



For Service Manuals Contact  
MAURITRON TECHNICAL SERVICES  
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Oxon OX9 4QY  
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Email:- enquiries@mauritron.co.uk

## SERVICE SAFETY PRECAUTIONS (UL)

1. Use exact replacement parts for critical locations marked "⚠"
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 the AC cord; turn power switch ON.
    2. Connect one lead of High Voltage Insulation Tester to both prongs of the 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 the AC outlet: do not use isolation transformer.
    2. Connect one lead of the 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.


AV716  
RECEIVER

AV716  
RECEIVER



# SERVICE SAFETY PRECAUTIONS

## 1. Replacing the fuses

 This symbol located near the fuse indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating refer to the marking adjacent to the symbol.

Circuit No.	Part No.	Description
F901	252166Y	6.3A-UL/T-237, Primary <AH>
F902	252076 or 252076Y	3.15A-SE-EAK, Primary <B><B1><C>
F903	252075 or 252075Y	2.5A-SE-EAK, AC outlet <B><C>
F911	252166Y	6.3A-UL/T-237, Secondary <AH>
	252079	6.3A-SE-EAK, Secondary <B><B1><C>
F912	252166Y	6.3A-UL/T-237, Secondary <AH>
	252079	6.3A-SE-EAK, Secondary <B><B1><C>

NOTE: <AH>: U.S.A., Canadian model only  
<B>: U.K. model only  
<B1>: Australian model only  
<C>: European model only

## 2. Memory preservation

This unit does not require memory preservation batteries. A built-in memory power back-up system preserves contents of the memory during power failures and even when the unit is unplugged. The unit must be plugged in and the power switch turned on and off once in order to charge the back-up system. Note that since this is not a permanent memory the power switch must be turned on and off a few times each month to keep the back-up system operative. The period of time during which memory contents are preserved after power has last been turned off varies depending on climate and placement of the unit. On average, memory contents are protected over a period of 3 to 4 weeks (a minimum of 2 weeks) after the last time power has been turned off. This period is shorter when the unit is exposed to very high humidity or used in an area with an extremely humid climate.

## 3. Safety-check out

(Only U.S.A. model)

After correcting the original service problem perform the following safety check before releasing the set to the customer.

Connect the insulating-resistance tester between the plug of power supply cord and the screw on the back panel.

Specifications : 3.3 Mohm  $\pm$  10% at 500V.

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SPECIFICATIONS

AMPLIFIER SECTION

POWER OUTPUT:

Stereo Mode: 2 x 80 Watts cont. into 8 ohms

2 x 115 Watts cont. 4 ohms, 1 kHz

3 x 55 Watts (left, right, center)

2 x 20 Watts Rear or Remote Channels

0.08% at rated power (Front)

0.08% at rated power (Front)

60 at 8 ohms (Front)

2.5 mV/50 kohms

150 mV/50k ohms

20 to 30,000 Hz  $\pm$  1dB

20 to 20,000 Hz  $\pm$  1dB

$\pm$  10 dB at 100Hz

Bass:  $\pm$  10 dB at 10,000Hz

Treble: 80 dB (IHF A, 5mV input)

Phono: 100 dB (IHF A)

Line:

TUNER SECTION

FM:

Input Sensitivity 1  $\mu$ V

Total Harmonic Distortion 0.15%

Stereo: 0.25%

45 dB at 1 kHz

Mono: 73 dB

Stereo: 67 dB

AM:

Usable Sensitivity 30  $\mu$ V

Signal to Noise Ratio 40dB

Total Harmonic Distortion 0.7%

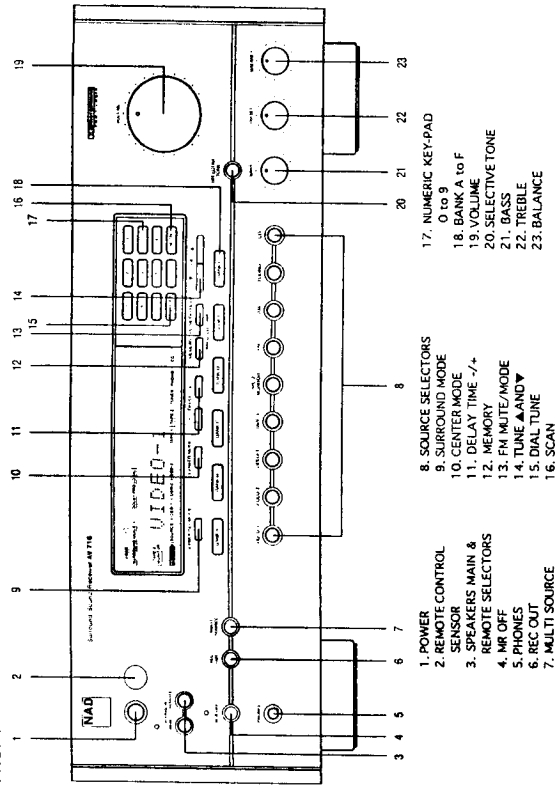
Dimensions in mm (W x H x D)

Net Weight 455 x 168 x 375

13.2 kg/29.1 lbs.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

FRONT PANEL CONTROLS



1. POWER

2. REMOTE CONTROL SENSOR

3. SPEAKERS MAIN & REMOTE SELECTORS

4. NR OFF

5. PHONES

6. REC OUT

7. MULTI SOURCE

8. SOURCE SELECTORS

9. SURROUND MODE

10. CENTER MODE

11. DELAY TIME +/-

12. MEMORY

13. FM MUTE/MODE

14. TUNE  $\Delta$  AND  $\nabla$

15. DIAL TUNE

16. SCAN

17. NUMERIC KEY-PAD 0 to 9

18. BANK A to F

19. VOLUME

20. SELECTIVE TONE

21. BASS

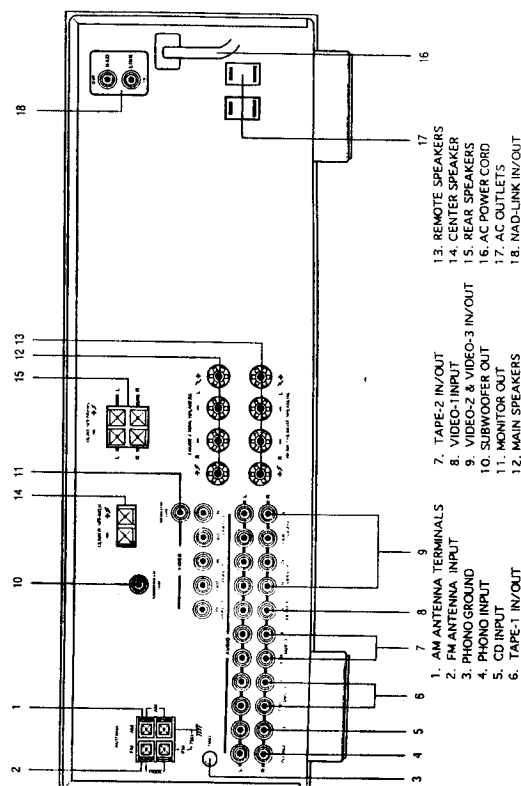
22. TREBLE

23. BALANCE

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

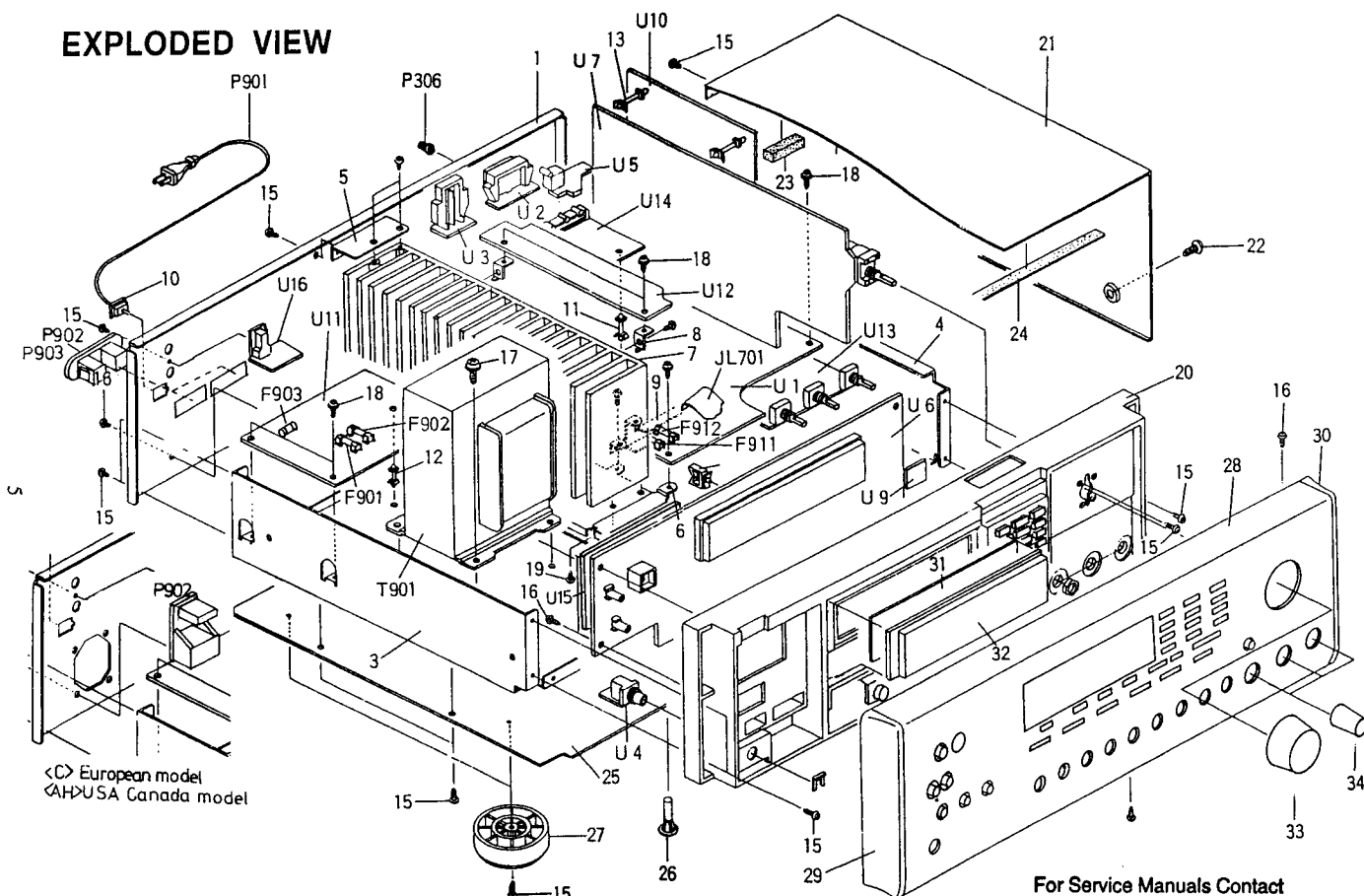
REAR PANEL CONNECTIONS



1. AM ANTENNA TERMINALS
2. FM ANTENNA INPUT
3. PHONO GROUND
4. PHONO INPUT
5. CD INPUT
6. TAPE-1 IN/OUT
7. TAPE-2 IN/OUT
8. VIDEO-1 INPUT
9. VIDEO-2 & VIDEO-3 IN/OUT
10. SUBWOOFER OUT
11. MONITOR OUT
12. MAIN SPEAKERS
13. REMOTE SPEAKERS
14. CENTER SPEAKERS
15. REAR SPEAKERS
16. AC POWER CORD
17. AC OUTLETS
18. NAD-LINK IN/OUT



# EXPLODED VIEW



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## EXPLODED VIEW PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	27121927AY	Rear Panel <AH>	Q543	2202263	* 2SA1516-O, Power transistor	U2	1A548593-6Y	NAETC-4693-6, Center speaker terminal pc board ass'y <AH>
2	27121929BY	Rear Panel <B><B1><C>		2202253 or	* 2SC4467-O or		1A548593-6AY	NAETC-4693-6A, Center speaker terminal pc board ass'y <B><B1><C>
3	27130717AY	Side Bracket (PT)		2202254 or	* 2SC4467-Y or			
4	27115255Y	Side Bracket		2202256 or	* 2SC4467-P or			
5	27141607AY	Retainer (H)		2202502 or	* 2SC3181N-R or			
6	27130718AY	Retainer (H)		2202503	* 2SC3181N-O, Power transistor	U3	1A548594-6Y	NAETC-4694-6, Speaker terminal pc board ass'y <AH>
7	27160323Y	Heatsink	Q544	2202243 or	* 2SA1694-O or		1A548594-6AY	NAETC-4694-6A, Speaker terminal pc board ass'y <B><B1><C>
8	27141530A	Retainer (HS-2)		2202244 or	* 2SA1694-Y or			
9	27141532	Retainer (PD-1)		2202246 or	* 2SA1694-P or			
10	27300750	Δ Cord Bushing		2202492 or	* 2SA1264N-R or			
11	27190369	Holder		2202493	* 2SA1264N-O, Power transistor	U4	1A548595-6Y	NAETC-4695-6, Headphone terminal pc board ass'y
12	27190480-1 or	Holder	Q575,Q576	2202063 or	* 2SC4511-O or	U5	1A548596-6Y	NAETC-4696-6, Output terminal pc board ass'y
13	27190480	Holder		2202064 or	* 2SC4511-Y or			
14	801433	Holder	Q577,Q578	2202066	* 2SC4511-P, Power transistor	U6	1A548597-6Y	NADIS-4697-6, Display circuit pc board ass'y <AH>
15	834430088	Self-tapping screw		2202053 or	* 2SA1725-O or		1A548597-6AY	NADIS-4697-6A, Display circuit pc board ass'y <B><B1><C>
16	834430080	3TTS+8B(BC), Self-tapping screw	T901	2202054 or	* 2SA1725-Y or			
17	830440089	4TTC+8B(BC), Self-tapping screw		2202056	* 2SA1725-P, Power transistor	U7	1A548598-6Y	NAAF-4698-6, Surround circuit pc board ass'y <AH><B1>
18	831130088	3TTW+8B, Self-tapping screw		2300891AY	Δ NPT-1168D, Power Transformer		1A548598-6AY	NAAF-4698-6A, Surround circuit pc board ass'y <B><C>
19	834430108	3TTS+10B(BC), Self-tapping screw		2300892AY	Δ NPT-1168Q, Power Transformer	U9	1A548500-6Y	NASW-4700-6, STC switch pc board ass'y
20	27110818AY	Front Bracket ass'y			Δ NPT-1168P, Power Transformer		1A548501-6Y	NARF-4701-6, Tuner circuit pc board ass'y <AH>
21	28184571Y	Top Cover			Δ NPT-1168R, Power Transformer		1A548501-6AY	NARF-4701-6A, Tuner circuit pc board ass'y <B><B1><C>
22	838440089	4TTB+8C(BC), Self-tapping screw	P306	25060044	Ground terminal post		1A548502-6Y	NAPS-4702-6, Power supply circuit pc board ass'y <AH>
23	28141132	Cushion, 16x60x10	P901	253163Y or	Δ AS-UC-6 #18, Power Supply Cord		1A548502-6AY	NAPS-4702-6B, Power supply circuit pc board ass'y <B1>
24	28140680	Cushion, 0.5x180x8		253174Y	Δ AS-BC, Power Supply cord <B>		1A548502-6AY	NAPS-4702-6A, Power supply circuit pc board ass'y <B><C>
25	27170300AY	Bottom Board		253196HIT	Δ AS-SAA, Power Supply Cord <B1>	U11	1A548503-6Y	NAAF-4703-6, Rear amplifier pc board ass'y <AH>
26	27190926-1 or	Holder		253188HIT	Δ AS-CEE, Power Supply Cord <C>		1A548503-6AY	NAAF-4703-6A, Rear amplifier pc board ass'y <B><B1><C>
27	27175300Y	Leg ass'y		253164Y or			1A548504-6Y	NAAF-4704-6, Tone control circuit pc board ass'y
28	1A548121Y	Front Panel ass'y	P902,P903	253175Y			1A548505-6Y	NAETC-4705-6, Video circuit pc board ass'y
29	28125263Y	End Cap (L)	F901	25051570Y	Δ NSCT-2P1357, AC outlet <B1>		1A548556-1Y	NAETC-5056-1, NAD Link converter ass'y
30	28125264Y	End Cap (R)	F902	252166Y	Δ 6.3A-UL/T-237, Primary Fuse<AH>		1A548557-1Y	NAETC-5057-1, NAD Link I/O pc board ass'y
31	28191686Y	Clear Plate (RE)		252076 or	Δ 3.15A-SE-EAK, Primary Fuse			
32	28133330	Filter	F903	252076Y	Δ 2.5A-SE-EAK, AC outlet Fuse	U12		
33	28325002A	Knob (VOL.) ass'y		252075Y	Δ 6.3A-UL/T-237, Secondary Fuse			
34	28325004Y	Knob (TONE)	F911	252166Y	Δ 6.3A-UL/T-237, Secondary Fuse	U13		
35	880009	Plastic Rivet, Speaker Terminal		252079	Δ 6.3A-SE-EAK, Secondary Fuse			
Q505,Q506	2201653 or	* 2SC3856-O or	P912	252166Y	Δ 6.3A-UL/T-237, Fuse <AH>	U14		
	2201654 or	* 2SC3856-Y or		252079	Δ 6.3A-SE-EAK, Fuse <B><B1><C>			
	2201655 or	* 2SC3856-P or	JL701	2041322010 or	NCFC7-322012, Flexible Flat Cable	U15		
	2202272 or	* 2SC3907-R or		2047322012	NAAR-4692-6, Main circuit pc board ass'y <AH>	U16		
	2202273	* 2SC3907-O, Power transistor	U1	1A548592-6Y	NAAR-4692-6A, Main circuit pc board ass'y <B><B1><C>			
Q507,Q508	2201663 or	* 2SA1492-O or		1A548592-6AY				
	2201664 or	* 2SA1492-Y or						
	2201665 or	* 2SA1492-P or						
	2202262 or	* 2SA1516-R or						

CAUTION: Replacement for transistor of mark "\*", if necessary, must be made from the same beta group (hfe) as the original type.

NOTE: THE COMPONENTS IDENTIFIED BY MARK Δ ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

NOTE: <AH>: U.S.A., Canadian model only  
<B>: U.K. model only  
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<C>: European model only



## 7



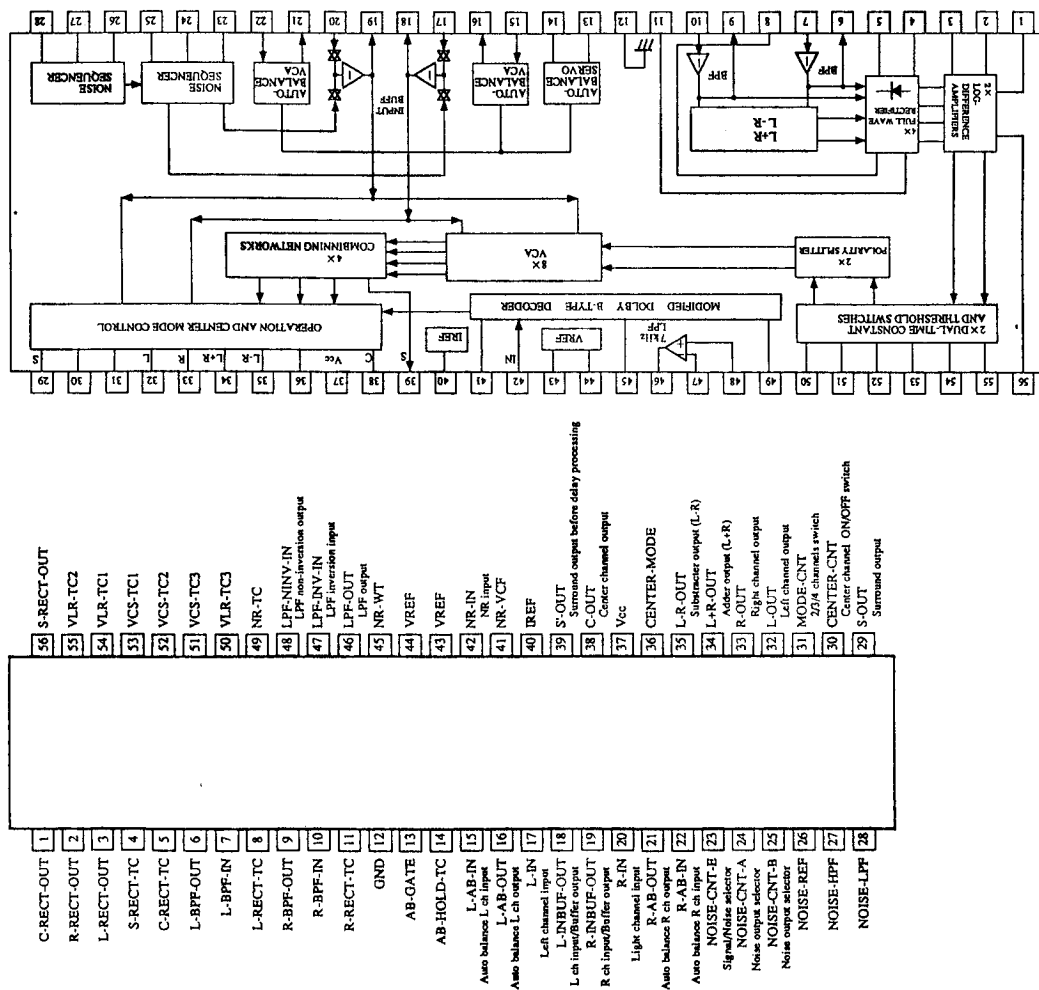
Pin No.	Function	I/O	Description
1	VCTLA	O	Video signal control A output terminal.
2	VCTLD	O	Video signal control D output terminal.
3	VCTLB	O	Video signal control B output terminal.
4	VCTLC	O	Video signal control C output terminal.
5	BAND 0	I	Initializing input terminal for F/W/M band region.
6	BAND 1	I	
7	FLDATA	O	Connect to the terminal SDA <sub>TA</sub> of Fluorescent tube driver M66004FP. (Q702)
8	FLSCK	O	Connect to the terminal SCK of Fluorescent tube driver M66004FP.
9	FLCS	O	Connect to the terminal CS of Fluorescent tube driver M66004FP.
-10	FLRESET	O	Connect to the terminal RESET of Fluorescent tube driver M66004FP.
11	PLAYER		Not used.
12	CMUT	O	Muting output terminal for the center amplifier.
13	FMUT	O	Muting output terminal for the front amplifier.
14	RMUT	O	Muting output terminal for the rear amplifier.
15	TUMUT	O	Muting output terminal for the tuner.
16	REQ	O	Connect to the terminal REQ of Digital delay M65830P. (Q651)
17	VSS	-	Ground terminal
18	LAT	O	Connect to the terminal LAT of Output extended IC $\mu$ PD6345C. (Q971)
19	EN	O	Connect to the terminal EN of Output extended IC $\mu$ PD6345C.
20	S.TONE	O	Selective tone control output terminal.
21	PLL	O	Connect to the terminal CE of PLL IC LM7001. (Q107)
22	DATA	O	Connect to the terminal DI of Analog switches LC7821N, LC7822N, and LC7823N, the terminal DATA of PLL IC LM7001, the terminal DATA of Electro volume TC9213P, the terminal DATA of Digital delay M65830P, and the terminal SIN of Output extended IC $\mu$ PD6345C.
23	CL	O	Connect to the terminal CL of Analog switches LC7821N, LC7822N, and LC7823N, the terminal CL of PLL IC LM7001, the terminal CK of Electro volume TC9213P, the terminal SCK of Digital delay M65830P, and the terminal SCK of Output extended IC $\mu$ PD6345C.
24	FUNC	O	Connect to the terminal CE of Analog switches LC7821N, LC7822N, and LC7823N. (Q309, Q310, Q692, Q308 and Q691)
25	STB	O	Connect to the terminal STB of Electro volume TC9213P. (Q671)
26	UP	O	Volume UP/DOWN control output. (Q999)
27	DOWN	O	Volume up
28	SYROUT	O	System code output terminal.

