

SERVICE MANUAL

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

2857 NTX

SOLID STATE 28" COLOUR TELEVISION

ALBA

▲BUSH

harvard

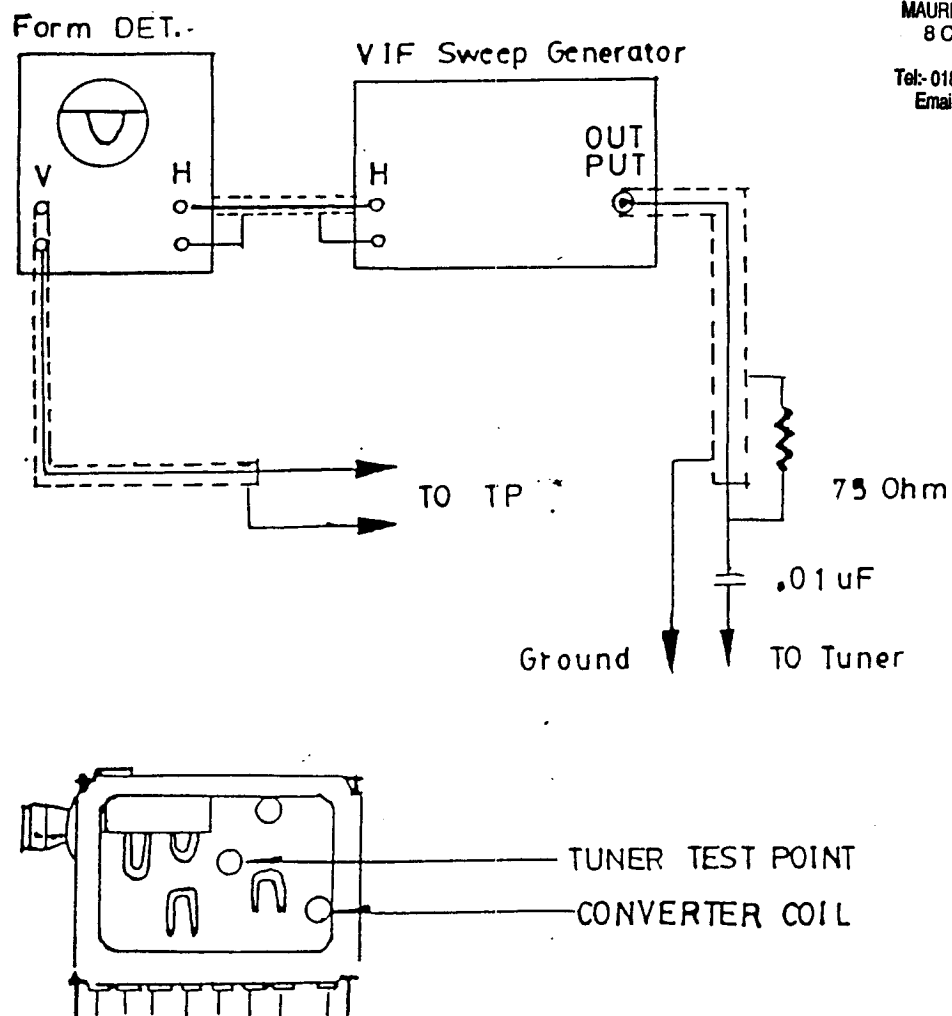
HiNARi

<u>SPECIFICATION</u>			
SYSTEM	:	PAL- I	
---- TV SECTION ----			
CHANNEL COVERAGE	:		CH.
VHF LOW	:		CH.
VHF HIGH	:		CH.
UHF	:		CH.
FREQUENCY RANGE	:		MHz
VHF LOW	:		MHz
VHF HIGH	:		MHz
UHF	:	470-862	MHz
VISION/SOUND SEPARATION	:	6.0	MHz
FREQUENCY VIDEO IF	:	39.5	MHz
SOUND IF	:	33	MHz
STEREO SENSITIVITY	:	40	dBuV
SENSITIVITY VHF LOW	:	47	dBuV
(AT 30dB S/N) VHF HIGH	:	47	dBuV
UHF	:	50	dBuV
SCANNING LINES	:	625	lines
HORIZONTAL	:	15625	Hz
VERTICAL	:	50	Hz
OUTPUT POWER MAXIMUM	:	4500 mW	
10% THD	:	3000 mW	
C R T .	:	28" DIAGONAL, 110° DEGREES DEFLECTION ANGL	
SPEAKER	:	4" 16OHM 5W x 2	
ANTENNAL EXTERNAL	:	75	OHM
POWER CONSUMPTION	:		

VIF ALIGNMENT

A. Preparation Step (See Fig. 1)

- (i) Connect AGC bias voltage to pin 10 at IC102, the DC supply should be turned off this time.
- (ii) Connect 14V B+ bias voltage to D404 (-) and Ground.
- (iii) Connect 14V B+ bias voltage to C923 (+) and Ground.
- (iv) Connect sweep generator to tuner test point and Ground.



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Fig.1

B. Tank Coil Alignment Step (See Fig. 2)

- (i) Calibrate the Division of waveform Detector equal to 100 mV per div.
- (ii) The output of sweep generator should be -50dB.
- (iii) Connect the waveform detector between L103 and Ground.
- (iv) Adjust AGC bias until the output waveform equal to 1V p.p. (10 div.)

