

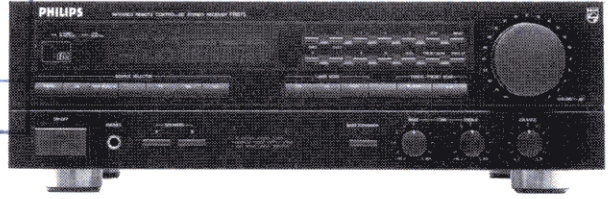
Service  
Service  
Service

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

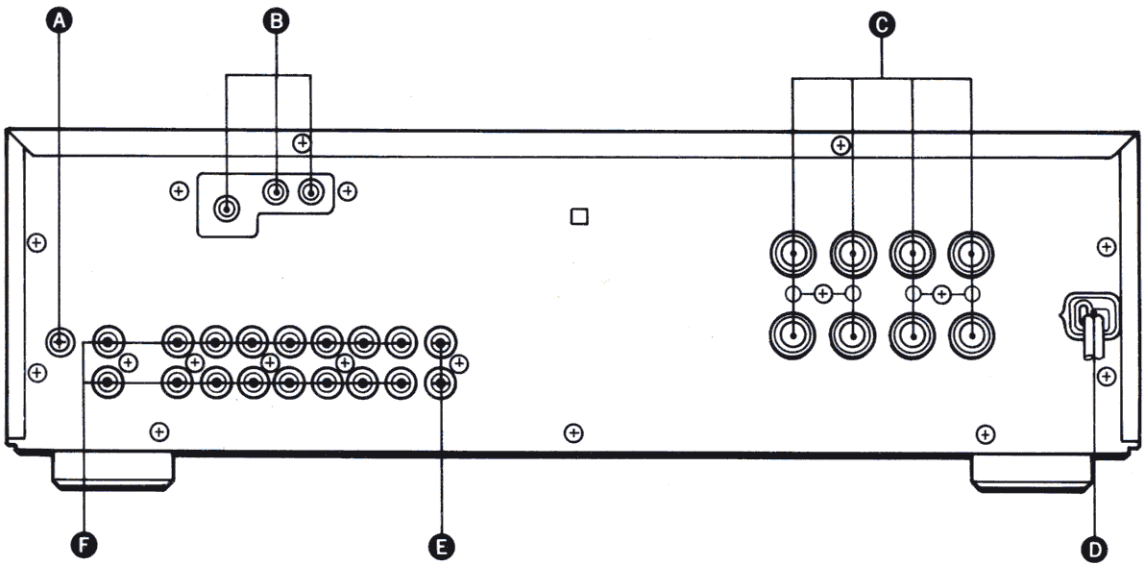
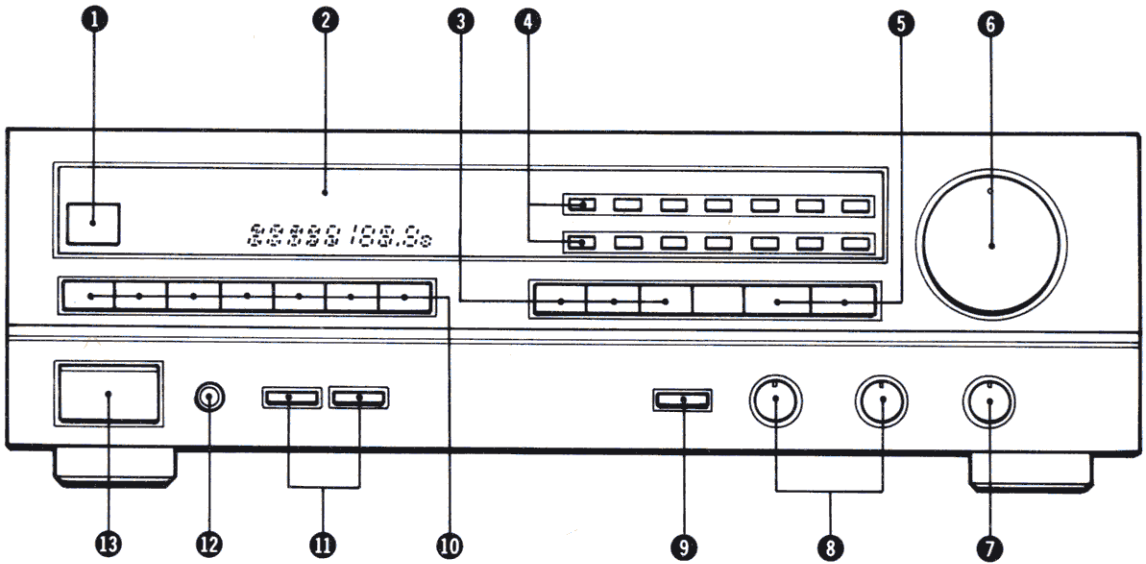
**PHILIPS**

Published by Service  
Consumer Electronics

CS 35 849

**SPECIFICATION**

<b>General</b>	<b>Nominal value</b>	<b>Typical value</b>
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
<b>Tuner: FM section (at 75Ω)</b>		
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
<b>Tuner: AM section</b>		
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
<b>Tuner: Digital section</b>		
Tuning steps FM/AM	: 50 kHz/9 kHz	: 50 kHz/9 kHz
Presets FM+AM	: 30 random sequential	: 30 random sequential
<b>Audio</b>		
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

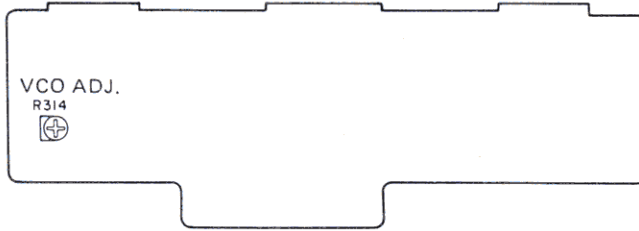
	P9	P10	P11	P12-P30
FM				
AM	531 kHz	531 kHz	531 kHz	531 kHz

• **Adjustment of FM MPX VCO**

The part to be adjusted: R314

- 1) Set the frequency and output of the signal generator at 98 MHz and 500  $\mu$ V (54 dB)/75 ohms respectively and synchronize the set to them.
- 2) 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.
- 3) After connecting a frequency counter to the test point, UP15, adjust R314 so that the frequency counter shows 228 ( $\pm$ 0.05) kHz.

P304



**FM IF**

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

**FM Distortion**

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

**Stereo Separation**

FM SU08	98 MHz Mod. 1 kHz $\Delta f$ L+R 40 kHz Pilot 6 kHz Output 65.2 dBf (500 $\mu$ V)	J101		R301	JV02 (Tape output) Separation Max.
---------	--	------	--	------	--

**Muting Level**

FM SU08 FM mode switch SU10 (Auto indicator lights on)	98 MHz Mod. 1 kHz $\Delta f$ 75 kHz Output 27.2 dBf (6.3 $\mu$ V)	J101		R211	VU01 <b>1</b> TUNED LIGHTS ON
--	---	------	--	------	--

**AM IF**

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

**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.

Idling Cu

SH  
SWI

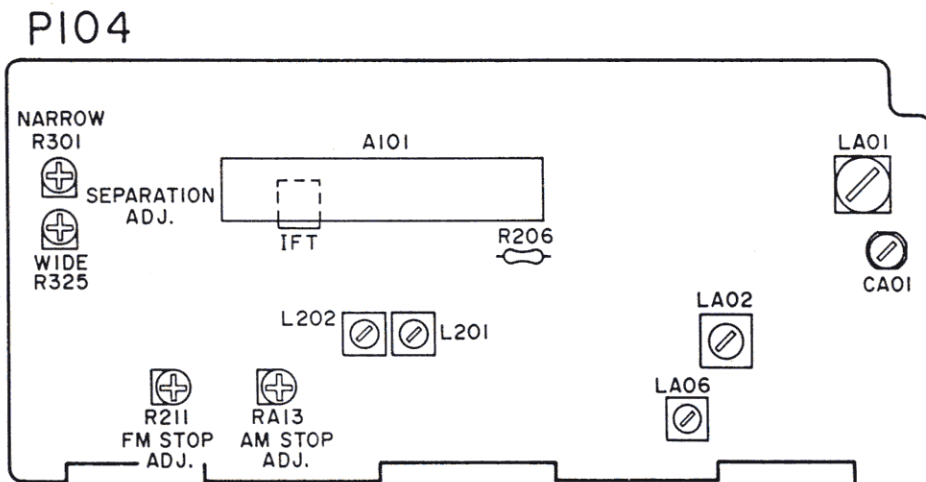
- (1) Bef  
con  
Ton  
sem  
the
- (2) Cor  
to 1  
R73  
Neg
- (3) Aft  
Swi  
R73  
acc  
sett  
bot

Please r

After P







20 sec
1 min
More t

**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

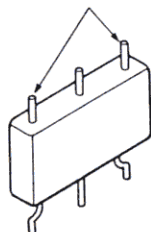
- Before switching the power ON, set the Master Volume control to the minimum position and the Balance and Tone controls to the center positions. Then, rotate the semi-fixed resistors R719 (L CH) and R720 (R CH) on the PC board PV04 fully clockwise.
- Connect a digital voltmeter, set for the DC voltage 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)