Recording Selector		
#4	#2	SOURCE
L	L	VIDEO-3
H	L	VIDEO-2
L	H	
H	H	VIDEO-1
Same as #1	Same as #3	Other position
Same as #1	Same as #3	Multi mode



## IC BLOCK DIAGRAMS AND DESCRIPTION

**Q602**  
**NJM2177L / M69032P (Dolby Pro Logic)**



Pin No.	Function	I/O	Description
29	MR	O	MULTI ROOM indicator control output.
30	STBY/RECV	O	STAND-BY/RECEIVED indicator control output.
31	POWER	O	Power switch relay control output.
32	VSS	-	Ground terminal.
33			Not used.
34			Not used.
35			Not used.
36			Not used.
37			Not used.
38			Not used.
39			Not used.
40	$\overline{ST}$	I	Stereo detection input terminal.
41	SD	I	Broadcast detection input terminal.
42	PROTECT	I	Protection circuit operation detection input terminal.
43	$\overline{RESET}$	I	System reset input terminal.
44	$\overline{REMIND}$	I	Remote control signal input terminal.
45	SYSIN	I	System code input terminal.
46	$\overline{POFF}$	I	Detection input terminal for the stoppage of electric current.
47			Not used.
48	VDD		Power supply terminal (+5V)
49	X2		Ceramic resonator connection terminal for the main system clock.
50	X1		Connect the ceramic resonator 8.38 MHz.
51	IC		Connect to the ground terminal.
52			Not used.
53	$\overline{REC/AMP}$		Connect to the ground terminal.
54	AVSS		Ground terminal of A/D converter.
55	K0	I	Operation key connection terminals.
56	K1	I	
57	K2	I	
58	K3	I	
59	K4	I	
60	K5	I	
61			Not used.
62	MODE	I	Connect to the ground terminal.
63	$\overline{SV/RDS}$		Analogous power supply terminal of A/D converter. (+5V)
64	AVREF		Reference voltage input terminal of A/D converter.

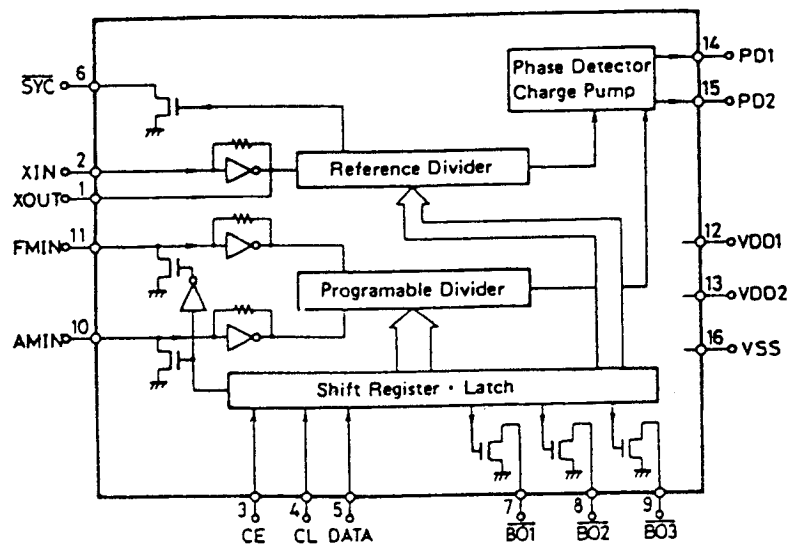
### Initializing Input

9# 5#

FS #6	BAND 1	BAND 0	Region	Band	Frequency Range	Channel Space
0	0	0	U.S.A.	FM	87.50 ~ 108.00MHz	50kHz
				AM	530 ~ 1710kHz	10kHz
				FM	87.50 ~ 108.00MHz	50kHz
0	0	1	European	AM	520 ~ 1611kHz	10kHz



**Q107**  
**LM7001 (PLL Synthesizer and Controller)**

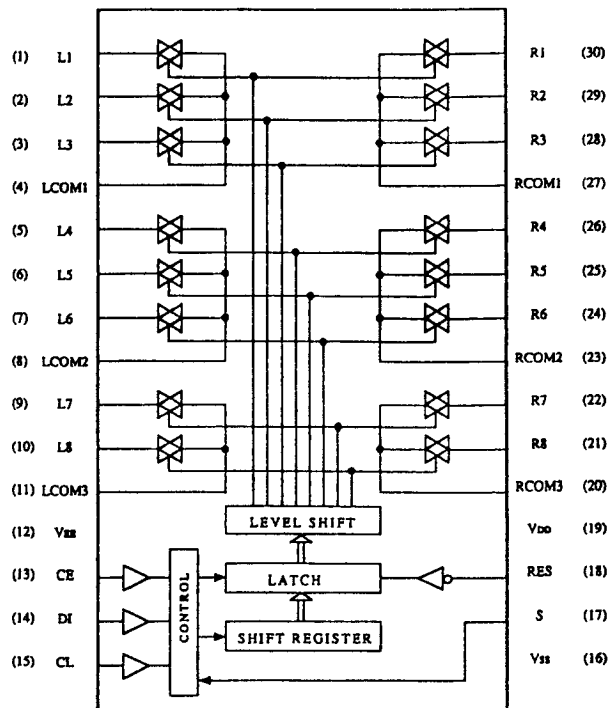


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Pin No.	Terminal	Description
1	XOUT	Connect to the 7.2 MHz crystal oscillator.
2	XIN	
3	CE	Chip enable terminal. Connect to the PLL terminal of microprocessor.
4	CL	Serial clock input terminal. Connect to the CLOCK terminal of microprocessor.
5	DATA	Serial data input terminal. Connect to the DATA terminal of microprocessor.
6	SYN	Not used.
7	AUTOMONO	AUTO/MONO selection output terminal. "L" when AUTO.
8	FM	FM band control output terminal. "L" when FM.
9	AM	AM band control output terminal. "L" when AM.
10	AMIN	AM local oscillator input terminal.
11	FMIN	FM local oscillator terminal.
12	VDD1	Power supply terminal for back-up.
13	VDD2	Power supply terminal.
14	PD1	Charge pump output of the phase detector which constitutes the PLL. High level is output when the divided local oscillator frequency is high than the reference frequency. In the opposite case, low level is output. Floating occurs when the frequencies matched. The output is applied to the variable capacitor diode in the local oscillator through the low pass filters.
15	PD2	
16	VSS	Ground terminal.



Q310, Q692  
LC7822N (Analogue switch)



Q310

Pin No.	Terminal	Description	Pin No.	Terminal	Description
1	VIDEO-3' REC	Input/output terminals of multi source of left channel. Control the analogue switch at the serial data.	16	VEE	Ground terminal
2	VIDEO-2' REC		17	S	Selector terminal
3	VIDEO-2' REC		18	RES	Reset terminal. When power is turned on, the condition of the analogue switch is not determined, but when this terminal is "L", all analogue switches are off.
4	LCOM1		19	VDD	Power supply terminal (+15V)
5	VIDEO-2 MON	Input/output terminals of audio signal of left channel. Control the analogue switch at the serial data.	20	RCOM3	Input/output terminals of VIDEO-3 signal of right channel.
6	VIDEO-2		21	VIDEO-3	Control the analogue switch at the serial data.
7	VIDEO-3 MON		22	VIDEO-3'	Control the analogue switch at the serial data.
8	LCOM2		23	RCOM2	Input/output terminals of audio signal of right channel.
9	VIDEO-3'	Input/output terminals of VIDEO-3 signal of left channel. Control the analogue switch at the serial data.	24	VIDEO-3 MON	Control the analogue switch at the serial data.
10	VIDEO-3		25	VIDEO-2	Control the analogue switch at the serial data.
11	LCOM3		26	VIDEO-2 MON	Control the analogue switch at the serial data.
12	Vss	Negative power supply terminal (-15V)	27	RCOM1	Input/output terminals of multi source of right channel.
13	CE	Chip enable terminal. Connect to the terminal FUNC of the microprocessor.	28	VIDEO-2' REC	Control the analogue switch at the serial data.
14	DI	Serial data input terminal. Connect to the terminal DATA of the microprocessor.	29	VIDEO-2'	Control the analogue switch at the serial data.
15	CL	Serial clock input terminal. Connect to the terminal CL of the microprocessor.	30	VIDEO-3' REC	Control the analogue switch at the serial data.

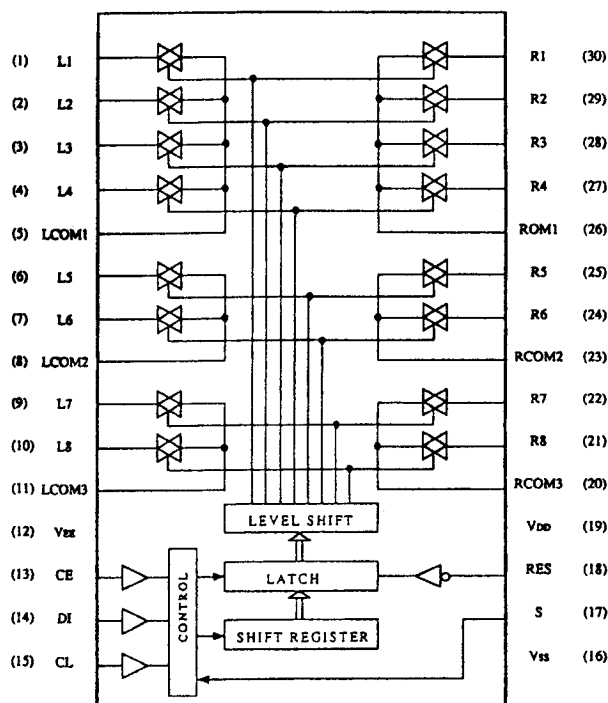
Q692

Pin No.	Terminal	Description	Pin No.	Terminal	Description
1	SURROUND	Input/output terminals of audio source of left channel. Control the analogue switch at the serial data.	16	VEE	Ground terminal
2	NC		17	S	Selector terminal
3	MULTI		18	RES	Reset terminal. When power is turned on, the condition of the analogue switch is not determined, but when this terminal is "L", all analogue switches are off.
4	LCOM1		19	VDD	Power supply terminal (+15V)
5	MULTI		20	RCOM3	Input/output terminals of audio signal of right channel. Control the analogue switch at the serial data.
6	HALL		21	DOLBY	
7	DOLBY		22	DOLBY	
8	LCOM2		23	RCOM2	
9	DOLBY		24	DOLBY	
10	DOLBY		25	HALL	
11	LCOM3		26	MULTI	
12	Vss	Negative power supply terminal (-15V)	27	RCOM1	
13	CE	Chip enable terminal. Connect to the terminal FUNC of the microprocessor.	28	MULTI	
14	DI	Serial data input terminal. Connect to the terminal DATA of the microprocessor.	29	NC	
15	CL	Serial clock input terminal. Connect to the terminal CL of the microprocessor.	30	SURROUND	



# **Q309** **LC7821N (Analogue switch)**

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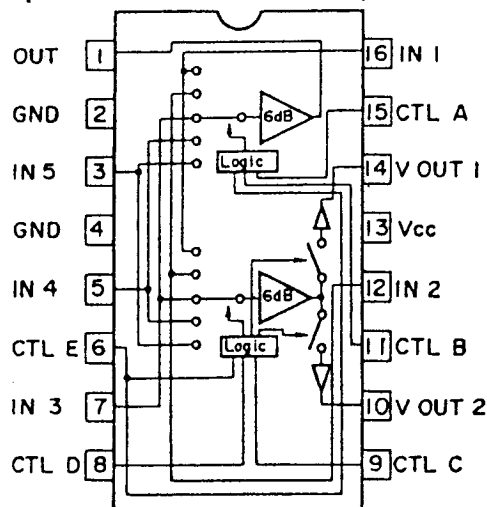


## **Q309**

Pin No.	Terminal	Description	Pin No.	Terminal	Description
1	VIDEO-1'	Input/output terminals of multi source of left channel. Control the analogue switch at the serial data.	16	VEE	Ground terminal
2	TUNER'		17	S	Selector terminal
3	TAPE-1'		18	RES	Reset terminal. When power is turned on, the condition of the analogue switch is not determined, but when this terminal is "L", all analogue switches are off.
4	TAPE-1' REC		19	VDD	Power supply terminal (+15V)
5	LCOM1		20	RCOM3	Input/output terminals of audio signal of right channel.
6	TAPE-1 MON	Input/output terminals of TAPE-1 signal of left channel.	21	VIDEO-1	Control the analogue switch at the serial data.
7	TAPE-1	Control the analogue switch at the serial data.	22	TUNER	Input/output terminals of TAPE-1 signal of right channel.
8	LCOM2		23	RCOM2	
9	TUNER	Input/output terminals of audio signal of left channel.	24	TAPE-1	
10	VIDEO-1	Control the analogue switch at the serial data.	25	TAPE-1 MON	Control the analogue switch at the serial data.
11	LCOM3		26	RCOM1	Input/output terminals of multi source of right channel.
12	Vss	Negative power supply terminal (-15V)	27	TAPE-1' REC	
13	CE	Chip enable terminal. Connect to the terminal FUNC of the microprocessor.	28	TAPE-1'	
14	DI	Serial data input terminal. Connect to the terminal DATA of the microprocessor.	29	TUNER'	
15	CL	Serial clock input terminal. Connect to the terminal CL of the microprocessor.	30	VIDEO-1'	Control the analogue switch at the serial data.

## **Q251**

### **BA7625 (Video Selector Switch)**



#15	#11	#6	#1
A	B	E	MONITOR OUT
L	L	X	IN1
H	L	X	IN2
L	H	X	IN3
H	H	L	IN4
H	H	H	IN5

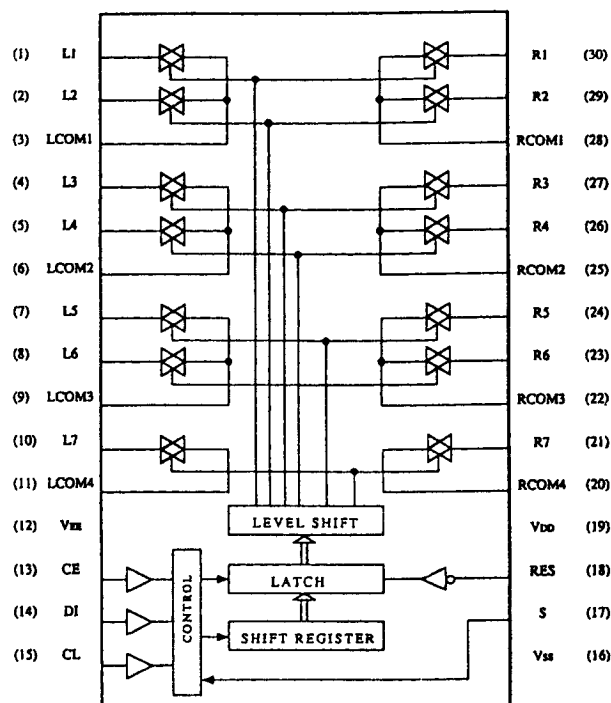
X: Don't care

#9	#8	#6	#14
C	D	E	VOUT 1
L	L	X	
H	L	X	IN2
L	H	X	IN3
H	H	L	IN4
H	H	H	IN5

#15	#11	#6	#10
A	B	E	VOUT 2
L	L	X	IN1
H	L	X	
L	H	X	IN3
H	H	L	IN4
H	H	H	IN5



**Q308, Q691**  
**LC7823N (Analogue switch)**



**Q308**

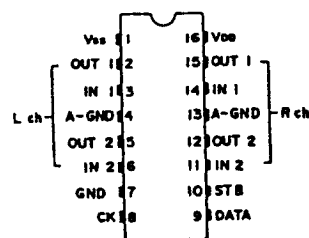
Pin No.	Terminal	Description	Pin No.	Terminal	Description
1	PHONO'	Input/output terminals of multi source of left channel.	16	VEE	Ground terminal
2	CD'	Control the analogue switch at the serial data.	17	S	Selector terminal
3	LCOM1		18	RES	Reset terminal. When power is turned on, the condition of the analogue switch is not determined, but when this terminal is "L", all analogue switches are off.
4	CD	Input/output terminals of audio signal of left channel.	19	VDD	Power supply terminal (+15V)
5	PHONO	Control the analogue switch at the serial data.	20	RCOM4	Input/output terminals of multi source of right channel.
6	LCOM2		21	TAPE-2'	Control the analogue switch at the serial data.
7	SOURCE		22	RCOM3	Input/output terminals of audio signal of right channel.
8	TAPE-2		23	TAPE-2	Control the analogue switch at the serial data.
9	LCOM3		24	SOURCE	
10	TAPE-2'	Input/output terminals of multi source of left channel.	25	RCOM2	
11	LCOM4	Control the analogue switch at the serial data.	26	PHONO	
12	Vss	Negative power supply terminal (-15V)	27	CD	
13	CE	Chip enable terminal. Connect to the terminal FUNC of the microprocessor.	28	RCOM1	Input/output terminals of multi source of right channel.
14	DI	Serial data input terminal. Connect to the terminal DATA of the microprocessor.	29	CD'	Control the analogue switch at the serial data.
15	CL	Serial clock input terminal. Connect to the terminal CL of the microprocessor.	30	PHONO'	

**Q691**

Pin No.	Terminal	Description	Pin No.	Terminal	Description
1	DOLBY	Input/output terminals of digital delay signal when surround mode.	16	VEE	Ground terminal
2	HALL	Control the analogue switch at the serial data.	17	S	Selector terminal
3	LCOM1		18	RES	Reset terminal. When power is turned on, the condition of the analogue switch is not determined, but when this terminal is "L", all analogue switches are off.
4	NORMAL	Mode select terminal when Dolby Pro Logic.	19	VDD	Power supply terminal (+15V)
5	WIDE	Control the analogue switch at the serial data.	20	NC	Not used.
6	LCOM2		21	NC	
7	TEST B		22	NC	
8	TEST A		23	NC	
9	LCOM3		24	NC	
10	TEST		25	NC	
11	LCOM4		26	NC	
12	Vss	Negative power supply terminal (-15V)	27	NC	
13	CE	Chip enable terminal. Connect to the terminal FUNC of the microprocessor.	28	NC	
14	DI	Serial data input terminal. Connect to the terminal DATA of the microprocessor.	29	NC	
15	CL	Serial clock input terminal. Connect to the terminal CL of the microprocessor.	30	NC	



TC9213P (Electro Volume)



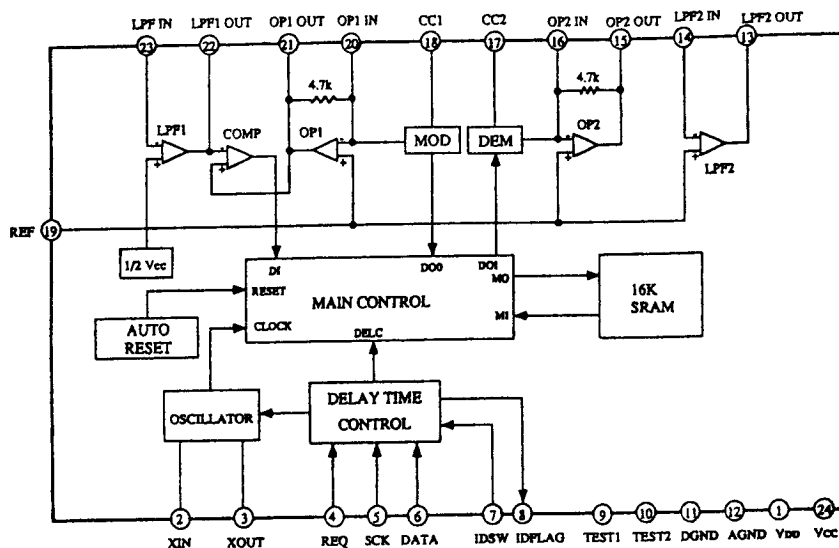
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**μ PC1298V (Power Amplifier Driver)**





Q651  
M65830P (Digital Delay)

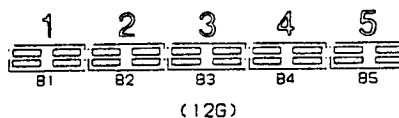
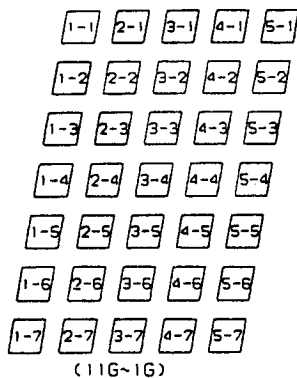
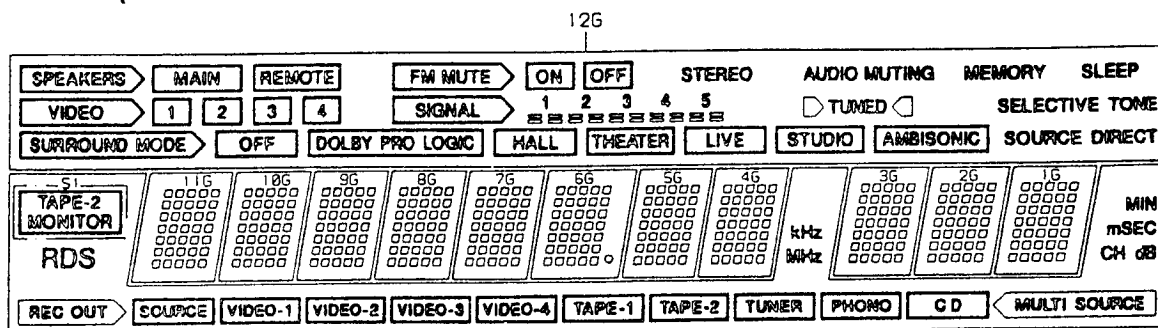


Pin No.	Mark	Function	I/O	Description
1	VDD	Digital power supply	-	
2	XIN	Resonator input	I	Connect the 2MHz ceramic resonator
3	XOUT	Resonator output	O	
4	REQ	Request	I	Data request input
5	SCK	Shift lock	I	Serial data shift clock input
6	DATA	Data	I	Serial data input
7	IDSW	ID switch	I	External input of 4th bit of ID code
8	IDFLAG	ID flag	O	Data input confirmation pulse and serial data output
9	TEST1	Test 1	-	Normal mode when low level
10	TEST2	Test 2	-	Normal mode when low level
11	D GND	Digital ground	-	
12	A GND	Analog ground	-	
13	LPF2 OUT	LPF filter 2 output	O	
14	LPF2 IN	LPF filter 2 input	I	
15	OP2 OUT	Operation amp. 2 output	O	
16	OP2 IN	Operation amp. 2 input	I	
17	CC2	Current control 2	-	Demodulation ADM control
18	CC1	Current control 1	-	Modulation ADM control
19	REF	Reference	-	Analog reference voltage=1/2VCC
20	OP1 IN	Operation amp. 1 input	I	
21	OP1 OUT	Operation amp. 1 output	O	
22	LPF1 OUT	LPF filter 1 output	O	
23	LPF1 IN	LPF filter 1 input	I	
24	VCC	Analog power supply	-	



