

Service
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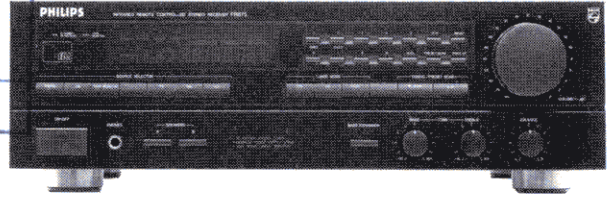
10 FEB. 1992

ARCHIEF

Techn.

Art. Chef

HERDRUK



Service Manual

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

Documentation Technique Service Dokumentation Documentazione di Servizio Huolto-Ohje Manual de Servicio Manual de Servicio



GB

Subject to modification
4822 725 22979
Printed in The Netherlands

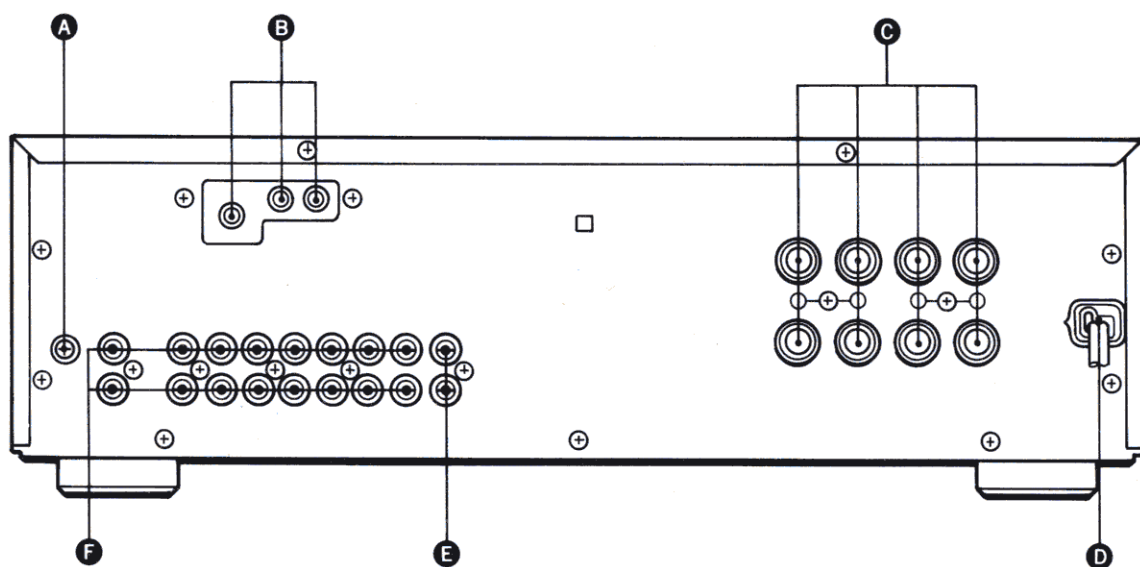
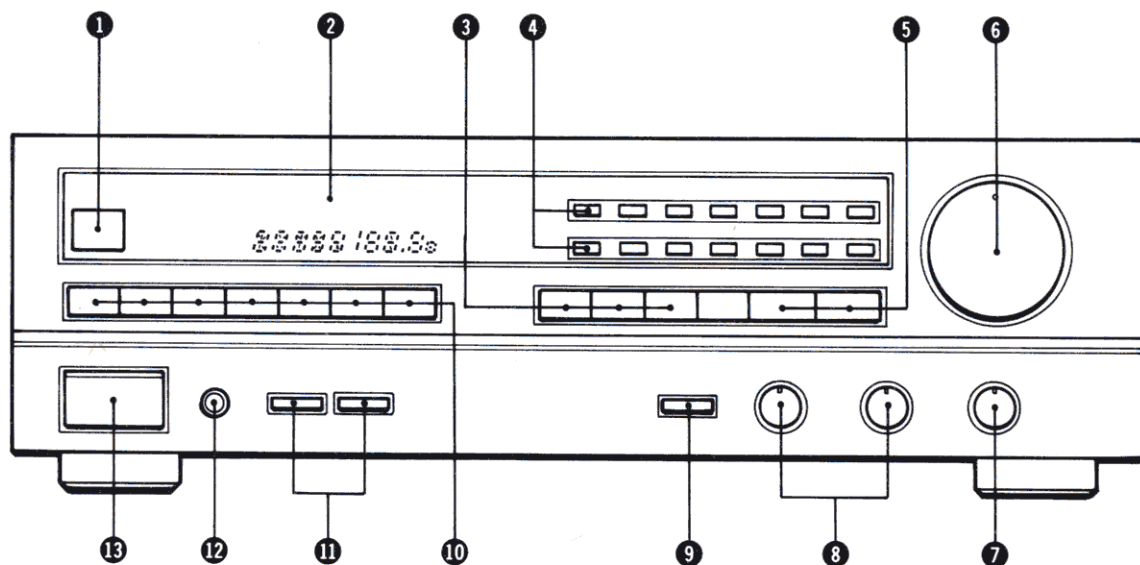
PHILIPS

Published by Service
Consumer Electronics

CS 35 849

SPECIFICATION

General		Nominal value	Typical value
Mains voltage		: 220V	: 220V
Mains frequency		: 50Hz	: 50Hz
Power consumption		: 280W	: 250W
Dimensions (WxHxD)		: 420 x 110 x 380 mm	: 420 x 110 x 380 mm
Weight		: 9.5 kg	: 9.5 kg
Tuner: FM section (at 75Ω)			
Tuning range		: 87.5 MHz to 108.0 MHz	: 87.5 MHz to 108.0 MHz
Aerial inputs		: 75Ω coaxial	: 75Ω coaxial
Sensitivity	Mono	: 17.3 dBf (2.0 μV) 3% Distortion (75 kHz dev.)	: 13.5 dBf (1.3 μV) 3% Distortion (75 kHz dev.)
Selectivity		: 50 dB at ±300 kHz bandwidth	: 60 dB at ±300 kHz bandwidth
Frequency response	30 Hz — 15 kHz	: +1.0, —4.0 dB	: +0.5, —2.0 dB
Suppression	IF-AM	: 70 dB —45 dB	: 80 dB —55 dB
	pilot tone	: 40 dB	: 50 dB
	image frequency	: 65 dB	: 75 dB
Channel separation		: 30 dB 1 kHz	: 40 dB 1 kHz
Distortion T.H.D	mono	: 0.4%	: 0.2%
	stereo	: 1.0%	: 0.5%
Signal/noise ratio	mono	: 71 dB	: 76 dB
	stereo	: 63 dB	: 68 dB
Autom-stop threshold (Muting)		: 23.3 — 32.1 dBf (4 — 11 μV)	: 27.2 dBf (6.3 μV)
Output		: 660 — 1300 mV/2.1 kΩ 350 — 800 mV/3.3 kΩ	: 940 mV/2.1 kΩ 500 mV/3.3 kΩ
Tuner: AM section			
Wave ranges		: 531 kHz to 1602 kHz	: 531 kHz to 1602 kHz
Sensitivity	(Loop antenna)	: 800 μV/m 10% Distortion	: 500 μV/m 10% Distortion
Selectivity	(Loop antenna)	: 20 dB at ±9 kHz bandwidth	: 30 dB at ±9 kHz bandwidth
Suppression	IF (Loop antenna)	: 50 dB	: 60 dB
	image frequency	: 35 dB	: 40 dB
	(Loop antenna)		
Output	(Loop antenna)	: 200 — 400 mV	: 280 mV
Tuner: Digital section			
Tuning steps	FM/AM	: 50 kHz/9 kHz	: 50 kHz/9 kHz
Presets	FM+AM	: 30 random sequential	: 30 random sequential
Audio			
Output power		: 60W	: 65W
Distortion			
T.H.D.		: ≤ 0.09% at 20 Hz — 20 kHz	: ≤ 0.05% at 20 Hz — 20 kHz
Intermodulation		: ≤ 0.09% at 60/7000 Hz 4:1 (IHF)	: ≤ 0.01% at 60/7000 Hz 4:1 (IHF)
Frequency characteristic			
Phono input	tone control	: from 20 Hz — 20 kHz ±2.0 dB (RIAA)	: from 20 Hz — 20 kHz ±0.5 dB (RIAA)
Other inputs	neutral	: from 20 Hz — 20 kHz ±2 dB	: from 10 Hz — 30 kHz ±2 dB
		: at 100 Hz ≥ +8 dB to ≤ -8 dB	: at 100 Hz +10 dB to -10 dB
		: at 10 kHz ≥ +8 dB to ≤ -8 dB	: at 10 kHz +10 dB to -10 dB
Signal/noise ratio			
weighted (A-curve)			
Phono input		: ≥ 70 dB	: ≥ 75 dB
Other inputs		: ≥ 78 dB	: ≥ 82 dB
Channel separation		: at 1000 Hz ≥ 40 dB	: at 1000 Hz ≥ 45 dB
		: at 10 kHz ≥ 30 dB	: at 10 kHz ≥ 35 dB
Input sensitivity/Input impedance			
Audio			
Phono		: 4.4 — 2.8 mV/47 kΩ	: 3.5 mV/47 kΩ
CD/TV/CDV/Aux		: 175 — 280 mV/36 kΩ	: 220 mV/36 kΩ
Tape/VCR		: 175 — 280 mV/36 kΩ	: 220 mV/36 kΩ
Output level/Output impedance			
Tape (Audio)		: ≥ 250 mV/400Ω (Phone 5.0 mV 1 kHz input)	: 300 mV/400Ω (Phono 5.0 mV 1 kHz input)



CONNECTIONS AND CONTROLS

1	IR Sensor	QU04	A	Ground terminal	J031
2	Display	VU01	B	Antenna terminal	J101
3	Tuner mode	SU08~SU10	C	LS output	JW01
4	Function switch	SU14~SU27	D	Mains cord	W001
5	Tuning/Reset scan switch	SU12, SU13	E	Remote in/out	JV04
6	Volume control	RG01	F	Audio input/output	J401
7	Balance control	RV01			JV01~JV03
8	Tone control	RE19, RE20			
9	Bass EQ	SE01			
10	Source select switch	SU01~SU06			
11	LS switch	ST01			
12	Headphone socket	JT01			
13	Mains switch	S901			

ADJUSTMENTS

- During FM adjustment, use the band-pass filter (B.P.F, 200 Hz to 15 kHz) specified by IHF. Particularly, be sure to use the filter with stereo distortion and separation adjustment. (The attenuation at 19 kHz should be no less than 30 dB.)
- Inner adjustment of the FM front end pack (A101) of this unit is difficult. (RF, OSC)
- Inductance of the AM OSC coil (LA02) is preset. Therefore, please do not turn the core of this coil.

• T.R POINT ME (tracking point memory) mode.

From power OFF (backup mode), when the power switch is pressed ON while pressing the up and MEMO key simultaneously, the T.R POINT ME mode is called. Frequencies to be memorized are as follows.

	P1	P2	P3	P4	P5	P6	P7	P8
FM	90.0 MHz	98.0 MHz	106.0 MHz	87.5 MHz				
AM					603 kHz	999 kHz	1404 kHz	531 kHz

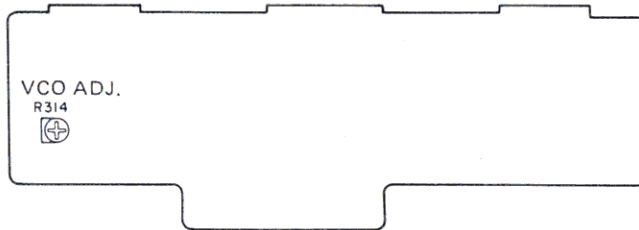
	P9	P10	P11	P12-P30	
FM					
AM	531 kHz	531 kHz	531 kHz	531 kHz	

• Adjustment of FM MPX VCO

The part to be adjusted: R314

- Set the frequency and output of the signal generator at 98 MHz and 500 μ V (54 dB)/75 ohms respectively and synchronize the set to them.
- After confirming that the "TUNED" indicator in FL display is not turned off when you set FM MODE SWITCH in AUTO STEREO position (AUTO is alight), turn off the modulation of the signal generator.
- After connecting a frequency counter to the test point, UP15, adjust R314 so that the frequency counter shows 228 (± 0.05) kHz.