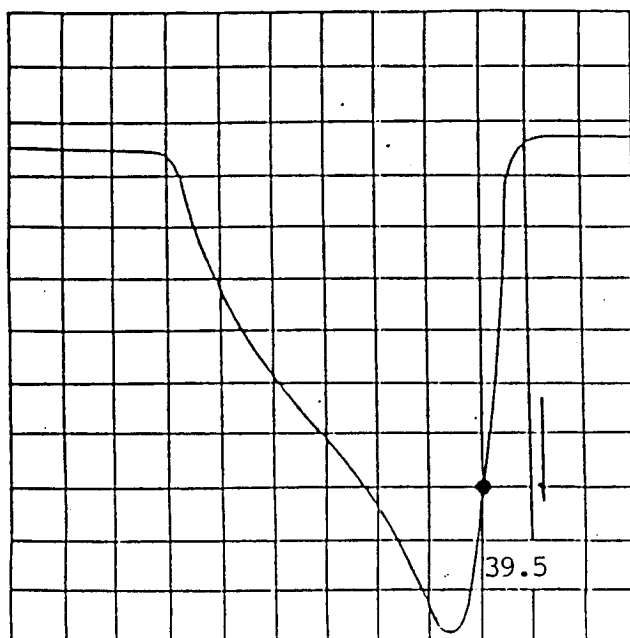


Fig. 2

- (v) Turn T101 until the marker 38.0MHz falls to the lowest point as Fig.2.

C. VIF ALIGNMENT

- (i) Connect waveform detector to L103 and Ground.
- (ii) Connect 100 ohm resistor between TP103 and TP104.
- (iii) Adjust T105 until obtain the maximum waveform amplitude.
(If Provided.)
- (iv) Reduce output level of sweep generator to -50dB.
- (v) Adjust AGC bias to maintain the waveform achieve 1V p-p.
- (vi) Adjust tuner convertor coil to obtain the waveform as Fig.3.

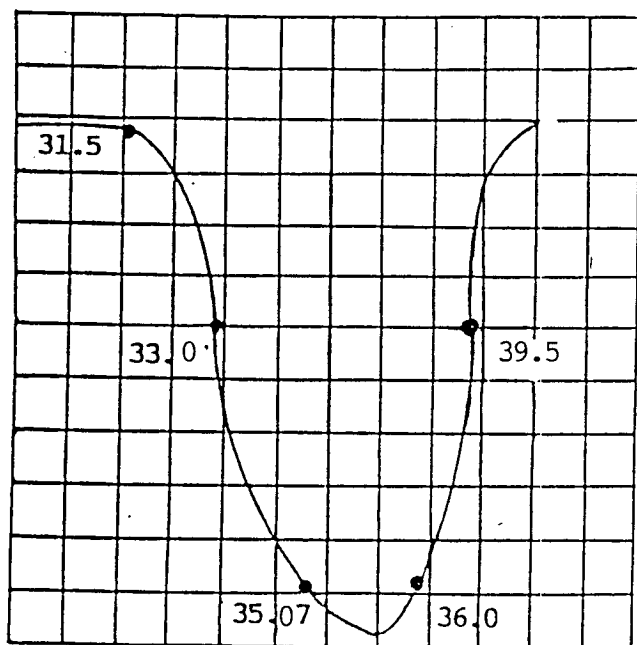


Fig. 3

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D. AFC ALIGNMENT

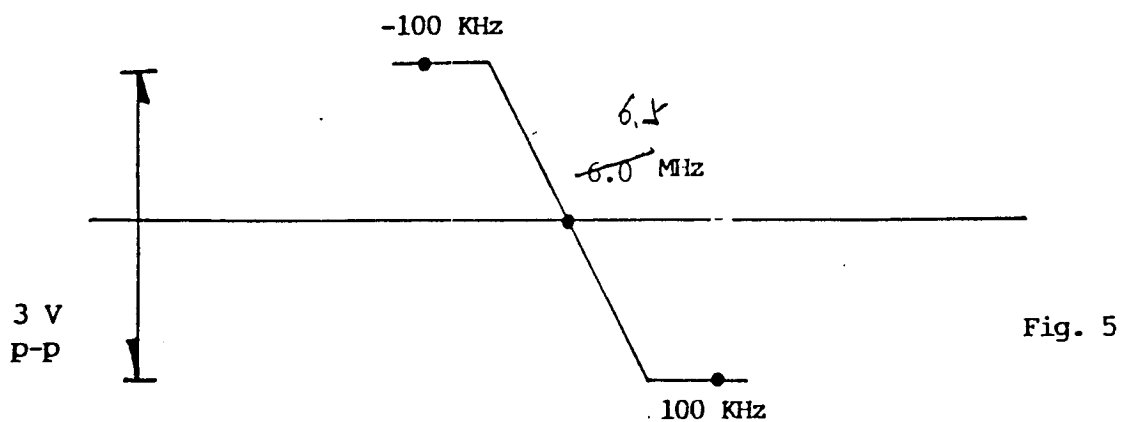
- (i) Connect Philips Pattern Generator to tuner test point and Ground (Frequency is 39.5 MHz color bar)
- (ii) Connect Digital multimeter to PIN 18 at IC102.
- (iii) Adjust T101 to obtain a DC 6V.

E. SOUND TANK COIL ALIGNMENT

- (i) Connect Philips Pattern Generator to tuner test point and Ground (Frequency is 39.5 MHz color bar)
- (ii) Connect Digital multimeter to PIN 12 at IC101.
- (iii) Adjust T103 to obtain a DC 2.8V.