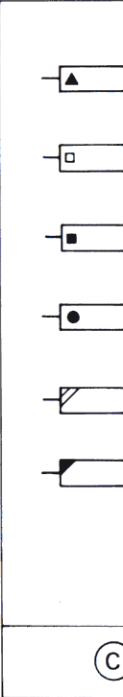
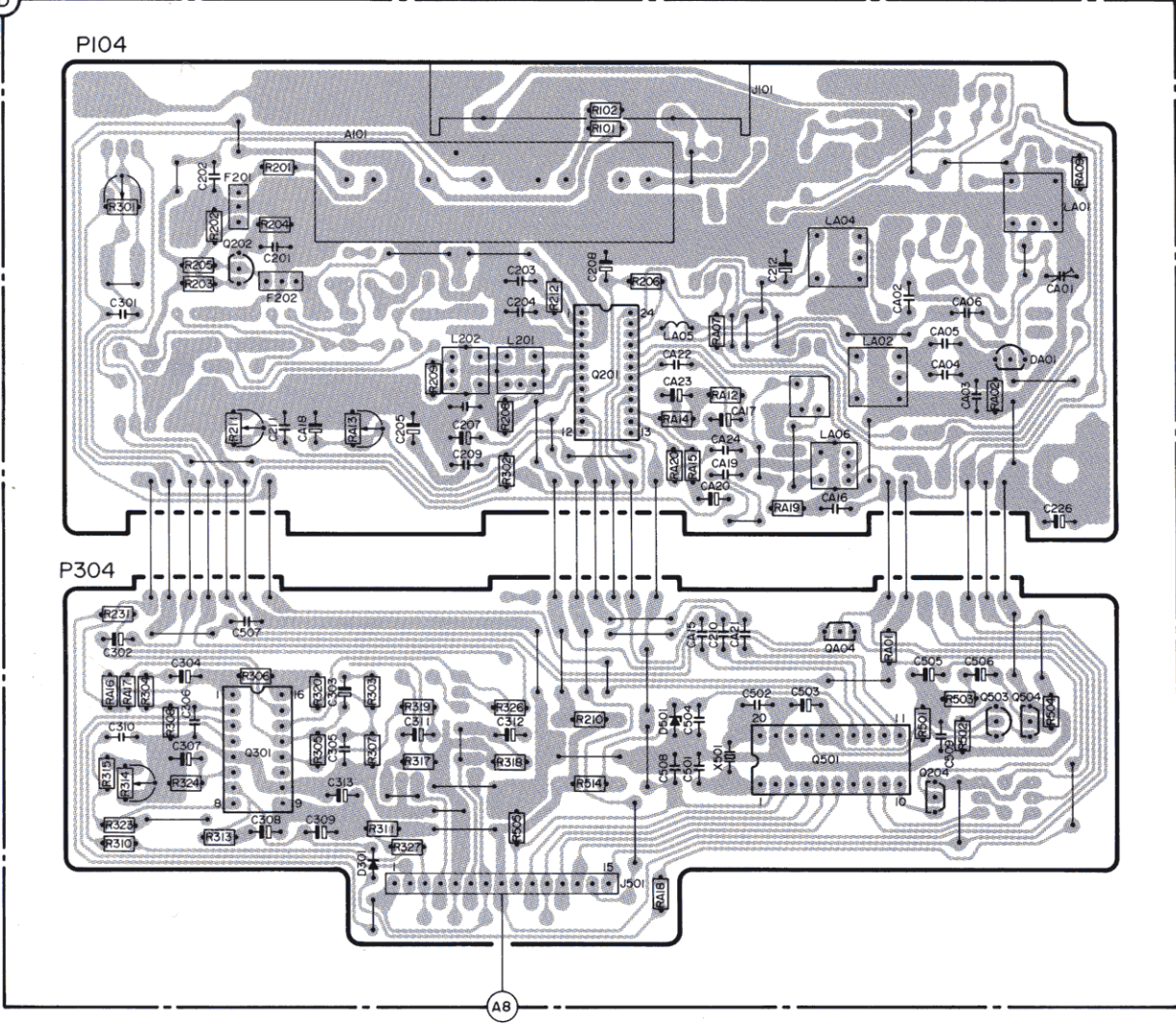
- This program is to check the input selector, etc. of the unit itself for functioning.
  - Microprocessor's MUTE OUT is made "LOW".
  - In a procedure shown in the following, each object is subject to execution of check for 3 seconds, and operation shifts to the next one. Then, operation starts at step 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.



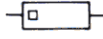
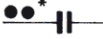





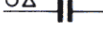



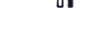

Step	Function	Notes
1	FM	FM mode: Auto, last frequency (initial)
2	FM	FM mode: Mono, last frequency (initial)
3	PHONO	
4	CD	
5	TAPE	
6	TV	
7	CDV	
8	VCR	

WIRING DIAGRAM

	R301	R201~R205	R209	R212 R102 R101	R206	RA07	RA09	
R	R315 R314 R231	R211	R320 RAI3 R303 R319 R317	R208 R302	R210	RA14 RA20 RA15 RA12		R
	R323 R310 RAI6 RAI7 R304 R308 R324 R313 R306 R305 R307 R311 R327	R326 R316 R505	R514	RA18	RA19	RAO1	R501~R503	R504
C	C301	C202	C201	C205~C207 C209 C203 C204	C208	CA22~CA24 CA20 CA19 CA17 C212	CA03~CA06	CA01
	C302	C304	C507 C211 CA18 C303			C504 CA15 C210 CA21	CA16	CA02
	C310	C306~C309	C305 C313	C311	C312	C508 C501	C502	C503
Q		Q202				Q201	QA04	
		Q301					Q501	Q204
D			D301			D501		Q503 Q504
								DA01
A-F-L-X	F201 F202	A101	L202 L201			LA05 X501	FA02	LA06 LA04 LA02
								LA01
								A-F-L-X

COMPONENT SIDE VIEW

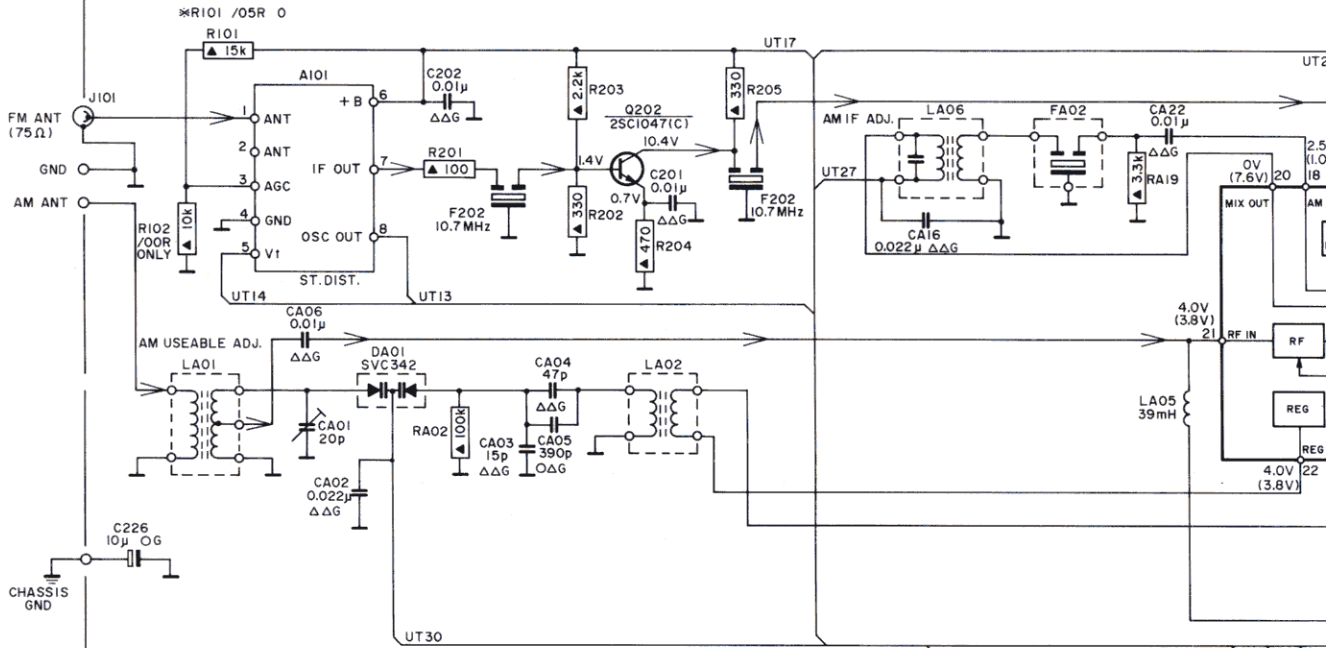


	Carbon film 0.125 W or 0.2 W	70°C	5%		Ceramic plate Tuning $\leq 120$ pF NP.0 2% Others -20/+80%	*a = 2.5 V b = 3.15 V or 4 V c = 6.3 V d = 10 V e = 16 V f = 25 V g = 40 V h = 63 V j = 100 V l = 125 V m = 150 V n = 160 V q = 200 V r = 250 V s = 300 V t = 350 V u = 400 V v = 500 V w = 630 V x = 1000 V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

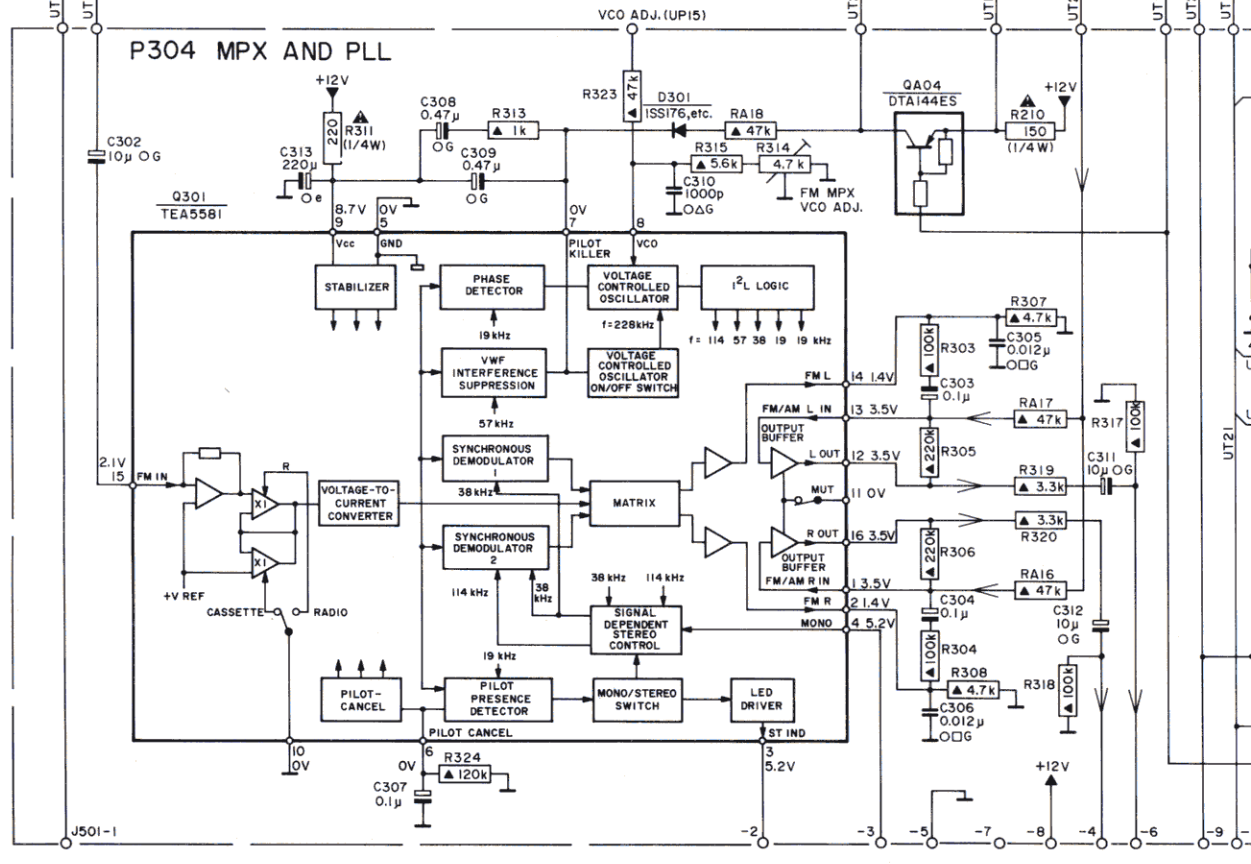


R	RI02 RI01	RA02	R201~R205	RA19
C	C226 CA01~CA06	R311 C202	R324 R313	R303~R308 R210 RA17 RA16 R317~R320
Q	C302 Q301	C313 C307	C308 C309	CA16 CA22
D	DA01	Q202	D301	CA04
A-F-L-X	LA01 A101	F202	LA02 F202	LA06 FA02 LA05