P304



FM IF

SK... WAVE RANGE SWITCH	→ SIGNAL	TO TO	DISPLAY TUNE IN	DETUNE	ADJUST	OSCILLOSCOPE	INDICATOR
FM SU08 Mono SU10	98 MHz Mod. 1 kHz Δf 75 kHz (Mono) Low level output	J101			A101-L8	JV02 (Tape output) Symmetrical	

FM Distortion

FM SU08	98 MHz Mod. 1 kHz Δf 40 kHz (Mono) Output 65.2 dBf (500 μ V)	J101		L201		R206 ± 0 mV
				L202 (L201)		JV02 (Tape output) Distortion Min.
	98 MHz Mod. 1 kHz Δf L+R 40 kHz Pilot 6 kHz Output 65.2 dBf (500 μ V)			A101-L8		

Stereo Separation

FM SU08	98 MHz Mod. 1 kHz Δf L+R 40 kHz Pilot 6 kHz Output 65.2 dBf (500 μ V)	J101		R301	JV02 (Tape output) Separation Max.
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Muting Level

FM SU08 FM mode switch SU10 (Auto indicator lights on)	98 MHz Mod. 1 kHz Δf 75 kHz Output 27.2 dBf (6.3 μ V)	J101		R211	VU01 1 TUNED LIGHTS ON
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AM IF

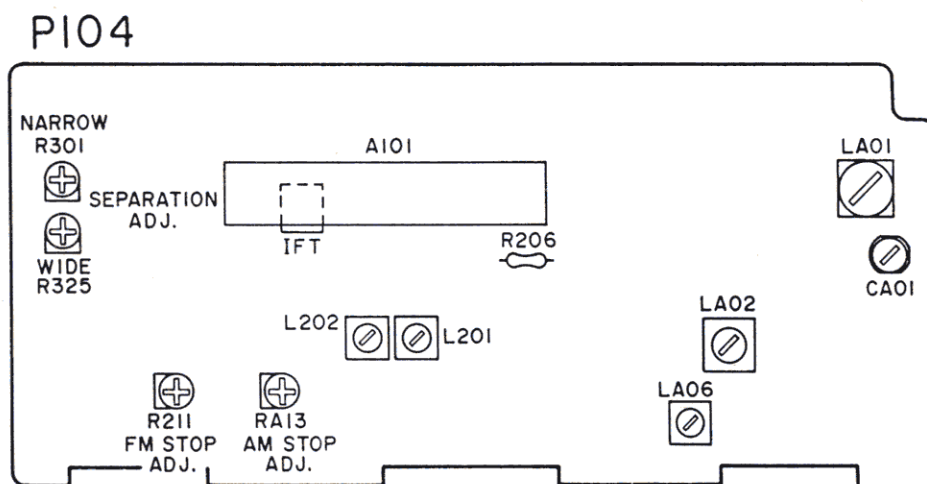
AM SU09	999 kHz Mod. 400 Hz 30% Low level output	Loop ant.		LA06	JV02 (Tape output) Output Max.
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AM RF

AM SU09	603 kHz	Loop ant.		LA01	JV02 (Tape output) Output Max.
	1404 kHz			CA01	

- 1 By turning R211, goes off the tuned of VU01, and then adjust it by turning a little R210 so that the tuned lights on again.

Adjustment Positions and Test Points



Idling Current

SK... SWITCH	 SIGNAL	 TO	 VOLUME	 ADJUST	 OSCILLOSCOPE	 METER INDICATOR
			Min.	Lch R719		Lch R737 2
				Rch R720		Rch R738 2

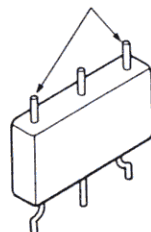
- Before switching the power ON, set the Master Volume control to the minimum position and the Balance and Tone controls to the center positions. Then, rotate the semi-fixed resistors R719 (L CH) and R720 (R CH) on the PC board PV04 fully clockwise.
- Connect a digital voltmeter, set for the DC voltage input to the pertinent test points (the marked ones of R737-R738) on the PC board PV04. (Positive: Rear side, Negative: Front side)
- After the completion of the above setup. Switch the power ON and adjust the semi-fixed resistors R719 (L CH) and R720 (R CH) on the PC board PV04 according to the reading of the digital voltmeter. The setting values are 6 ~ 7.6 mV (16.7 ~ 20 mA) of the both channels.

Please refer to the table below.

After Power ON

20 sec later	2 mV
1 min later	4 mV
More than 5 min	6 ~ 7.6 mV

Measurement point



R737/R738

Microprocessor and FL operation check: program mode FL segment check

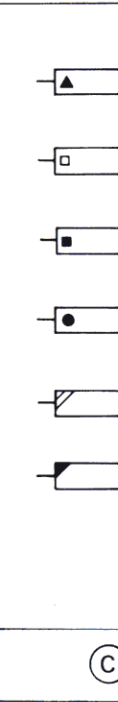
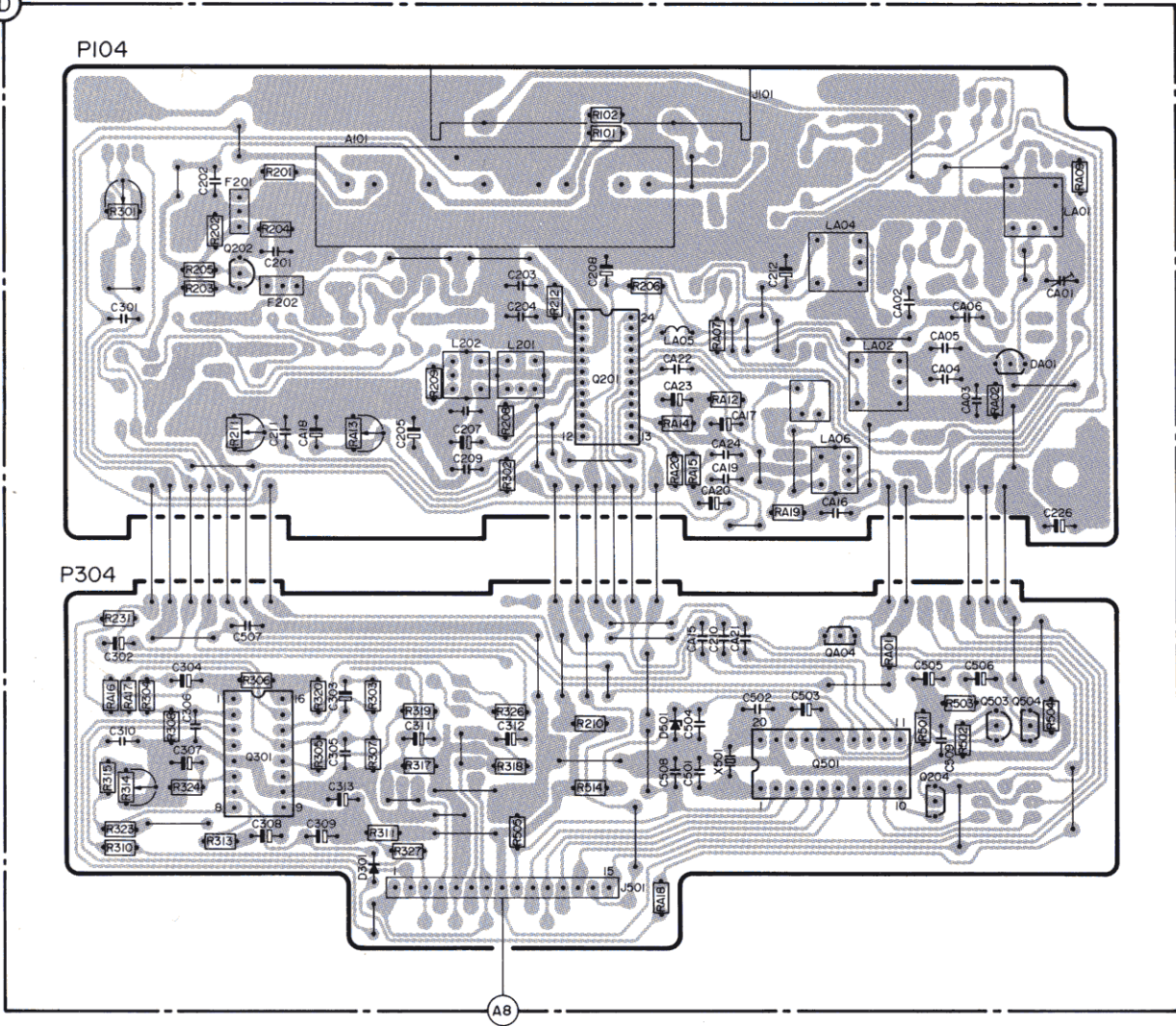
- This program is to check each FL segment for its lighting.
 - When the test mode is entered, microprocessor's MUTE OUT becomes "HIGH" to apply muting to the unit itself. No change occurs in any other setting.
 - At first, every segment is aligned, for 3 seconds.
- Service mode (input selector check)
 - This program is to check the input selector, etc. of the unit itself for functioning.
 - Microprocessor's MUTE OUT is made "LOW".
 - In a procedure shown in the following, each object is subject to execution of check for 3 seconds, and operation shifts to the next one. Then, operation starts at step 1.
 - At the time of object change, muting is applied at the aforesaid timing.
 - When the final step is executed, operation returns to step 1 to repeat.
 - When the  key is pressed, operation shifts to the next step. However, in this case, any continuous pressure of this key is not accepted. Operation is stopped by the  key and is resumed by the  key. Either is always accepted.

Step	Function	Notes
1	FM	FM mode: Auto, last frequency (initial)
2	FM	FM mode: Mono, last frequency (initial)
3	PHONO	
4	CD	
5	TAPE	
6	TV	
7	CDV	
8	VCR	

WIRING DIAGRAM

	R301	R201~R205	R209	R212 R102 R101	R206	RA07	RA09	
R	R315 R314 R231	R211	R320 R313 R303 R319 R317	R208 R302	R210	RA14 RA20 RA15 RA12		R
	R323 R310 RA16 RA17 R304 R308 R324 R313 R306 R305 R307 R311 R327		R326 R318 R505	R514	RA18	RA19	RA01 R501~R503 R504	
C	C301	C202	C201	C205~C207 C209 C203 C204	C208	CA22~CA24 CA20 CA19 CA17 C212	CA03~CA06	C
	C302	C304	C507 C211 CA18 C303			C504 CA15 C210 CA21	CA16 CA02	CA01
	C310	C306~C309	C305 C313	C311	C312	C508 C501	C502 C503	C505 C509 C506 C226
Q		Q202			Q201		QA04	Q
		Q301					Q501	
D			D301				Q204 Q503 Q504	DA01
A-F-L-X	F201 F202	A101	L202 L201		D501	LA05 X501 FA02	LA06 LA04 LA02	LA01 A-F-L-X