F. SIF ALIGNMENT

- (i) Connect the sweep generator to TP105.
- (ii) Connect waveform detect to PIN 1 and PIN 3 at CN306
- (iii) Connect AGC Bias voltage to TP101.
- (iv) The output of sweep generator should be -40dB.
- (v) Adjust T104 and T102 to obtain the waveform as Fig.5.



B+ ADJUSTMENT

- 1) Connect a digital volt meter to TPB+ and ground.
- 2) Set Brightness, contrast and colour to minimum.
- 3) Adjust VR901 and obtain a reading of 143V.

HORIZONTAL CIRCUIT ADJUSTMENT

- 1) Receive Monoscope Pattern input signal 80dBuV.
- 2) Connect terminal 25 pin of IC102 and the ground with the Elect.Cap. 10/16
- 3) Adjust VR103 to obtain the picture running at center.
- 4) Adjust VR102 to obtain the picture at center.

VERTICAL CIRCUIT ADJUSTMENT

- 1) Receive the Monoscope Pattern.
- 2) Adjust V-size (VR401) to obtain a normal picture.

WHITE BALANCE ALIGNMENT STEP

(deguss the picture by deguassing coil if necessary)

- 1) Receive a channel from pattern generator, and switch off all pattern.
- 2) Turn the brightness, contrast and colour control to minimum.
- 3) Turn VR551,552,553,554,555 to central position.
- 4) Turn VR301 to central position and get a 2V DC voltage at L301.
- 5) Adjust screen control on flyback transformer, until no emission on CRT picture.
- 6) Adjust VR553,554,555 to get cut off balance. (black level balance)
- 7) Adjust VR552,551 to get white balance.

SUB-BRIGHTNESS ALIGNMENT

- 1) Receive a colour bar pattern.
- 2) Turn the brightness, contrast and colour to minimum.
- 3) Adjust VR301 until the brightest bar can just be seen.

FOCUS ALIGNMENT

- 1) Set the brightness and contrast to middle position.
- 2) Receive a monoscope pattern.
- 3) Adjust focus control to obtain sharpest picture.

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AGC ALIGNMENT

- 1) Receive CH69 (UHF) and input field strength in 63dB $\pm$ 3dB input.
- 2) Adjust VR101 to the point where noise is disappeared.

EAST-WEST CORRECTION ADJUSTMENT

FOR PAL SYSTEM

- 1) Receive a pattern with centre cross and crosshatch.
- 2) After vertical size adjustment, adjust VR403 for picture size, adjust VR402 for correction.

PAL CHROMA ALIGNMENT

- (1) Connect OSC to PIN 15 of IC307 through a 10K resistor.
- (2) Receive a PAL colour bar signal.
- (3) Adjust T305 to get a maximum amplitude waveform.

VOLTAGE TABLE FOR IC					
SYMBOL PIN NO.	IC302 (V)	IC303 (V)	IC304 (V)	IC305 (V)	IC306 (V)
1	3.649	5.2	3.29	4.1	5.56
2	0	0	11.8	0.03	0.00
3	3.65	4.07	8.2	3.39	0.00
4	3.65	0.00	0.00	3.39	0.00
5	3.65	3.966	7.8	2.5	0.627
6	3.68	3.904	0.1	4.8	0.00
7	3.68	0.00	0.00	4.18	0.87
8	0.004	0.00	0.00	4.26	0.00
9	0.115	4.3	4.3	4.97	5.5
10	0.01	4.06	4.1	11.4	0.00
11	3.027	0.39	2.9	2.34	3.01
12	0.0	5.28	0.00	10.0	3.01
13	2.99	5.3	0.00	0.00	0.00
14	11.838	0.00	4.06	1.2	1.36
15	0.016	4.63	4.09	7.4	0.00
16	2.98	4.6	2.3	3.7	1.37
17		3.46	2.06	0.00	
18		0.00	0.00	0.00	
19		0.00	3.36		
20		3.8	3.33		
21		0.00			
22		4.578			
23		0.00			
24		5.315			
25					
26					
27					
28					

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NOTE : VOLTAGE ARE TAKEN UNDER TUNED CONDITION WITH

CONTRAST : Maximum Position
 BRIGHTNESS : Maximum Position
 COLOR : Maximum Position
 SIGNAL INPUT : 80 dBuV
 CHANNEL SETTING : The Last Channel of UHF High
 SIGNAL PATTERN : Colour Bar

VOLTAGE TABLE FOR IC					
SYMBOL PIN NO.	IC102 (V)	IC101 (V)	IC307 (V)	IC401 (V)	
1	5.1	1.7	6.5	2.2	
2	2.8	2.1	7.2	0.00	
3	3.7	2.5	6.5	1.6	
4	3.4	0.937	7.22	0.00	
5	3.9	1.82	9.65	0.13	
6	0.0	2.17	9.6	25.0	
7	11.5	2.17	4.34	1.9	
8	5.5	1.8	3.45	4.35	
9	5.5	1.8	0.00	24.34	
10	2.4	4.1	4.38		
11	1.88	4.1	0.00		
12	2.46	2.79	2.32		
13	3.0	0.04	11.5		
14	1.5	1.67	5.7		
15	2.29	1.77	3.36		
16	0.0	2.95	7.9		
17	3.5	0.03	2.5		
18	6.28	0.00	7.6		
19	6.18	5.15	2.8		
20	5.6	1.78	7.68		
21	5.6		2.7		
22	9.4		5.47		
23	2.8		7.2		
24	2.9		1.26		
25	4.5				
26	0.787				
27	1.18				
28	3.3				