PI04 FRONT-END AND IF

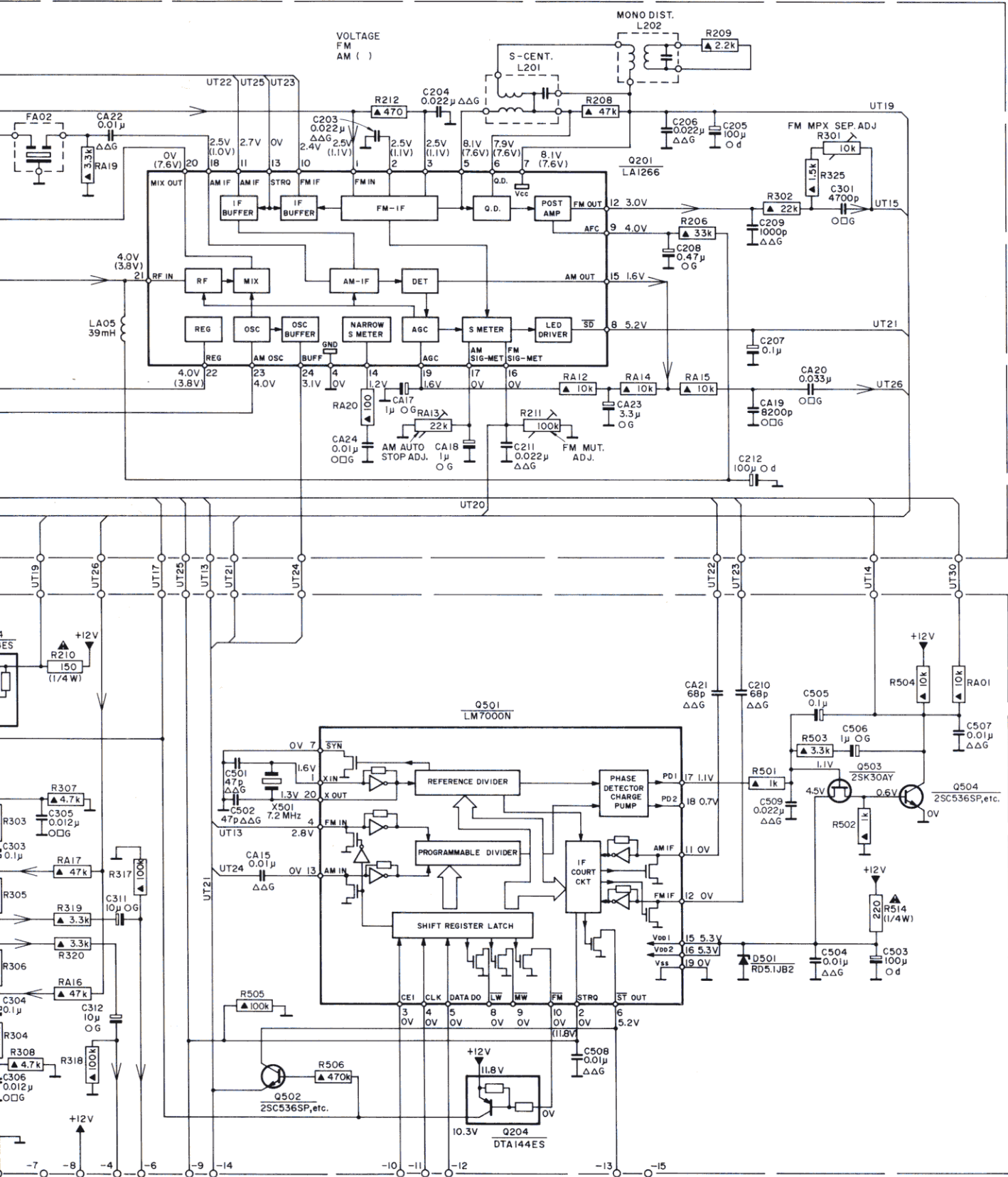


P304 MPX AND PLL



SCHEMATIC DIAGRAM

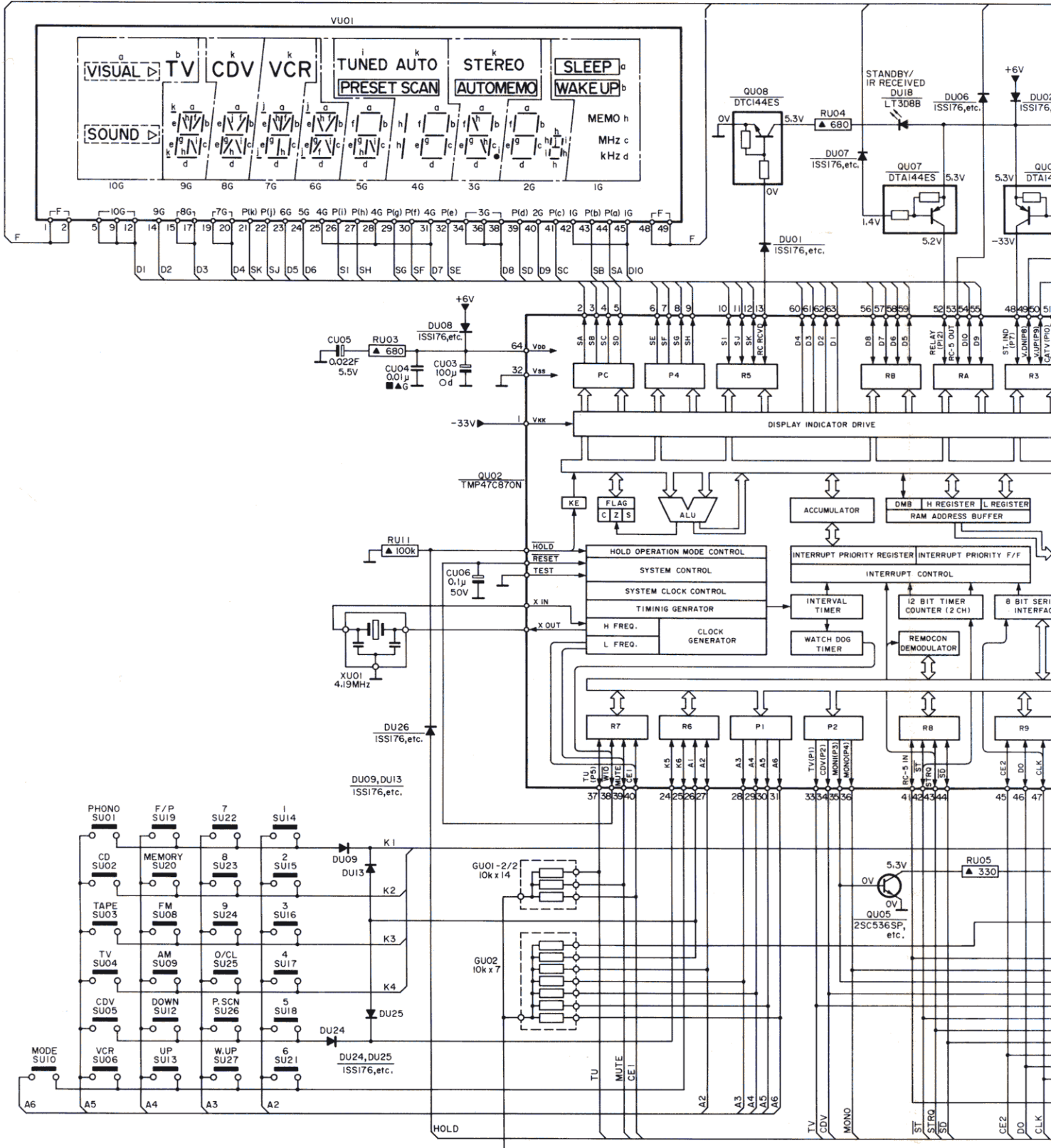
RA19	RA20	R212	RA13	R211	RA12	R208	RA14	R206	RA15	R209	R302	R325	R301	R
~R308 R210 RA17 RA16 R317~R320	R505	R506	C203 CA24 CA17	C204 CA18	C211	CA23	C205~C209	C212 CA19 CA20	C301	R501	R503	R502	R514	R504 RA01
CA22	C203	CA24	CA17	C204	CA18	C211	CA23	C205~C209	C212 CA19 CA20	C301				C
C303~C306 C312 C311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



To PV04 (JV05)