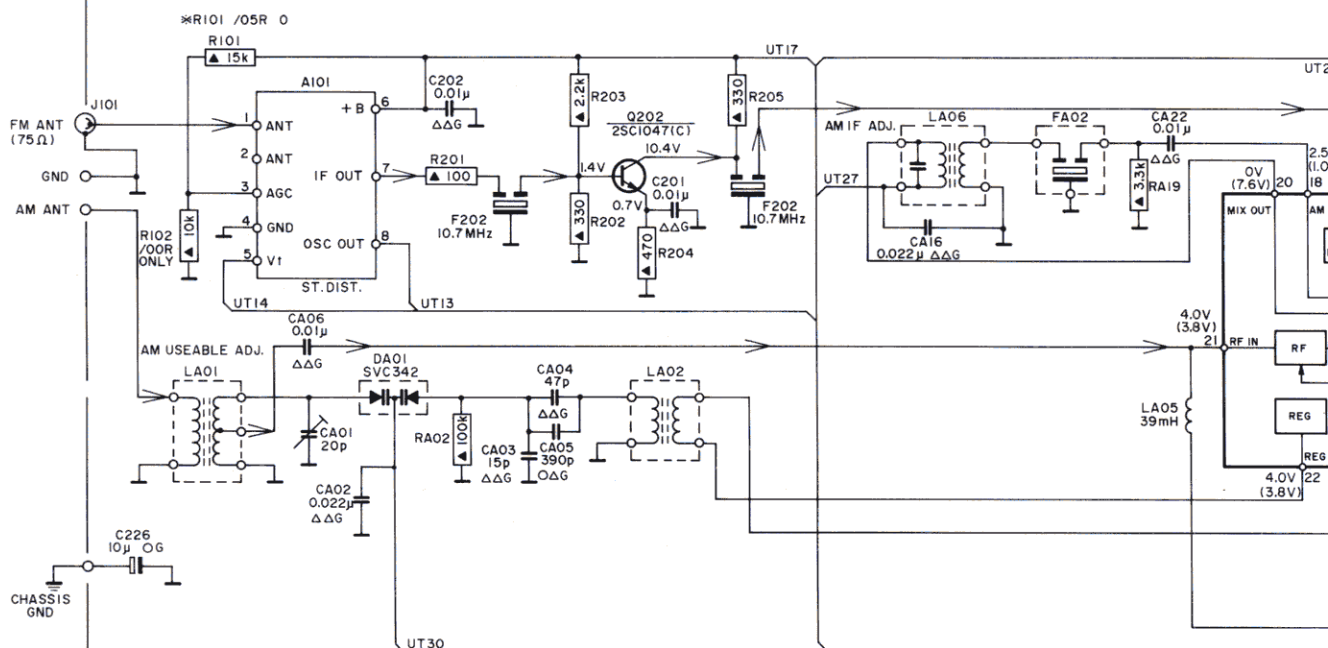
COMPONENT SIDE VIEW



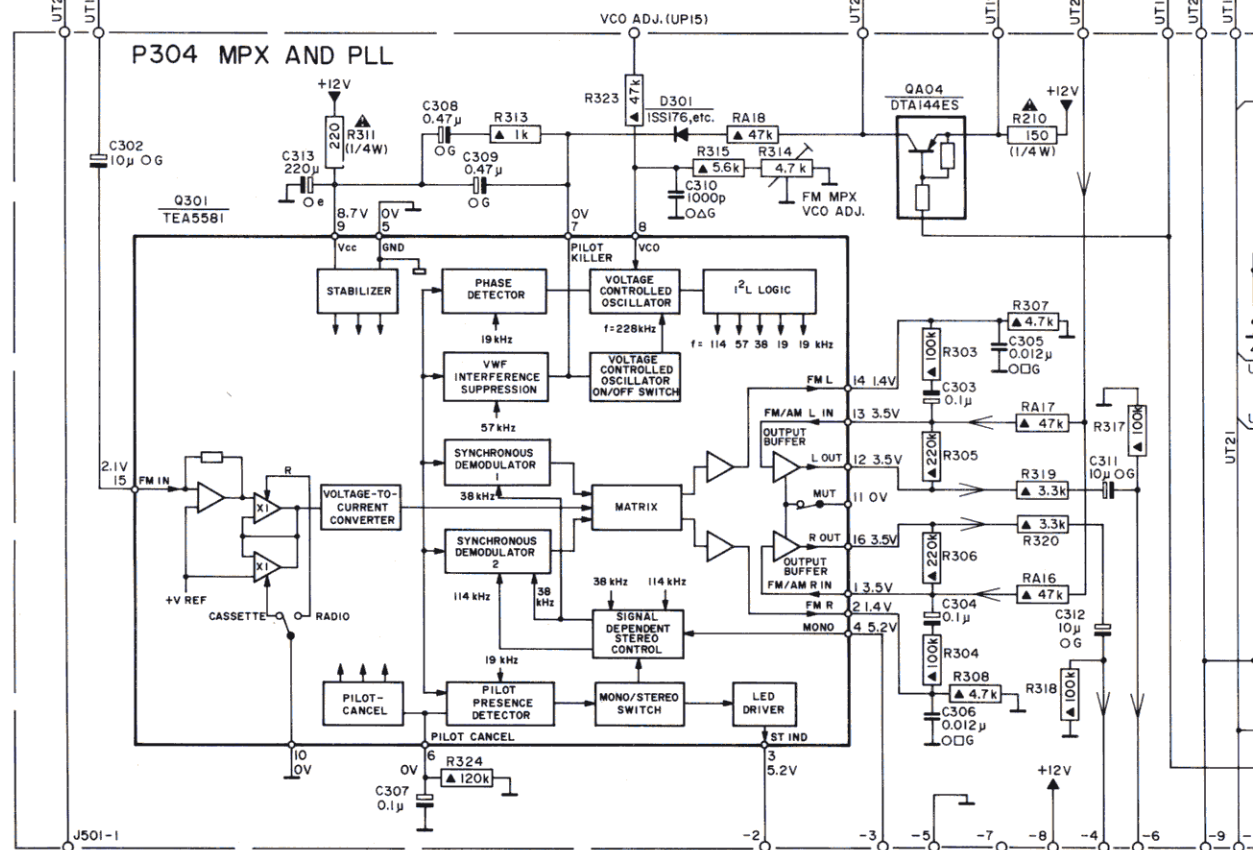
 Carbon film 0.125 W or 0.2 W 70°C 5%  Carbon film 0.25 W or 0.33 W 70°C 5%  Metal film 0.25 W or 0.33 W 70°C 5%  Carbon film 0.5 W 70°C 5%  Carbon film 0.67 W 70°C 5%  Carbon film 1 W or 1.15 W 70°C 5%	 Ceramic plate Tuning ≤ 120 pF NP.0 2% Others -20/+80%  Polyester flat foil 10%  Metalized polyester flat film 10%  Polyester flat foil small size (Mylar) 10%  Polystyrene film/foil 1%  Tubular ceramic  Miniature single  Subminiature tantalum $\pm 20\%$	*a = 2.5 V b = 3.15 V or 4 V c = 6.3 V d = 10 V e = 16 V f = 25 V g = 40 V h = 63 V j = 100 V l = 125 V m = 150 V n = 160 V q = 200 V r = 250 V s = 300 V t = 350 V u = 400 V v = 500 V w = 630 V x = 1000 V A = 1.6 V B = 6 V C = 12 V D = 15 V E = 20 V F = 35 V G = 50 V H = 75 V I = 80 V
 Chip component		

R	R102 R101	RA02	R201 ~ R205	RA19
		R311	R324 R313	R323 R315 RA18 R314 R303 ~ R308 R210 RA17 RA16 R317 ~ R320
C	C226 CA01 ~ CA06	C202	C201	CA16 CA22
	C302	C313 C307	C308 C309	C310 C303 ~ C306 C312 C311 C50
O	Q301		Q202	QA04
D		DA01		D301
A-F-L-X	LA01 A101	F202	LA02 F202	LA06 FA02 LA05

PI04 FRONT-END AND IF

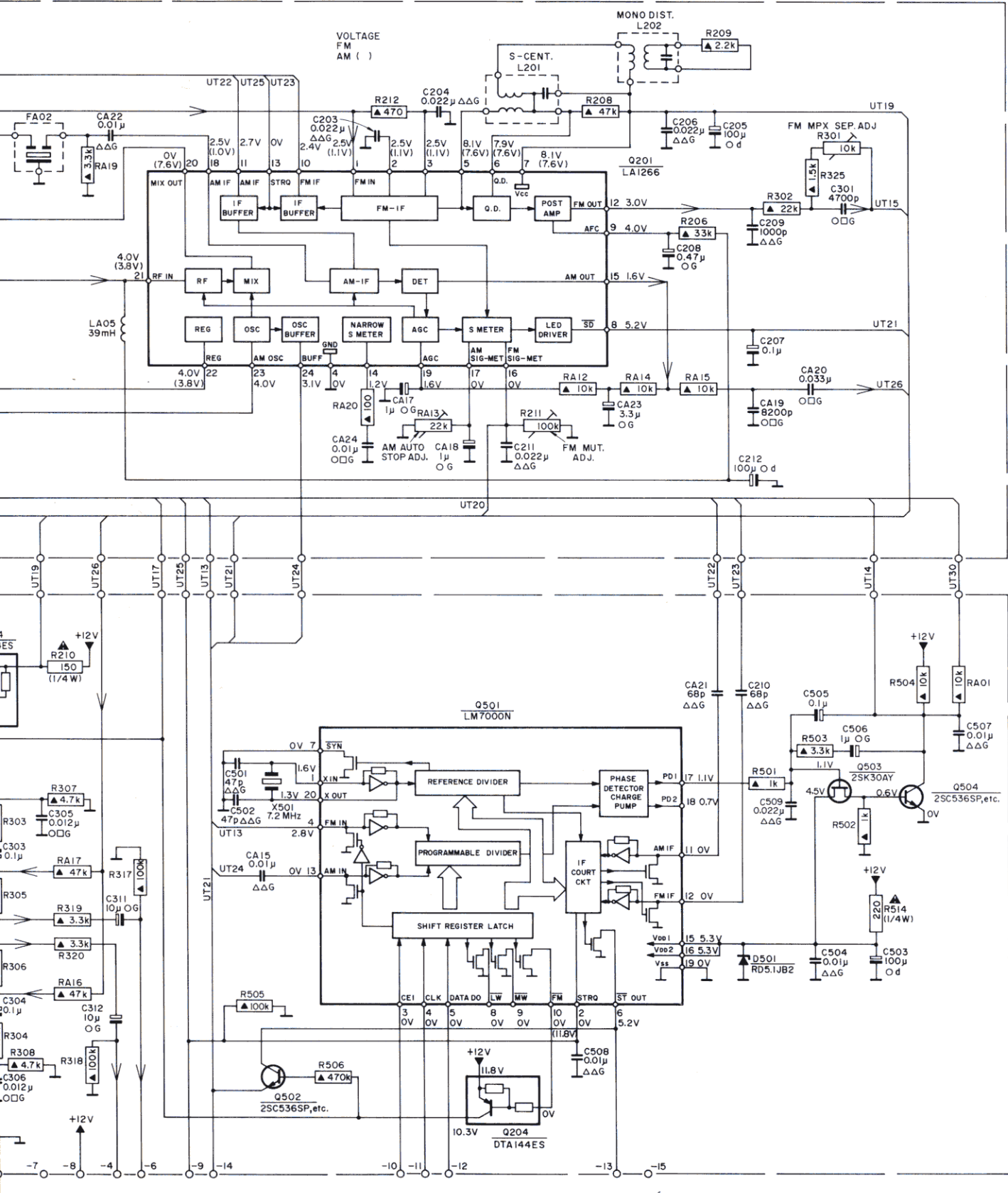


P304 MPX AND PLL



SCHEMATIC DIAGRAM

RA19	RA20	R212	RA13	R211	RA12	R208	RA14	R206	RA15	R209	R302	R325	R301	
~R308 R210 RA17 RA16 R317~R320	R505	R506	C203 CA24 CA17	C204 CA18	C211	CA23	C205~C209	C212 CA19 CA20	C301	R501	R503	R502	R514	R504 RA01
CA22														
C303~C306 C312 C311	C501 C502 CA15				C508		CA21	C210	C509	C503~C507				
	Q502		Q501	Q204		Q201				Q503	Q504			
FA02	LA05	X501		L201		L202			D501					
														A-F-L-X