Q703

## 13-BT-131GK (Fluorescent Indicator Tube)



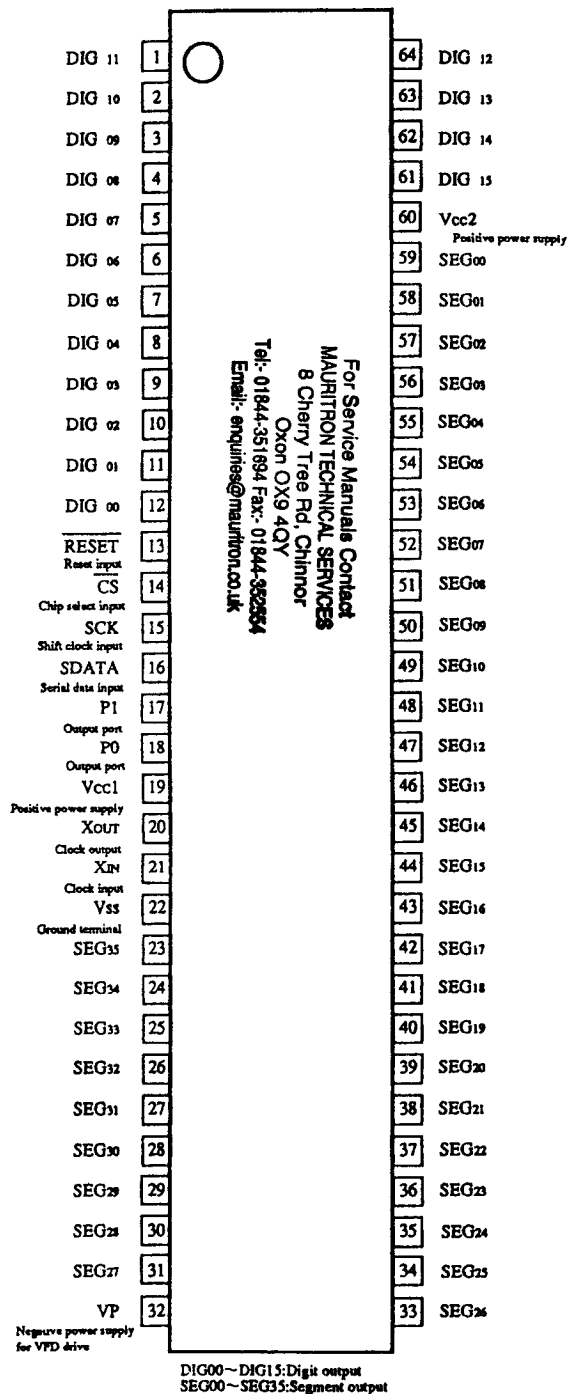
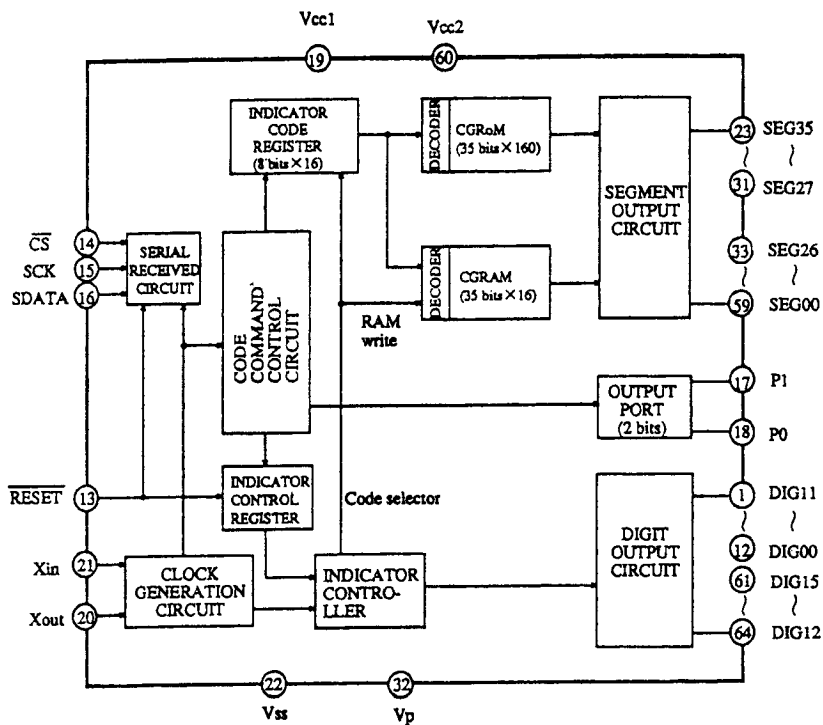
	13G	12G	11G~10G	6G	5G~1G
P1	MIN	SLEEP	1-1	1-1	1-1
P2	mSEC	MEMORY	2-1	2-1	2-1
P3	dB	AUDIO MUTING	3-1	3-1	3-1
P4	CH	SELECTIVE TONE	4-1	4-1	4-1
P5	MULTI SOURCE	SOURCE DIRECT	5-1	5-1	5-1
P6	REC OUT	TUNED	1-2	1-2	1-2
P7	SOURCE	STEREO	2-2	2-2	2-2
P8	(SOURCE)	OFF (Center)	3-2	3-2	3-2
P9	VIDEO-1	ON	4-2	4-2	4-2
P10	(VIDEO-1)	FM MUTE	5-2	5-2	5-2
P11	VIDEO-2	AMBISONIC	1-3	1-3	1-3
P12	(VIDEO-2)	STUDIO	2-3	2-3	2-3
P13	VIDEO-3	LIVE	3-3	3-3	3-3
P14	(VIDEO-3)	THEATER	4-3	4-3	4-3
P15	VIDEO-4	HALL	5-3	5-3	5-3
P16	(VIDEO-4)	DOLBY PRO LOGIC	1-4	1-4	1-4
P17	TAPE-1	OFF (LEFT)	2-4	2-4	2-4
P18	(TAPE-1)	SURROUND MODE	3-4	3-4	3-4
P19	TAPE-2	1 2 3 4 5	4-4	4-4	4-4
P20	(TAPE-2)	B5	5-4	5-4	5-4
P21	TUNER	B4	1-5	1-5	1-5
P22	(TUNER)	B3	2-5	2-5	2-5
P23	PHONO	B2	3-5	3-5	3-5
P24	(PHONO)	B1	4-5	4-5	4-5
P25	CD	SIGNAL	5-5	5-5	5-5
P26	(CD)	REMOTE	1-6	1-6	1-6
P27	kHz	MAIN	2-6	2-6	2-6
P28	MHz	SPEAKERS	3-6	3-6	3-6
P29	SI	4	4-6	4-6	4-6
P30	RDS	3	5-6	5-6	5-6
P31		2	1-7	1-7	1-7
P32		1	2-7	2-7	2-7
P33		VIDEO	3-7	3-7	3-7
P34			4-7	4-7	4-7
P35			5-7	5-7	5-7
P36					

PIN NO.	64	63	62	61	60	59	58	57
CONNECTION	F2	F2	NP	NP	P36	P35	P34	P33
PIN NO.	56	55	54	53	52	51	50	49
CONNECTION	P32	P31	P30	P29	P28	P27	P26	P25
PIN NO.	48	47	46	45	44	43	42	41
CONNECTION	P24	P23	P22	P21	P20	P19	P18	P17
PIN NO.	40	39	38	37	36	35	34	33
CONNECTION	P16	P15	P14	P13	P12	P11	P10	P9
PIN NO.	32	31	30	29	28	27	26	25
CONNECTION	P8	P7	P6	P5	P4	P3	P2	P1
PIN NO.	24	23	22	21	20	19	18	17
CONNECTION	NC	NC	NC	NC	NC	NC	NC	13G
PIN NO.	16	15	14	13	12	11	10	9
CONNECTION	12G	11G	10G	9G	8G	7G	6G	5G
PIN NO.	8	7	6	5	4	3	2	1
CONNECTION	4G	3G	2G	1G	NP	NP	F1	F1

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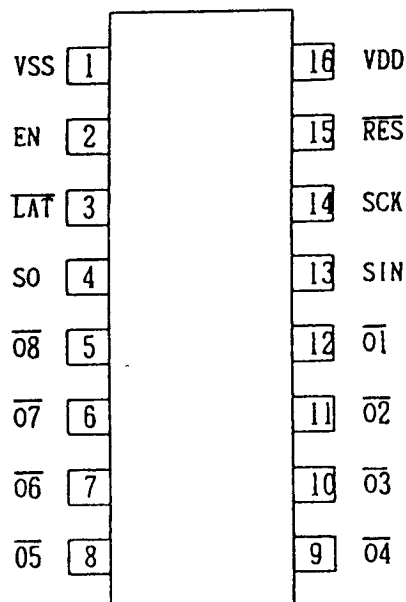


**Q702**  
**M66004FP (FL Tube Driver)**

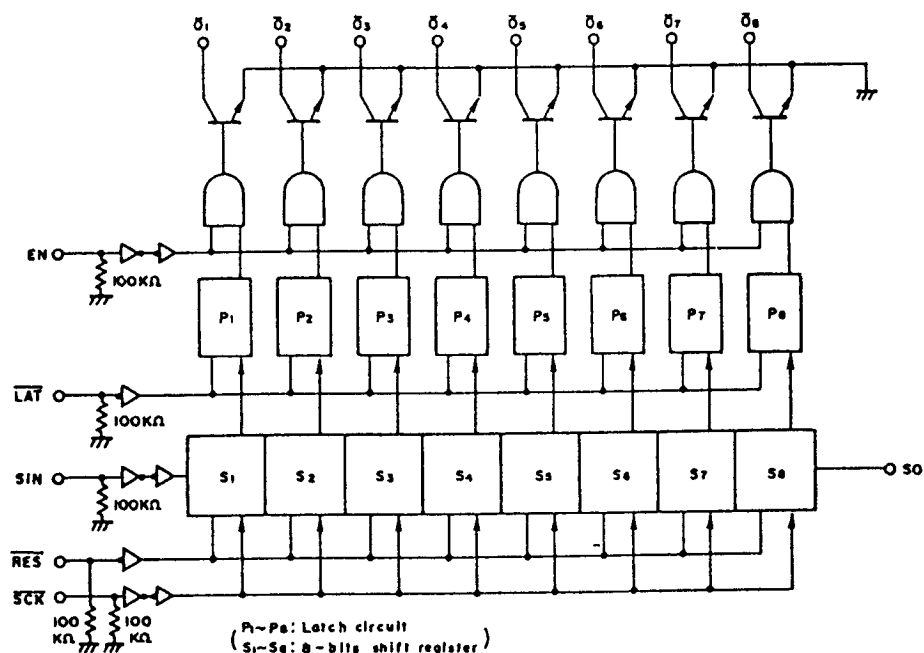




Q971

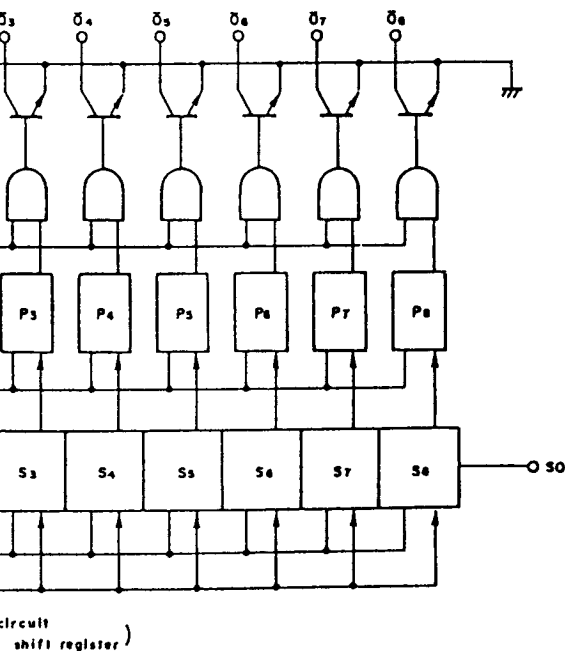
 $\mu$  PD6345C (Extended IC)

Pin No.	Symbol	Description
1	VSS	Ground terminal
2	EN	Chip enable input terminal. Connect to the terminal EN of the microprocessor.
3	$\overline{\text{LAT}}$	Latch input terminal. Connect to the terminal LAT of the microprocessor.
4	SO	Serial data output terminal. Not used.
5	$\overline{\text{O8}}$	Not used.
6	$\overline{\text{O7}}$	Not used.
7	$\overline{\text{O6}}$	Front speaker relay control output terminal
8	$\overline{\text{O5}}$	Center speaker relay control output terminal
9	$\overline{\text{O4}}$	Rear speaker relay control terminal
10	$\overline{\text{O3}}$	Remote speaker relay control terminal
11	$\overline{\text{O2}}$	Headphone relay control output terminal
12	$\overline{\text{O1}}$	Power supply voltage switch relay control output terminal
13	SIN	Serial data input terminal. Connect to the terminal DATA of the microprocessor.
14	SCK	Serial clock input terminal. Connect to the terminal CLOCK of the microprocessor.
15	RESET	Reset input terminal
16	VDD	Power supply terminal



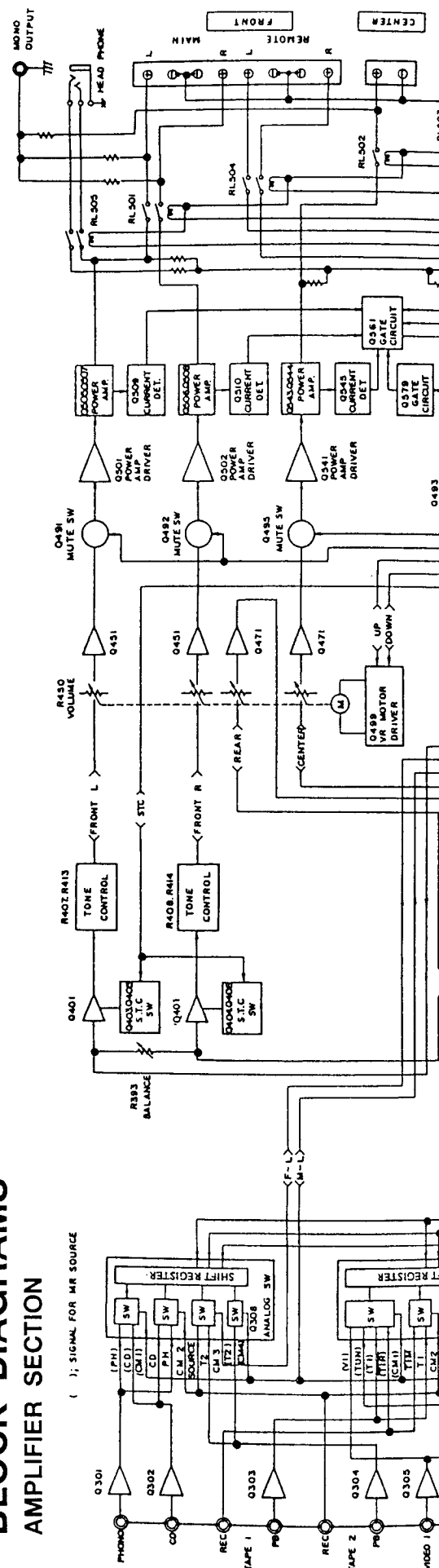


Pin No.	Symbol	Description
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3	$\overline{\text{LAT}}$	Latch input terminal. Connect to the terminal LAT of the microprocessor.
4	SO	Serial data output terminal. Not used.
5	$\overline{\text{O8}}$	Not used.
6	$\overline{\text{O7}}$	Not used.
7	$\overline{\text{O6}}$	Front speaker relay control output terminal
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9	$\overline{\text{O4}}$	Rear speaker relay control terminal
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11	$\overline{\text{O2}}$	Headphone relay control output terminal
12	$\overline{\text{O1}}$	Power supply voltage switch relay control output terminal
13	SIN	Serial data input terminal. Connect to the terminal DATA of the microprocessor.
14	SCK	Serial clock input terminal. Connect to the terminal CLOCK of the microprocessor.
15	RESET	Reset input terminal
16	VDD	Power supply terminal



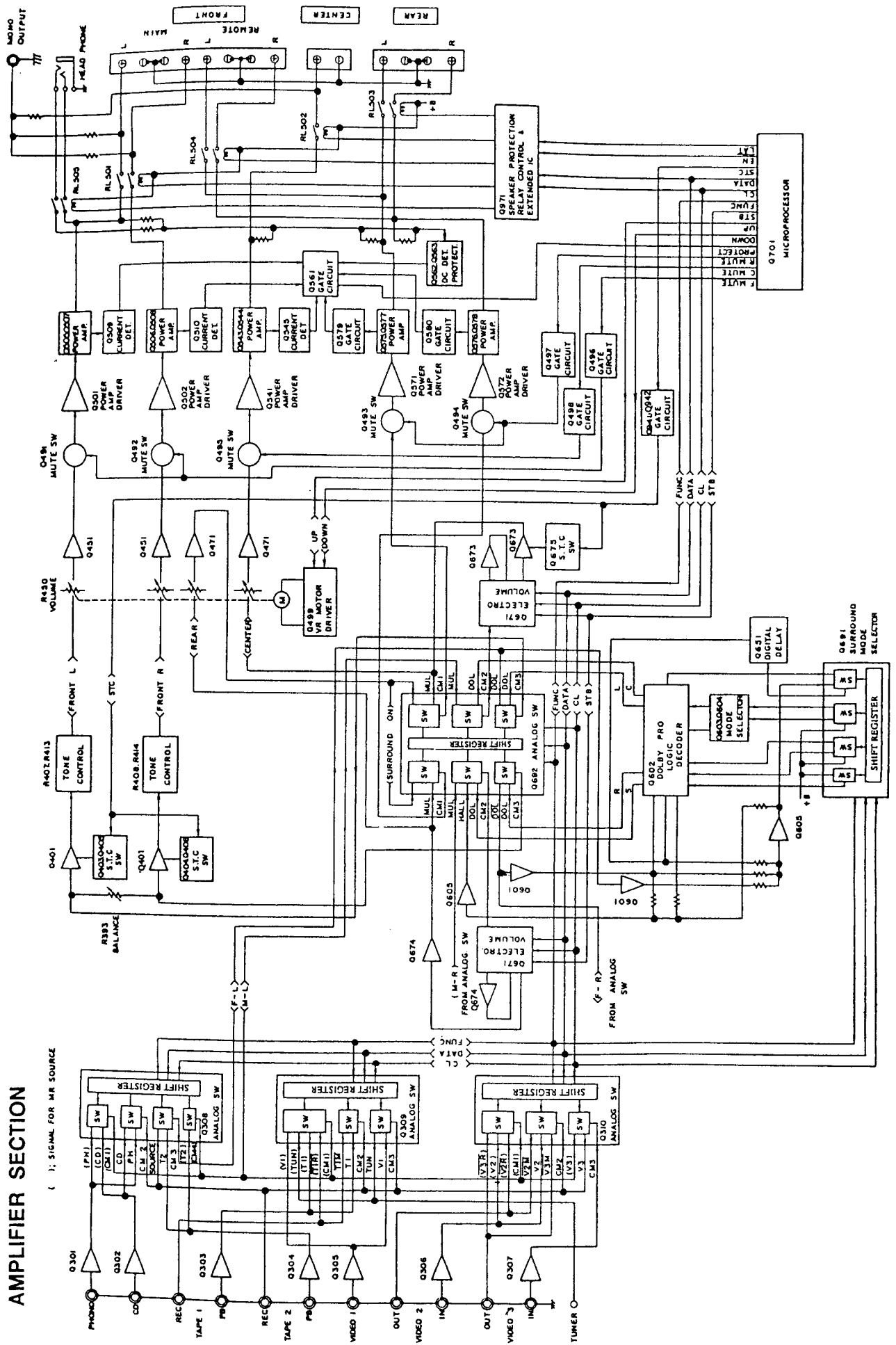
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## BLOCK DIAGRAMS AMPLIFIER SECTION





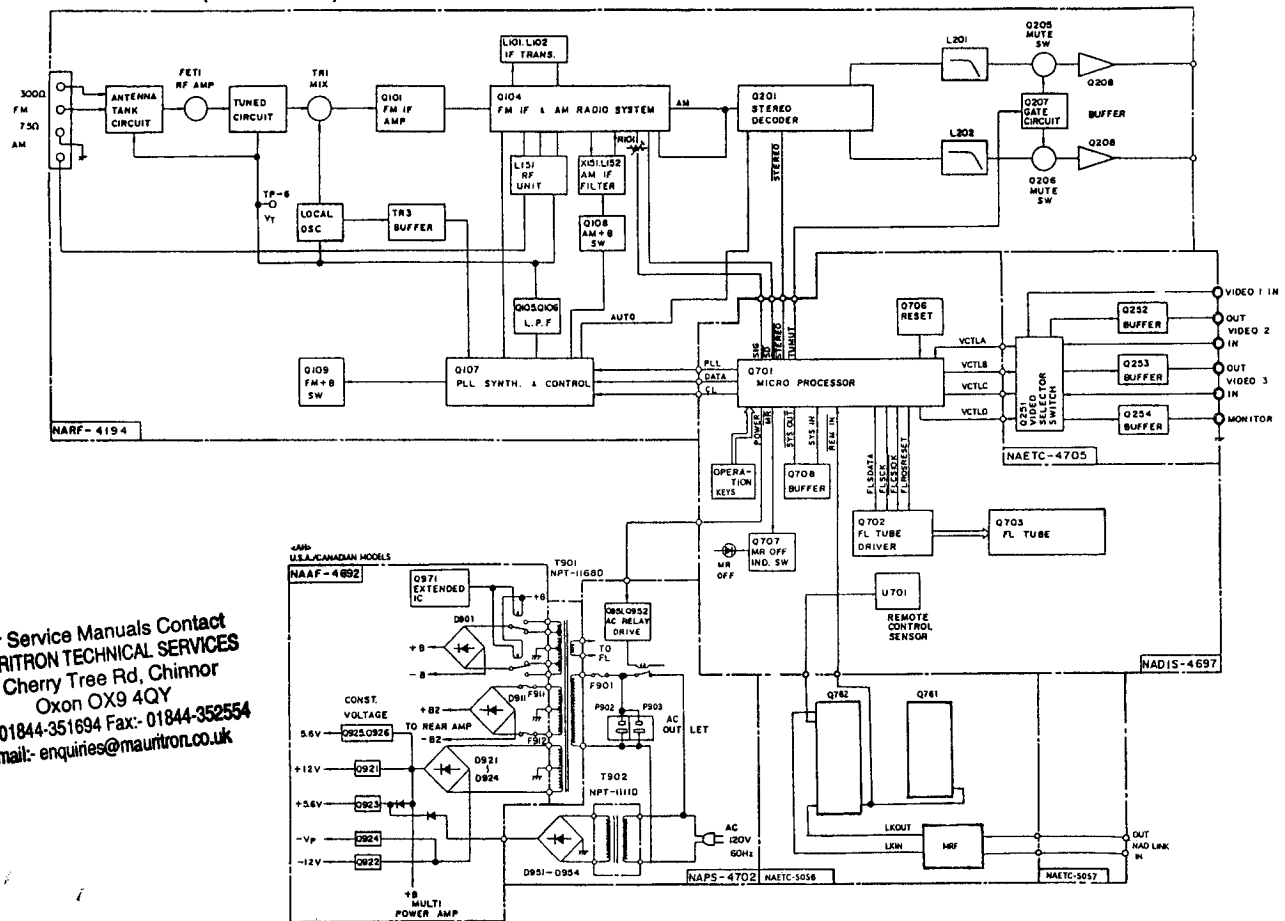
# BLOCK DIAGRAMS AMPLIFIER SECTION





# BLOCK DIAGRAMS

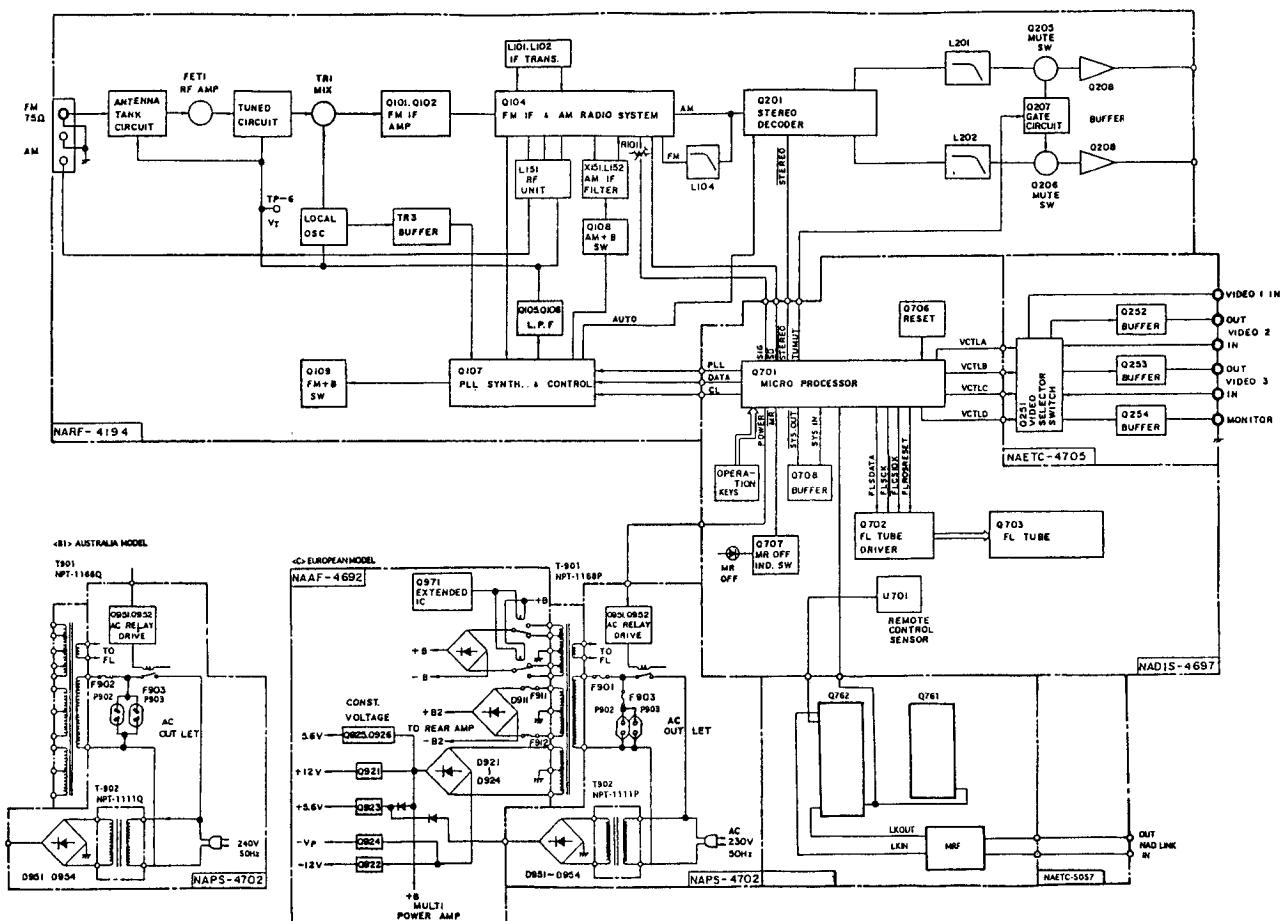
## TUNER SECTION (120V model)



