knob, 35 Dia., VOLUME	1
3	N24361101-0	Series Indicator	4
4	N24361001-0	Knob, 18.5 Dia., BASS, TREBLE, BALANCE	3
5	N3714091B-0	Molded Window	1
6	N2436140B-0	Button, 9.5 Dia., Gloss, POWER	1
7	N24361801-0	Spring, Power Button	1
8	N24361601-0	Button, 7.0 Dia., Textured, Black, MODE	1
9	N2436170B-0	Button, 7.0 Dia., Textured, Red, STORE	1
10	N24361503-0	Button, 8.0 Dia., Textured, TUNE	2
11	N24361901-0	Spring, Button	1
12	N41519371-1	Rubber Foot	4
13	N24361301-0	Button, 8 Dia., Long	9
14	N14022060-0	Plate, Front	1
15	N41321031-0	Bracket, Tuner PCB 1mm	1
16	N14022070-0	Plate, Left	1
17	N14022080-1	Plate, Back, C	1
	N14022090-1	Plate, Back, AH	1
18	N14022050-0	Plate, Right	1
19	N14022030-1	Cover, Bottom	1
20	N14022040-0	Bracket, Middle	1
21	N14022020-0	Cover, Top	1
22	N54000651-0	Heatsink, Main	1
23	N54000661-0	Heatsink, Fin	4
24	N54000641-0	Heatsink, Pre-amp Regulator	2
25	N54000671-0	Heatsink, Power Envelope	2
26	N17110361-1	PCB, Main amp	1
27	N17110351-1	PCB, Tuner	1
28		PCB, Volume control (Part of Item 27)	1
29		PCB, Headphone (Part of Item 27)	1
30		PCB, Power switch (Part of Item 27)	1
31		PCB, Tune (Part of Item 27)	1
32		PCB, NAD link (Part of Item 27)	1
33		PCB, Speaker terminal (Part of Item 27)	1
34		PCB, Phono/line switch (Part of Item 27)	1
35		PCB, Lamp (Part of Item 27)	1
36		PCB, Relay (Part of Item 27)	1
37	N17110371-1	PCB, Display	1
38	N18062095-0	Transformer, EI67	1
39	N18062096-0	Transformer, EI35	1
40	N47503506-2	VR-BASS 50K-CX2	1
41	N47503486-0	VR-TREBLE 10K-CX2	1
42	N47503496-0	VR-BALANCE 20K-W	1
43	N52002081-0-01	Push Button Sw. 2P2J Alps 1 Key, EXTRA SPEAKERS	1
44	N52002071-0-01	Push Sw. 12.5mmX12.5mm 6 Keys, INPUT SELECTOR	1
45	N52002041-0-01	Push Sw. 2S2S(SPUF21)Alps 2 Keys, MONO/LOUDNESS	1
46	N52003031-0-01	Slide Switch, 5.2T22S28G10(TH), IMPEDANCE	1
47	N21035802-0	AC Outlet, AH	2
48	N70093110-0	AC Cord (SEMKO), C	1
49	N70093100-0	AC Cord 18AWGX2 Polarized UL/CSA, AH	1
50	N41519461-0	Strain Relief Bushing	1
51	N41519431-0	Plate, Switch, 0.5PVC Clear	1
52	N41321021-0	Bar, Shorting	2
53		Stud (Part of Thumbscrew Assy N41321181-0)	1
54		Bushing (Part of Thumbscrew Assy)	1
55		Washer (Part of Thumbscrew Assy)	1
56		External Tooth Washer (Part of Thumbscrew Assy)	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
57		Soldering Tag (Part of Thumbscrew Assy)	1
58		M3.5X0.5P, Hex Nut (Part of Thumbscrew Assy)	1
59		M2.6X0.45X5, Black (Part of Item 60)	1
60	N41321041-0	Post-PCB Assy, Brass M2.6X0.45P	1
61		Split Washer (Part of Item 60)	1
62		M2.6 Hex Nut (Part of Item 60)	1
63	N28422865-0	Washer, D2.8X6.5X0.5	5
64	N41519391-0	Support, Circuit Board	3
65	N41519361-0	Cushion, Transformer	4
66	N41519381-0	Foam Sheet	1
67	N41519411-0	Cushion, 130X10X1mm	2
68	N14541451-0	Plate Shield, 0.4mm	1
69		Hex Nut, VR	4
70		Washer, VR	4
71	N28361210-0	M12X1.0P, Hex Cap	1
72	N28421218-0	Metal Washer, ID=12.0, OD=18.0	1
73	N24600900-0	LCD, Varitronix Display	1
74	N37141006-0	Diffuser Lens, 1mm PC Sheet	1
75	N3714110B-0	Lee Filter, NO217, Blue Diffuser	1
76	N3714120B-0	Lee Filter, NO224, Blue Frost	1
77	N21502171-1	Lightbox (White Reflector)	1
78	N41519441-0	Hinge	2
79	N89100031-0	T.S-110 PTH9M04BC471TS2F333	1
80	N41519451-0	Power Terminal Cover Plate	1
81	N52002091-0-01	Soft Clipping Switch	1
82	N41321171-0	Soldering Tag	2
83	N41317701-0	Soldering Tag	1
84	N29243006-3000	T3X6mm, Self Tapping	24
85	N29243008-3000	T3X8mm, Self Tapping	11
86	N29443006-3000	Self Tapping Screw, 3X6mm	18
87	N29043008-3000	M3X0.5PX8mm, Black	2
88	N29003006-4010	M3X0.5PX6mm with Flat Washer	1
89	N29443006-4000	Self Tapping Screw, T3X6mm, Nickel	3
90	N29043004-4000	M3X0.5PX4mm, Nickel	1
91	N29043006-3000	Machine Screw, M3.0X6mm	2
92	N29043006-4000	M3x0.5PX6mm, Nickel	6
93	N29043008-4000	Machine Screw, M3X0.5PX8, Nickel	11
94	N29043012-4020	Machine Screw, M3X0.5Px12 with Spring Washer	8
95	N29043012-4000	Machine Screw, M3X0.5PX12	2
96	N29004006-3010	M4X0.7PX6mm with Flat Washer	8
97	N29042004-3000	Machine Screw, M2X0.4PX4, Black	2
98	N28363005-0	M3.0X0.5P Hex Nut	18
99	N28423210-0	Washer, ID=3.2, OD=10	2
100	N28450321-0	M3 Teeth Washer, External Type	8
101	N41519421-0	Tube Insulation	8
102	N54000681-0	Regulator Heatsink	1
103	N31003011-0	Mica Sheet (MJ2955)	4
104	N31003041-0	Mica Sheet TO-126	2