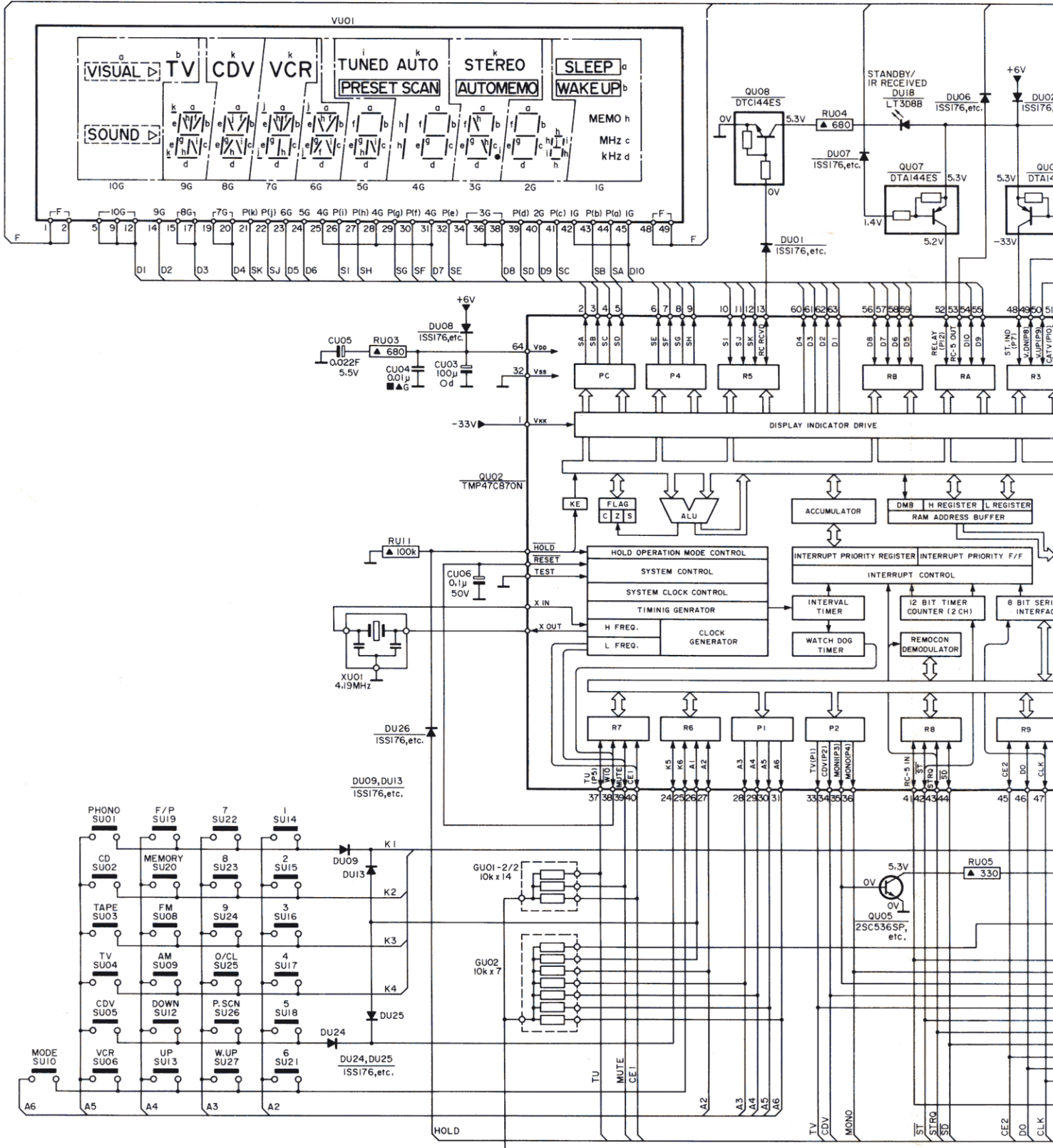


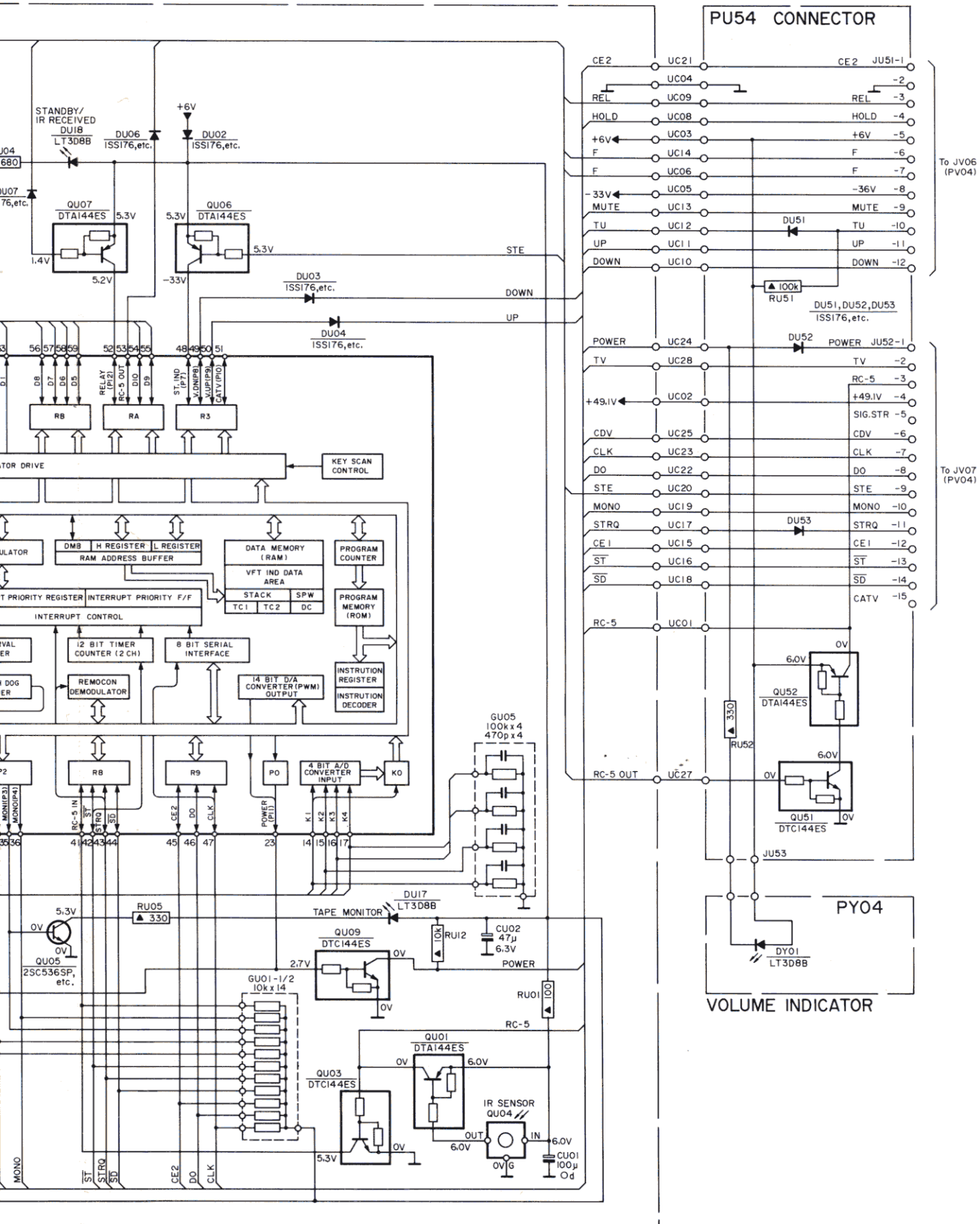
To PV04 (JV05)

SCHEMATIC DIAGRAM

R	RU03 RU11										RU04										RU05									
C	CU05 CU04 CU03 CU06																													
Q	QU02										QU08										QU05 QU07									
D	DU24 DU09 DU13 DU25 DU26 DU28										DU01 DU07										DU18 DU06									
G-S-V-X	SU01~SU06 SU08~SU10 SU12~SU20 SU22~SU27										VU01 XU01										GU01-2/2 GU02									

PU04 μ -COM, TACT SW. AND FL.

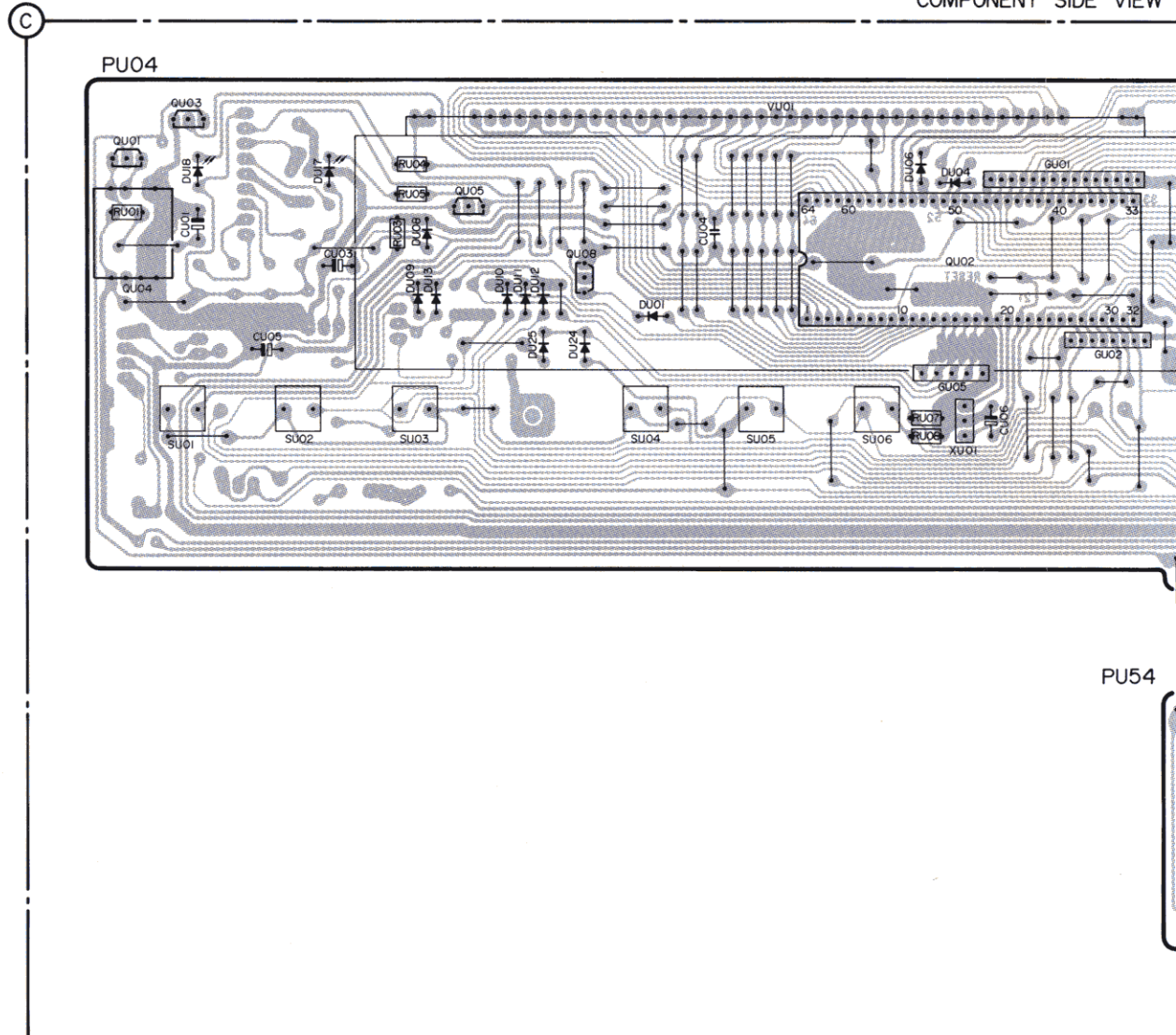




WIRING DIAGRAM

R - G	RU01	RU03 ~ RU05					RU07 RU08 GU05			GU01	GU02
C	CU01	CU05	CU03	CU04			CU06				
Q	QU01 QU04 QU03	QU05			QU08	QU02					
D	DU18	DU17	DU09 DU08 DU13	DU10	DU12 DU25	DU01	DU06		DU04		
S - V - X	VU01										
	SU01	SU02	SU03	SU04			SU05	SU06	XU01		