21

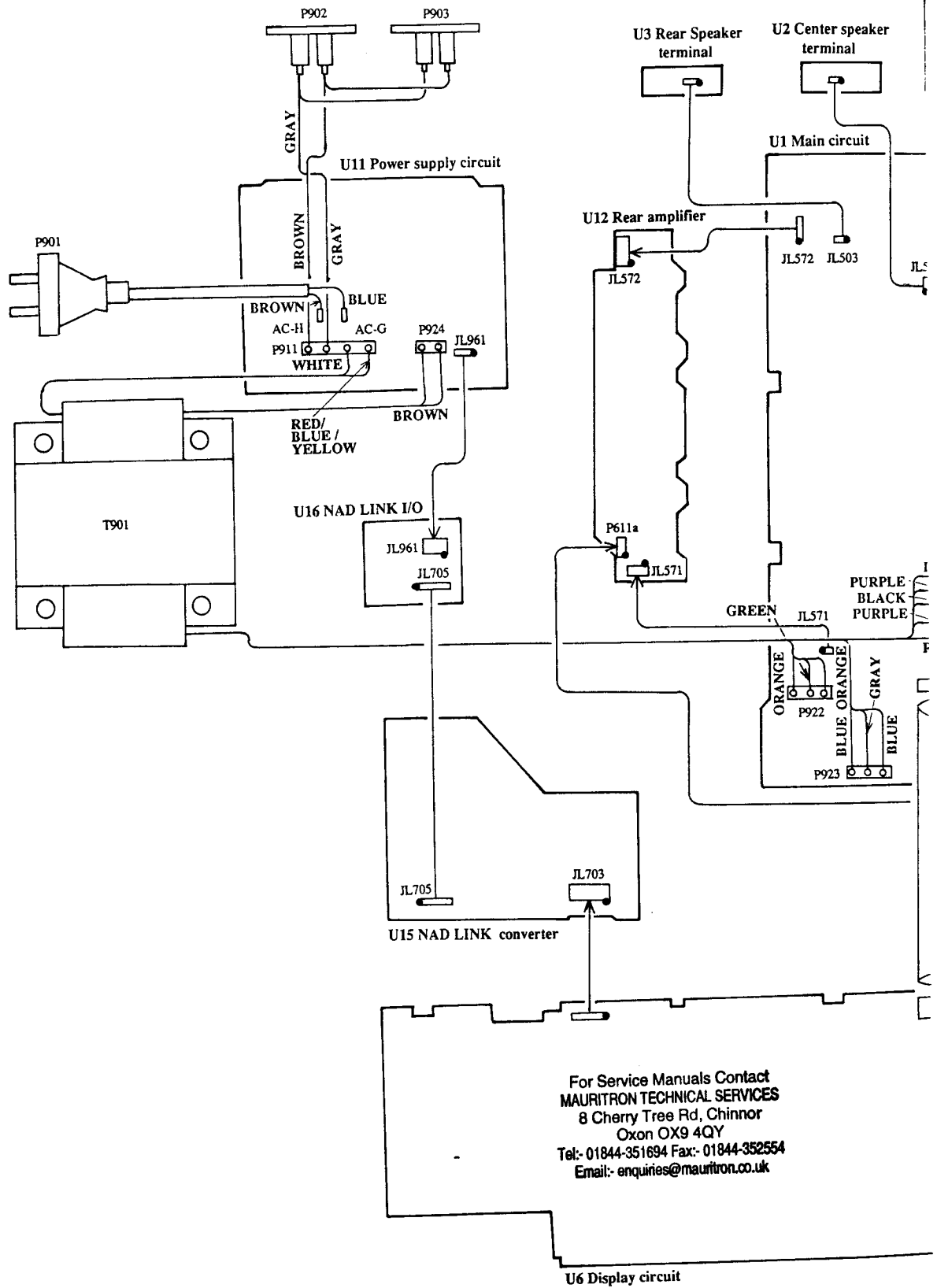
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<B>  
<B1> <C>



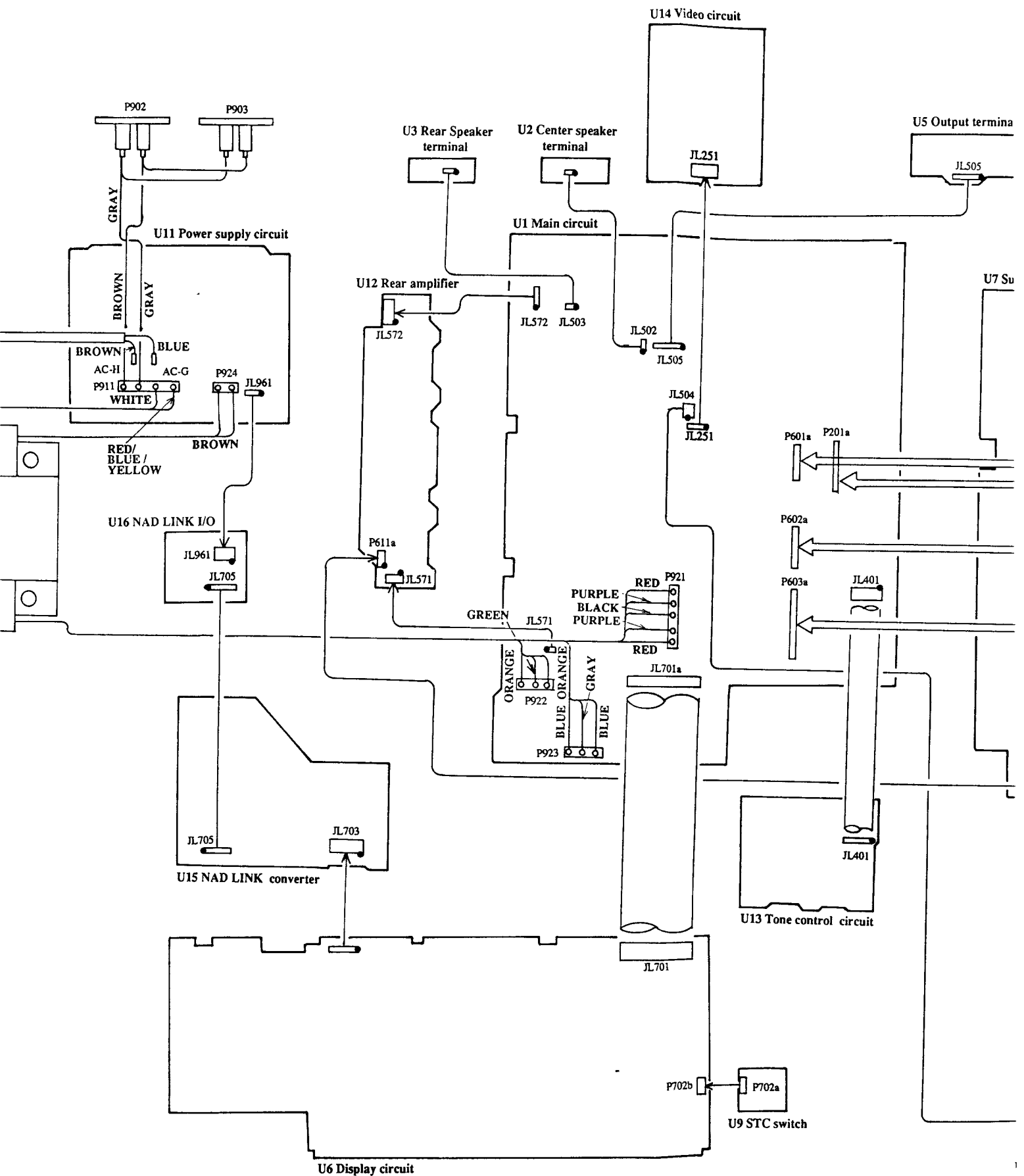
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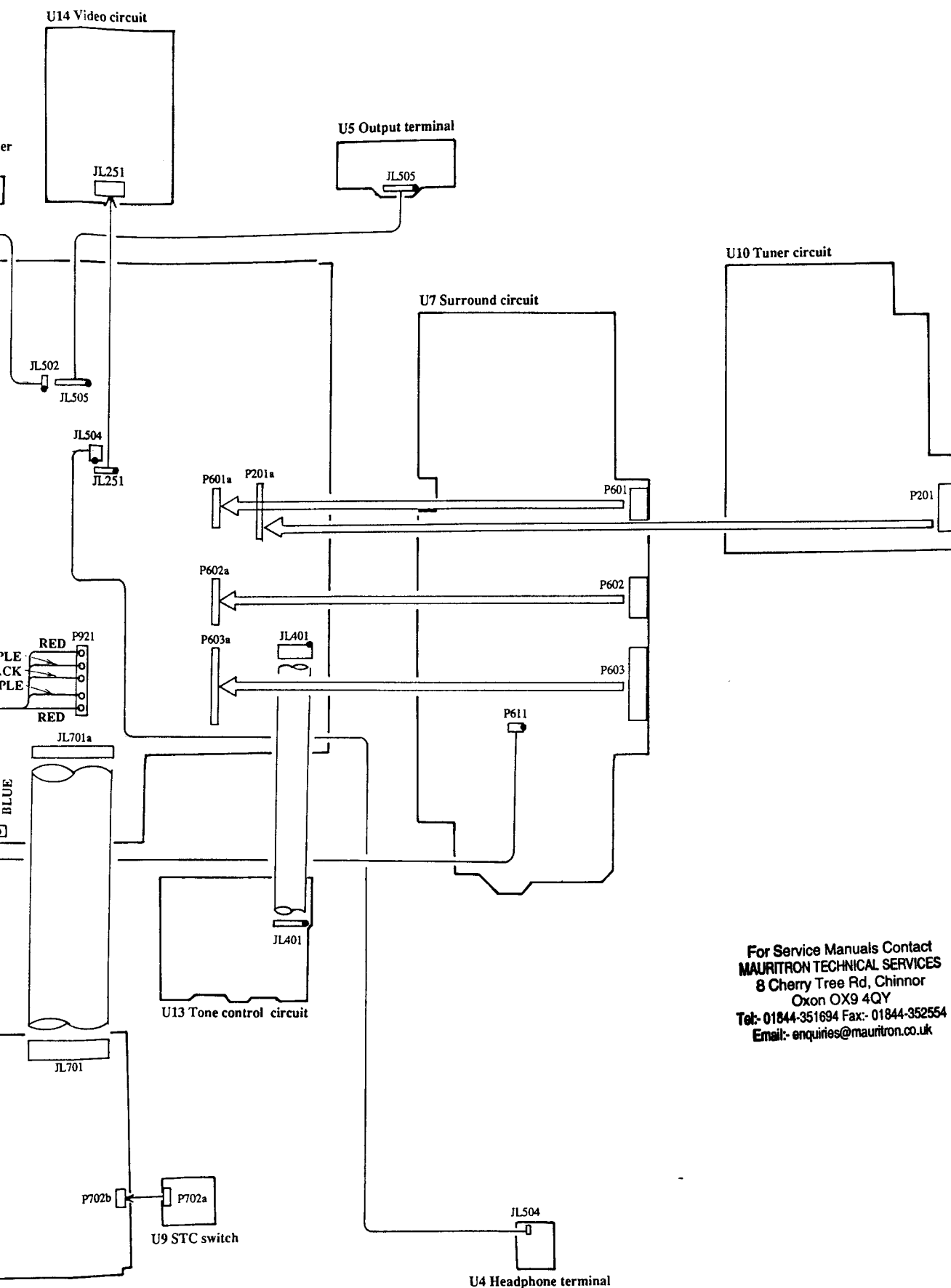


## 23





# WIRING DIAGRAM



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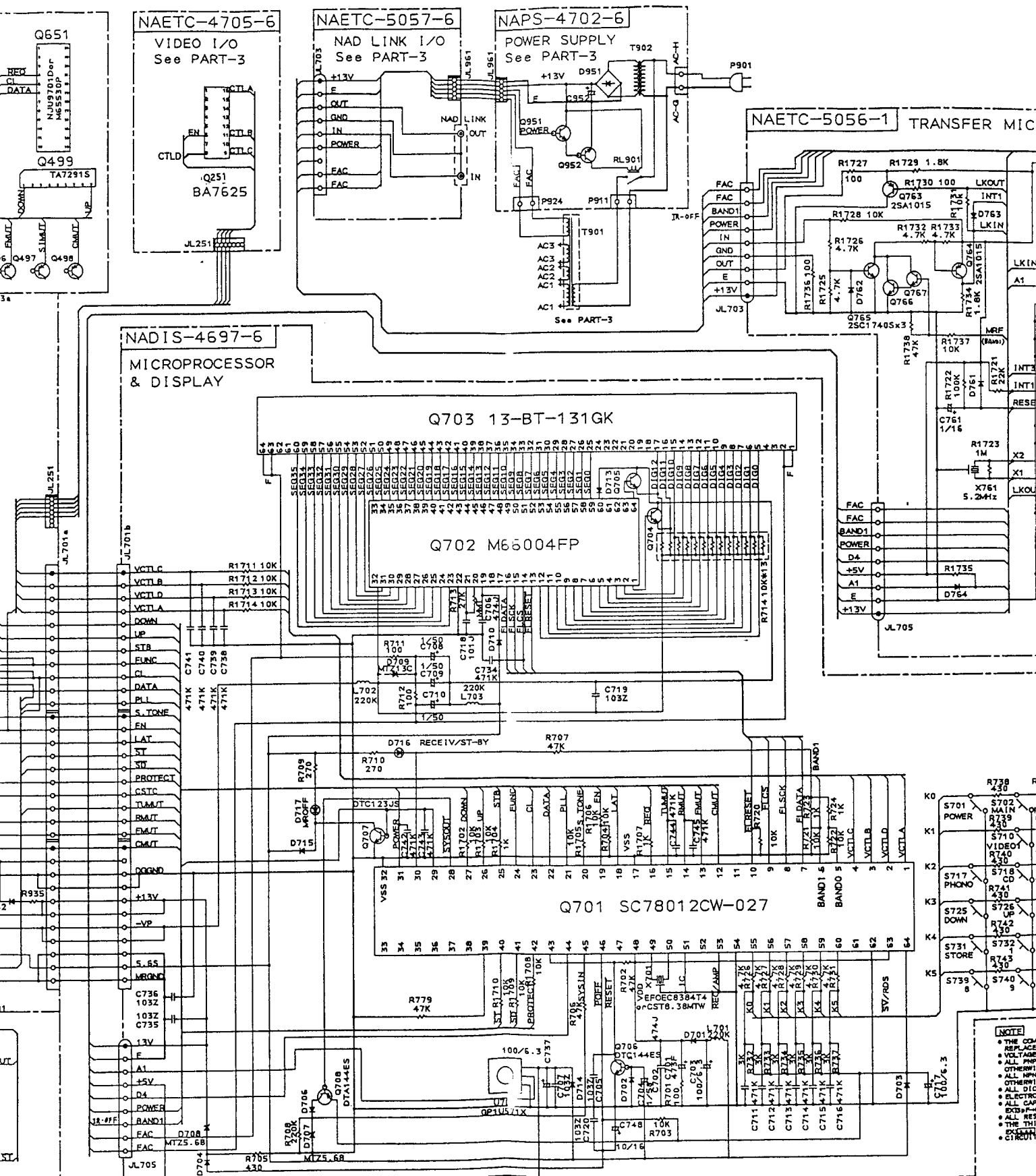


1	
2	
3	
4	
5	





# PART-1) PROCESSOR

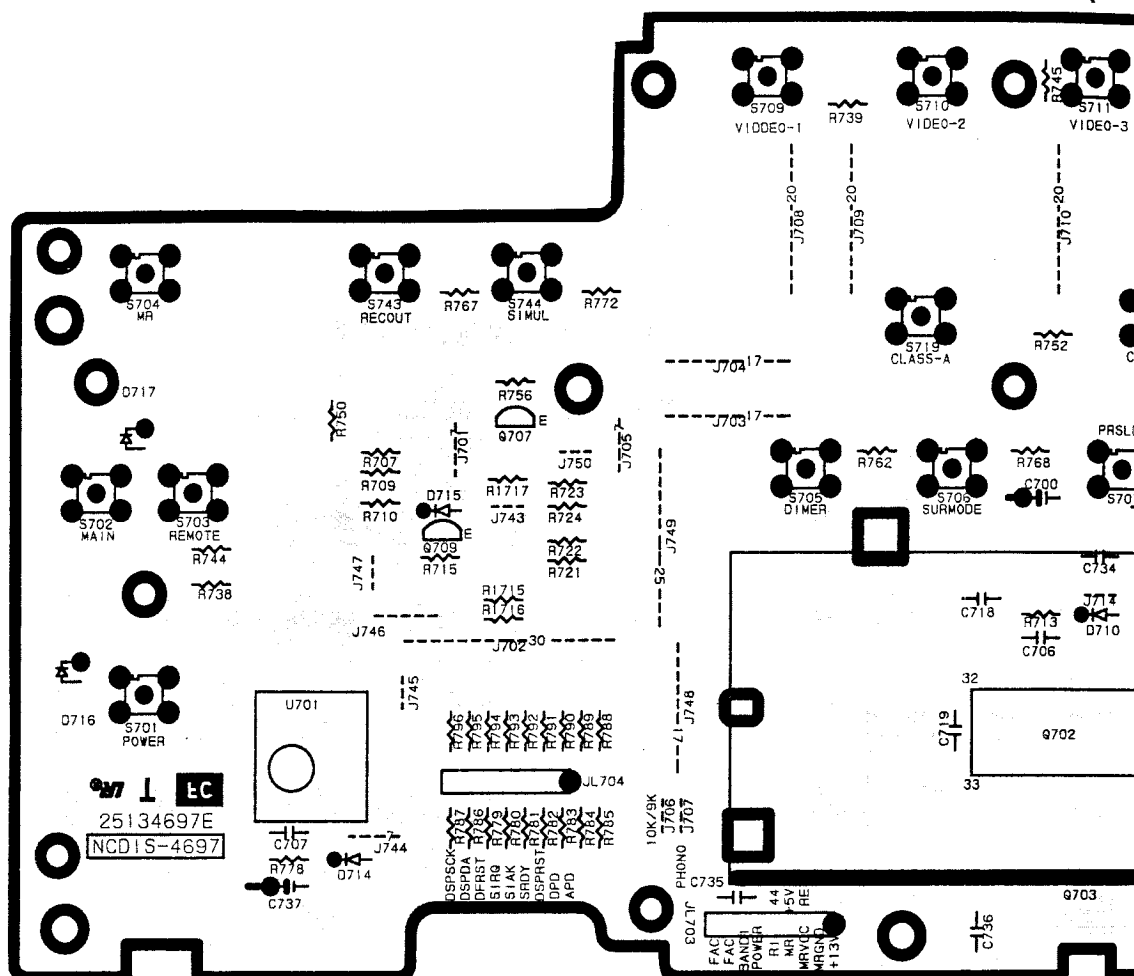




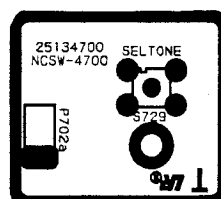




# DISPLAY CIRCUIT PC BOARD (NA



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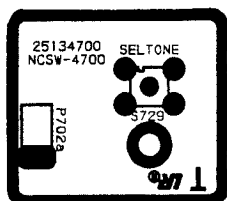
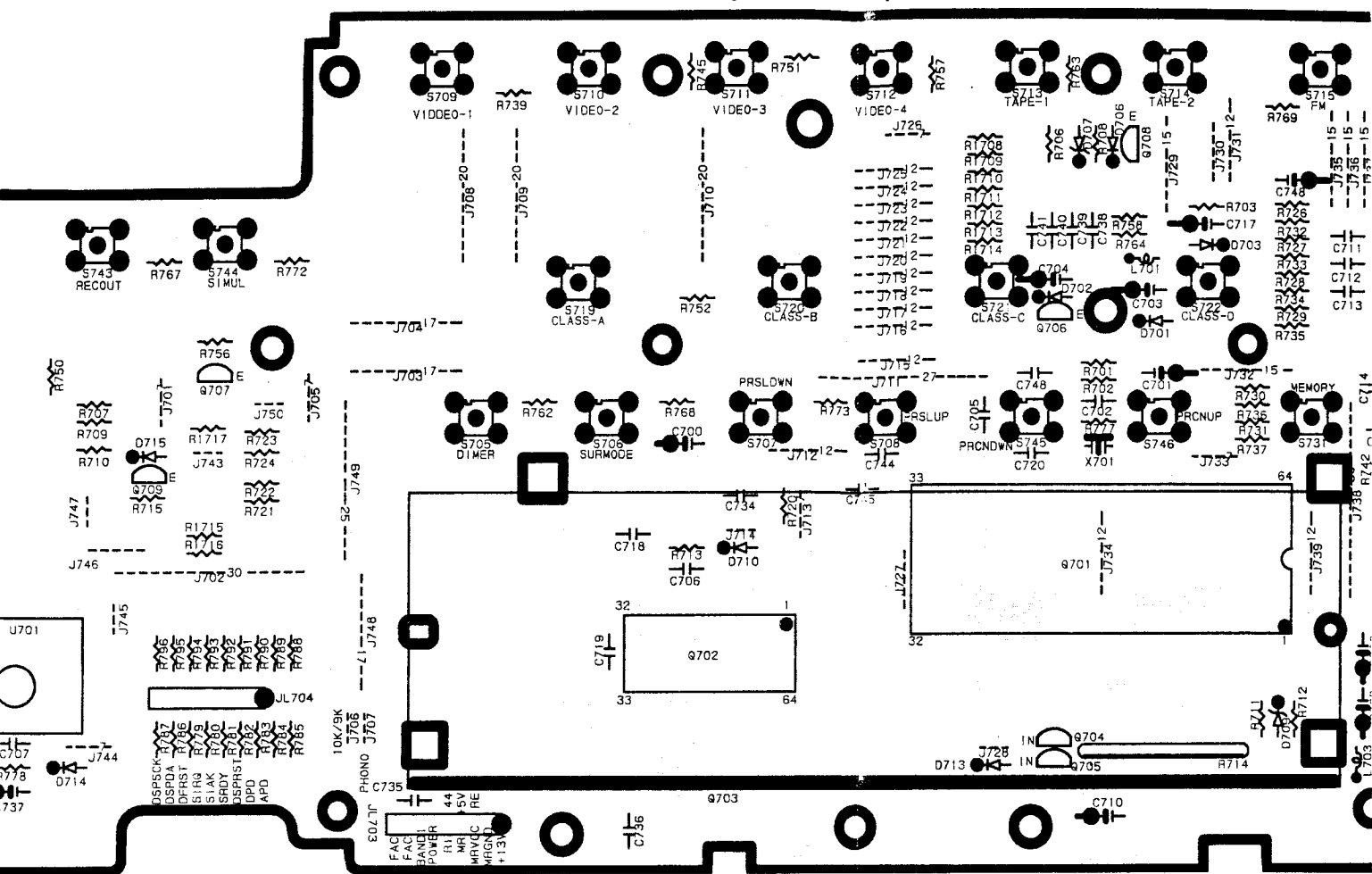