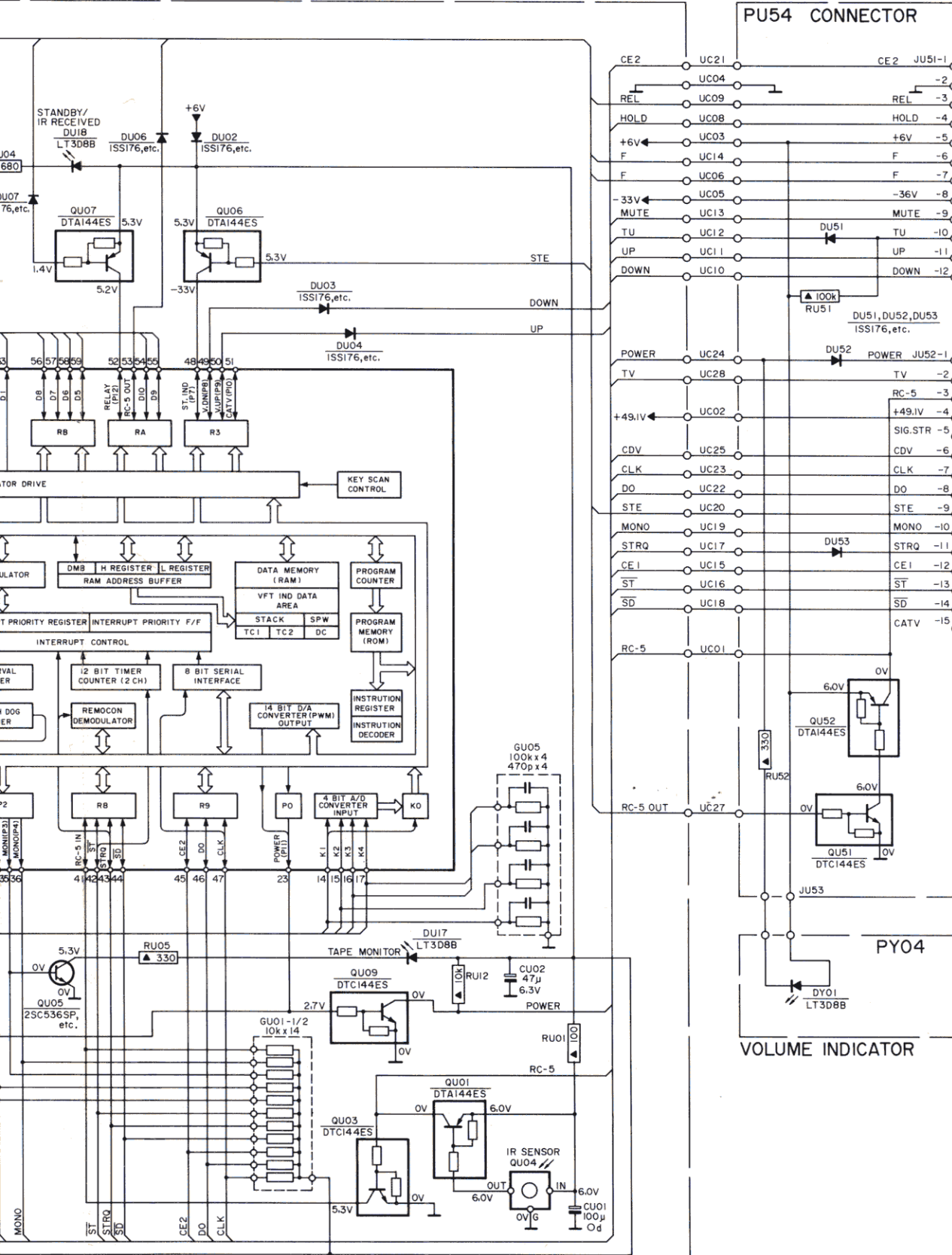
R	CU03	CU04	CU05	CU06	RU03	RU11	RU04	RU05	
C									
Q	DU24 DU09 DU13 DU25 DU26 DU28				QU02		QU08	QU05 QU07	
D	SU01~SU06 SU08~SU10 SU12~SU20 SU22~SU27				VU01 XU01		DU01 DU07	DU18 DU06	DU02
G-S-V-X							GU01-2/2 GU02		

PU04 μ-COM, TACT SW. AND FL.



SCHEMATIC DIAGRAM

JU04	RU05			RUI2	RU01		RU52	RU51	R	
					CU02	CU01			C	
QU05	QU07		QU06	QU03	QU09	QU01	QU04	QU52	QU51	
QU07	DU18	DU06	DU02	DU03	DU04	DU17		DU51	DU52	DU53
				GU01-1/2						
										G-S-V-X



To JV06 (PV04)

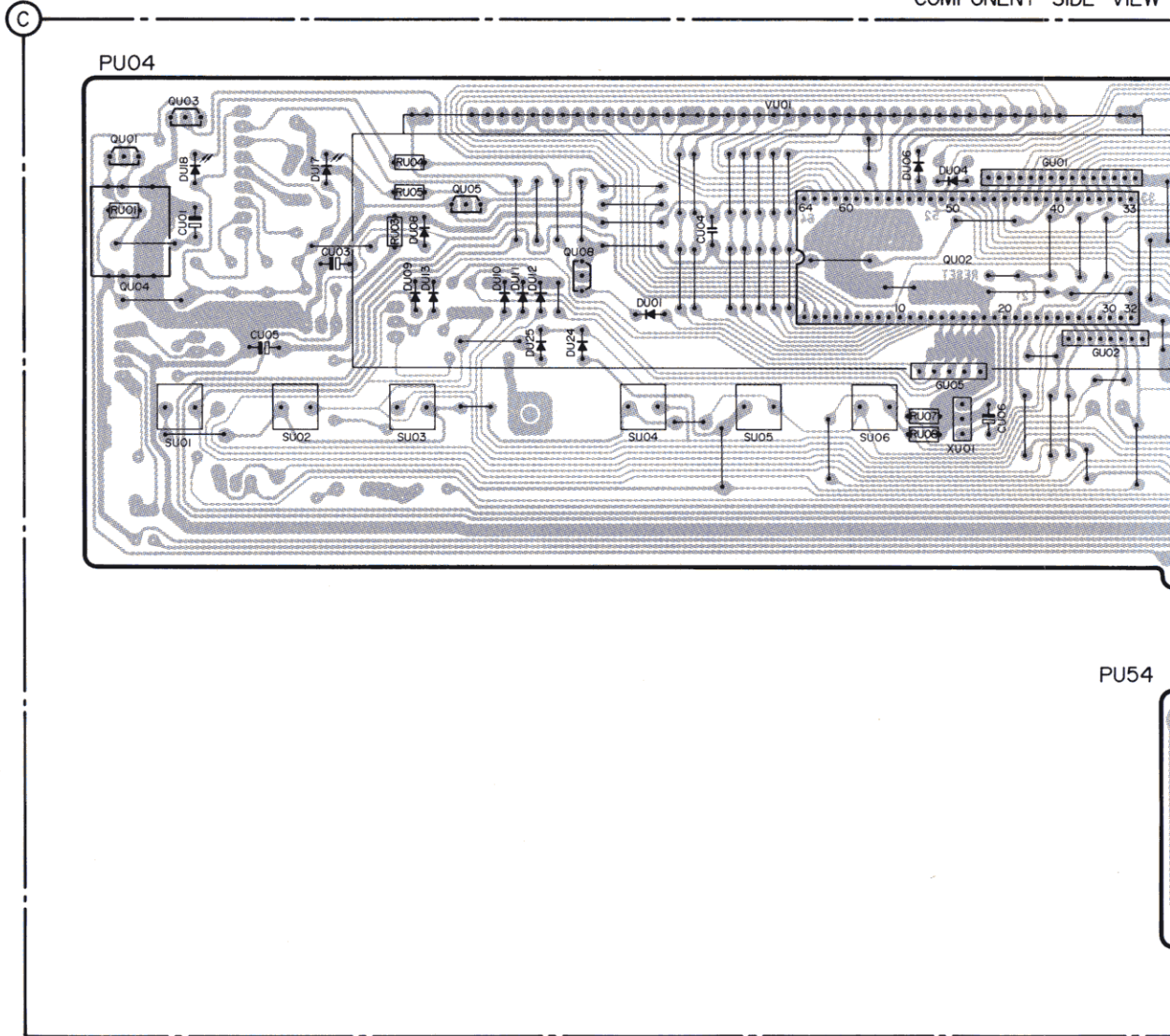
To JV07 (PV04)



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	SU01	SU02	SU03	SU04		SU05	SU06	XU01