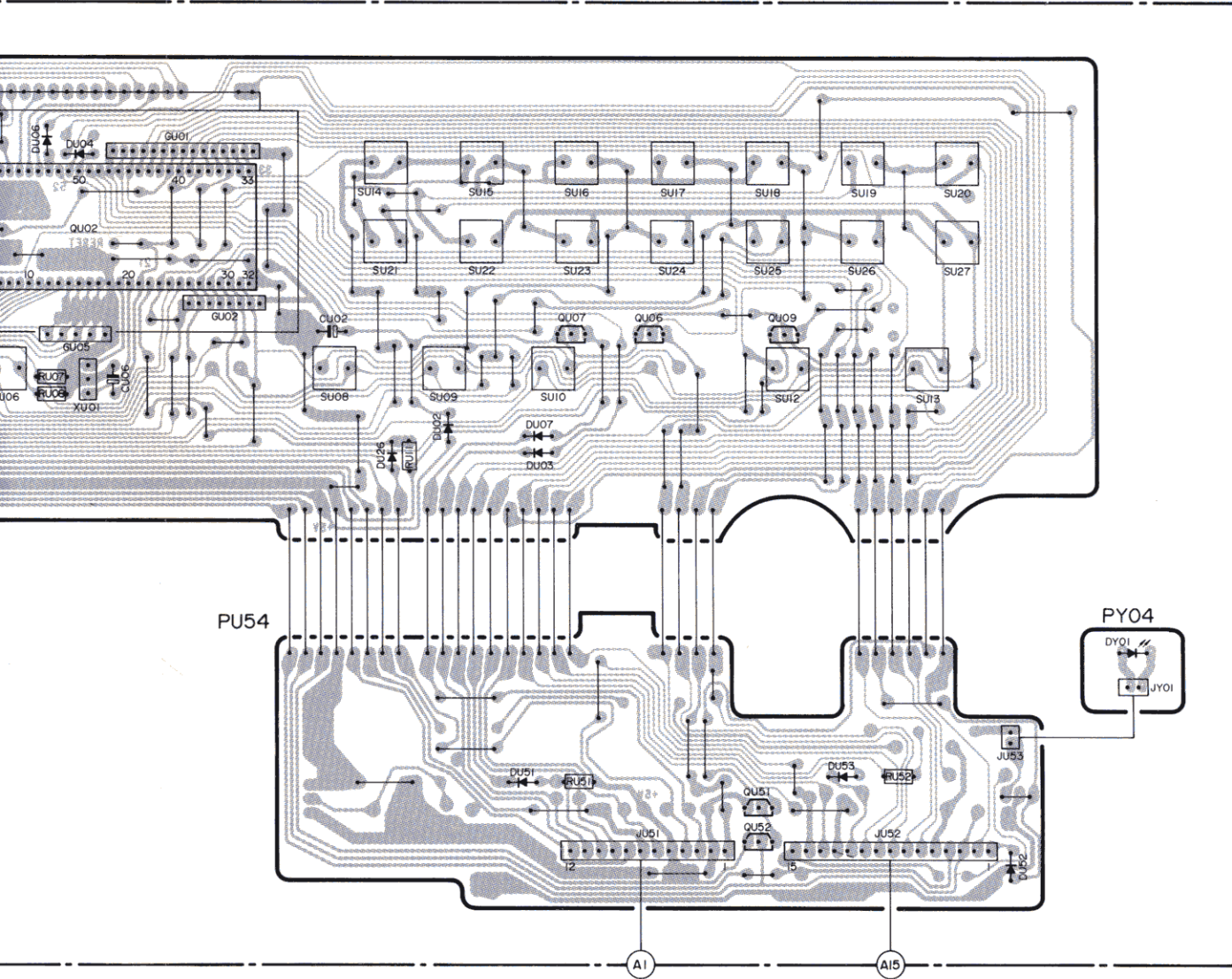
COMPONENT SIDE VIEW

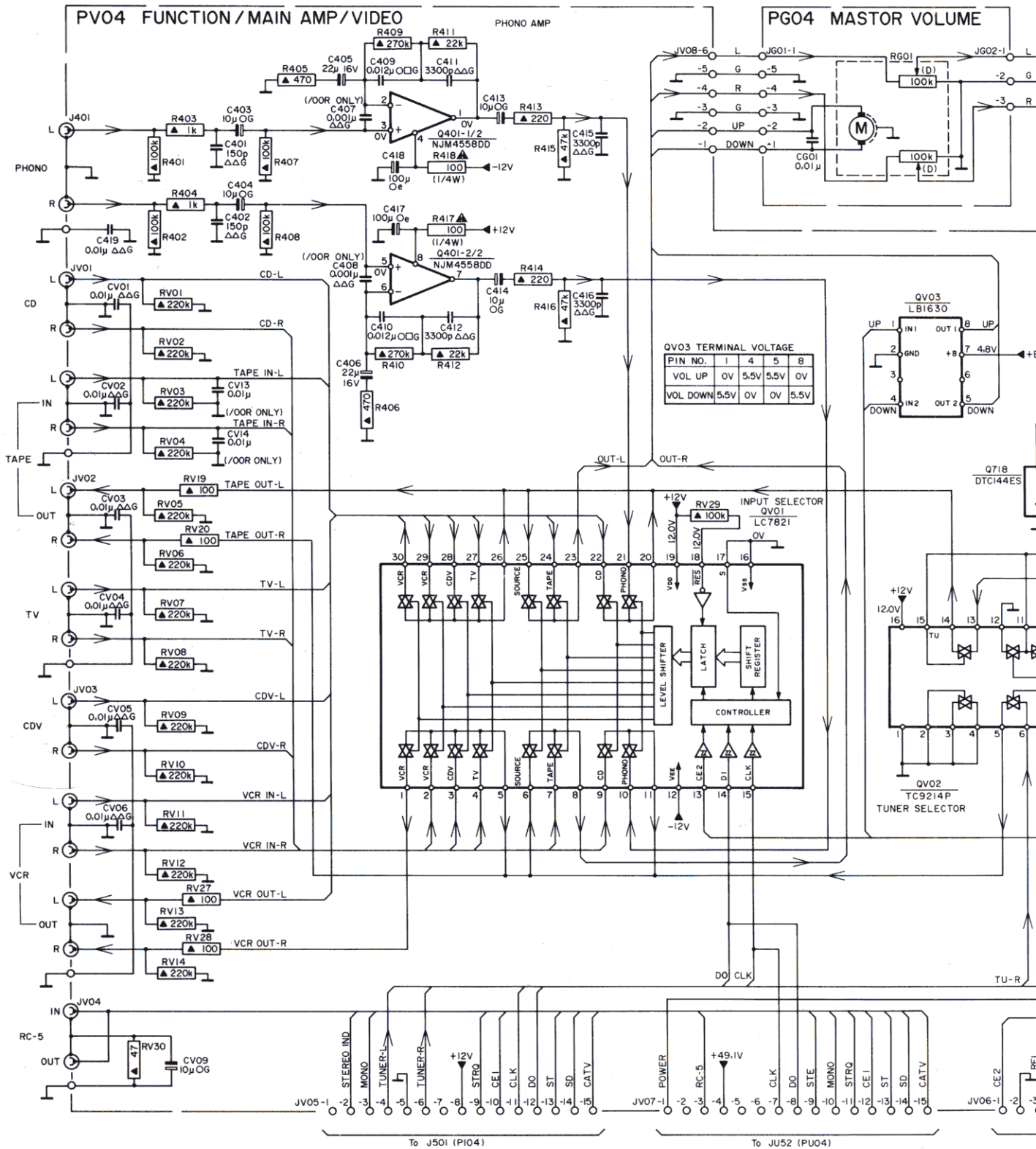


WIRING DIAGRAM

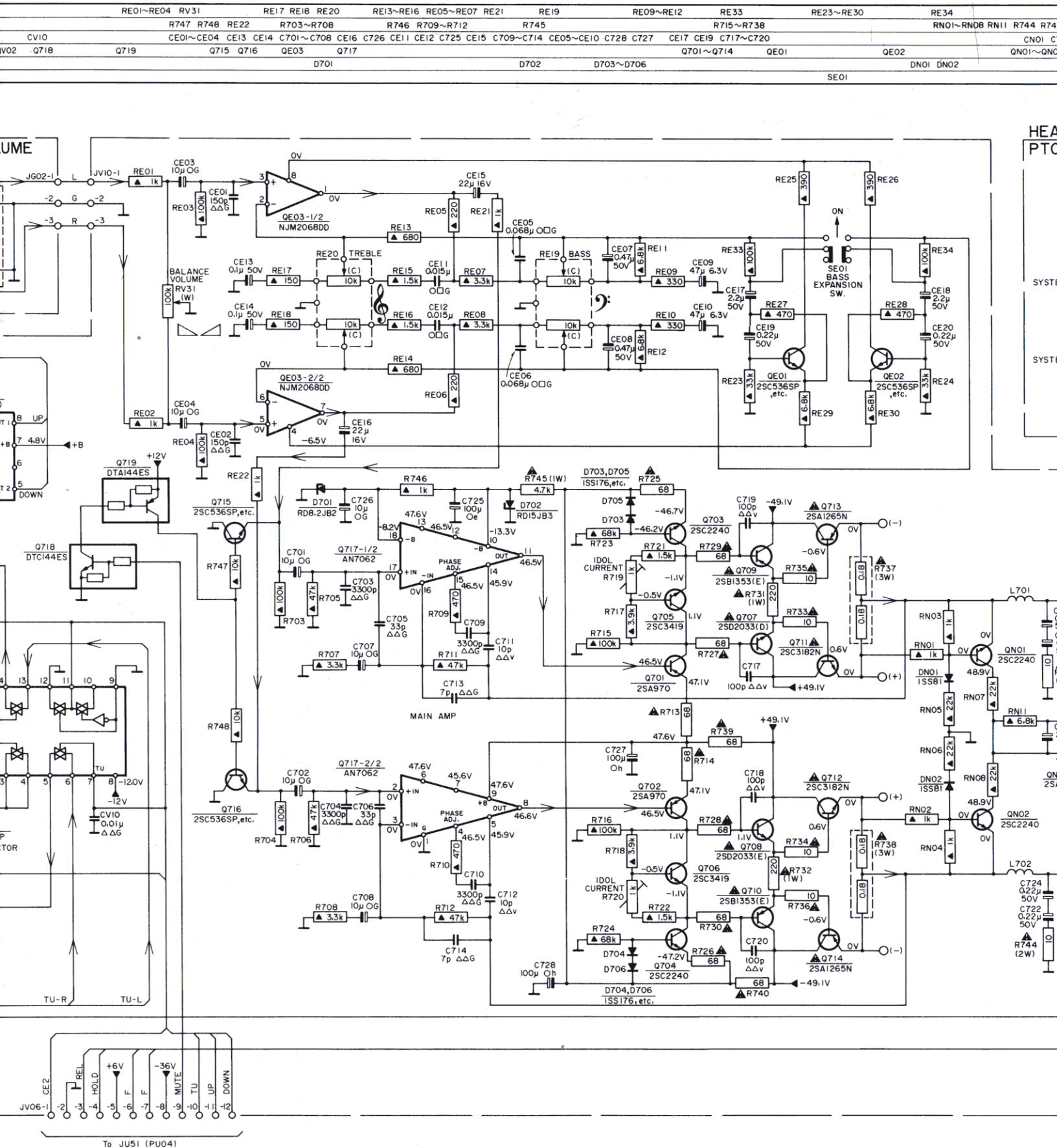
RU07 RU08 GU05	GU01	GU02		RU11	RU51		RU52		R - G
	CU06		CU02						C
	QU02				QU07	QU06	QU51 QU52 QU09		Q
DU06	DU04			DU26	DU02	DU51 DU07 DU03		DU53	D
				SU14	SU15	SU16	SU17	SU18	DY01
				SU08	SU21	SU09	SU22	SU10	SU23
U06	XU01			SU08	SU21	SU09	SU22	SU10	SU23
				SU24	SU25	SU12	SU26	SU13	SU27
									S - V - X