NOTE : VOLTAGE ARE TAKEN UNDER TUNED CONDITION WITH

CONTRAST : Maximum Position

BRIGHTNESS : Maximum Position

COLOR : Maximum Position

SIGNAL INPUT : 80 dBuV

CHANNEL SETTING : The Last Channel of UHF High

SIGNAL PATTERN : Colour Bar

VOLTAGE TAELE FOR TRANSISTOR							
SYMBOL	B (V)	C (V)	E (V)	SYMBOL	B (V)	C (V)	E (V)
Q101	10.2	10.9	11	Q307	10 mV	11.1	0
	11.1	0	11.1	Q308	10 mV	11.1	0
Q102	10.9	3 mV	11	Q401	0.4	8.4	0
	11	3 mV	11.1	Q402	-0.1	113	0
Q103	0.6	5 mV	0	Q403	1.7	10.9	0.1
	30 mV	11	0	Q404	10.8	0.6	11.4
Q104	36 mV	11	0	Q405	0.6	9.1	11.4
	36 mV	11	0	Q406	10 mV	1.7	1.2
Q105	1	8	0.3	Q503	11.3	139	10.8
Q106	12 mV	2.4	0	Q551	10.8	136.5	10.8
Q107	30 mV	11	0	Q552	11.3	132	10.8
	0.64	46 mV	0	Q554	3.3	10.8	2.7
Q108	11	0.1	11	Q555	3.2	10.8	2.6
	10.2	11	11.1	Q556	3.2	10.8	2.6
Q109	3.7	11	3.1	Q601	0.6	1.1	0
Q201	18.6	18	18	Q602	0.6	56 mV	3 mV
Q302	1.9	1.7	0	Q603	8.6	10.9	8.3
Q303	42	80.8	0	Q604	2 mV	0.25	0
Q304	3.8	11.1	3.1	Q605	0.26	1.1	0
Q305	50 mA	11.1	10 mV	Q905	0.6	0.6	0
Q306	-3	10.5	0	Q909	-36.4	202	-35
				Q910	-31	-30	-31
				Q911	-26	-30	-31
				Q912	-22	-18.4	-30