COMPONENT SIDE VIEW

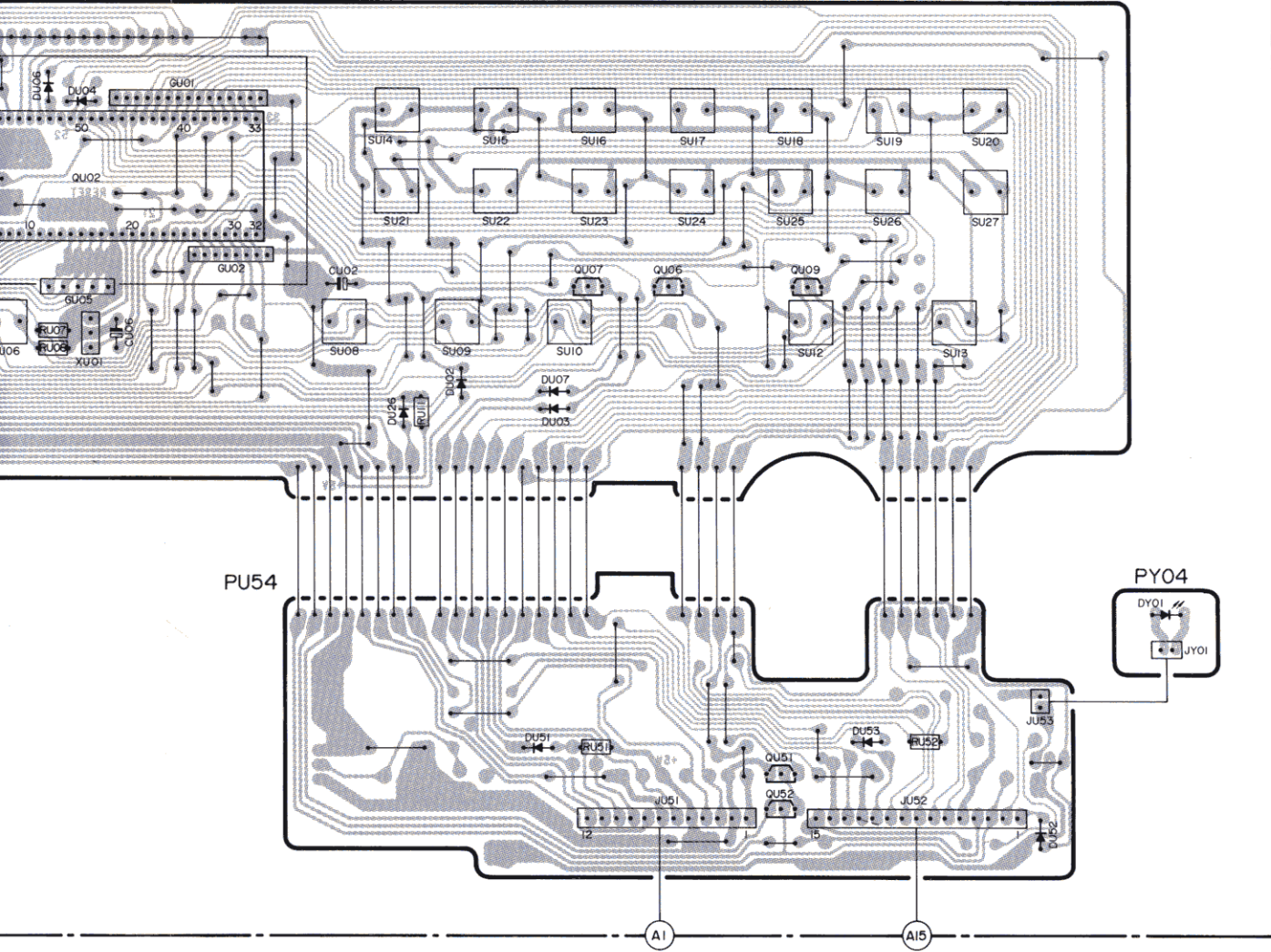




WIRING DIAGRAM

RU07 RU08 GU05	CU06	GU01	GU02	CU02	RU11	RU51	RU52	R-G
QU02					QU07	QU06	QU51 QU52 QU09	C
DU06 DU04				DU26 DU02	DU51 DU07 DU03		DU53	Q
				SU14	SU15	SU16	SU17	D
				SU18	SU19	SU20		S-V-X
U06	XU01			SU08 SU21	SU09 SU22	SU10 SU23	SU24	
				SU25 SU12	SU26	SU13 SU27		

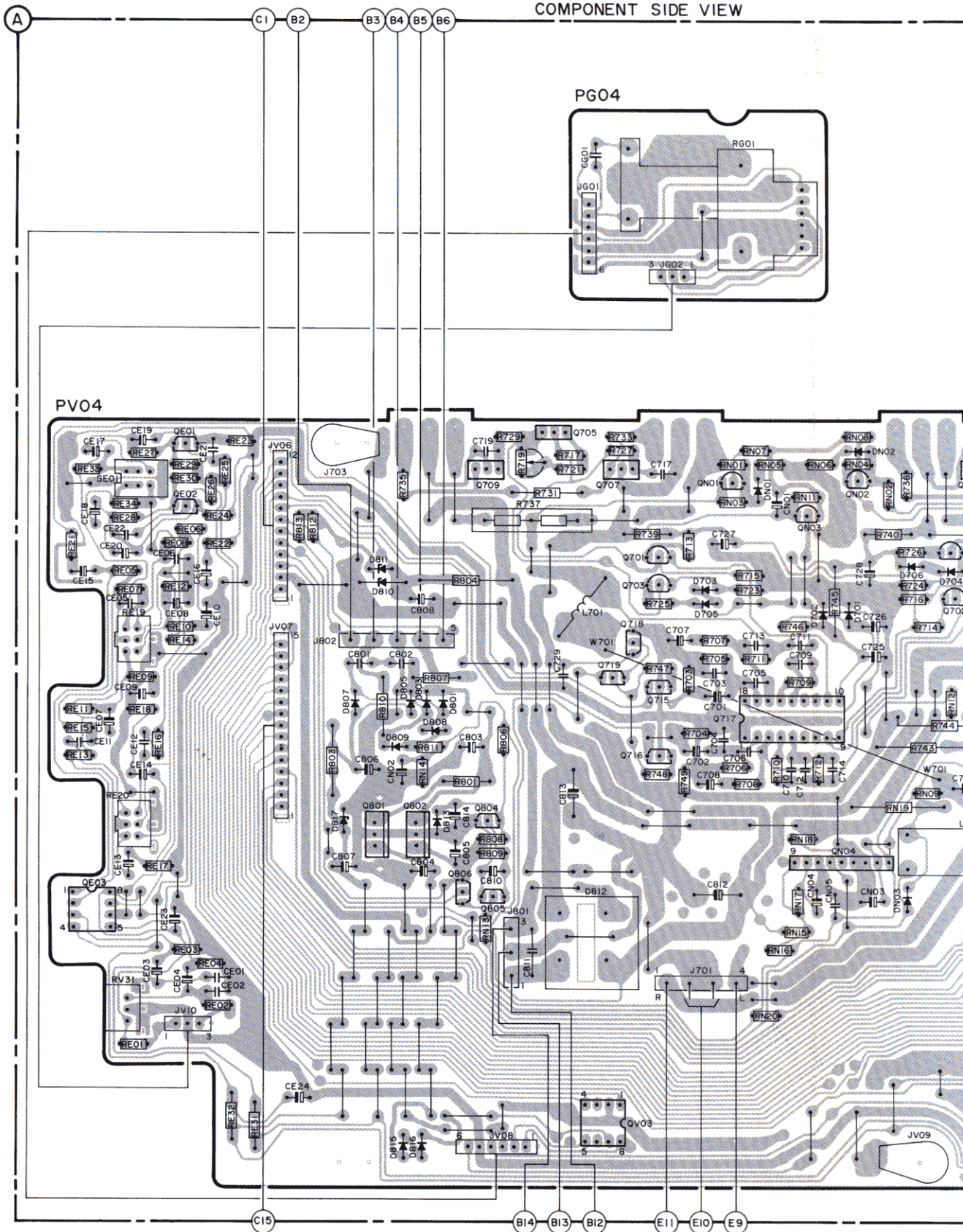
COMPONENT SIDE VIEW





WIRING DIAGRAM

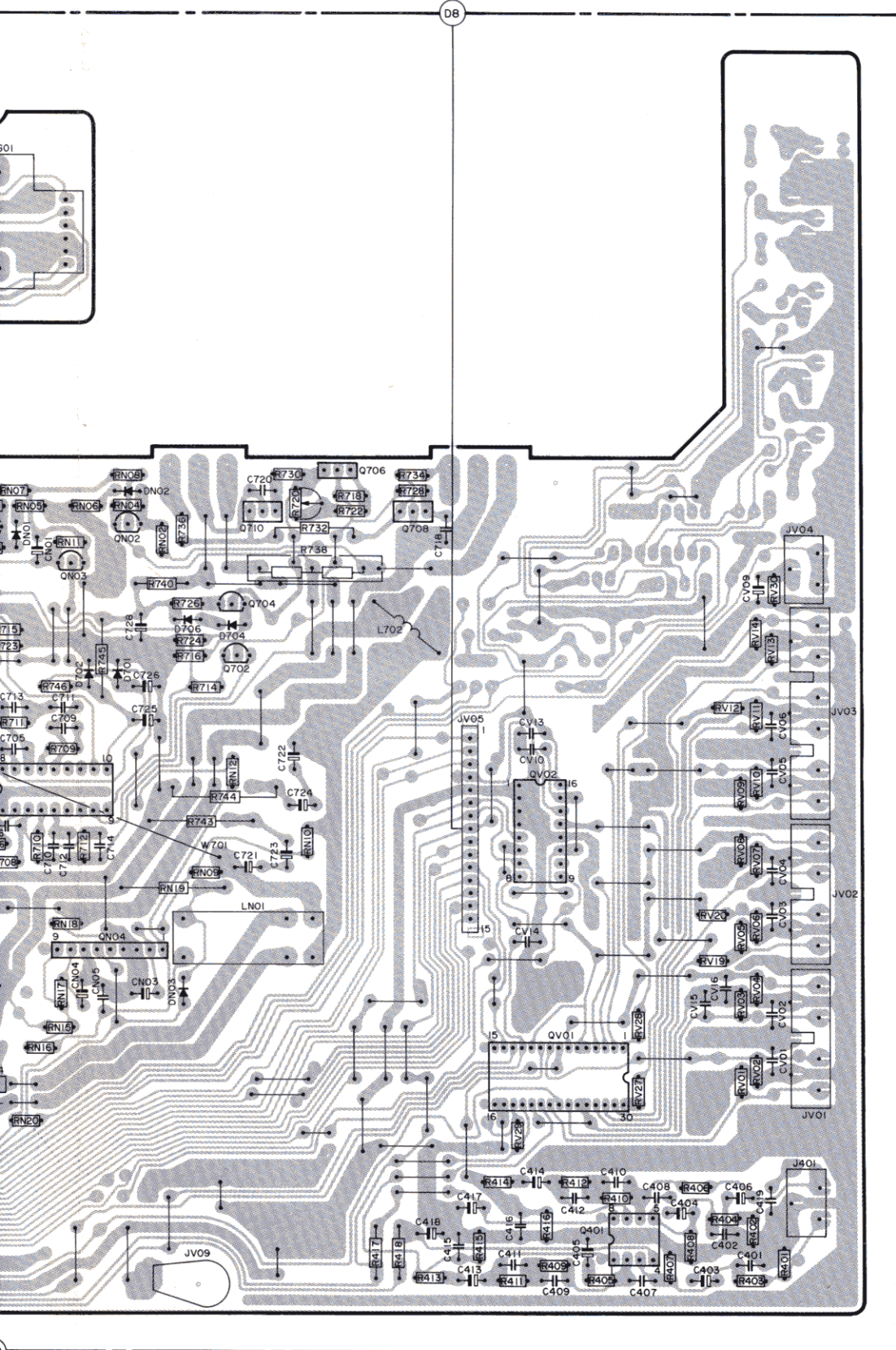
R	RE33 RE34 RE21~RE30 RE05~RE14 RE15~RE20 RE01~RE04 RV31	R813 R812 R803	R735 R806~R811	R804 R729 R719 R717 R721 R733 R727 R801 R737 R731	RG01 RNO1~RNO8 RN11 R739 R725 R703~R716 R723	R740 R736 R743~R746 R726 R724 RN09 RN12
C	CE15~CE22 CE05~CE14	RE32 RE31 C801~C808	C719 C810~C814	CG01 C729	C717 C727 C701~C714	CNO1 C728 CNO3~CNO5 C721~C728
Q	QE03 QE01 QE02	CE24 CNO2	Q709 Q801 Q802 Q804~Q806	Q705 Q707 Q701 Q703 QNO1 QV03 Q715~Q719	QNO3 QNO2 QNO4	Q702 QNO3 QNO2 QNO4
D			D817 D807~D811 D815 D816 D805 D803 D801 D813 D812			DNO1 D701~D706 DNO2 DNO3
L-S	SE01			L701		