COMPONENT SIDE VIEW



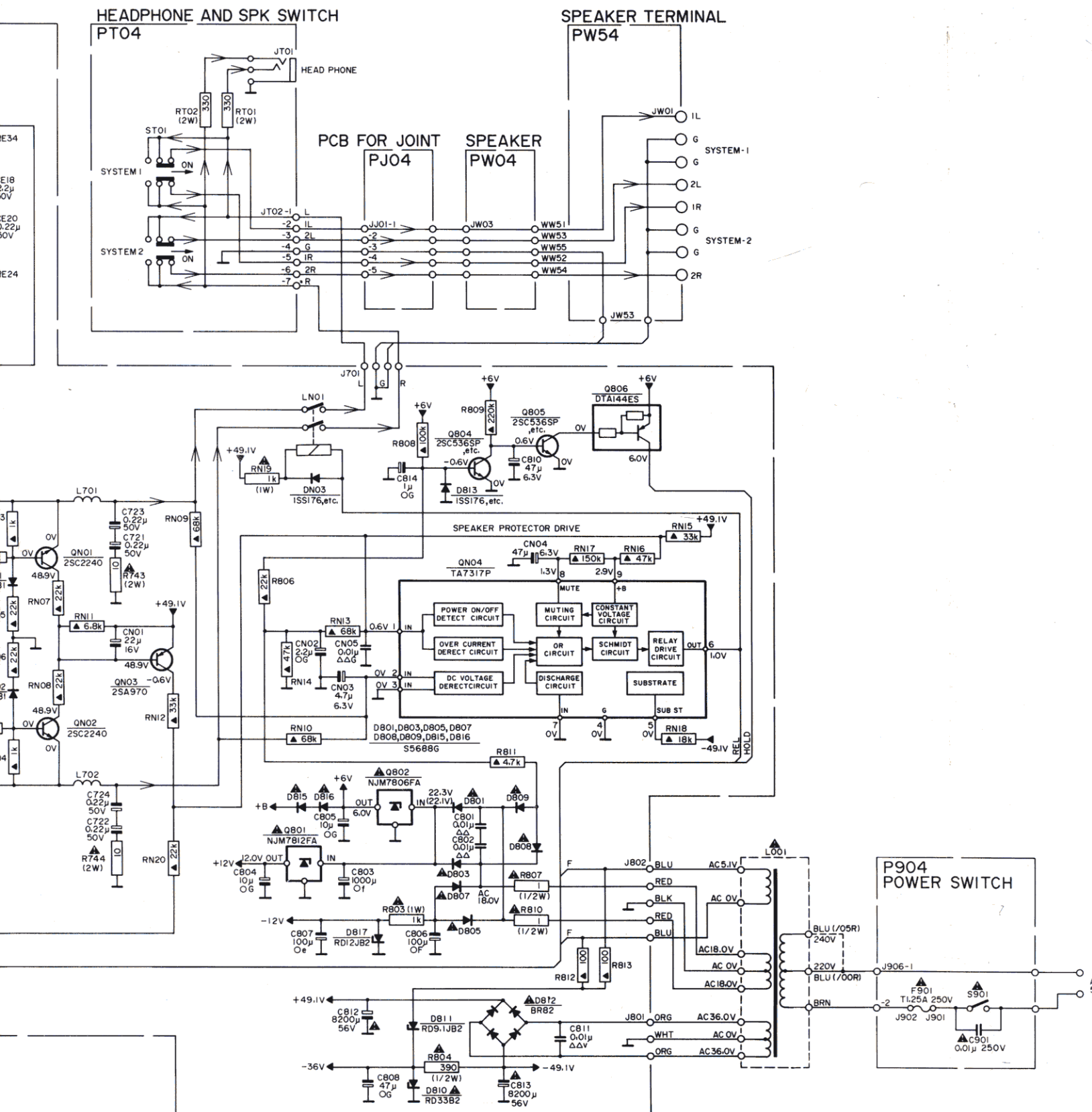


SCHEMATIC DIAGRAM



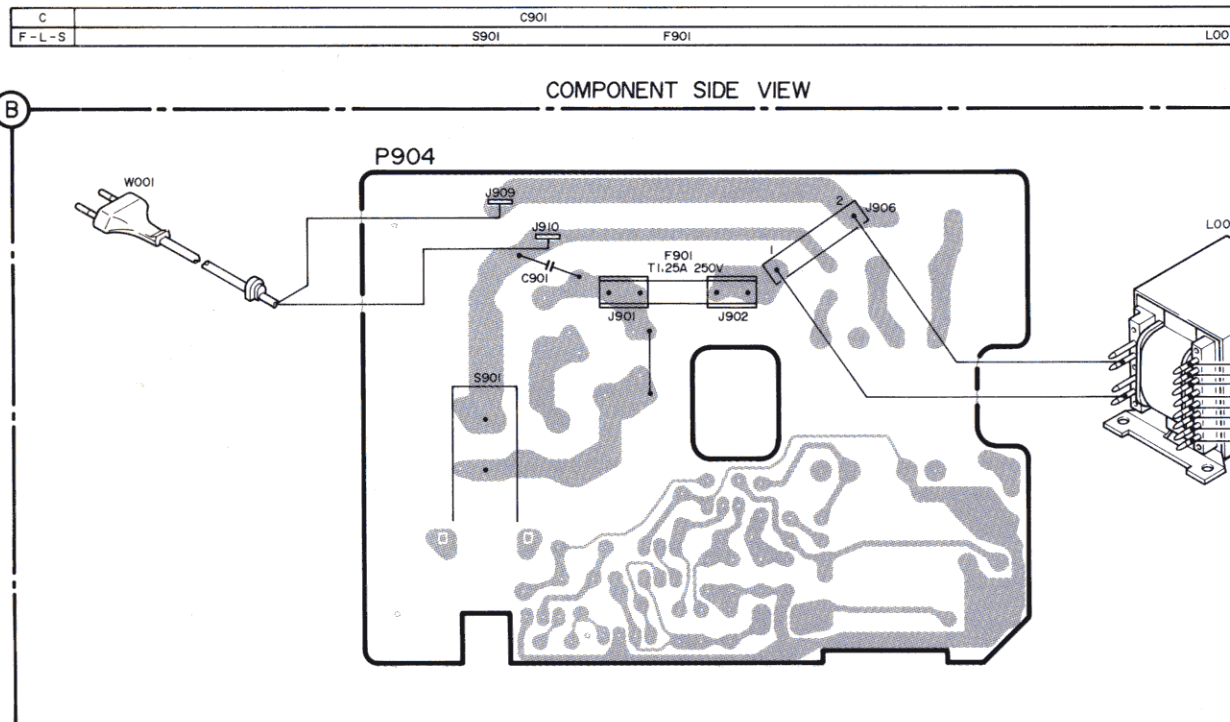
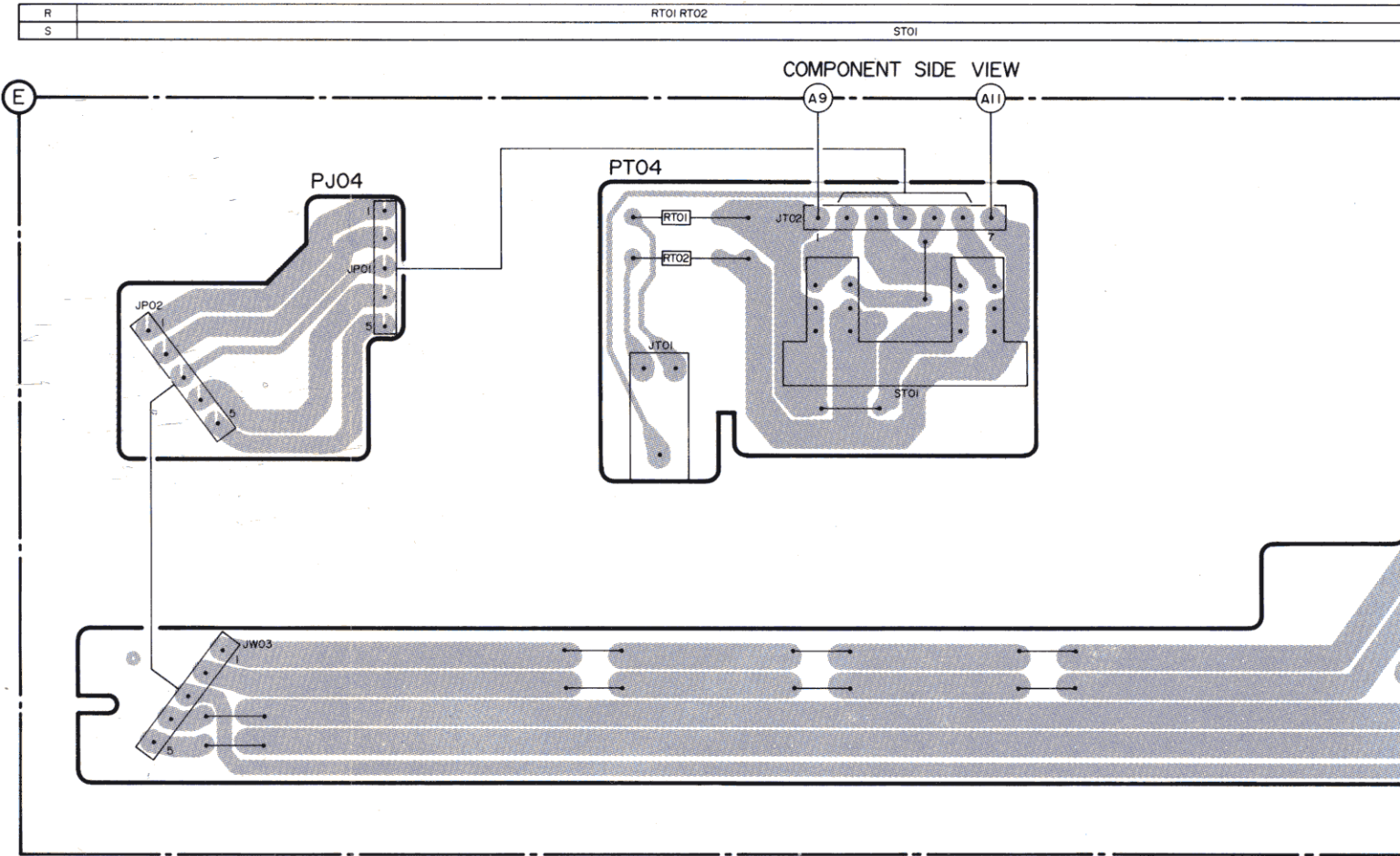
NOTE ON SAFETY:

Symbol ▲ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol ▲. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