NOTE : VOLTAGE ARE TAKEN UNDER TUNED .CONDITION WITH

CONTRAST : Maximum Position

BRIGHTNESS : Maximum Position

COLOR : Maximum Position

SIGNAL INPUT : 80 dBuV

CHANNEL SETTING : The Last Channel of UHF High

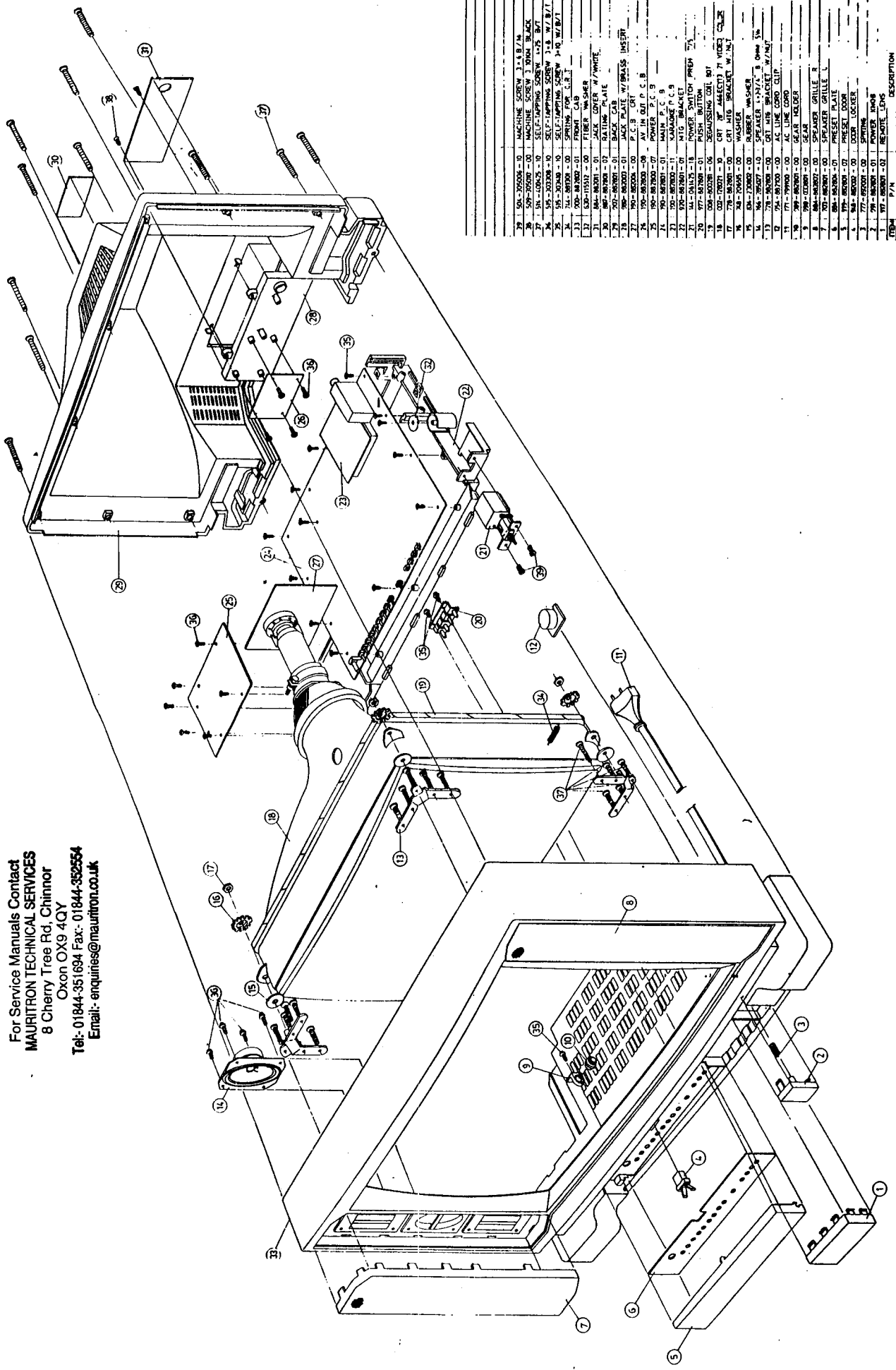
SIGNAL PATTERN : Colour Bar

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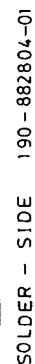
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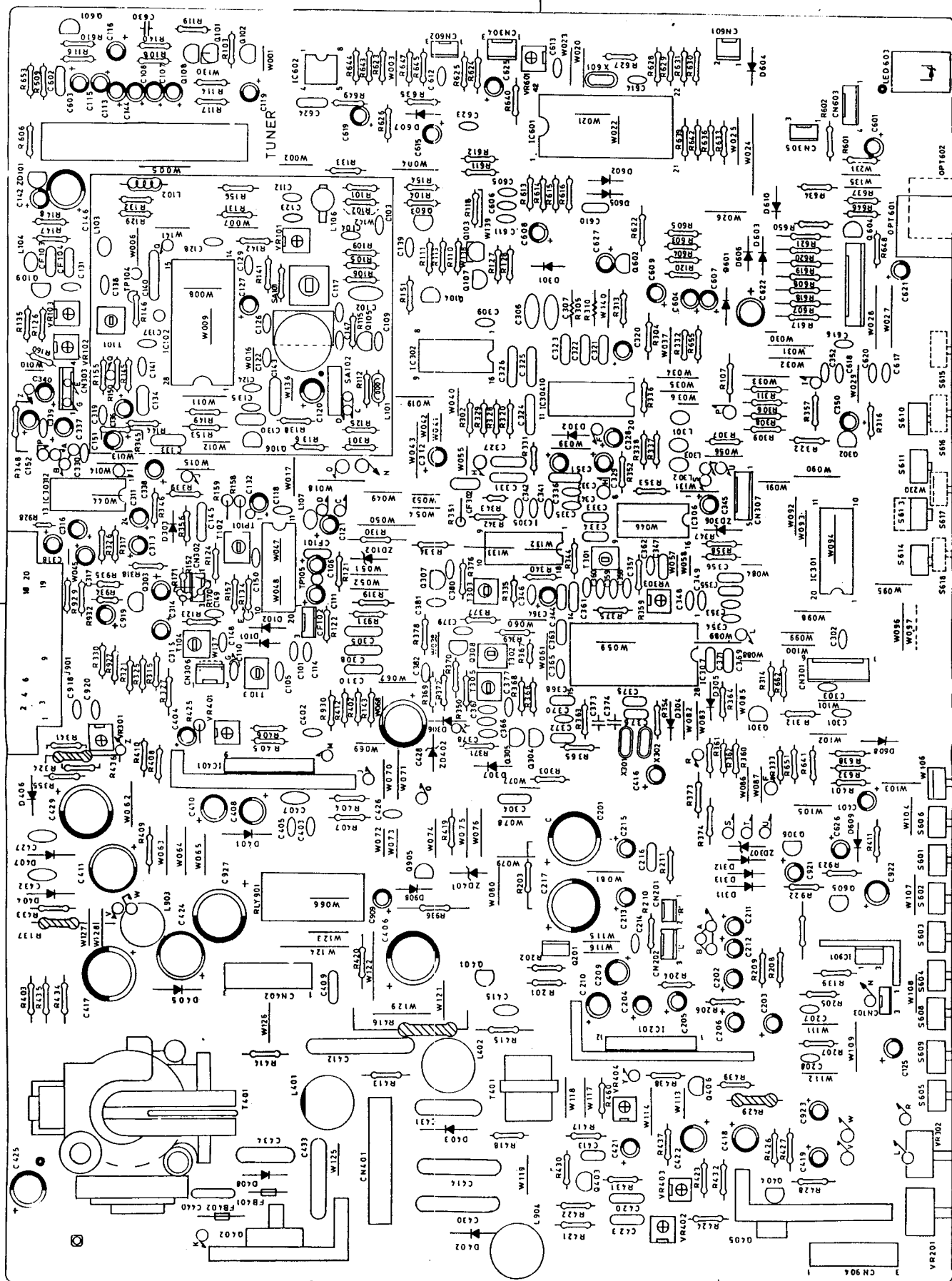
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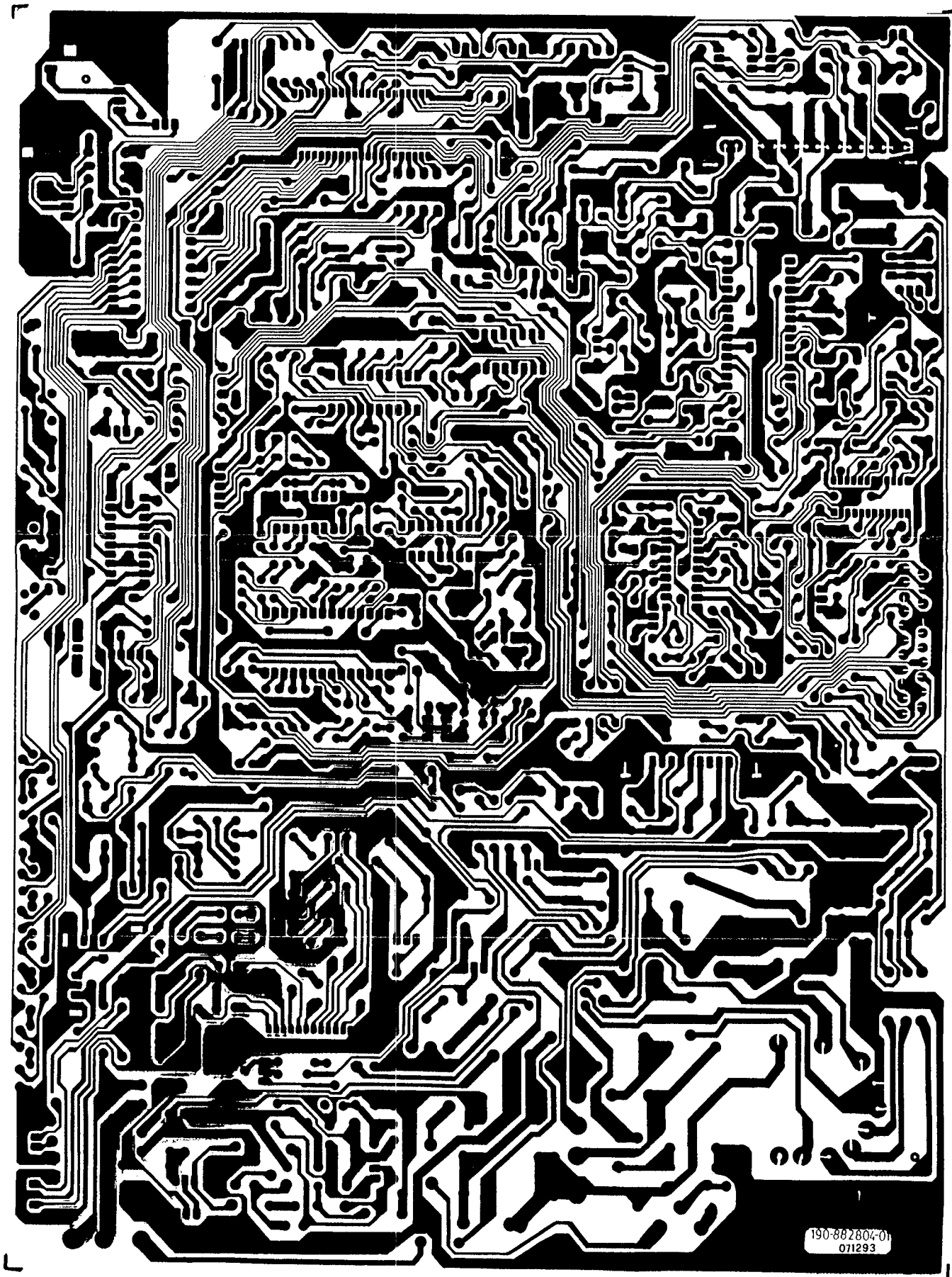
ITEM	P/N	DESCRIPTION
1	501-20000-10	MACHINE SCREW 3/8 X 1/4
2	501-20000-00	MACHINE SCREW 3/8 X 1/4 BLACK
3	501-20000-10	SELF-TAPPING SCREW 1/8 X 1/2
4	501-20000-10	SELF-TAPPING SCREW 1/8 X 1/2
5	501-20000-10	SELF-TAPPING SCREW 1/8 X 1/2
6	501-20000-10	SELF-TAPPING SCREW 1/8 X 1/2
7	501-20000-10	SELF-TAPPING SCREW 1/8 X 1/2
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29	501-20000-10	SELF-TAPPING SCREW 1/8 X 1/2