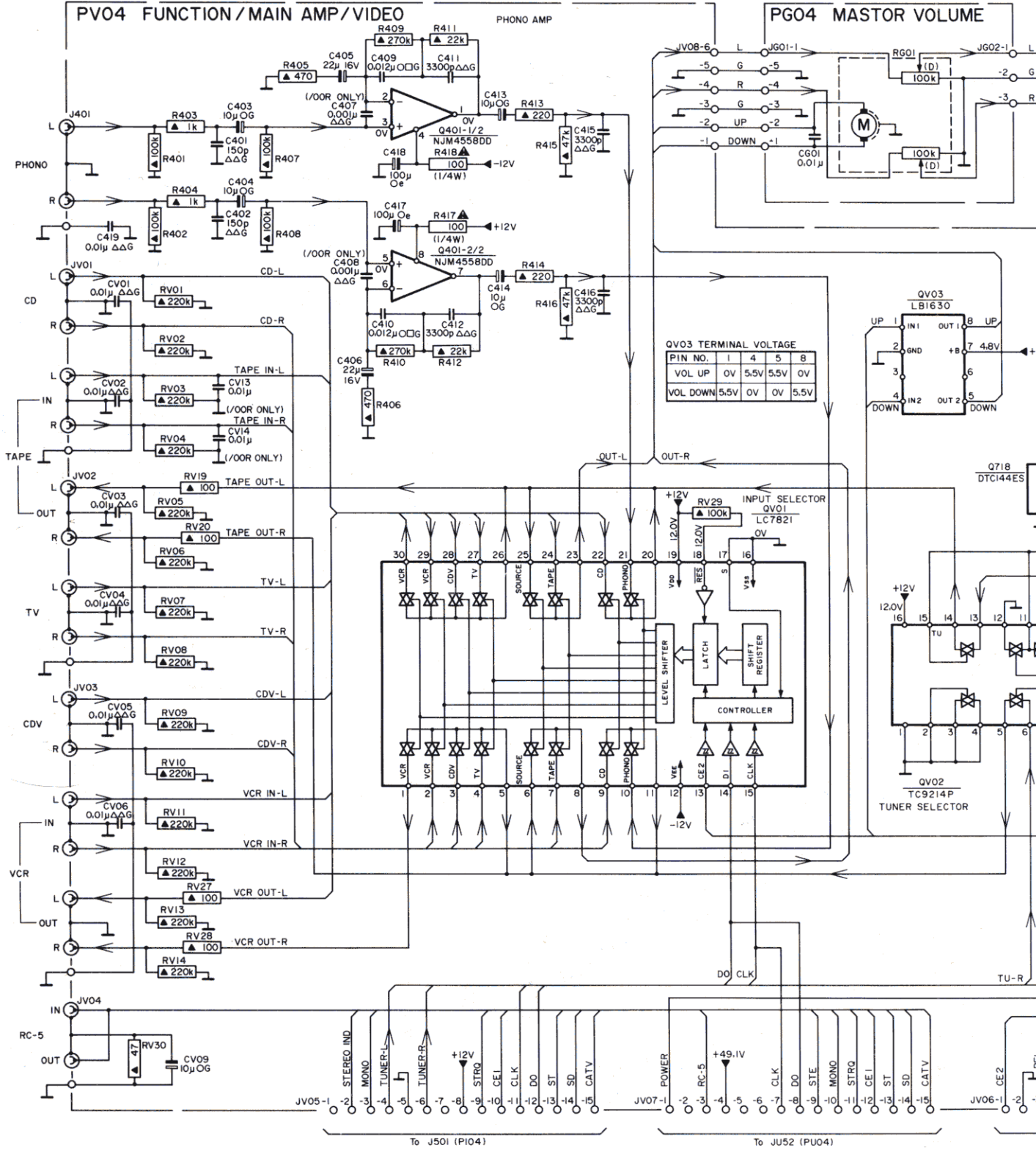


NG DIAGRAM

RN08 RN11	R740 R736	R730 R720 R718 R722 R734 R728	RV30	R
R716 R723	R743~R746 R726 R724	R732 R738	RV27~RV29 RV20 RV19 RV01~RV14	
RN15~RN20	RN09 RN12	RN10	R401~R418	
CN01	C728	C720	C718 CV13 CV10	CV09
CN03~CN05	C721~C726		CV14	CV15 CV16 CV01~CV06
QN03 QN02	Q702 Q704 Q710	Q706 Q708	C401~C419	Q
QN04			QV02 QV01 Q401	D
DN01 D701~D706	DN02 DN03			L-S
	LN01	L702		



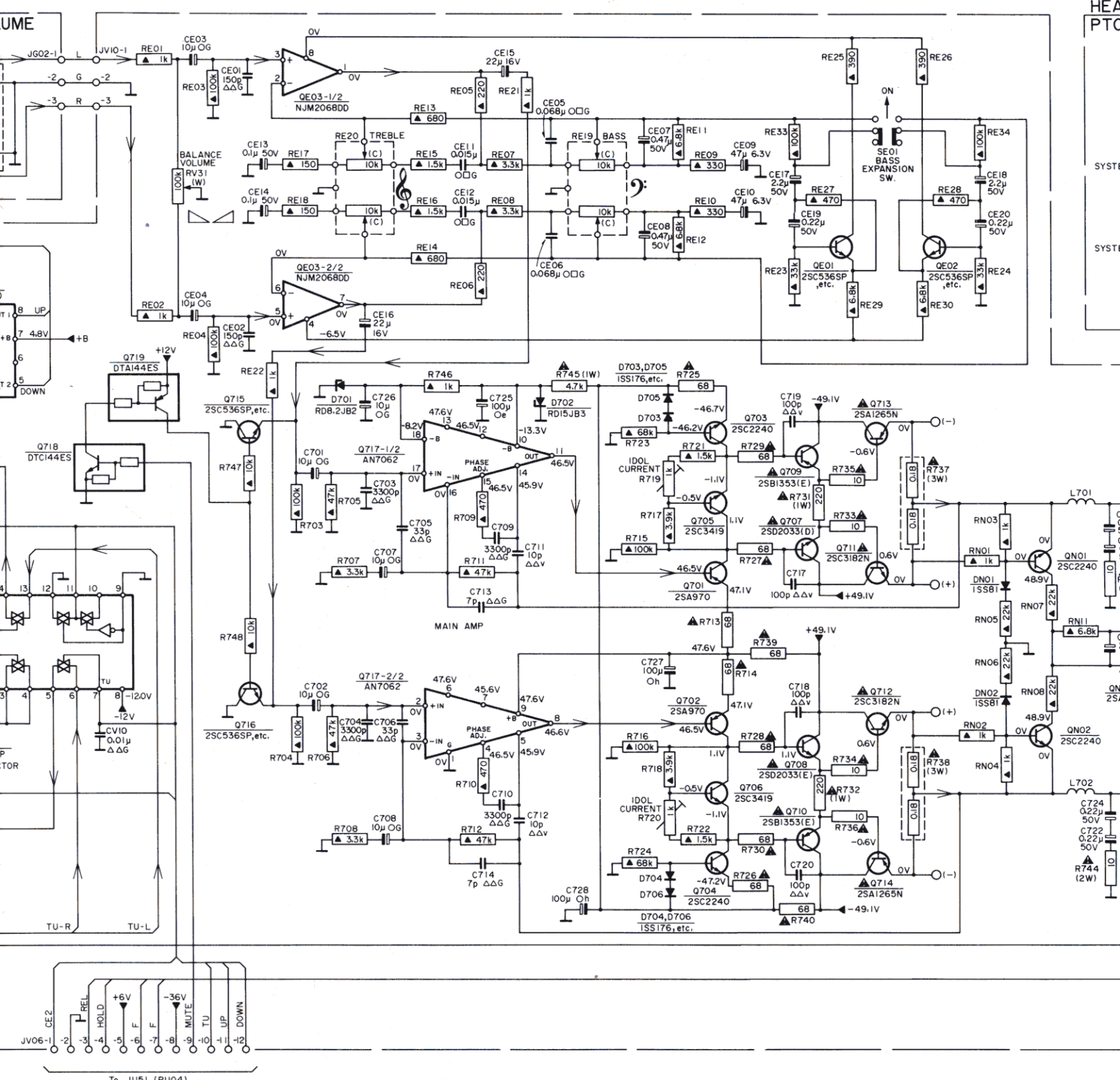
R	RV01~RV14 R401~R404	R405~R418	RG01
C	CV01~CV06 CV09 CV13 CV14	C401~C418	CV10
Q		Q401	QV01 QV03 QV02 Q718
D			
F-L-S-T			





SCHMATIC DIAGRAM

RE01~RE04 RV31	RE17 RE18 RE20	RE13~RE16 RE05~RE07 RE21	RE19	RE09~RE12	RE33	RE23~RE30	RE34
R747 R748 RE22	R703~R708	R746 R709~R712	R745		R715~R738		RN01~RN08 RN11 R744 R74
CV10	CE01~CE04 CE13 CE14	C701~C708 CE16 C726 CE11 CE12 C725 CE15	C709~C714 CE05~CE10 C728 C727	CE17 CE19 C717~C720			CN01 C
V02 Q718	Q719	Q715 Q716 QE03 Q717		Q701~Q714 QE01		QE02	QN01~QN0
		D701	D702	D703~D706			DN01 DN02
						SE01	