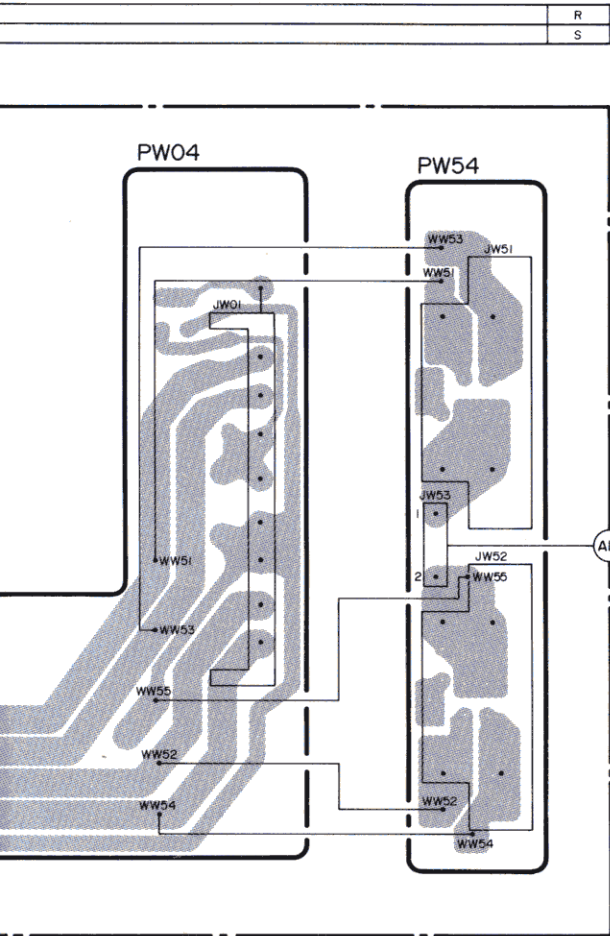


Any other com-
increase risk of

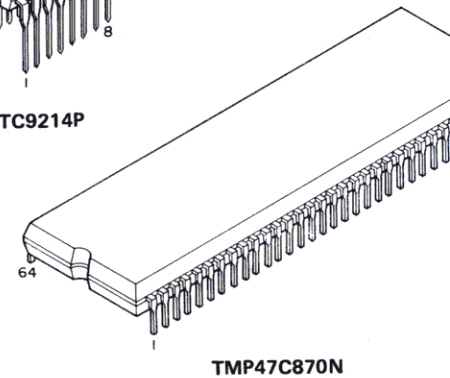
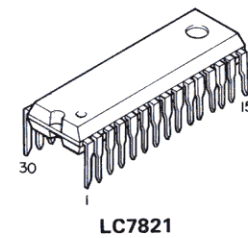
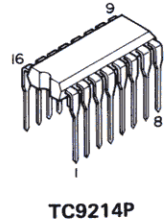
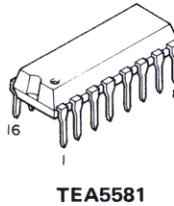
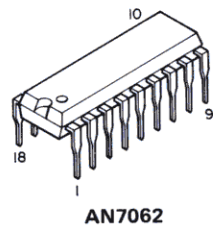
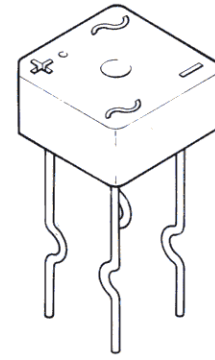
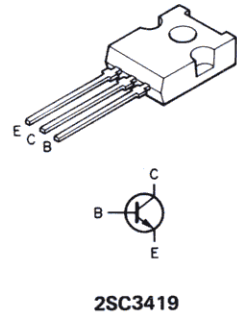
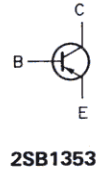
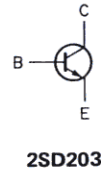
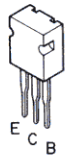
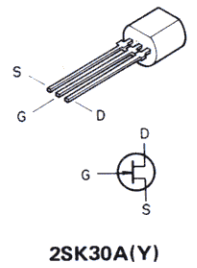
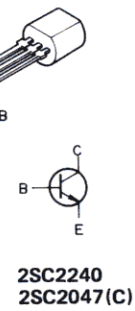
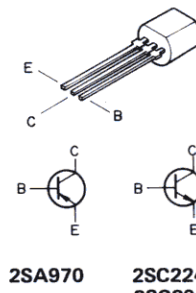
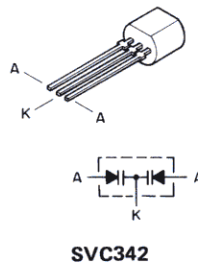
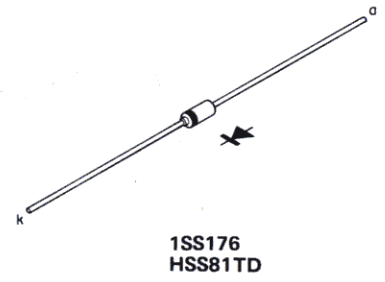
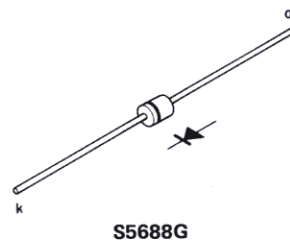
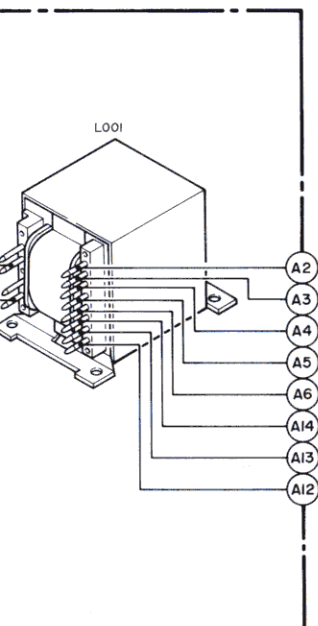
WIRING DIAGRAMS

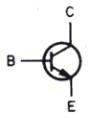
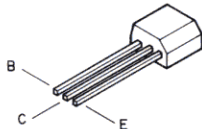
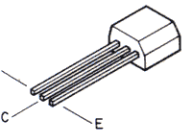
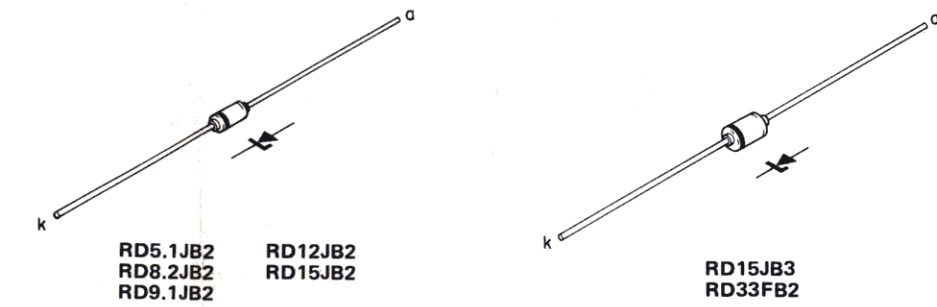


Semiconductor Layout

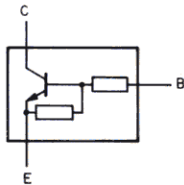


	C
L001	F-L-S

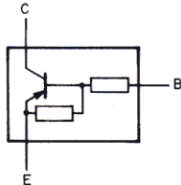




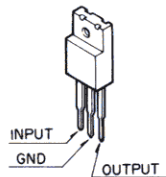
2SC536SP
2SD2144S



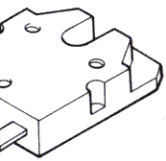
DTC144ES



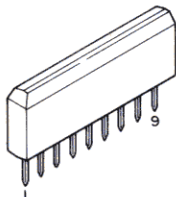
DTA144ES



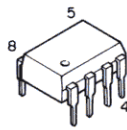
NJM7806FA
NJM7812FA



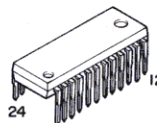
2SA1265



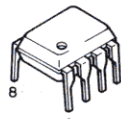
TA7317P



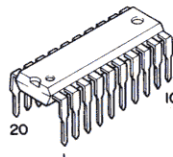
LB1630



LA1266

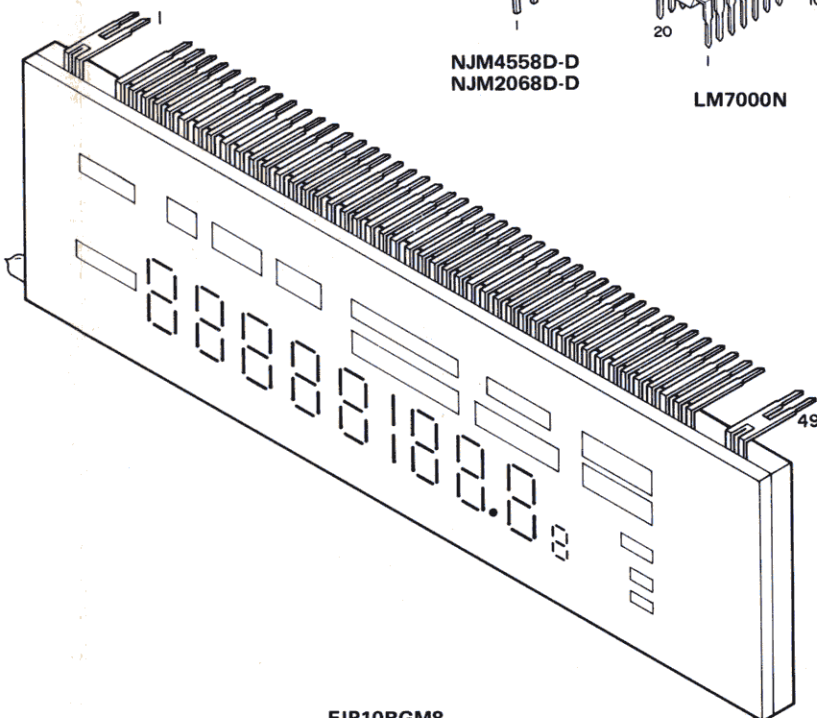


NJM4558D-D
NJM2068D-D



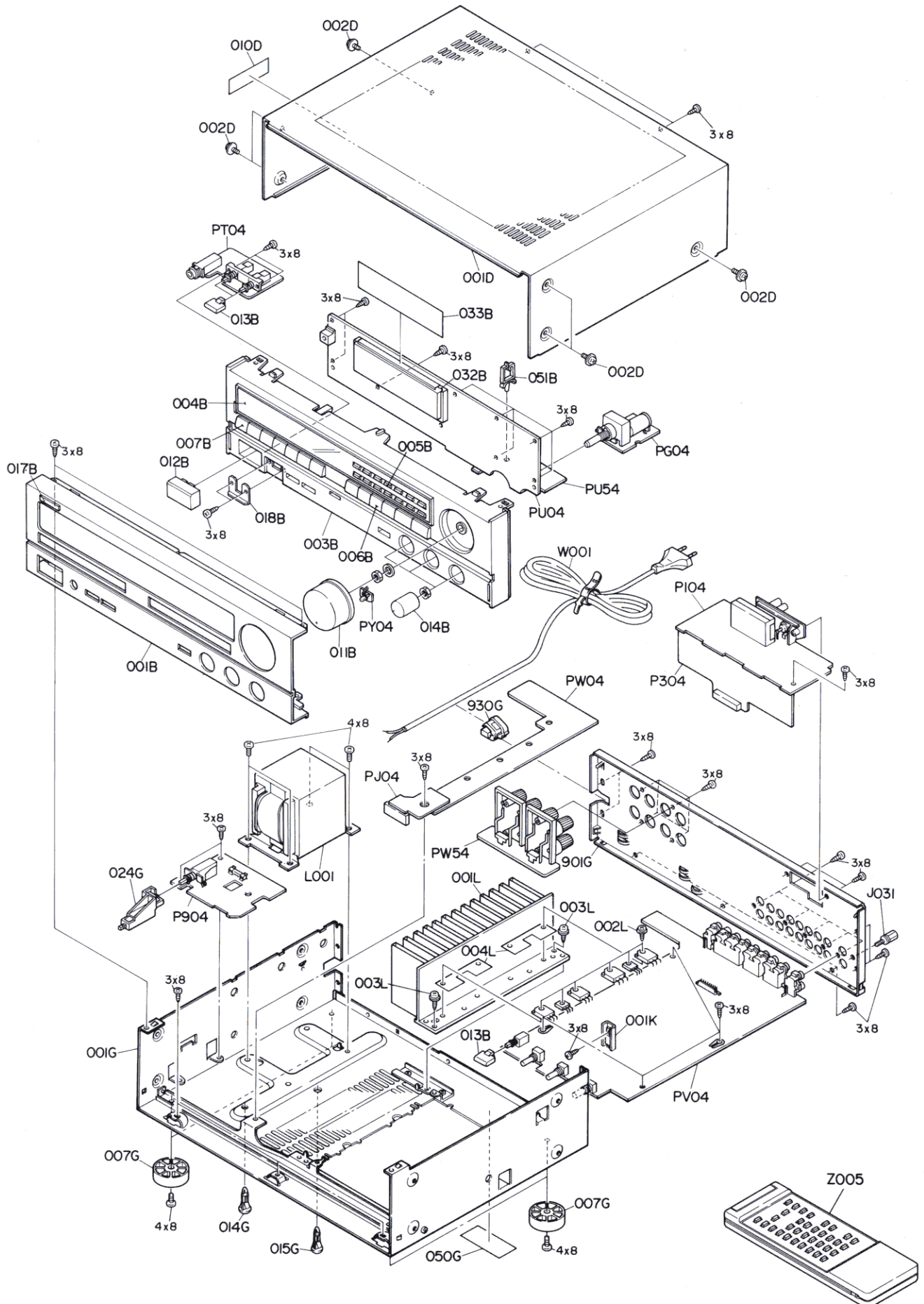
LM7000N

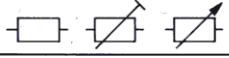
001B	4822 426 51472	Front panel
003B	4822 464 70581	Chassis, front
004B	4822 450 61692	Window
005B	4822 410 61142	Button, preset
006B	4822 410 61143	Button, band/tuning
007B	4822 410 61144	Button, function
011B	4822 413 41522	Knob, volume
012B	4822 410 25479	Button, power
013B	4822 410 60144	Button
014B	4822 413 31551	Knob, rotary
017B	4822 454 40107	Badge, PHILIPS
032B	4822 256 91642	Holder, FL
033B	4822 459 10942	Sticker, FL
002D	4822 532 11276	B.T. Screw (w/w)
007G	4822 462 41796	Foot
024G	4822 404 21143	Link, power switch
930G	4822 532 60948	Bushing, AC cord
002L	4822 502 12357	B.T. Screw (w/w)
003L	4822 502 12357	B.T. Screw (w/w)
004L	4822 466 92989	Sheet
001T	4822 736 21054	User manual
J031	4822 290 40297	Terminal, GND
L001	4822 146 21531	Power transformer
Z001	4822 303 50055	EXT. antenna, FM
Z003	4822 157 63083	ANT coil, loop
Z005	4822 218 10388	Unit K, RC675FR