30	501-20000-10	SELF-TAPPING SCREW 1/8 X 1/2
31	501-20000-10	SELF-TAPPING SCREW 1/8 X 1/2
32	501-20000-10	SELF-TAPPING SCREW 1/8 X 1/2
33	501-20000-10	SELF-TAPPING SCREW 1/8 X 1/2
34	501-20000-10	SELF-TAPPING SCREW 1/8 X 1/2
35	501-20000-10	SELF-TAPPING SCREW 1/8 X 1/2
36	501-20000-10	SELF-TAPPING SCREW 1/8 X 1/2





COMPONENT SIDE 190-882804-01

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190-882804-01
071293

2857NTX SPARE PARTS LIST

ASSEMBLY NO.	DESCRIPTION
155-000000-07-00	COMMON PART FOR HANDSET ASS'Y
155-000000-07-01	NON-COM PART HANDSET ASS'Y (W/STEREO)
158-882886-07-01	COMMON PART FOR CHASSIS ASS'Y (PAL/I)
158-882886-51-01	NON-COM PART CHASSIS ASS'Y (NICAM & TXT)
159-882886-51-00	COMMON PART FOR CASING ASS'Y (PAL/I)
159-882886-51-01	NON-COMMON PART FOR CASING ASS'Y
160-000100-60-01	NON-COM S. TELETEXT (ENG) ASS'Y (W.EUROPE)
163-882886-51-01	NON-COMMON PART FOR PACKING ASS'Y (PAL/I)