## STC SWITCH PC BOARD (NASW-4700)

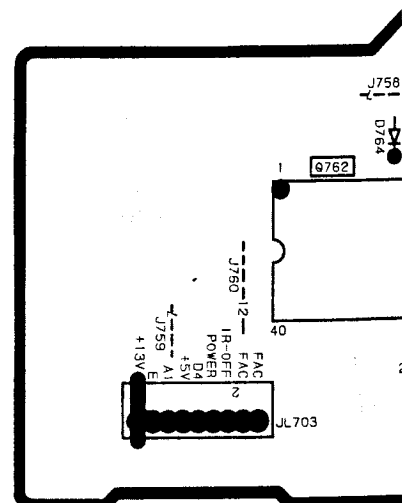


# BOARD VIEW FROM BOTTOM SIDE

## DISPLAY CIRCUIT PC BOARD (NADIS-4697)

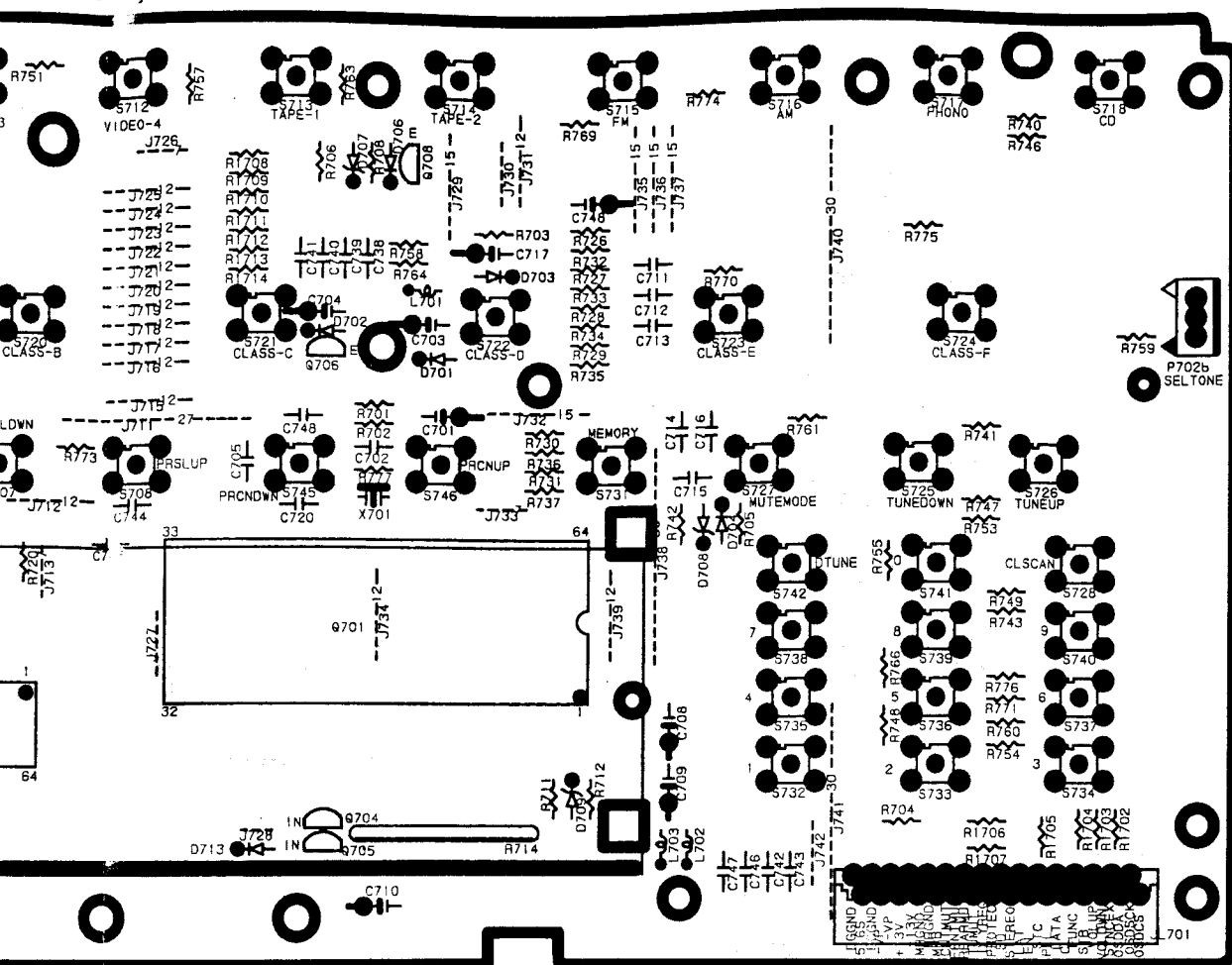


STC SWITCH PC BOARD  
(NASW-4700)

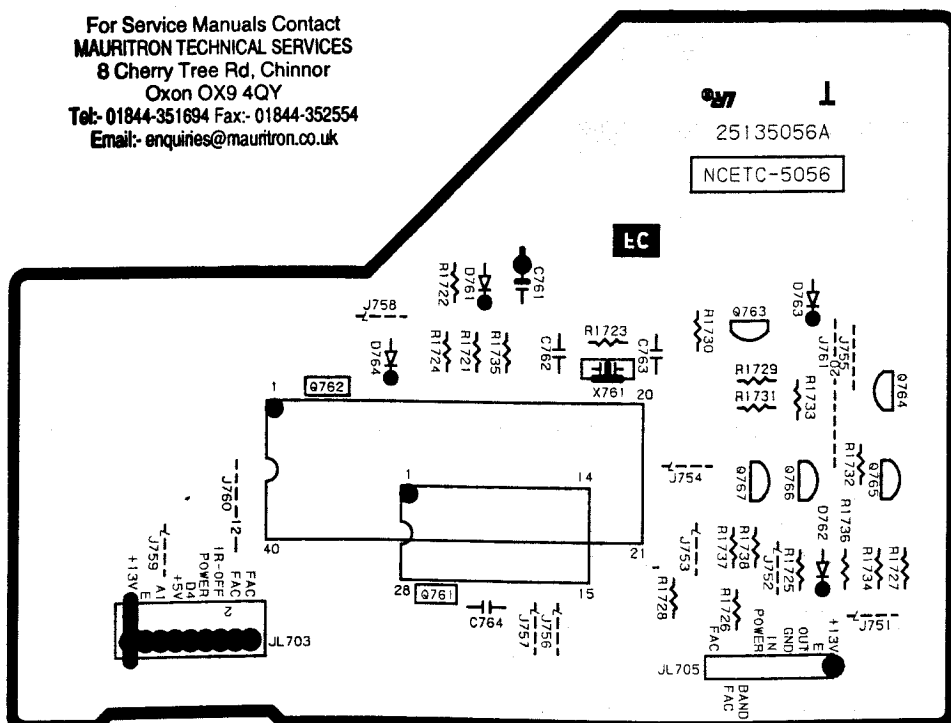


NAD LINK CONVERTER P



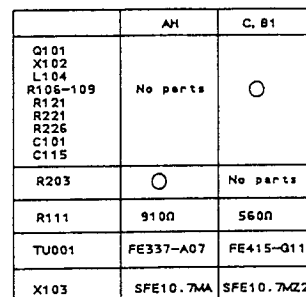


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## 5



26



[illegible]

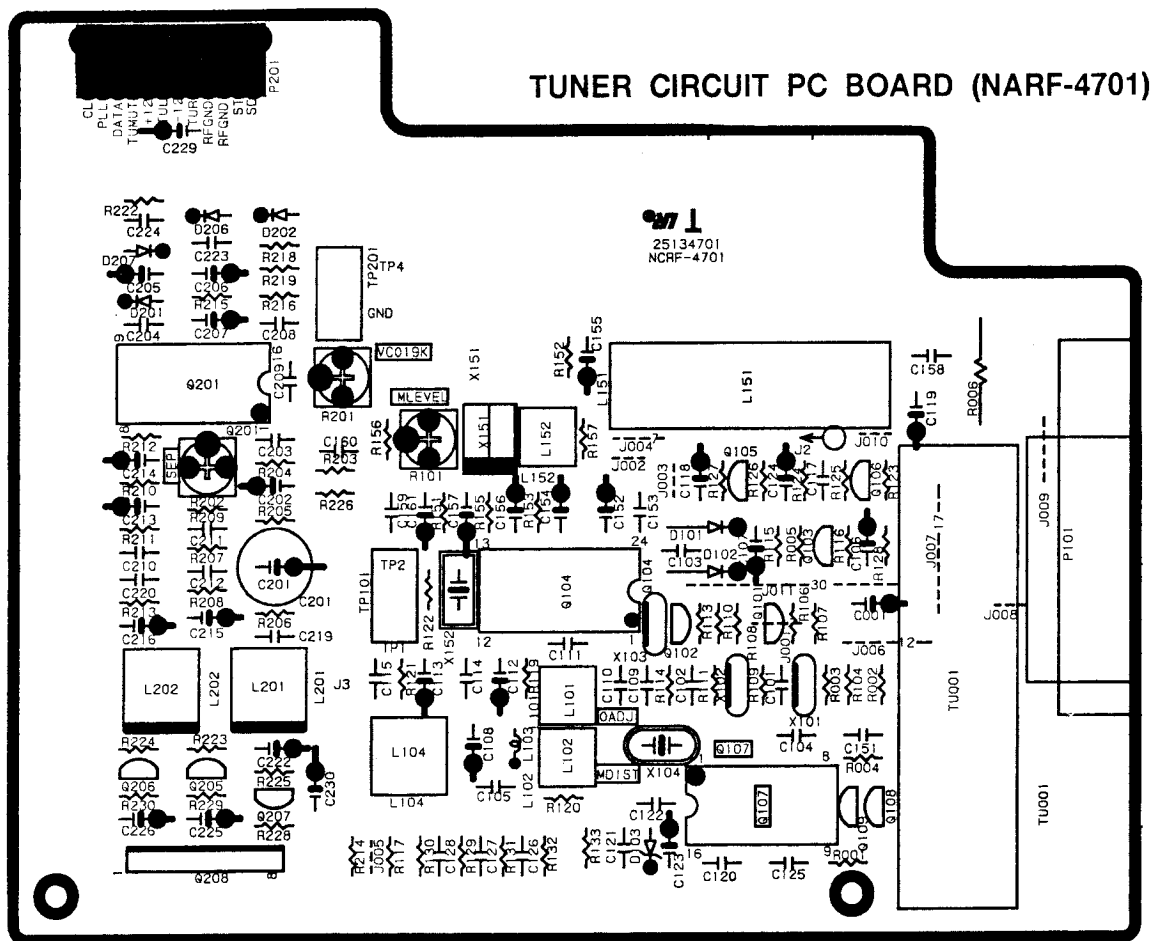
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Q101 X102 L104 R106-109 R121 R221 R226 C101 C115	No parts	○
R203	○	No parts
R111	9100	5600
TU001	FE337-A07	FE415-Q11
X103	SFE10.7MA	SFE10.7M22







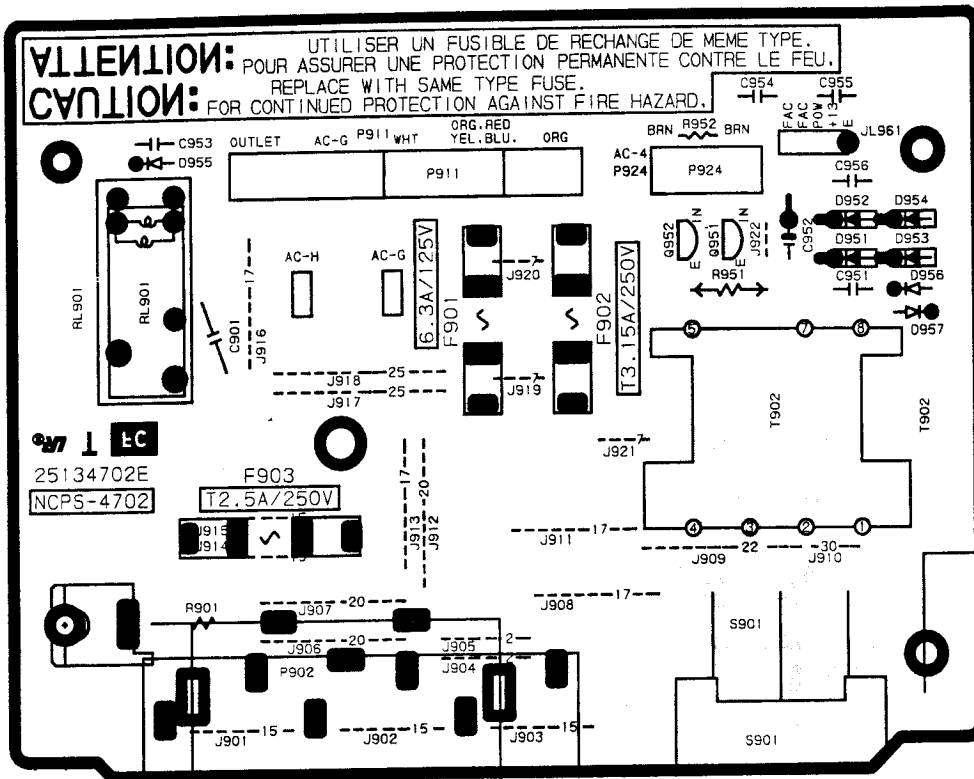
# PRINTED CIRCUIT BOARD VIEW FROM BOTTOM SIDE



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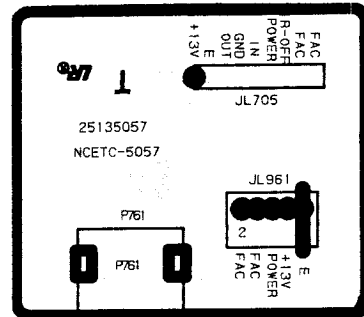


# PRINTED CIRCUIT BOARD VIEW FROM BOTTOM SIDE

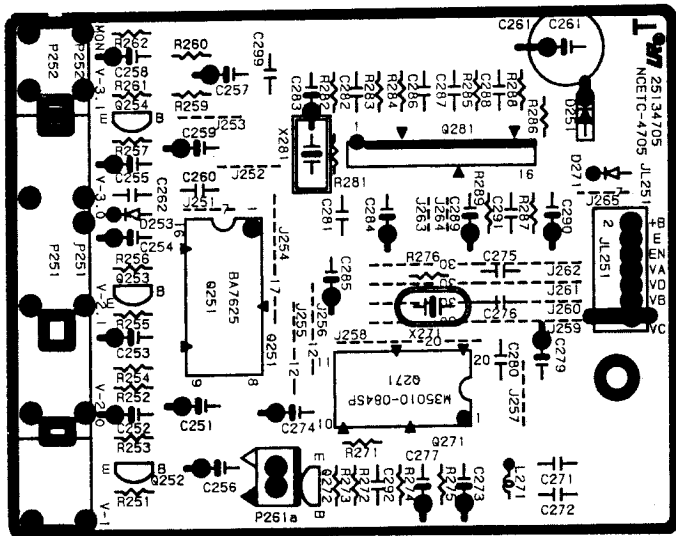


POWER SUPPLY CIRCUIT PC BOARD (NAPS-4702)

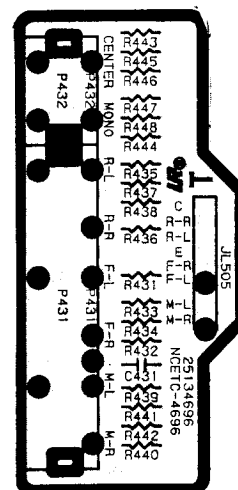
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NAD LINK I/O PC BOARD  
 (NAETC-5057)



VIDEO CIRCUIT PC BOARD (NAETC-4705)

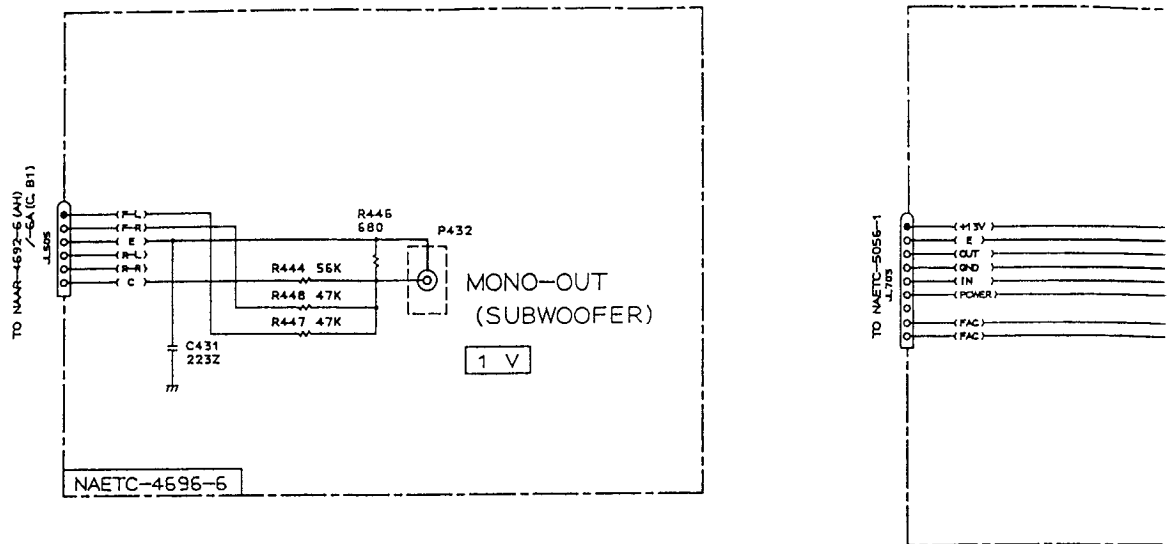


OUTPUT TERMINAL PC BOARD  
 (NAETC-4696)