FIP10BGM8

EXPLODED VIEW



					
QN01, QN02	4822 130 43233	2SC2240 (GR, BL)	Q717	4822 209 83732	AN7062P
Q703, Q704			Q801	4822 209 60826	NJM7812FA
QN03	4822 130 42951	2SA970 (GR, BL)	Q802	4822 209 61533	NJM7806FA
Q701, Q702					
Q705, Q706	4822 130 60117	2SC3419(Y)			
Q707, Q708	4822 130 62335	2SD2033(E)	LA01	4822 157 63084	ANT coil, MW 280 μ H
Q709, Q710	4822 130 62334	2SB1353(E)	LA02	4822 157 52716	OSC coil, MW
Q711, Q712	4822 130 61747	2SC3182(R, O)	LA05	4822 157 53589	Choke coil 39 mH
Q713, Q714	4822 130 61746	2SA1265(R, O)	LA06	4822 148 81095	I.F.T. coil, AM
Q715, Q716	4822 130 61892	2SD2144S(U, V)	LN01	4822 280 70354	Relay
QU03, QU08	4822 130 42594	DTC144ES	L201	4822 157 62408	I.F.T. coil
QU09, QU51			L202	4822 157 62409	I.F.T. coil
Q718			L701	4822 157 63085	Choke coil, speaker
QA04	4822 130 42682	DTA144ES	L702	4822 157 63085	Choke coil, speaker
QU01, QU06					
QU07, QU52			GU01	4822 111 91936	Res. network 10k x 14
Q204			GU02	4822 111 91678	Res. network 10k x 7
Q719, Q806			RA13	4822 100 11352	Potm. trimmer 22k
QE01, QE02	4822 130 42298	2SC536SP (2SC2458, 2SC3311, 2SC1740S)	RE19	4822 101 30754	Potm. bass 10k (C)
Q502, Q504			RE20	4822 101 30754	Potm. treble 10k (C)
Q804, Q805			RG01	4822 100 11712	Potm. drive 100k (D) x 2
Q202	4822 130 42082	2SC2047(C)	RN19	4822 116 60332	Res. met. oxide 1k 2W
QU04	4822 130 82139	PAS-C0617 (Photo unit)	RT01	4822 116 60262	Res. met. oxide 330E 2W
Q503	4822 130 42121	2SK30AY	RT02	4822 116 60262	Res. met. oxide 330E 2W
			RV31	4822 101 30753	Potm. balance 100k (W)
			R206	4822 116 82951	Res. metal film 33k 1/6W
DA01	4822 125 50416	SVC342	R210	4822 050 21501	Res. metal film 150E 1/4W
DN01, DN02	4822 130 80837	HSS81TD	R211	4822 100 11471	Potm. trimmer 100k
DN03	4822 130 33305	1SS176 (MA165, 1SS254)	R301	4822 100 11351	Potm. trimmer 10k
DU01÷DU09			R311	4822 116 52849	Res. metal film 220E 1/4W
DU13			R314	4822 100 11373	Potm. trimmer 4.7k
DU24÷DU26			R417	4822 050 21021	Res. metal film 100E 1/4W
DU51÷DU53			R418	4822 050 21021	Res. metal film 100E 1/4W
D301			R514	4822 116 52849	Res. metal film 220E 1/4W
D703÷D706			R713	4822 050 26809	Res. metal film 68E 1/6W
D813			R714	4822 050 26809	Res. metal film 68E 1/6W
DU17, DU18	4822 130 80326	LT3D8B	R719	4822 100 11386	Potm. trimmer 10k
DY01			R720	4822 100 11386	Potm. trimmer 10k
D501	4822 130 80317	RD5.1JB2 (MTZJ5.1B)	R725÷R730	4822 050 26809	Res. metal film 68E 1/6W
D701	4822 130 80273	RD8.2JB2 (MTZJ8.2C)	R731	4822 116 60246	Res. safety 220E 1W
D702	4822 130 80322	RD15JB3 (MTZJ16A)	R732	4822 116 60246	Res. safety 220E 1W
D801, D803	4822 130 80839	S5688G	R733÷R736	4822 111 91291	Res. safety 10E 1/6W
D805			R737	4822 116 82049	Res. metal film 0.18E x 2 3W
D807÷D809			R738	4822 116 82049	Res. metal film 0.18E x 2 3W
D815, D816			R739	4822 050 26809	Res. metal film 68E 1/6W
D810	4822 130 81287	RD33F-B2	R740	4822 050 26809	Res. metal film 68E 1/6W
D811	4822 130 80319	RD9.1JB2 (MTZJ9.1C)	R743	4822 111 90726	Res. safety 10E 2W
D812	4822 130 81093	BR82	R744	4822 111 90726	Res. safety 10E 2W
D817	4822 130 80091	RD12JB2 (MTZJ12C)	R745	4822 116 82523	Res. metal film 4.7k 1W
			R803	4822 116 60331	Res. met. oxide 1k 1W
QE03	4822 209 73064	NJM2068DD	R804	4822 116 82525	Res. fuse 390E 1/2W
QU02	4822 209 62558	TMP47C870N-4668	R807	4822 116 60306	Res. met. oxide 1E 1/2W
QN04	4822 209 83312	TA7317P	R810	4822 116 60306	Res. met. oxide 1E 1/2W
QV01	4822 209 72748	LC7821			
QV02	4822 209 73275	TC9214P			
QV03	4822 209 73287	LB1630			
Q201	4822 209 71785	LA1266			
Q301	4822 209 71776	TEA5581			
Q401	4822 209 83631	NJM4558DD			
Q501	4822 209 62557	LM7000N			

 	 
GU05	4822 126 11191 Cap. comp. 470 pF/100k x 4
CA01	4822 125 50384 Cap. trimmer 20 pF
CA02	4822 122 40491 Cap. ceramic 0.022 μ F
CA03	4822 126 11192 Cap. ceramic 15 pF
CA04	4822 126 31205 Cap. ceramic 47 pF
CA05	4822 121 41629 Cap. foil 390 pF
CA06	4822 122 32486 Cap. ceramic 0.01 μ F
CA15	4822 122 32486 Cap. ceramic 0.01 μ F
CA16	4822 122 40491 Cap. ceramic 0.022 μ F
CA21	4822 122 40568 Cap. ceramic 68 pF
CA22	4822 122 32486 Cap. ceramic 0.01 μ F
CE07	4822 124 21898 Cap. elect. 0.47 μ F 50 V
CE08	4822 124 21898 Cap. elect. 0.47 μ F 50 V
CE09	4822 124 21901 Cap. elect. 47 μ F 6.3 V
CE10	4822 124 21901 Cap. elect. 47 μ F 6.3V
CE13	4822 124 41604 Cap. elect. 0.1 μ F 50 V
CE14	4822 124 41604 Cap. elect. 0.1 μ F 50 V
CE15	4822 124 21739 Cap. elect. 22 μ F 16 V
CE16	4822 124 21739 Cap. elect. 22 μ F 16 V
CE17	4822 124 41243 Cap. elect. 2.2 μ F 50 V
CE18	4822 124 41243 Cap. elect. 2.2 μ F 50 V
CE19	4822 124 21895 Cap. elect. 0.22 μ F 50 V
CE20	4822 124 21895 Cap. elect. 0.22 μ F 50 V
CG01	4822 122 32486 Cap. ceramic 0.01 μ F
CN01	4822 124 21739 Cap. elect. 22 μ F 16 V
CN03	4822 124 21901 Cap. elect. 47 μ F 6.3 V
CN04	4822 124 21901 Cap. elect. 47 μ F 6.3 V
CN05	4822 122 32486 Cap. ceramic 0.01 μ F
CU02	4822 124 21901 Cap. elect. 47 μ F 6.3 V
CU04	4822 122 40586 Cap. ceramic 0.01 μ F
CU05	4822 124 23295 Cap. elect. 0.022 μ F 5.5 V
CU06	4822 124 41604 Cap. elect. 0.1 μ F 50 V
CV01÷CV06	4822 122 32486 Cap. ceramic 0.01 μ F
CV10	4822 122 32486 Cap. ceramic 0.01 μ F
CV15	4822 122 32486 Cap. ceramic 0.01 μ F (/00R)
CV16	4822 122 32486 Cap. ceramic 0.01 μ F (/00R)
C201	4822 122 32486 Cap. ceramic 0.01 μ F
C202	4822 122 32486 Cap. ceramic 0.01 μ F
C203	4822 122 40491 Cap. ceramic 0.022 μ F
C204	4822 122 40491 Cap. ceramic 0.022 μ F
C206	4822 122 40491 Cap. ceramic 0.022 μ F
C207	4822 124 41604 Cap. elect. 0.1 μ F 50 V
C210	4822 122 40568 Cap. ceramic 68 pF
C211	4822 122 40491 Cap. ceramic 0.022 μ F
C303	4822 124 41604 Cap. elect. 0.1 μ F 50 V
C304	4822 124 41604 Cap. elect. 0.1 μ F 50 V
C307	4822 124 41604 Cap. elect. 0.1 μ F 50 V
C310	4822 121 43759 Cap. mica 1000 pF
C405	4822 124 21739 Cap. elect. 22 μ F 16 V
C406	4822 124 21739 Cap. elect. 22 μ F 16 V
C419	4822 122 32486 Cap. ceramic 0.01 μ F
C501	4822 122 31205 Cap. ceramic 47 pF
C502	4822 122 31205 Cap. ceramic 47 pF
C504	4822 122 32486 Cap. ceramic 0.01 μ F
C505	4822 124 41604 Cap. elect. 0.1 μ F 50 V
C507	4822 122 32486 Cap. ceramic 0.01 μ F
C508	4822 122 32486 Cap. ceramic 0.01 μ F
C705	4822 122 32917 Cap. ceramic 33 pF
C706	4822 122 32917 Cap. ceramic 33 pF
C711	4822 126 10797 Cap. ceramic 10 pF
C712	4822 126 10797 Cap. ceramic 10 pF
C713	4822 122 40367 Cap. ceramic 7 pF
C714	4822 122 40367 Cap. ceramic 7 pF
C717÷C720	4822 122 32895 Cap. ceramic 100 pF
C721÷C724	4822 124 21895 Cap. elect. 0.22 μ F 50 V
C727	4822 124 23626 Cap. elect. 100 μ F 63 V
C728	4822 124 23626 Cap. elect. 100 μ F 63 V
C729	4822 122 32486 Cap. ceramic 0.01 μ F
C801	4822 122 32486 Cap. ceramic 0.01 μ F
C802	4822 122 32486 Cap. ceramic 0.01 μ F
C810	4822 124 21901 Cap. elect. 47 μ F 6.3 V
C811	4822 122 30043 Cap. ceramic 0.01 μ F
C812	4822 124 23346 Cap. elect. 8200 μ F 56 V
C813	4822 124 23346 Cap. elect. 8200 μ F 56 V
C901	4822 122 33276 Cap. ceramic 0.01 μ F
	
SE01	4822 276 12926 Bass
ST01	4822 276 20509 Speaker
SU01÷SU06	4822 276 20508 Tact
SU08÷SU10	4822 276 20508 Tact
SU12÷SU27	4822 276 20508 Tact
S901	4822 276 12924 Power
MISCELLANEOUS	
A101	4822 210 10372 FM front end (/00R)
	4822 210 10397 FM front end (/05R)
FA02	4822 242 71397 Filter, SFP450H
F201	4822 242 71135 Filter, SFE10.7MS3-A
F202	4822 242 71135 Filter, SFE10.7MS3-A
F901	4822 253 20145 Fuse, T1.25A 250 V
JJ01	4822 265 10094 Jack, 7P
JT01	4822 267 31126 Jack, headphone
JV01	4822 265 30397 Jack, 4P RCA
JV02	4822 265 30397 Jack, 4P RCA
JV03	4822 265 30457 Jack, 6P RCA
JV04	4822 266 30274 Jack, 2P RCA
JV08	4822 265 10063 Jack, 6P RCA
JW51	4822 290 60841 Terminal, speaker
JW52	4822 290 60839 Terminal, speaker
J101	4822 266 30298 Terminal, ANT
J401	4822 267 30741 Jack, 2P RCA
J501	4822 267 31034 Jack, 15P
VU01	4822 130 90857 Display FIP10BGM8
XU01	4822 242 72194 Ceramic filter 4.19 MHz
X501	4822 242 72333 Ceramic filter 7.2 MHz