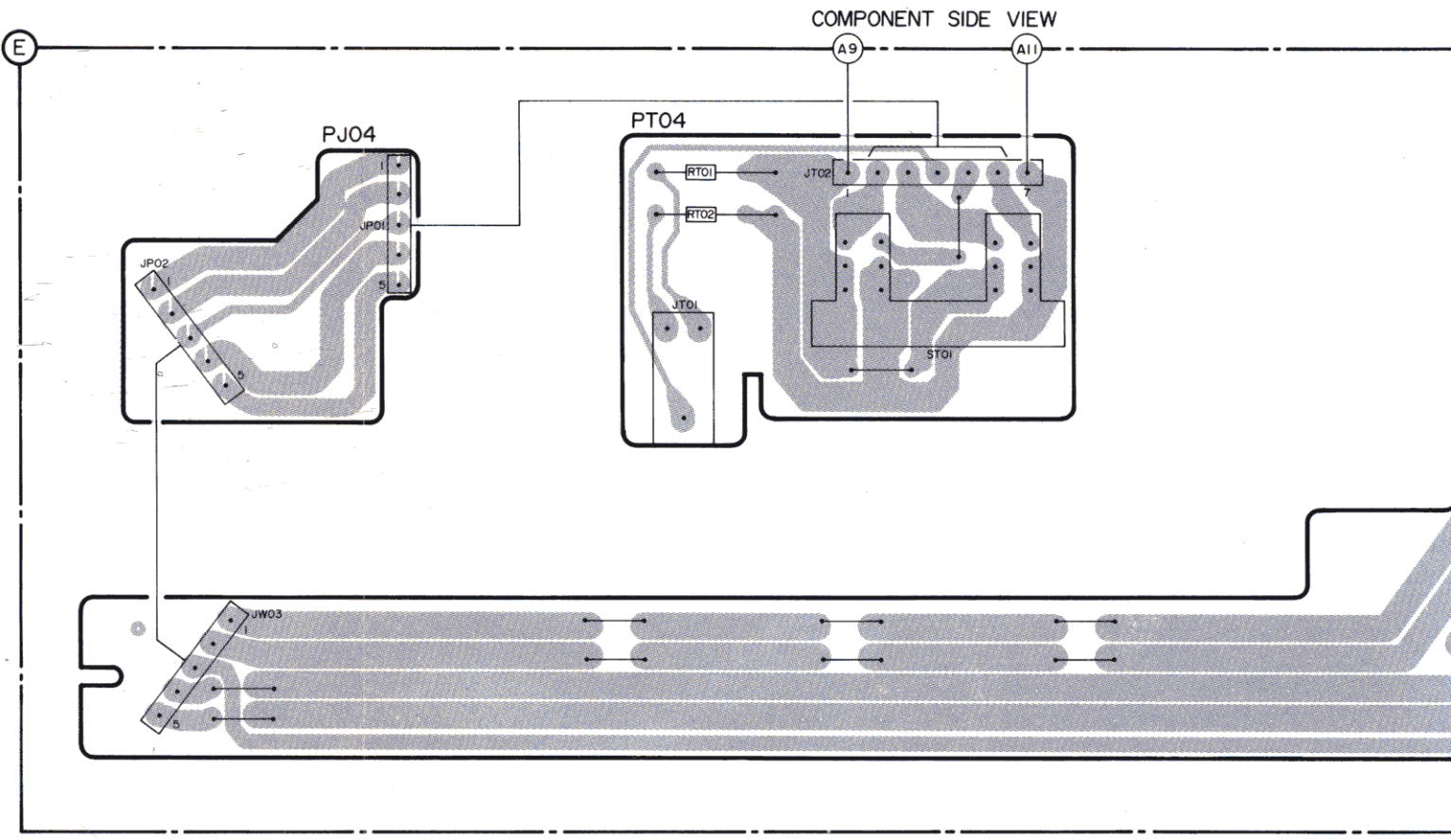
**NOTE ON SAFETY:**  
 Symbol ▲ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol ▲. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.



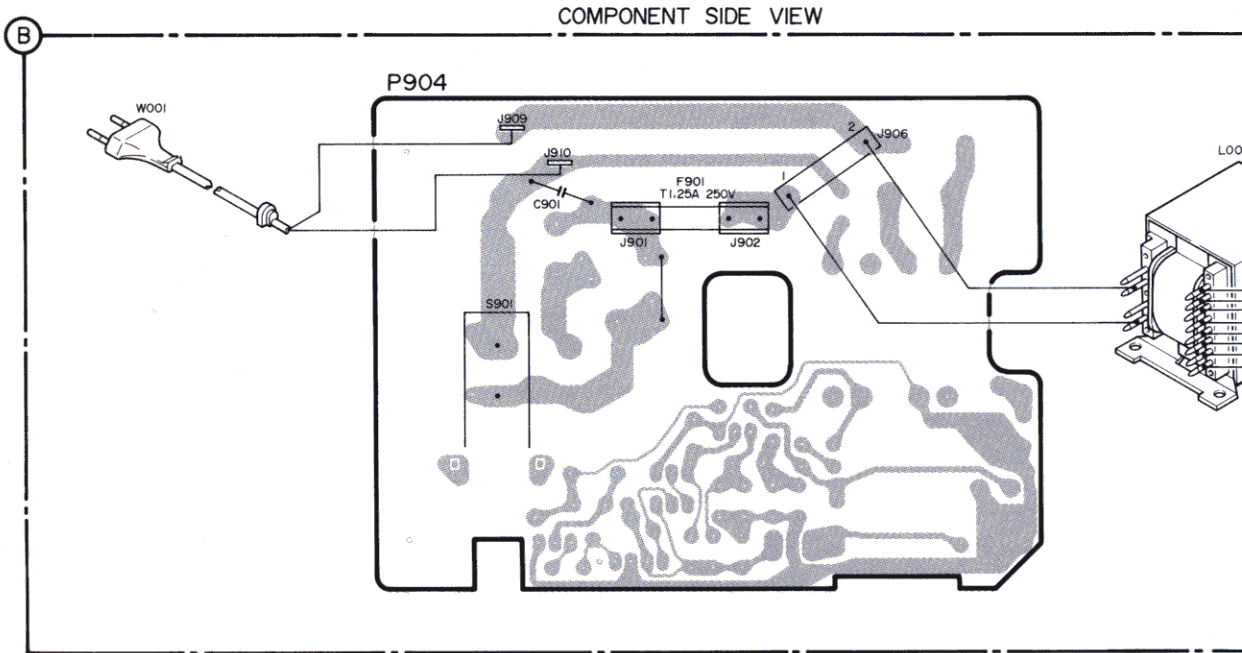


WIRING DIAGRAMS

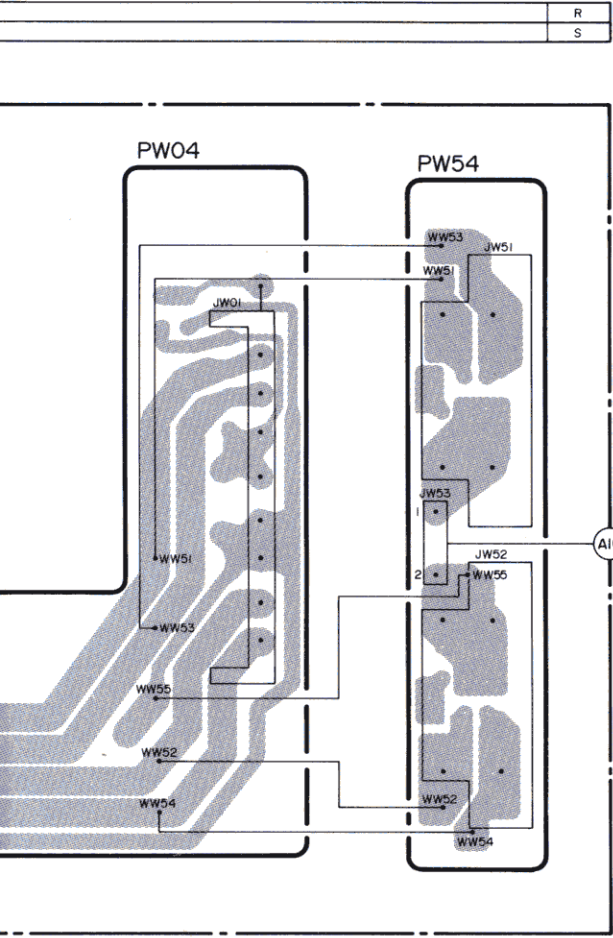
R	RT01 RT02	ST01
S		



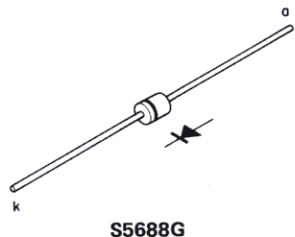
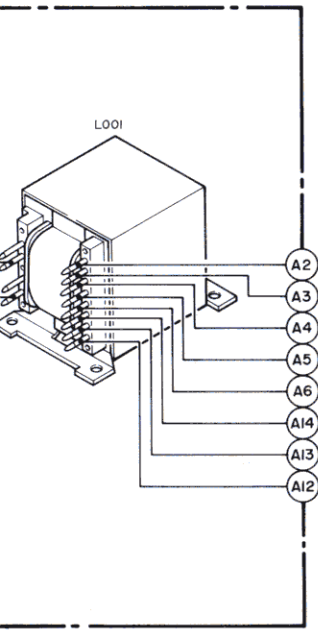
C	C901	F901	LOO
F-L-S	S901		



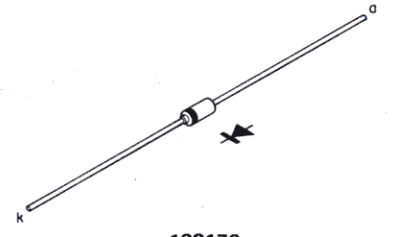
Semiconductor Layout



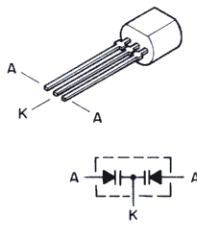
	C
L001	F-L-S



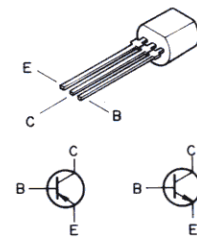
S5688G



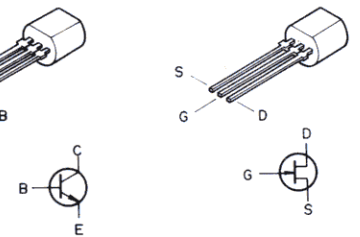
1SS176  
HSS81TD



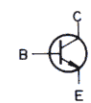
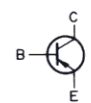
SVC342



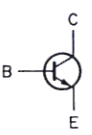
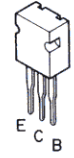
2SA970



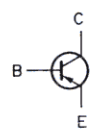
2SK30A(Y)



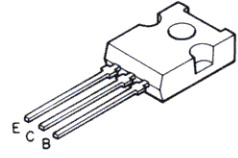
2SC2240  
2SC2047(C)