# SCHEMATIC DIAGRAM (PART-3)

## POWER SUPPLY AND VIDEO SECTION

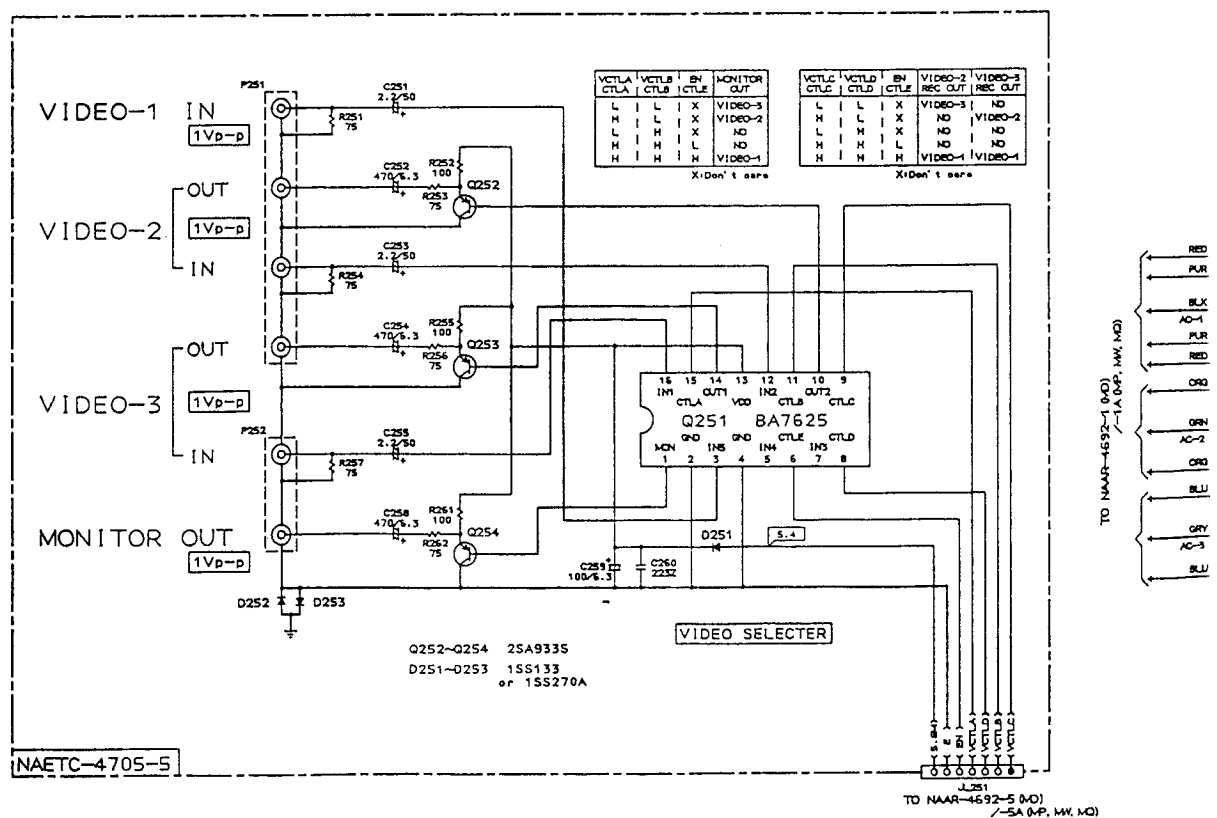


AH type : 120V/60Hz Area

C type : 230V/50Hz Area

B1 type : 240V/50Hz Area

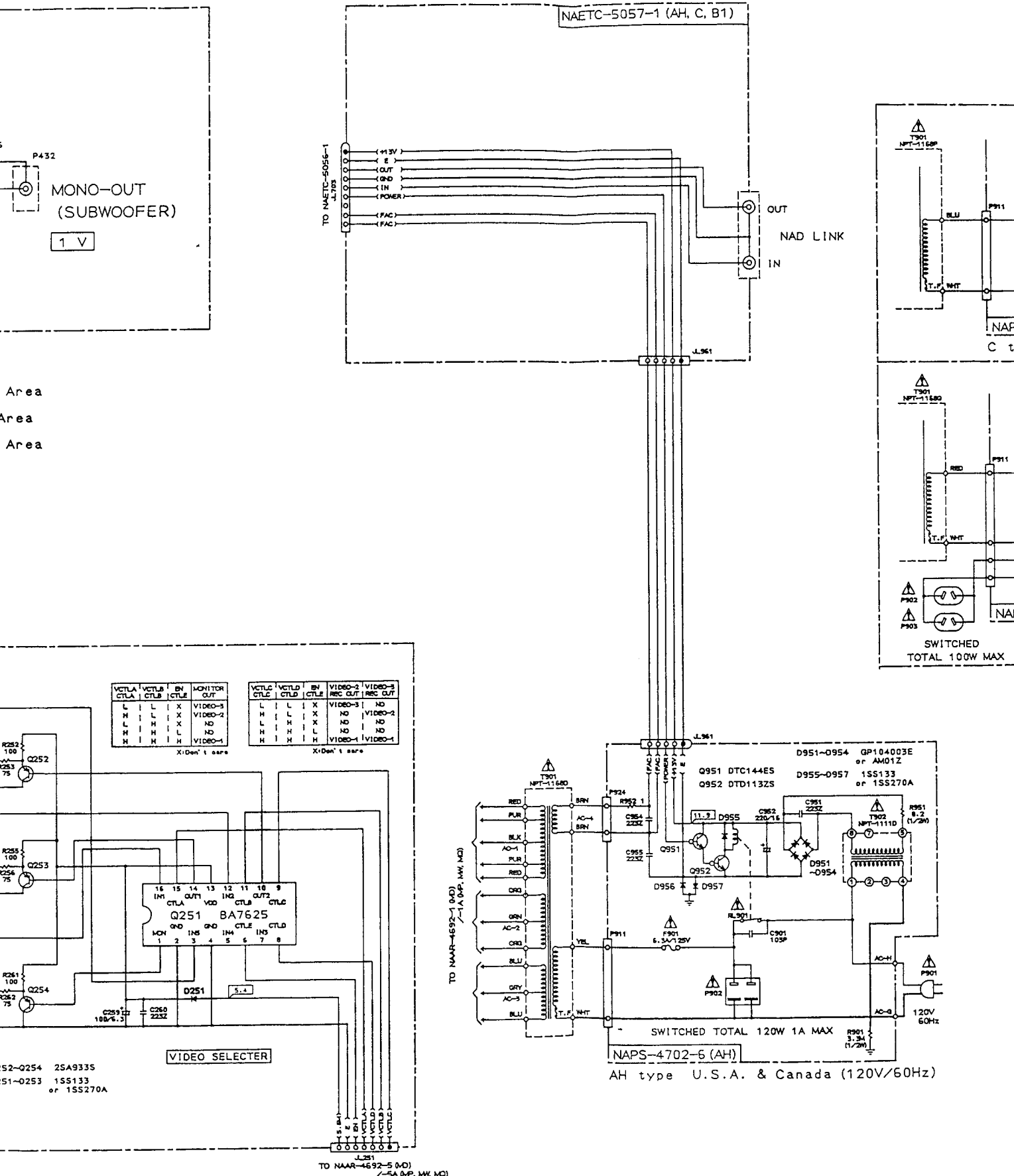
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# M (PART-3)

## SECTION









## D





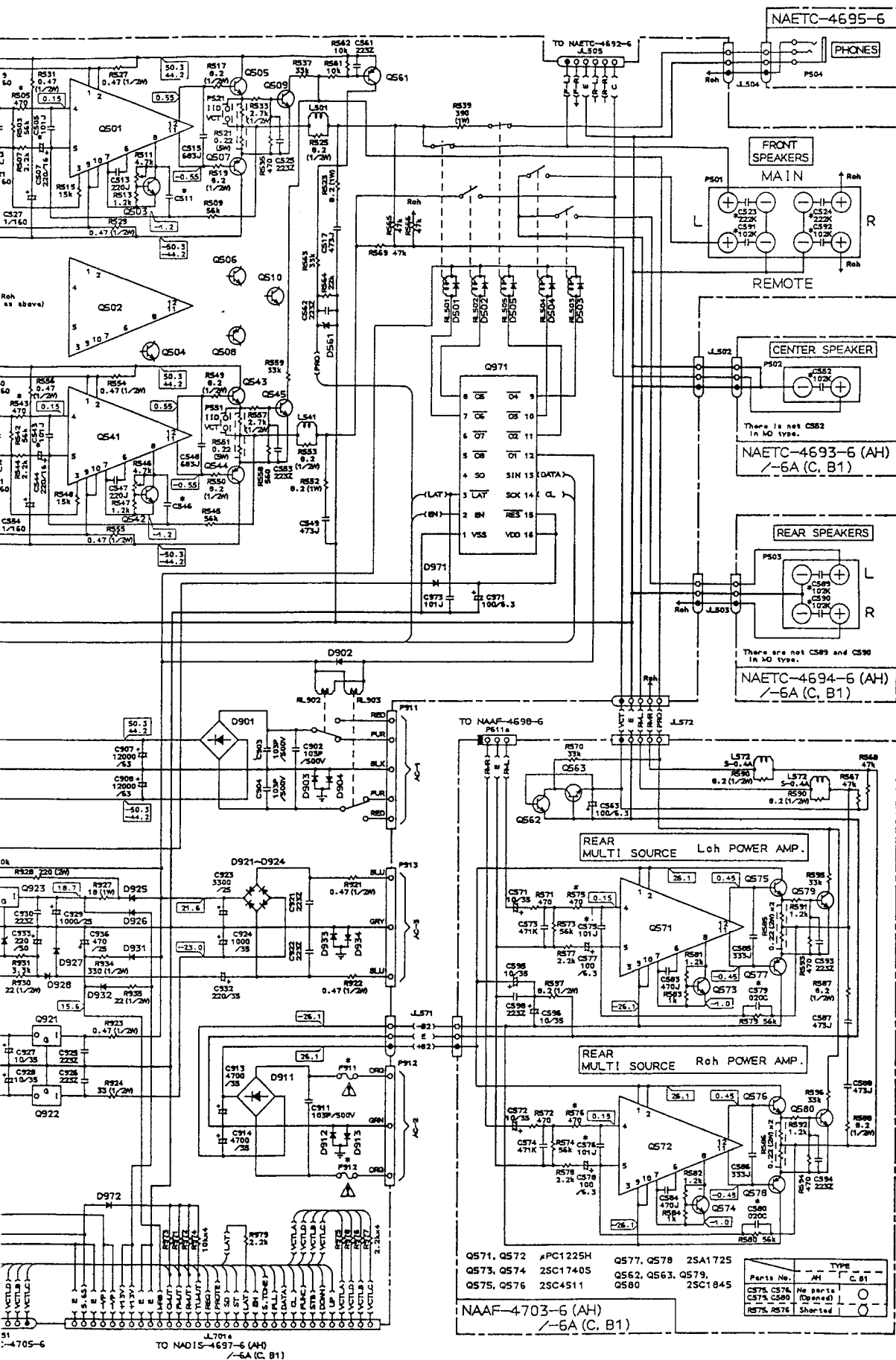




E

F

G



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 Oxon OX9 4QY  
 Tel: 01844-351694 Fax: 01844-352554  
 Email: enquiries@mauritron.co.uk



MAIN CIRCUIT PC BOARD (NAAR-4692)

HEADPHONE TERMINAL PC BOARD  
(NAETC-4695)

**For Service Manuals Contact**  
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Email: [enquiries@mauritron.co.uk](mailto:enquiries@mauritron.co.uk)

**PHONE CONTROL CIRCUIT PC BOARD  
(NAAF-4704)**



A

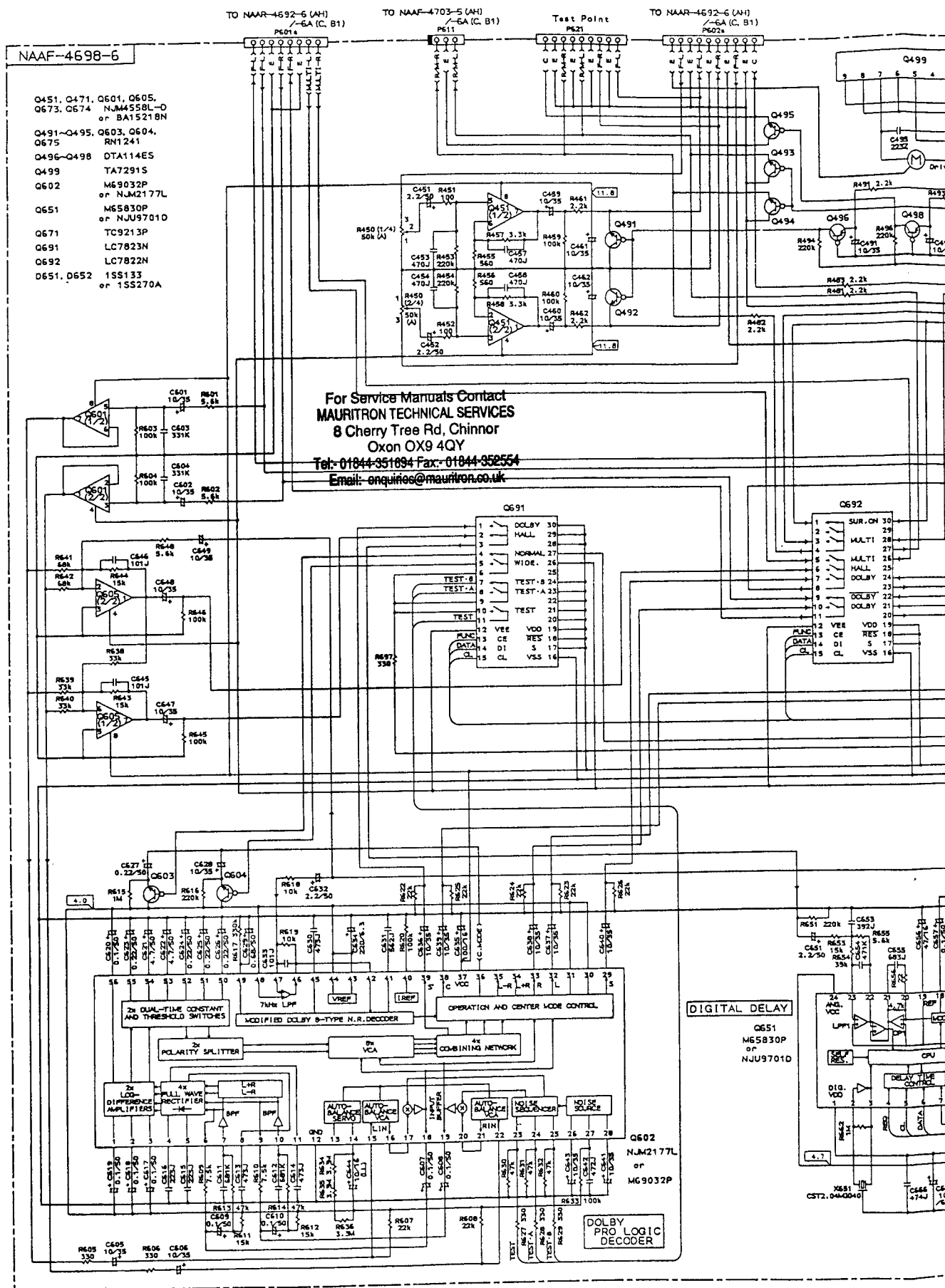
B

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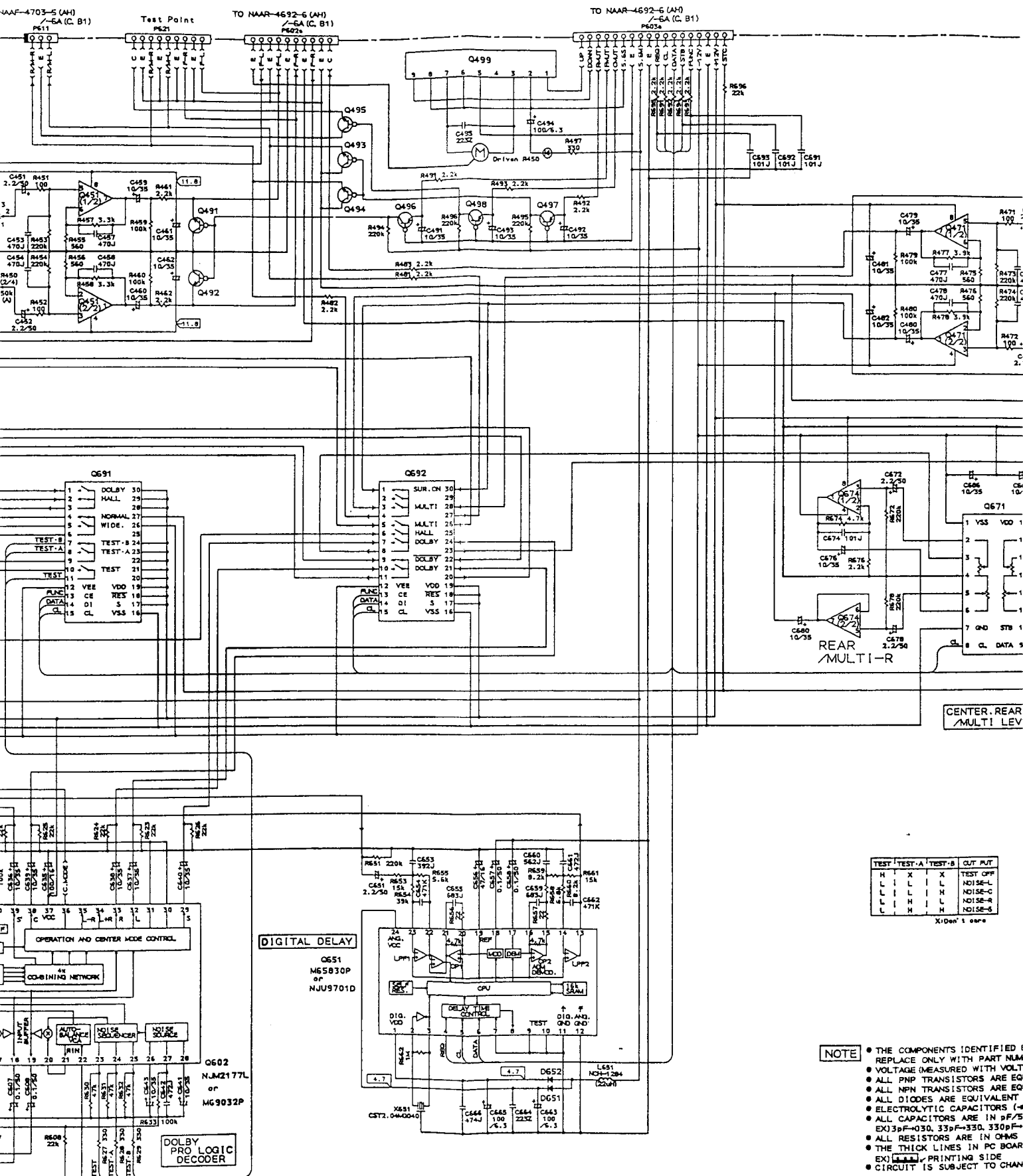
D

## SCHEMATIC DIAGRAM (PART-5)

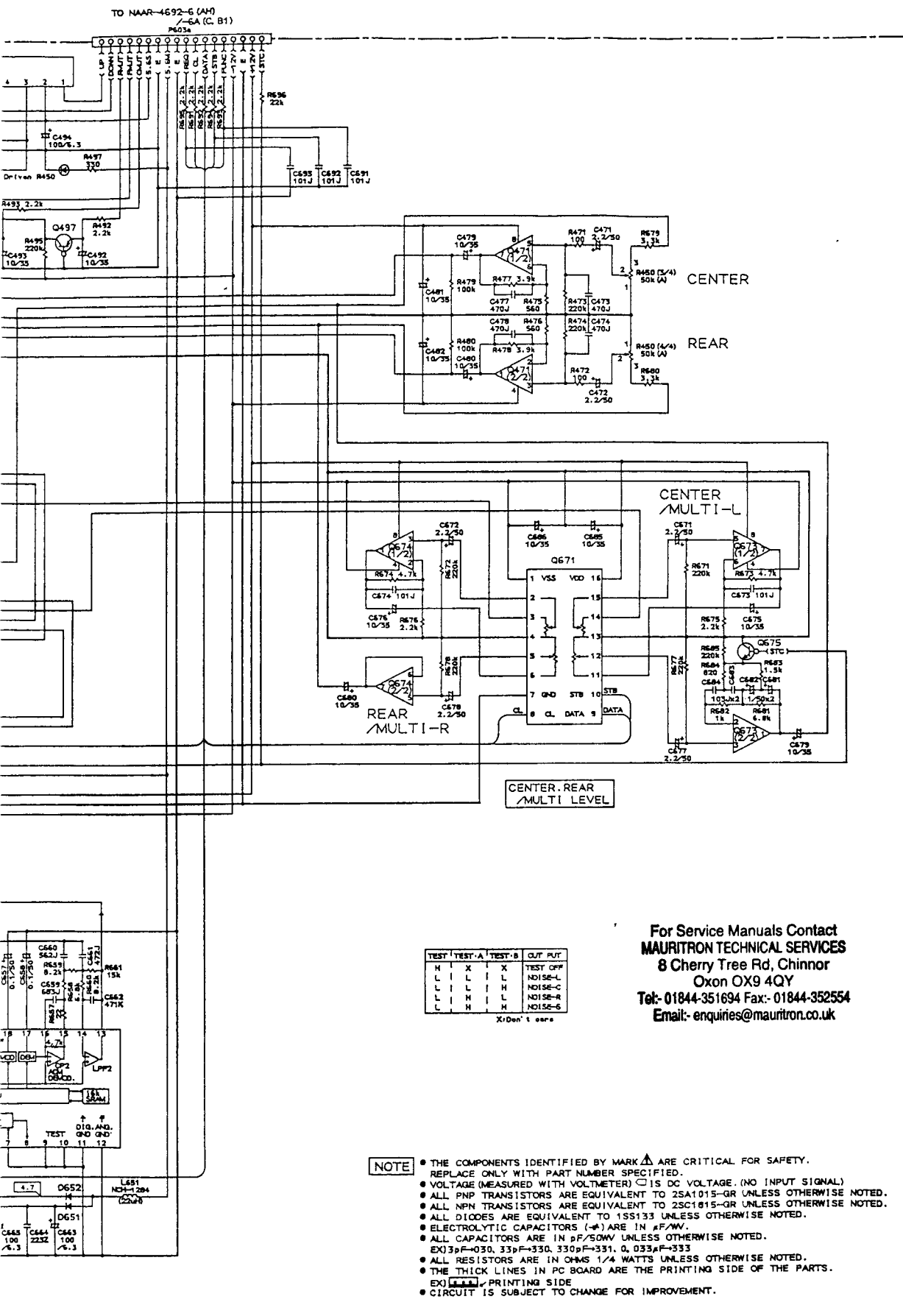
## SURROUND SECTION







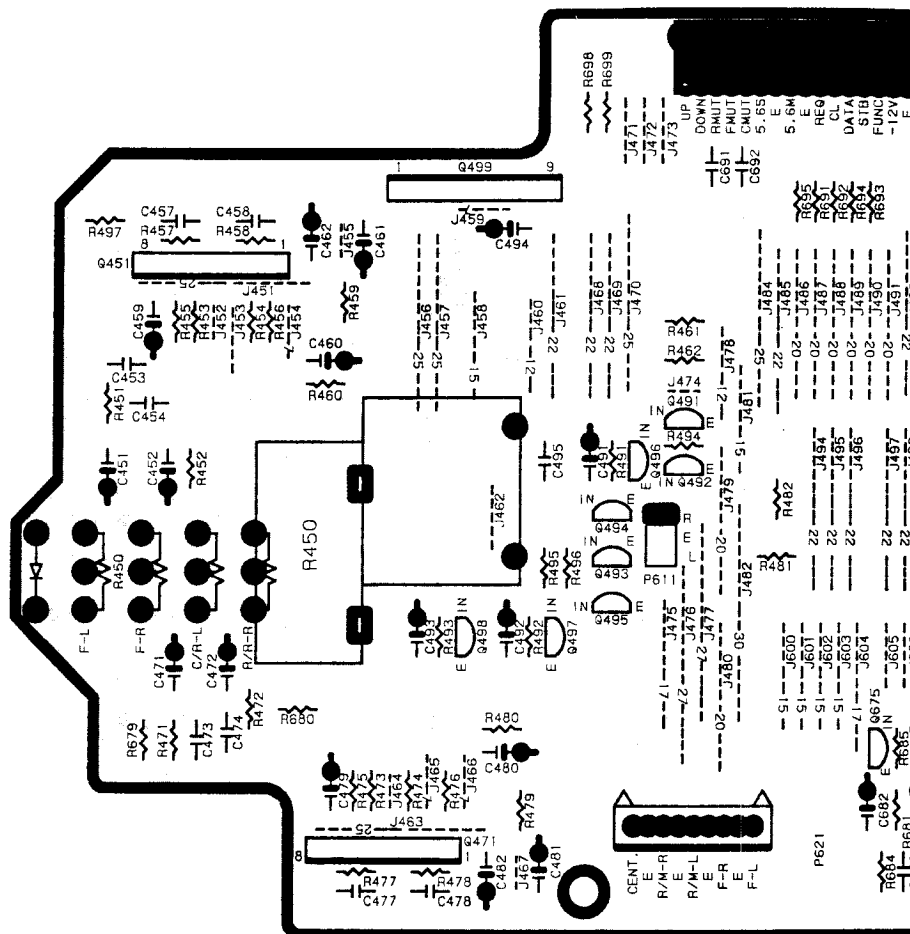




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# PRINTED CIRCUIT BOARD VIEW FROM BOTTOM SIDE

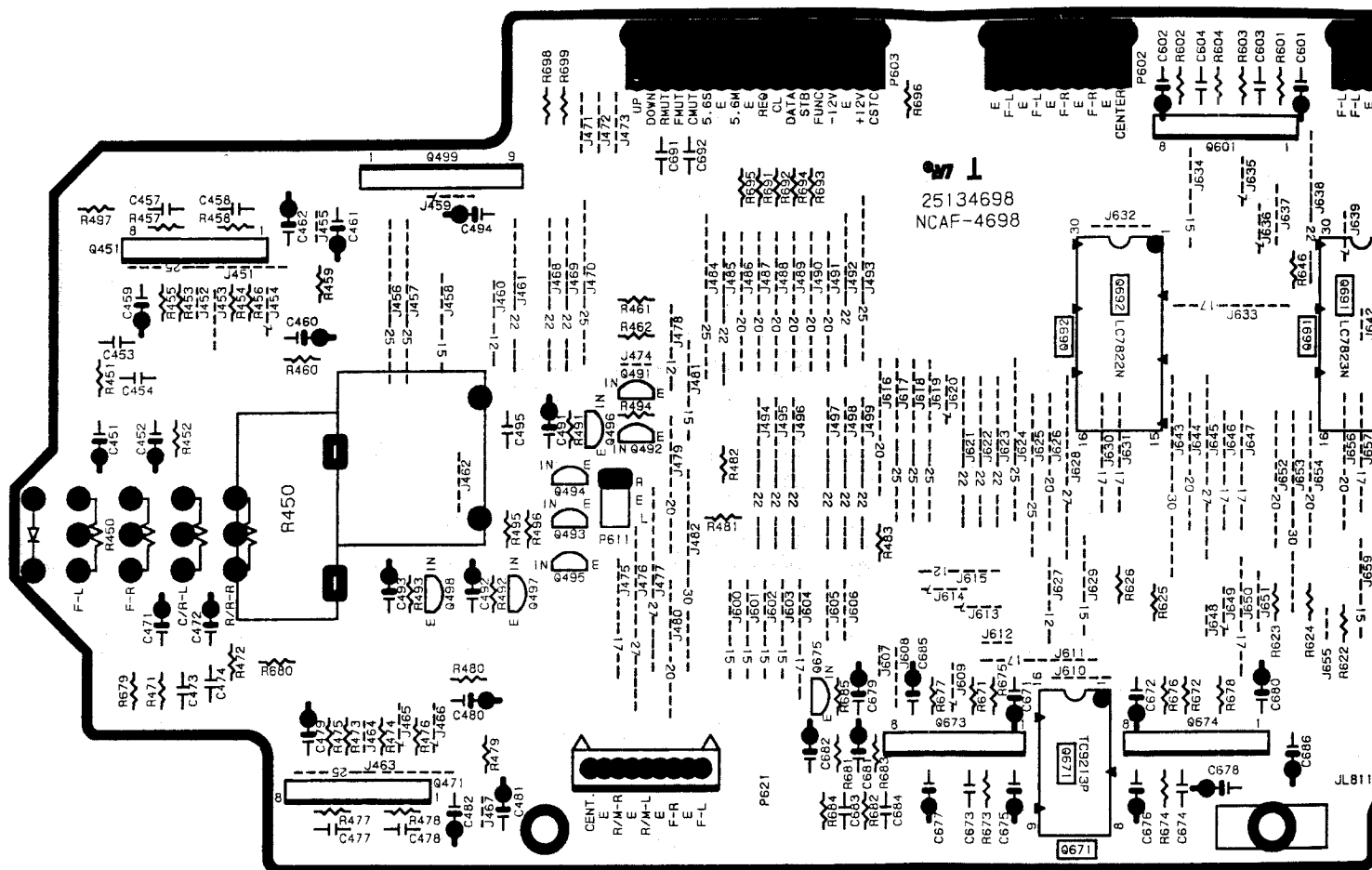


SURROUND CIRCUIT PC BOARD (NAAF-4)