PACKING DIAGRAM

ITEM	PART NUMBER	NAME	QTY.	REMARKS
1		COMPONENT	1	
2	N14971082-0	EPE BAG	1	
3	N14971072-0	UNIT POLYBAG	1	
4	N14901483-0	POLYFOAM	2	
5	N43013450-1	INSTRUCTION MANUAL COVER	1	
	N43013463-1	INSTRUCTION MANUAL (ENGLISH)	1	
	N43013464-1	INSTRUCTION MANUAL (FRENCH)	1	
	N43013465-1	INSTRUCTION MANUAL (SPANISH)	1	
	N43013466-1	INSTRUCTION MANUAL (GERMAN)	1	
6	N30301057-1	SAFETY INSTRUCTION SHEET	1	AH
7	N30301056-0	WARRANTY CARD	1	AH
8	N14971062-0	MANUAL POLYBAG	1	
9	N21070661-1	FM "T" 300 OHM ANTENNA	1	
10	N70093220-0	AM ANTENNA 200 CM UL1015	1	
11	N14970052-0	ANTENNA POLYBAG	1	
12	N89000690-0	REMOTE CONTROL IN POLYBAG	1	
13	N21036101-0	RF CONNECTOR PLUG (F TYPE)	1	AH
	N21036201-0	RF CONNECTOR PLUG (DIN TYPE)	1	C
14	N40600520-0	BATTERY, AAA	2	
15	N14501751-1	GIFT BOX	1	



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SERVICE MANUAL

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701 AM/FM STEREO RECEIVER

NAD ELECTRONICS LTD
LONDON

Printed by: Schaltungsdienst Lange, Berlin (GERMANY)