** THIS SPARE LIST IS MADE FOR TECHNICAL / MAINTENANCE REFERENCE ONLY **

COMPONENT PART	DESCRIPTION / LOCATION
ASSEMBLY:	155-000000-070-00 COMMON PART FOR HANDSET ASS'Y
107-800455-46	455K HZ RESONATOR CSB455EB MURATA CF701
113-101005-17	CARBON FILM RESISTOR 100 OHM 1/16W +-5% R704,706
113-102005-17	CARBON FILM RESISTOR 1K OHM 1/16W +-5% R705
113-103005-17	CARBON FILM RESISTOR 10K OHM 1/16W +-5% R702
113-109005-17	CARBON FILM RESISTOR 1 OHM 1/16W +-5% R706,710
113-473005-17	CARBON FILM RESISTOR 47K OHM 1/16W +-5% R703
113-682005-17	CARBON FILM RESISTOR 6.8K OHM 1/16W +-5% R701
127-476042-03	ELECT. CAP 47 MFD 16V +-20% C701
130-600101-00	INFRARED EMITTER EL-1L1 KODENSHI LED701
131-210719-29	TRANSISTOR 2SA719R/S MATSUSHITA Q702
131-230945-00	TRANSISTOR 2SC945 NEC Q701
133-803010-33	I.C. SAA3010T PHILIPS IC701
172-626006-42	UL 1007 TOP COAT WIRE AWG 26 60MM RED 10 X 10 MM P.C.B. (+) TO BATTERY CONTACT PLATE (+)
172-626008-40	UL 1007 TOP COAT WIRE 26 80MMBLACK 10 X 10 MM P.C.B. (-) TO BATTERY CONTACT PLATE (-)
190-882801-00	REMOTE P.C.B. (270292)
516-260408-10	SELF-TAPPING SCREW 2.6 X 8 P/T (HARDEN) CAB. MTG.
773-036863-00	BATTERY CONTACT PLATE (A) +-VE
773-036864-00	BATTERY CONTACT PLATE +-VE
774-036862-00	BATTERY CONTACT SPRING -VE
964-892001-00	SENSOR LENS
ASSEMBLY:	155-000000-07-01 NON-COM PART HANDSET ASS'Y (W/STEREO)
849-892004-00	CONTACT RUBBER KEY PAD (35 KEYS)
892-892004-01	D. KEY PLATE-CLEAR W/BLK, WH, RED, D.GR.SS.ENG W/ST I/II (35 KEY)
900-892010-01	HANDSET TOP CABINET – BLACK MOULDED
902-892010-01	HANDSET BOTTOM CABINET – BLACK MOULDED
910-892001-01	BATTERY DOOR

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ASSEMBLY: 001-228079-05	158-882886-51-00 COMMON PART FOR CHASSIS ASS'Y (PAL/I) 28" FLYBACK TRANSFORMER #154-179Z GOLDSTAR T402
012-102340-06	SEMI-FIXED RESISTOR EVND8AA 03B13 1KB VR401,901
012-103340-06	SEMI-FIXED RESISTOR EVND8AA 03B14 10KB VR103
012-104340-06	SEMI-FIXED RESISTOR EVND8AA 03B15 100KB VR101
012-202330-06	SEMI-FIXED RESISTOR EVND2AA 03B23 2KB VR551,552,553,554,555
012-203340-06	SEMI-FIXED RESISTOR EVND8AA 03B24 20KB VR402
012-502340-06	SEMI-FIXED RESISTOR EVND8AA 03B53 5KB VR403,601
012-503340-06	SEMI-FIXED RESISTOR EVND8AA 03B54 50KB VR102,301
101-190710-96	HORIZONTAL DRIVE TRANSFORMER RO710 T410
101-288280-95	LINE FILTER 50MH FOR 28" L901
101-514828-94	SWITCHING TRANSFORMER FOR 28" MOD T901
102-370600-02	TANK COIL / AFC COIL COILS 707851 T101,103
102-671300-02	SOUND IF COIL COILS 710256 T104
102-770310-20	CHROMA FILTER "TOMEI" 7R-92072 T305
105-100103-02	FIXED INDUCTIVE COIL 10UH +-10% AXIAL TYPE L102
105-201106-02	CHOKE COIL 200UH 10% CH9012- 201K (ELEC PRODUCT) L903,904
105-540102-35	LINEARITY COIL 54UH FOR 28" CRT L401
105-560101-02	FIXED INDUCTOR COIL 56UG +-10% CW-560K-455-705111 L551,552,553
105-689101-02	FIXED INDUCTIVE COIL 6.8UH 10% L103
105-821106-35	CHOKE COIL 820 UH L402
105-828103-02	FIXED INDUCTIVE COIL 0.82UH 10% AXIAL TYPE L101
105-829101-02	FIXED INDUCTIVE COIL 8.2UH 10% L301,302,303
106-210012-01	RELAY OMIT-SS-112LM HOSODA RLY901
107-104430-66	CHROMA TRAP CERAMIC FILTER 4.43 MHZ MURATA CF302
111-104281-2A	VARIABLE RES. W/CENTRE CHICK 100K (VA09CVI U 20TMB100K HDK) VR201
113-100105-17	CARBON FILM RESISTOR 10 OHM 1/4W +-5% R601,119
113-100205-12	CARBON FILM RESISTOR 10 OHM 1/2W +-5% R593
113-100505-75	METAL OXIDE FILM RESISTOR 10 OHM 3W +-5% R429
113-101105-17	CARBON FILM RESISTOR 100 OHM 1/4W +-5% R580,579,581,624,625,650,643,644,638,343,351,934,342, 309,317,318,319,322,613
113-101305-75	METAL OXIDE FILM RESISTOR 100 OHM 1W +-5% R130
113-102105-17	CARBON FILM RESISTOR 1K OHM 1/4W +-5% R422,922,201,619,617,607,608,618,620,621,634,637,640, 641,633,636,639,642,109,143,153,320,302,328,354,329, 331,402,107,325,330,935