For Service Manuals Contact  
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 8 Cherry Tree Rd, Chinnor  
 Oxon OX9 4QY  
 Tel: 01844-351694 Fax: 01844-352554  
 Email: enquiries@mauritron.co.uk

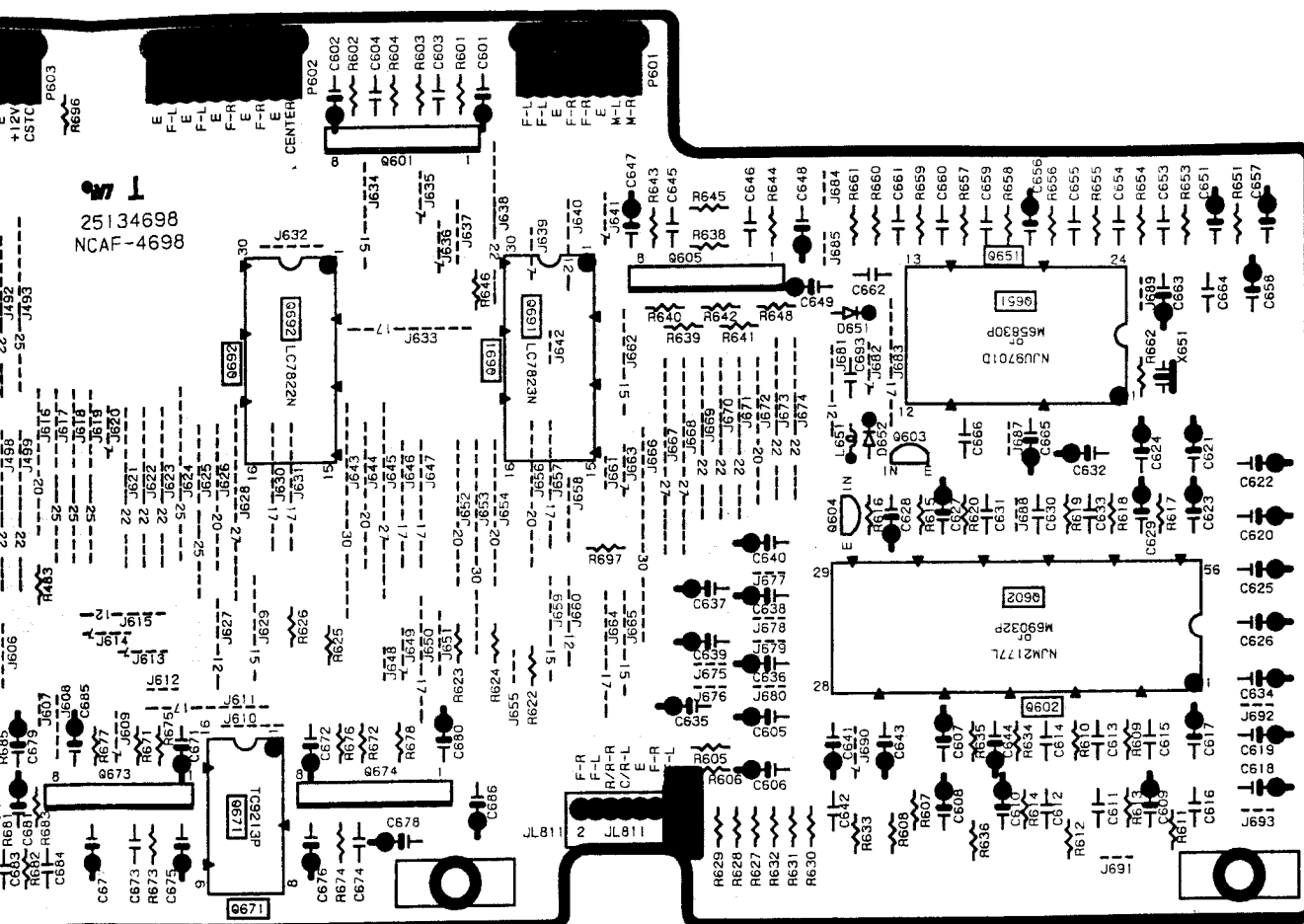


## PCB BOARD VIEW FROM BOTTOM SIDE



## SURROUND CIRCUIT PC BOARD (NAAF-4698)





4698)

For Service Manuals Contact  
MAURITRON TECHNICAL SERVICES  
8 Cherry Tree Rd, Chinnor  
Oxon OX9 4QY  
Tel:- 01844-351694 Fax:- 01844-352554  
Email:- enquiries@mauratron.co.uk



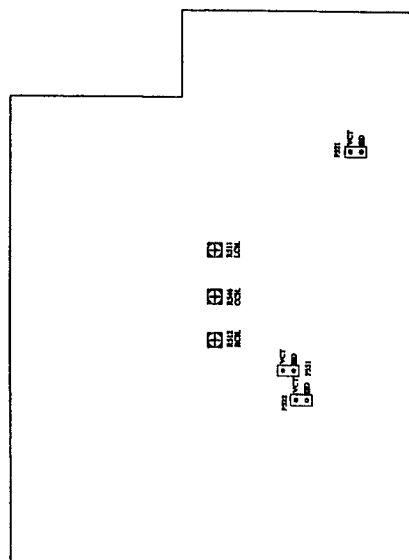
# ADJUSTMENT PROCEDURES

## ● Preparation

1. Input  
FM mono : 1 kHz, 75kHz dev., 60dB/μV  
FM stereo : 1 kHz, 67.5kHz dev., 60dB/μV  
Pilot signal 19kHz 7.5kHz dev.  
A.M. : 400Hz 30% mod.
2. Outputs  
Connect the non-inductive type resistors of 8 ohms to the main speaker, remote speaker, and rear speaker terminals unless otherwise noted.
3. Initializing of unit  
1. Set POWER switch to ON.  
2. Press and hold down the CD button, then press the POWER button.  
3. "Test" is displayed on the display for approximately 5 seconds.  
4. While "Test" is displayed, unplug the power cord from its AC outlet, then "Test" will disappear.  
5. Preset memory and parameters stored in memory, such as surround are initialized and will return to the factory settings.

## 4. Standard Knob Positions

Tape-2 Monitor	Off
Master Volume	Maximum
Rear Volume	Center
Center Volume	Center
Multi Source Volume	Center
Bass Control	Center
Treble Control	Center
Balance Control	Center
Muting	Off
Rec Out	Off
Input Selector	Source
Speakers Main, Remote	On
Selective Tone	Off
Surround Mode	Off
Center Mode	Wide Band
Delay Time	20 ms
MR Off	On
FM Mute	On



MAIN CIRCUIT PC BOARD

**Amplifier section**  
**Idle Current Adjustment**  
 Connect the DC voltmeter to the terminals P521, P522, and P531 (VCT and IID) on the main circuit pc board. Adjust the trim resistors R511, R512 and R546 so that the indicator of voltmeter becomes  $5 \pm 0.5$  mV.  
**NOTE:** Adjust after switching on for 5 minutes.

## FM ADJUSTMENT

Item	Step	Connection of instrument	FM SG output	Stereo modulator output	Tuning frequency	Output indicator	Adjustment point	Adjust for	Remarks
FM IF/RF	1		99.1MHz (99.0MHz) 1kHz 73kHz dev. 65dB(60dB μ)		99.1MHz	DC voltmeter	L101	0 ± 20mV	IF BAND switch: WIDE.
	2	Fig.1				AC voltmeter	IFT on the front end	Maximum	FM MUTE/MODE switch: ON/STEREO Repeat the steps 1 and 3 until no further adjustment is necessary.
	3					Distortion analyzer	L102	Minimum	
VCO		Fig.2	99.1MHz (99.0MHz) 1kHz 73kHz dev. 65dB(60dB μ)		99.1MHz	Frequency counter	R201	19,000 ± 10Hz	
Stereo Distortion		Fig.3	99.1MHz (99.0MHz) Ext. mod. 65dB(60dB μ)	Channel L or R 1kHz	99.1MHz	Distortion analyzer	IFT on the front end	Minimum	Don't turn more than ± 180°
Stereo Separation	1	Fig.3	99.1MHz (99.0MHz) Ext. mod. 65dB(60dB μ)	Channel L 1kHz	99.1MHz	Channel R AC voltmeter	R202	Minimum	Maximum and same separation
	2			Channel R 1kHz		Channel L AC voltmeter		Minimum	
Muting Level		Fig.3	99.1MHz (99.0MHz) 17.2dB(12dB) <19.2dB(14dB)>		99.1MHz	Oscilloscope	R101	Signal output	

## AM ADJUSTMENT

<A>

Step	AM SG output	Tuning Frequency	Output Indicator	Adjustment Point	Adjust for
1		530kHz	Digital DC voltmeter	OSC coil on RF block L151	1.4 ± 0.2V
2	600kHz 400Hz 30% mod. -60dB/m	600kHz	AC voltmeter	RF coil on RF block L151	Maximum
3	990kHz 400Hz 30% mod. -60dB/m	990kHz	AC voltmeter	L152	Maximum

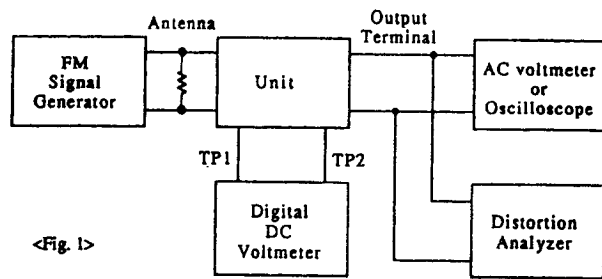
Reference Specification  
 FM tuned voltage : 87.9MHz ~ 107.9MHz  
 More than 1.3V ~ Less than 10V  
 AM tuned voltage : 530kHz ~ 1710kHz  
 1.4 ± 0.2V ~ Less than 9.0V

<B1>

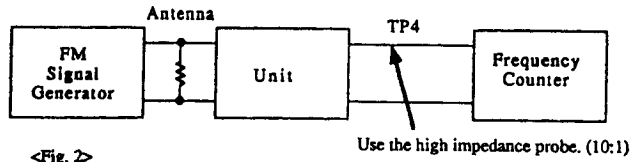
Step	AM SG output	Tuning Frequency	Output Indicator	Adjustment Point	Adjust for
1		522kHz or 531kHz	Digital DC voltmeter	OSC coil on RF block L151	1.3 ± 0.2V
2	603kHz 400Hz 30% mod. -60dB/m	603kHz	AC voltmeter	RF coil on RF block L151	Maximum
3	999kHz 400Hz 30% mod. -60dB/m	999kHz	AC voltmeter	L152	Maximum

Reference Specification  
 FM tuned voltage : 87.5MHz ~ 108.0MHz  
 More than 1.3V ~ Less than 10V  
 AM tuned voltage : 522kHz ~ 1611kHz  
 1.3 ± 0.2V ~ Less than 9.0V

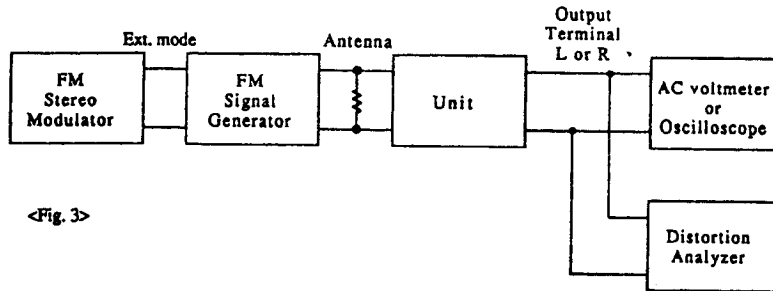




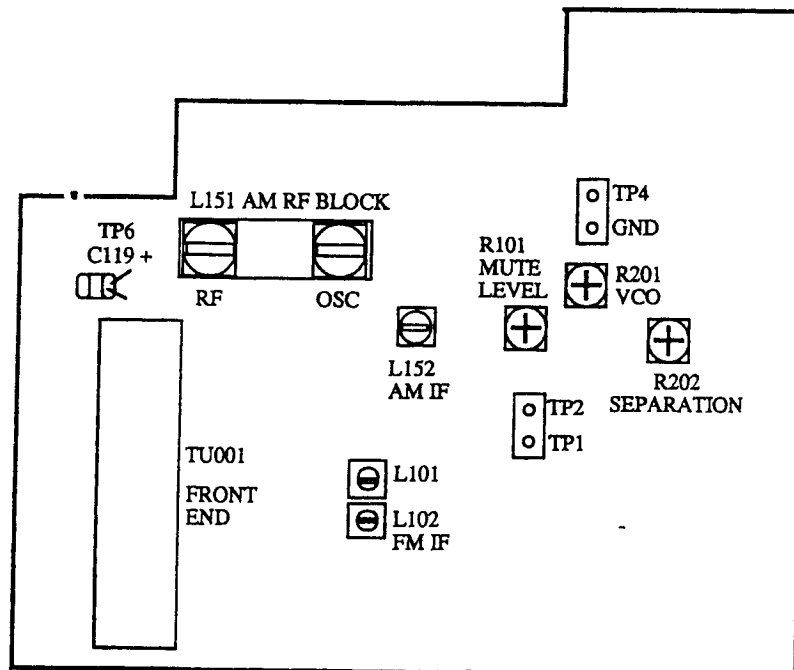
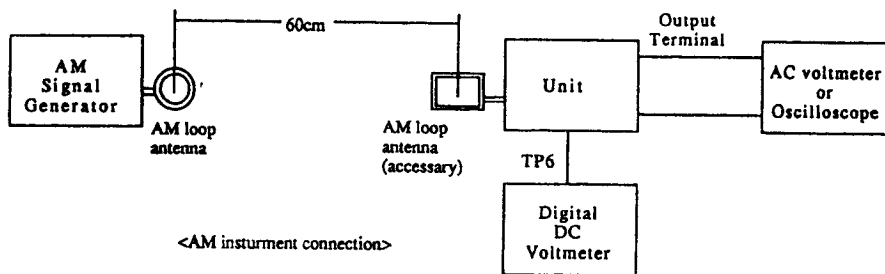
<Fig. 1>



<Fig. 2>



<Fig. 3>





# PRINTED CIRCUIT BOARD PARTS LIST

NOTE: THE COMPONENTS IDENTIFIED BY MARK **A** ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

MAIN CIRCUIT PC BOARD (NAAR-4692)  
CIRCUIT NO. PART NO. DESCRIPTION

ICs  
Q301 22240191 NJM4565D-D  
Q302-Q307 22240247 BA15218N  
Q308 22240339 LC7823N  
Q309 22240280 LC7821N  
Q310 22240270 LC7822N  
Q501,Q502 22240311 MPC1298V  
Q541 22240311 MPC1298V  
Q921 222780125NEC 78M12HF  
Q922 222790125 79M12  
Q923 222780565JRC 78M56  
Q971 22240211 MPD6345C

Transistors  
Q503 2213284 2SC1740S-R  
Q504 2213284 2SC1740S-R  
Q505,Q506 2201653 or \* 2SC3856-O or  
2201654 or \* 2SC3856-Y or  
2201655 or \* 2SC3856-P or  
2202272 or \* 2SC3907-R or  
2202273 \* 2SC3907-O  
Q507,Q508 2201663 or \* 2SA1492-O or  
2201664 or \* 2SA1492-Y or  
2201665 or \* 2SA1492-P or  
2202262 or \* 2SA1516-R or  
2202263 \* 2SA1516-O  
Q509,Q510 2211732 or 2SC1845-F or  
2211733 2SC1845-E  
Q542 2213284 2SC1740S-R  
Q543 2202253 or \* 2SC4467-O or  
2202254 or \* 2SC4467-Y or  
2202256 or \* 2SC4467-P or  
2202502 or \* 2SC3181N-R or  
2202503 \* 2SC3181N-O  
Q544 2202243 or \* 2SA1694-O or  
2202244 or \* 2SA1694-Y or  
2202246 or \* 2SA1694-P or  
2202492 or \* 2SA1264N-R or  
2202493 \* 2SA1264N-O  
Q545 2211732 or 2SC1845-F or  
2211733 2SC1845-E  
Q561 2211792 or 2SA992-F or  
2211793 2SA992-E  
Q924 2211455 2SA1015-GR  
Q925 2213830 DTB113ZS  
Q926 2213640 DTC123JS  
Q941 221282 DTC144ES  
Q942 2213510 DTA114ES

Diodes  
D501-D505 223205 or 1SS270A or  
223163 1SS133  
D561 224450512 MTZ5.1B  
D901 22380038 RBV602  
D902 223205 or 1SS270A or  
223163 1SS133  
D903,D904 223205 1SS270A  
223163 1SS133  
D911 22380048 RBA402  
D912,D913 223205 or 1SS270A or  
223163 1SS133  
D921-D925 22380046 AM01Z  
22380035 GP104003E  
D926 223205 or 1SS270A or  
223163 1SS133  
D927,D928 22380046 AM01Z  
22380035 GP104003E

CIRCUIT NO. PART NO. DESCRIPTION  
D929 224453604 MTZ36D  
D930 224450913 MTZ9.1C  
D931-D934 223205 or 1SS270A or  
223163 1SS133  
D971,D972 223205 or 1SS270A or  
223163 1SS133  
Coils  
L501,L502 231209s S-0.4A  
L541 231209s S-0.4A  
Capacitors  
C303,C304 354761009 10  $\mu$  F, 35V, Elect.  
C307,C308 354721019 100  $\mu$  F, 6.3V, Elect.  
C309,C310 374726224 6200pF  $\pm$  5%, 50V, Plastic  
C311,C312 374721824 1800pF  $\pm$  5%, 50V, Plastic  
C313,C314 354761009 10  $\mu$  F, 35V, Elect.  
C315,C316 354744709 47  $\mu$  F, 16V, Elect.  
C501,C502 354761009 10  $\mu$  F, 35V, Elect.  
C503,C504 374724714 470pF  $\pm$  5%, 50V, Plastic  
C507,C508 354742219 220  $\mu$  F, 16V, Elect.  
C515,C516 374726834 0.068  $\mu$  F  $\pm$  5%, 50V, Plastic  
C517,C518 374724734 0.047  $\mu$  F  $\pm$  5%, 50V, Plastic  
C519-C522 354700109 1  $\mu$  F, 160V, Elect.  
C527,C528 354700109 1  $\mu$  F, 160V, Elect.  
C541 354761009 10  $\mu$  F, 35V, Elect.  
C542 374724714 470pF  $\pm$  5%, 50V, Plastic  
C544 354742219 220  $\mu$  F, 16V, Elect.  
C548 374726834 0.068  $\mu$  F  $\pm$  5%, 50V, Plastic  
C549 374724734 0.047  $\mu$  F  $\pm$  5%, 50V, Plastic  
C550,C551 354700109 1  $\mu$  F, 160V, Elect.  
C554 354700109 1  $\mu$  F, 160V, Elect.  
C907,C908 3504258 12000  $\mu$  F, 63V, Elect.  
C913,C914 3504213 4700  $\mu$  F, 35V, Elect.  
C923 354753329 3300  $\mu$  F, 25V, Elect.  
C924 354761029 1000  $\mu$  F, 35V, Elect.  
C927,C928 354761009 10  $\mu$  F, 35V, Elect.  
C929 354751029 1000  $\mu$  F, 25V, Elect.  
C931 354761009 10  $\mu$  F, 35V, Elect.  
C932,C933 354762219 220  $\mu$  F, 35V, Elect.  
C936 354754719 470  $\mu$  F, 25V, Elect.  
C971 354721019 100  $\mu$  F, 6.3V, Elect.