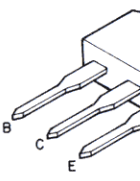
2SD2033



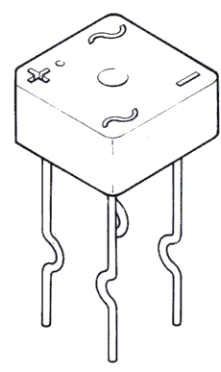
2SB1353



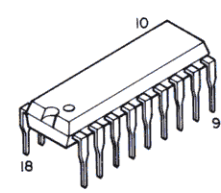
2SC3419



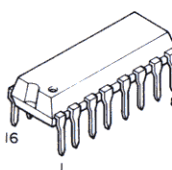
2SC318



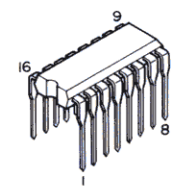
BR82



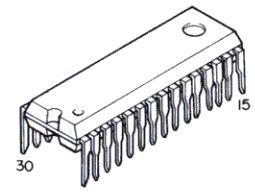
AN7062



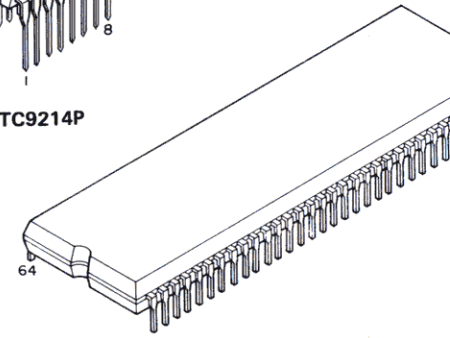
TEA5581



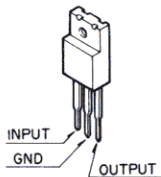
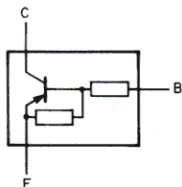
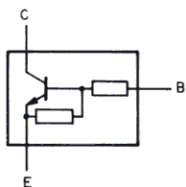
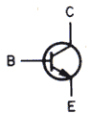
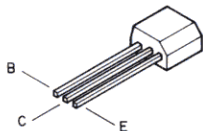
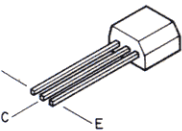
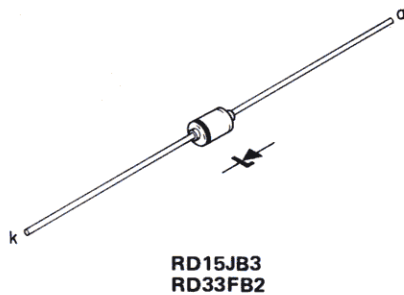
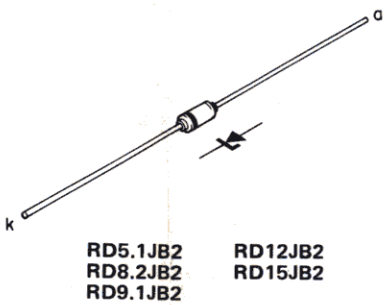
TC9214P



LC7821



TMP47C870N

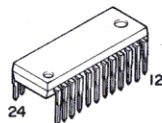
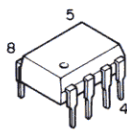
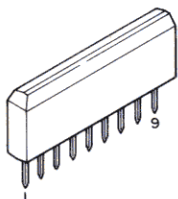
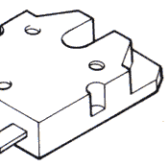


2SC536SP  
2SD2144S

DTC144ES

DTA144ES

NJM7806FA  
NJM7812FA

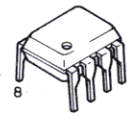


LB1630

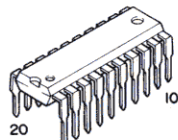
LA1266



TA7317P



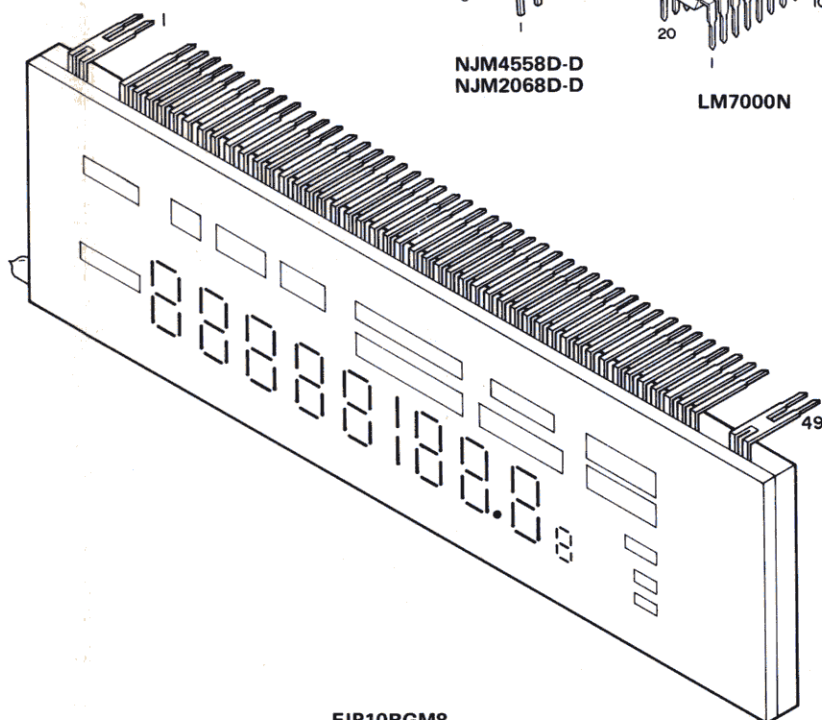
NJM4558D-D  
NJM2068D-D



LM7000N

2SA1265

- 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



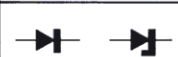

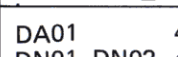




FIP10BGM8







	
<p>QN01, QN02 4822 130 43233 2SC2240 (GR, BL)          Q703, Q704          QN03 4822 130 42951 2SA970 (GR, BL)          Q701, Q702          Q705, Q706 4822 130 60117 2SC3419(Y)          Q707, Q708 4822 130 62335 2SD2033(E)          Q709, Q710 4822 130 62334 2SB1353(E)          Q711, Q712 4822 130 61747 2SC3182(R, O)          Q713, Q714 4822 130 61746 2SA1265(R, O)          Q715, Q716 4822 130 61892 2SD2144S(U, V)          QU03, QU08 4822 130 42594 DTC144ES          QU09, QU51          Q718          QA04 4822 130 42682 DTA144ES          QU01, QU06          QU07, QU52          Q204          Q719, Q806          QE01, QE02 4822 130 42298 2SC536SP (2SC2458,          QU05 2SC3311, 2SC1740S)          Q502, Q504          Q804, Q805          Q202 4822 130 42082 2SC2047(C)          QU04 4822 130 82139 PAS-C0617 (Photo unit)          Q503 4822 130 42121 2SK30AY</p>	<p>Q717 4822 209 83732 AN7062P          Q801 4822 209 60826 NJM7812FA          Q802 4822 209 61533 NJM7806FA</p>
	 <p>LA01 4822 157 63084 ANT coil, MW 280 μH          LA02 4822 157 52716 OSC coil, MW          LA05 4822 157 53589 Choke coil 39 mH          LA06 4822 148 81095 I.F.T. coil, AM          LN01 4822 280 70354 Relay          L201 4822 157 62408 I.F.T. coil          L202 4822 157 62409 I.F.T. coil          L701 4822 157 63085 Choke coil, speaker          L702 4822 157 63085 Choke coil, speaker</p>
	
<p>DA01 4822 125 50416 SVC342          DN01, DN02 4822 130 80837 HSS81TD          DN03 4822 130 33305 1SS176 (MA165, 1SS254)          DU01÷DU09          DU13          DU24÷DU26          DU51÷DU53          D301          D703÷D706          D813          DU17, DU18 4822 130 80326 LT3D8B          DY01          D501 4822 130 80317 RD5.1JB2 (MTZJ5.1B)          D701 4822 130 80273 RD8.2JB2 (MTZJ8.2C)          D702 4822 130 80322 RD15JB3 (MTZJ16A)          D801, D803 4822 130 80839 S5688G          D805          D807÷D809          D815, D816          D810 4822 130 81287 RD33F-B2          D811 4822 130 80319 RD9.1JB2 (MTZJ9.1C)          D812 4822 130 81093 BR82          D817 4822 130 80091 RD12JB2 (MTZJ12C)</p>	<p>GU01 4822 111 91936 Res. network 10k x 14          GU02 4822 111 91678 Res. network 10k x 7          RA13 4822 100 11352 Potm. trimmer 22k          RE19 4822 101 30754 Potm. bass 10k (C)          RE20 4822 101 30754 Potm. treble 10k (C)          RG01 4822 100 11712 Potm. drive 100k (D) x 2          RN19 4822 116 60332 Res. met. oxide 1k 2W          RT01 4822 116 60262 Res. met. oxide 330E 2W          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          R210 4822 050 21501 Res. metal film 150E 1/4W          R211 4822 100 11471 Potm. trimmer 100k          R301 4822 100 11351 Potm. trimmer 10k          R311 4822 116 52849 Res. metal film 220E 1/4W          R314 4822 100 11373 Potm. trimmer 4.7k          R417 4822 050 21021 Res. metal film 100E 1/4W          R418 4822 050 21021 Res. metal film 100E 1/4W          R514 4822 116 52849 Res. metal film 220E 1/4W          R713 4822 050 26809 Res. metal film 68E 1/6W          R714 4822 050 26809 Res. metal film 68E 1/6W          R719 4822 100 11386 Potm. trimmer 10k          R720 4822 100 11386 Potm. trimmer 10k          R725÷R730 4822 050 26809 Res. metal film 68E 1/6W          R731 4822 116 60246 Res. safety 220E 1W          R732 4822 116 60246 Res. safety 220E 1W          R733÷R736 4822 111 91291 Res. safety 10E 1/6W          R737 4822 116 82049 Res. metal film 0.18E x 2 3W          R738 4822 116 82049 Res. metal film 0.18E x 2 3W          R739 4822 050 26809 Res. metal film 68E 1/6W          R740 4822 050 26809 Res. metal film 68E 1/6W          R743 4822 111 90726 Res. safety 10E 2W          R744 4822 111 90726 Res. safety 10E 2W          R745 4822 116 82523 Res. metal film 4.7k 1W          R803 4822 116 60331 Res. met. oxide 1k 1W          R804 4822 116 82525 Res. fuse 390E 1/2W          R807 4822 116 60306 Res. met. oxide 1E 1/2W          R810 4822 116 60306 Res. met. oxide 1E 1/2W</p>
	<p>QE03 4822 209 73064 NJM2068DD          QU02 4822 209 62558 TMP47C870N-4668          QN04 4822 209 83312 TA7317P          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</p>

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