Resistors  
R511,R512 5210261 N06HR 5KBC, Trim  
R517-R520 452530824 8.2 ohm, 1/2W, Metal  
R521,R522 4000132 0.22ohm x2.5.5W, Metal Plate  
R523-R526 451630824 8.2 ohm, 1W, Metal  
R527-R532 452534794 0.47 ohm, 1/2W, Metal  
R533,R534 442522724 2.7kohm, 1/2W, Metal Oxide  
R539,R540 441623914 390 ohm, 1W, Metal Oxide  
R546 5210261 N06HR 5kBC, trim  
R549,R550 452530824 8.2 ohm, 1/2W, Metal  
R551 4000132 0.22ohm x2.5.5W, Metal Plate  
R552 451630824 8.2 ohm, 1W, Metal  
R553 452530824 8.2 ohm, 1/2W, Metal  
R554-R556 452534794 0.47 ohm, 1/2W, Metal  
R557 442522724 2.7kohm, 1/2W, Metal Oxide  
R921-R923 452534794 0.47 ohm, 1/2W, Metal  
R924 442523304 33 ohm, 1/2W, Metal Oxide  
452530824 8.2 ohm, 1/2W, Metal  
<B><B1><C>  
R927 441621804 18 ohm, 1W, Metal Oxide  
R928 441722214 220 ohm, 2W, Metal Oxide  
R930 442522204 22 ohm, 1/2W, Metal Oxide  
R934 442523314 330 ohm, 1/2W, Metal Oxide  
R935 442522204 22 ohm, 1/2W, Metal Oxide



CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
			Relays		
RL501	25065339	NRL-2P5A-DC24-046	ICs		
RL502	25065379	NRL-1P5A-DC24-058	Q701	22240824	MPD78012BCW-139
RL503,RL504	25065339	NRL-2P5A-DC24-046	Q702	22240685R9	M66004FP
RL505	25065470	NRL-2P1.25A-DC24-079	FL tube		
RL902,RL903	25065435	NRL-1P10A-DC24-072	Q703	212120	13-BT-131GK
			Transistors		
Fuses			Q704, Q705	2213284	2SC1740S-R
F911	252166Y	△ 6.3A-UL/T-237, Secondary Fuse <AH>	Q706	221282	DTC144ES
	252079	△ 6.3A-SE-EAK,Secondary Fuse <B><B1><C>	Q707	2213640	DTC123JS
F912	252166Y	△ 6.3A-UL/T-237, Fuse <AH>	Q708	2213510	DTA114ES
	252079	△ 6.3A-SE-EAK,Fuse <B><B1><C>	Diodes		
Jacks			D701-D706	223205 or 223163	1SS270A or 1SS133
P301-P303	25045300	NPJ-6PDBL159	D707,D708	224450562	MTZ5.6B
P304	25045303	NPJ-4PDBL162	D709	224451303	MTZ13C
Terminal			D710-D715	223205 or 223163	1SS270A or 1SS133
P501	25060125	NTM-8PDMN058	D716,D717	225142	LED,SEL2913K
Plugs			Coils		
P201a	25055500	NPLG-12P475	L701-L703	233411K220	NCH-1387 220K
P601a	25055498	NPLG-8P473	Resonator		
P602a	25055499	NPLG-10P474	X701	3010205	CST8.38MTW, Ceramic
P603a	25055503	NPLG-18P478	Capacitors		
Sockets			C701	3000074T	0.047F, 5.5V, Super
JL401	25050531	NSCT-9P354	C702	375524744	0.47 $\mu$ F $\pm$ 5%,50V,Plastic
JL701a	25050612 or 25050705	NSCT-32P423 or NSCT-32P509	C703	353721019 or 354721019	100 $\mu$ F,6.3V, Elect.
Fuse holders			C704	353780109 or 354780109	1 $\mu$ F,50V, Elect.
F911a,F912a	25050065	YSH403T	C706	375524744	0.47 $\mu$ F $\pm$ 5%,50V,Plastic
Heatsinks			C708-C710	353780109 or 354780109	1 $\mu$ F,50V, Elect.
	27160262	Q501,502	C717,C737	353721019 or 354721019	100 $\mu$ F,6.3V, Elect.
	27160209	RAD-67, Q921,923	C748	353741009 or 354741009	10 $\mu$ F,16V, Elect.
	27160271	RAD-083, D901	Resistor		
CENTER SPEAKER TERMINAL PC BOARD (NAETC-4693)			R714	49163103413	10kohm x 13, 1/10W, Array
CIRCUIT NO.	PART NO.	DESCRIPTION	Switches		
Terminal			S701-S704	25035548	NPS-111-S510
P502	25060114	NTM-2PDML048	S706	25035548	NPS-111-S510
REAR SPEAKER TERMINAL PC BOARD (NAETC-4694)			S708	25035548	NPS-111-S510
CIRCUIT NO.	PART NO.	DESCRIPTION	S710-S728	25035548	NPS-111-S510
P503	25060161	NTM-4PDML087	S731-S746	25035548	NPS-111-S510
HEADPHONE TERMINAL PC BOARD (NAETC-4695)			Socket		
CIRCUIT NO.	PART NO.	DESCRIPTION	JL701b	25050578 or 25050726	NSCT-32P389 or NSCT-32P530
Jack			Plug		
P504	25045255	YKB26-5009	P702a	25055510	NPLG-3P485
OUTPUT TERMINAL PC BOARD (NAETC-4696)			Bracket		
CIRCUIT NO.	PART NO.	DESCRIPTION	U701a	27141575Y	
Jack			Holders		
P432	25045302	NPJ-1PDBL161	Q703a	27190913	
DISPLAY CIRCUIT PC BOARD (NADIS-4697)			D712a,D716a	27190843	RS-412326
CIRCUIT NO.	PART NO.	DESCRIPTION	Remote control sensor		
U701	24130007	GP1U571X			



# SURROUND CIRCUIT PC BOARD (NAAF-4698)

CIRCUIT NO. PART NO. DESCRIPTION

ICs		
Q451,Q471	22240247 or	BA15218N or
	22240293	NJM4558L-D
Q499	22240239	TA7291S
Q601	22240247 or	BA15218N or
	22240293	NJM4558L-D
Q602	22240683 or	NJM2177L or
	22240692	M69032P
Q605	22240247 or	BA15218N or
	22240293	NJM4558L-D
Q651	22240686 or	M65830P or
	22240687	NJU9701D
Q671	22240266	TC9213P
Q673,Q674	22240247 or	BA15218N or
	22240293	NJM4558L-D
Q691	22240339	LC7823N
Q692	22240270	LC7822N

Transistors		
Q491-Q495	2213631T or	RN1241-A or
	2213632T	RN1241-B
Q496-Q498	2213510	DTA114ES
Q603,Q604	2213631T or	RN1241-A or
	2213632T	RN1241-B
Q675	2213631T or	RN1241-A or
	2213632T	RN1241-B

Diodes		
D651,D652	223205 or	1SS270A or
	223163	1SS133

Resonator		
X651	3010217Y	CST2.04MG040

Coil		
L651	233411K220	NCH-1387

Capacitors		
C451,C452	354780229	2.2 $\mu$ F,50V, Elect.
C459-C462	354761009	10 $\mu$ F,35V, Elect.
C471,C472	354780229	2.2 $\mu$ F,50V, Elect.
C479	354761009	10 $\mu$ F,35V, Elect.
C480-C482	354761009	10 $\mu$ F,35V, Elect.
C491-C493	354761009	10 $\mu$ F,35V, Elect.
C494	354721019	100 $\mu$ F,6.3V,Elect.
C601,C602	354761009	10 $\mu$ F,35V,Elect.
C605,C606	354761009	10 $\mu$ F,35V,Elect.
C607-C610	353781099 or	0.1 $\mu$ F,50V, Elect.
	354781099	
C613,C614	374724734	473pF $\pm$ 5%, 50V, Plastic
C615,C616	374722234	223pF $\pm$ 5%, 50V, Plastic
C617-C620	353781099 or	0.1 $\mu$ F,50V,Elect.
	354781099	
C621,C622	354780479	4.7 $\mu$ F,50V, Elect.
C623-C627	353782299 or	0.22 $\mu$ F,50V,Elect.
	354782299	
C628	354761009	10 $\mu$ F,35V, Elect.
C629	354786899	0.68 $\mu$ F,50V,Elect.
C630	374724734	0.047 $\mu$ F $\pm$ 5%, 50V, Plastic
C631	374725624	5600pF $\pm$ 5%, 50V, Plastic
C632	354780229	2.2 $\mu$ F,50V, Elect.
C634	354722219	220 $\mu$ F,6.3V, Elect.
C635	354741019	100 $\mu$ F,16V,Elect.
C636-C641	354761009	10 $\mu$ F,35V,Elect.
C642	374724724	4700pF $\pm$ 5%, 50V, Plastic
C643	354761009	10 $\mu$ F,35V,Elect.
C644	392841007	10 $\mu$ F,16V,Elect.
C647-C649	354761009	10 $\mu$ F,35V, Elect.

For Service Manuals Contact  
MAURITRON TECHNICAL SERVICES  
8 Cherry Tree Rd, Chinnor  
Oxon OX9 4QY  
Tel: 01844-351984 Fax: 01844-352554  
Email: enquiries@mauratron.co.uk

CIRCUIT NO. PART NO.

C653	374723924	3900pF $\pm$ 5%, 50V, Plastic
C655	374726834	0.068 $\mu$ F $\pm$ 5%, 50V, Plastic
C656	354744709	47 $\mu$ F,16V,Elect.
C657,C658	353781099 or	0.1 $\mu$ F,50V, Elect.
	354781099	
C659	374726834	0.068 $\mu$ F $\pm$ 5%, 50V, Plastic
C660	374725624	5600pF $\pm$ 5%, 50V, Plastic
C661	374724724	4700pF $\pm$ 5%, 50V, Plastic
C663,C665	354721019	100 $\mu$ F,6.3V, Elect.
C666	375524744	0.47 $\mu$ F $\pm$ 5%, 50V, Plastic
C671,C672	354780229	2.2 $\mu$ F,50V,Elect.
C675,C676	354761009	10 $\mu$ F,35V,Elect.
C677,C678	354780229	2.2 $\mu$ F,50V,Elect.
C679,C680	354761009	10 $\mu$ F,35V, Elect.
C681,C682	354780109	1 $\mu$ F,50V,Elect.
C683,C684	374721034	0.01 $\mu$ F $\pm$ 5%, 50V, Plastic
C685,C686	354761009	10 $\mu$ F,35V,Elect.

Resistor		
R450	5144018	N16RQL50KA25F, Variable, Volume

Socket		
P601	25050445	NSCT-8P269
P602	25050446	NSCT-10P270
P603	25050450	NSCT-18P274
P611	2000802AUL	NSAS-6P758

Plug		
P621	25055411	NPLG-9P393

STC SWITCH PC BOARD (NASW-4700)  
CIRCUIT NO. PART NO. DESCRIPTION

Switch		
S729	25035548	NPS-111-S510

Socket		
P702b	25050454	NSCT-3P278

TUNER CIRCUIT PC BOARD (NARF-4701)  
CIRCUIT NO. PART NO. DESCRIPTION

Front end		
TU001	240088	FE337-A07 <AH>
	240089	FE415-G11<B><B1><C>

ICs		
Q104	22240039	LA1266
Q107	22240090	LM7001
Q201	22240242	AN7470
Q208	22240247 or	BA15218N or
	22240293	NJM4558L-D

Transistors		
Q101	2210746	2SC945A-P <B><B1><C>
Q102	2211723	2SC1923-O
Q105	2212445	2SK365-GR
Q106	2213284	2SC1740S-R
Q108,Q109	2213510	DTA114ES
Q205,Q206	2212794	2SD1468-R
Q207	2213510	DTA114ES

Diodes		
D103	224450512	MTZ5.1B
D201,D202	223205 or	1SS270A or
	223163	1SS133
D206,D207	223205 or	1SS270A or
	223163	1SS133



CIRCUIT NO.	PART NO.	DESCRIPTION
Transformers		
L101	233401	NFIF-4072
L102	233402	NFIF-4073
L152	232139	NMIF-4062
Coils		
L103	233411M022	NCH-1375 022M
L104	233383	NMC-6070 <B><B1><C>
L151	232148	NMRF-7050
L201,L202	233355A	NMC-4059
Ceramic filters		
X101	3010071	SFE10.7MA5
X102	3010071	SFE10.7MA5 <B><B1><C>
X103	3010071	SFE10.7MA5 <AH>
	3010130	SFE10.7MZ2A <B><B1><C>
X151	3010123	SFZ-450JL
X152	3010076	BFU-450C
Resonator		
X104	3010158 or 3010141	XTL-7.2M,Crystal
Capacitors		
C001,C108	354741019	100 $\mu$ F, 16V, Elect.
C112	354780229	2.2 $\mu$ F, 50V, Elect.
C113	354784799	0.47 $\mu$ F, 50V, Elect.
C117	374723334	0.033 $\mu$ F $\pm$ 5%, 50V, Plastic
C118	354780229	2.2 $\mu$ F, 50V, Elect.
C119	353782299	0.22 $\mu$ F, 50V, Elect.
C123	354721019	100 $\mu$ F, 6.3V, Elect.
C124	354741019	100 $\mu$ F, 16V, Elect.
C152	354721019	100 $\mu$ F, 6.3V, Elect.
C154	354780479	4.7 $\mu$ F, 50V, Elect.
C155-C157	354761009	10 $\mu$ F, 35V, Elect.
C159	374724734	0.047 $\mu$ F $\pm$ 5%, 50V, Plastic
C160	374721034	0.01 $\mu$ F $\pm$ 5%, 50V, Plastic
C161	353782299	0.22 $\mu$ F, 50V, Elect.
C201	354744719	470 $\mu$ F, 16V, Elect.
C202	354742209	22 $\mu$ F, 16V, Elect.
C205	353782299	0.22 $\mu$ F, 50V, Elect.
C206	354780109	1 $\mu$ F, 50V, Elect.
C207	354780339	3.3 $\mu$ F, 50V, Elect.
C208	370134714	470pF $\pm$ 5%, 50V, Plastic
C209	374724734	0.047 $\mu$ F $\pm$ 5%, 50V, Plastic
C211,C212	374721824	1800pF $\pm$ 5%, 50V, Plastic
	374721224	1200pF $\pm$ 5%, 50V, Plastic
		<B><B1><C>
C213,C214	354742209	22 $\mu$ F, 16V, Elect.
C215,C216	354761009	10 $\mu$ F, 35V, Elect.
C219,C220	374726824	6800pF $\pm$ 5%, 50V, Plastic
	374724724	4700pF $\pm$ 5%, 50V, Plastic
		<B><B1><C>
C222	354780229	2.2 $\mu$ F, 50V, Elect.
C223	374721024	1000pF $\pm$ 5%, 50V, Plastic
C224	374724734	0.047 $\mu$ F $\pm$ 5%, 50V, Plastic
C225,C226	354761009	10 $\mu$ F, 35V, Elect.
Trim resistors		
R101	5210266	N06HR100KBC
R201	5210261	N06HR5KBC
R202	5210267	N06HR200KBC
Terminal		
P101	25060160	NTM-4PDMN086 <AH>
	25060117	NTM-2PDMN051
		<B><B1><C>
Socket		
P201	25050447	NSCT-12P271

CIRCUIT NO.	PART NO.	DESCRIPTION
Shield plate		
TU101a	27150346	<B><B1><C>
POWER SUPPLY CIRCUIT PC BOARD (NAPS-4702)		
CIRCUIT NO.	PART NO.	DESCRIPTION
Transistors		
Q951	221282	DTC144ES
Q952	2213650	DTD113ZS
Diodes		
D951-D954	22380046 or 22380035	AM01Z or GP104003E
D955-D957	223205 or 223163	1SS270A or 1SS133
Transformer		
T902	2300670A	$\Delta$ NPT-1111D, Sub Power <AH>
	2300671A	$\Delta$ NPT-1111P, Sub Power
		<B><C>
	2300673A	$\Delta$ NPT-1111Q, Sub Power<B1>
Capacitors		
C901	3500191	$\Delta$ DE7150FZ103MAC400V/125V
C952	354742219	220 $\mu$ F, 16V, Elect.
Resistors		
R901	431523355	$\Delta$ 3.3Mohm, 1/2W, Solid
R951	452530824F	$\Delta$ 8.2ohm, 1/2W, Metal
Fuses		
F901	252166Y	$\Delta$ 6.3A-UL/T-237, Primary Fuse
		<AH>
F902	252076 or 252076CCY	$\Delta$ 3.15A-SE-EAK, Primary Fuse
		<B><B1><C>
F903	252075 or 252075CCY	$\Delta$ 2.5A-SE-EAK, AC outlet Fuse
		<B><C>
AC outlet		
P902	25050409	$\Delta$ NSCT-4P234 <AH>
	25050640	$\Delta$ NSCT-4P451 <B><C>
Relay		
RL901	25065248	$\Delta$ NRL-1P15A-DC12-29
Fuse holders		
F901a	25050065	$\Delta$ YSH403T <AH>
F902a	25050065	$\Delta$ YSH403T <B><B1><C>
F903a	25050065	$\Delta$ YSH403T <B><C>
Terminal		
	25060092	NTM-1S33
REAR AMPLIFIER PC BOARD (NAAF-4703)		
CIRCUIT NO.	PART NO.	DESCRIPTION
ICs		
Q571,Q572	22240108	$\mu$ PC1225H
Transistors		
Q562,Q563	2211732 or 2211733	2SC1845-F or 2SC1845-E
Q573,Q574	2213284	2SC1740S-R
Q575,Q576	2202063 or 2202064 or 2202066	* 2SC4511-O or * 2SC4511-Y or * 2SC4511-P
Q577,Q578	2202053 or 2202054 or 2202056	* 2SA1725-O or * 2SA1725-Y or * 2SA1725-P



CIRCUIT NO.	PART NO.	DESCRIPTION
Q579,Q580	2211732 or 2211733	2SC1845-F or 2SC1845-E
L571,L572	Coils 231209s	S-0.4A
C563	Capacitors 354721019	100 $\mu$ F, 6.3V, Elect.
C571,C572	354761009	10 $\mu$ F, 35V, Elect.
C577,C578	354721019	100 $\mu$ F, 6.3V, Elect.
C585,C586	374723334	0.033 $\mu$ F $\pm$ 5%, 50V, Plastic
C587,C588	374724734	0.047 $\mu$ F $\pm$ 5%, 50V, Plastic
C595,C596	354761009	10 $\mu$ F, 35V, Elect.
R585,R586	Resistors 4000131	0.22 ohm x2, 2W, Metal plate
R587-R590	452530824	8.2 ohm, 1/2W, Metal
R597	452530824	8.2 ohm, 1/2W, Metal

P611a	Plug 25055234	NPLG-3P218
JL571	Sockets 25050280	NSCT-3P108
JL572	25050282	NSCT-5P110

**TONE CONTROL CIRCUIT PC BOARD (NAAF-4704)**  
CIRCUIT NO. PART NO. DESCRIPTION

Q401,Q402	ICs 22240247 or 22240293	BA15218N or NJM4558L-D
Q403-Q406	Transistors 2211945	2SK246-GR
D401-D404	Diodes 223205 or 223163	1SS270A or 1SS133
C401,C402	Capacitors 354761009	10 $\mu$ F, 35V, Elect.
C405,C406	354744709	47 $\mu$ F, 16V, Elect.
C407,C408	374721534	0.015 $\mu$ F $\pm$ 5%, 50V, Plastic
C411,C412	374721534	0.015 $\mu$ F $\pm$ 5%, 50V, Plastic
C413-C416	374721044	0.01 $\mu$ F $\pm$ 5%, 50V, Plastic
C417-C420	374721024	1000pF $\pm$ 5%, 50V, Plastic
R393	Resistors 5104225	N11RGLC 250KWT22Z, Balance
R407,R413	5104230	N14RLC 100KWT22Z, Bass, Treble

**VIDEO CIRCUIT PC BOARD (NAETC-4705)**  
CIRCUIT NO. PART NO. DESCRIPTION

Q251	IC 22240373	BA7625
Q252-Q254	Transistors 2213354	2SA933S-R
D251	Diodes 22380046 or 22380035	AM01Z or GP104003E

CIRCUIT NO.	PART NO.	DESCRIPTION
C251	Capacitors 354780229	2.2 $\mu$ F, 50V, Elect.
C252	354724719	470 $\mu$ F, 6.3V, Elect.
C253	354780229	2.2 $\mu$ F, 50V, Elect.
C254	354724719	470 $\mu$ F, 6.3V, Elect.
C255	354780229	2.2 $\mu$ F, 50V, Elect.
C258	354724719	470 $\mu$ F, 6.3V, Elect.
C259	354721019	100 $\mu$ F, 6.3V, Elect.

CIRCUIT NO.	PART NO.	DESCRIPTION
P251	Terminals 25045339	NPJ-4PDYE190
P252	25045395	NPJ-2PDYE221

CIRCUIT NO.	PART NO.	DESCRIPTION
JL251	Socket 25050529	NSCT-7P352

**NAD LINK CONVERTER CIRCUIT PC BOARD (NAETC-5056)**  
CIRCUIT NO. PART NO. DESCRIPTION

Q761	ICs 22240808	TMS70CT40
Q762	22240809	TMS77C82

Q763,Q764	Transistors 2211455 or 2211455	2SA1015-GR
Q765-Q767	2213284	2SC1740S-R

D761-D764	Diodes 223205 or 223163	1SS270A or 1SS133
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X761	Resonator 3010234Y	CST5.2MGW
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C761	Capacitors 354780109	1 $\mu$ F, 50V, Elect.
C764	375524744	0.047 $\mu$ F $\pm$ 5%, 50V, Plastic

JL703	Socket 25050531	NSCT-9P354
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**NAD LINK I/O CIRCUIT PC BOARD (NAETC-5057)**  
CIRCUIT NO. PART NO. DESCRIPTION

JL961	Socket 25050527	NSCT-5P350
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P761	Jack 25045395	NPJ-2PDYE221
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NOTE: <AH>: U.S.A., Canadian model only  
<B>: U.K. model only  
<B1>: Australian model only  
<C>: European model only

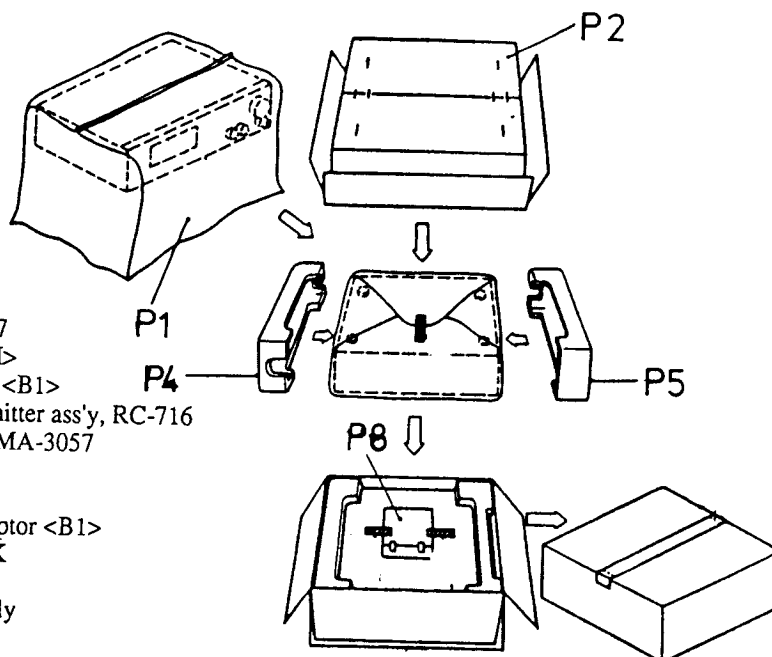
**For Service Manuals Contact**  
**MAURITRON TECHNICAL SERVICES**  
8 Cherry Tree Rd, Chinnor  
Oxon OX9 4QY  
Tel: 01844-351694 Fax: 01844-352554  
Email: enquiries@mauritron.co.uk



# PACKING VIEW

REF.NO.	PART NO.	DESCRIPTION
P1	29100034AY	Styren Bag 850x650
P2	29052790Y	Carton Box
P4	29091615BY	Pad (R)
P5	29091614BY	Pad (L)
P8	Accessory bag ass'y	
P8-1	29341983Y	Instruction manual, U7
P8-2	29355226Y	Instruction Sheet <AH>
P8-3	29365043Y	Warranty card (NAD) <B1>
P8-4	24140274	Remote control transmitter ass'y, RC-716
P8-5	232140	AM Loop antenna, NMA-3057
P8-6	292111Y	FM antenna
P8-7	292112	FM antenna <B1><C>
P8-8	25065462	YAE21-0237, FM adaptor <B1>
P8-9	2010317Y	Cord ass'y, NAD LINK

NOTE: <AH>: U.S.A., Canadian model only  
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 <B1>: Australian model only  
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## NOTES:

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