COMPONENT PART	DESCRIPTION / LOCATION
113-102305-75	METAL OXIDE FILM RESISTOR 1K OHM 1W +-5% R414
113-103101-67	METAL FILM RESISTOR 10K OHM 1/4W +-1% R609
113-103105-12	CARBON FILM RESISTOR 10K OHM 1/4W +-5% R905
113-103105-17	CARBON FILM RESISTOR 10K OHM 1/4W +-5% R605,612,623,635,649,632,303,304,315,407,352, 321,339,927,437,353,364,380,335
113-104105-17	CARBON FILM RESISTOR 100K OHM 1/4W +-5% R136
113-104305-75	METAL OXIDE FILM RESISTOR 100K OHM 1W +-5% R918
113-105001-67	METAL FILM RESISTOR 1M OHM 1/16W +-1% R358
113-109305-75	METAL OXIDE FILM RESISTOR 1 OHM 1W +-5% R410
113-120305-75	METAL OXIDE FILM RESISTOR 12 OHM 1W +-5% R909
113-120405-75	METAL OXIDE FILM RESISTOR 12 OHM 2W +-5% R917
113-121105-17	CARBON FILM RESISTOR 120 OHM 1/4W +-5% R567,568,569
113-122105-17	CARBON FILM RESISTOR 1.2K OHM 1/4W +-5% R564,565,566,602,344
113-122205-12	CARBON FILM RESISTOR 1K2 OHM 1/2W +-5% R420
113-123105-17	CARBON FILM RESISTOR 12K OHM 1/4W +-5% R132,615
113-150105-17	CARBON FILM RESISTOR 15 OHM 1/4W +-5% R570,572,571
113-151205-12	CARBON FILM RESISTOR 150 OHM 1/2W +-5% R936,411
113-152105-17	CARBON FILM RESISTOR 1.5K OHM 1/4W +-5% R150,152,423
113-153105-17	CARBON FILM RESISTOR 15K OHM 1/4W +-5% R616,401
113-153405-75	METAL OXIDE FILM RESISTOR 15K OHM 2W +-5% R137
113-154105-17	CARBON FILM RESISTOR 150K OHM 1/4W +-5% R133
113-154205-12	CARBON FILM RESISTOR 150K OHM 1/2W +-5% R433
113-158405-75	METAL OXIDE FILM RESISTOR 0.15 OHM 2W +-5% R912
113-159905-51	WIRE WOUND CEMENT RESISTOR 1.5 OHM 10W +-5% R924
113-181105-17	CARBON FILM RESISTOR 180 OHM 1/4W +-5% R305,307,310,313
113-182105-17	CARBON FILM RESISTOR 1.8K OHM 1/4W +-5% R904
113-182105-17	CARBON FILM RESISTOR 1.8K OHM 1/4W +-5% R628,629,630,631,148,306,308,311,350,349
113-183105-17	CARBON FILM RESISTOR 18K OHM 1/4W +-5% R408,424,340,614,604
113-184105-17	CARBON FILM RESISTOR 180K OHM 1/4W +-5% R151,156,431
113-202605-75	METAL OXIDE FILM RESISTOR 2K OHM 5W +-5% R416
113-221105-17	CARBON FILM RESISTOR 220 OHM 1/4W +-5% R112,627,106
113-221305-75	METAL OXIDE FILM RESISTOR 220 OHM 1W +-5% R413

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COMPONENT PART	DESCRIPTION / LOCATION
113-222101-67	METAL FILM RESISTOR 2.2K OHM 1/4W +-1% R146
113-222105-17	CARBON FILM RESISTOR 2.2K OHM 1/4W +-5% R141,652,332
113-223105-17	CARBON FILM RESISTOR 22K OHM 1/4W +-5% R646,129,312,314,655,406,208,209,346,365
113-224105-17	CARBON FILM RESISTOR 220K OHM 1/4W +-5% R333,653
113-229005-17	CARBON FILM RESISTOR 2.2 OHM 1/16W +-5% R125
113-229105-17	CARBON FILM RESISTOR 2.2 OHM 1/4W +-5% R327,334
113-229205-12	CARBON FILM RESISTOR 2.2 OHM 1/2W +-5% R139
113-229505-75	METAL OXIDE FILM RESISTOR 2.2 OHM 3W +-5% R203
113-229605-51	WIRE WOUND CEMENT RESISTOR 2.2 OHM 5W +-5% R944
113-270105-17	CARBON FILM RESISTOR 27 OHM 1/4W +-5% R115
113-270405-75	METAL OXIDE FILM RESISTOR 27 OHM 2W +-5% R910
113-271105-17	CARBON FILM RESISTOR 270 OHM 1/4W +-5% R147
113-272105-17	CARBON FILM RESISTOR 2.7K OHM 1/4W +-5% R142
113-272205-17	CARBON FILM RESISTOR 2.7K OHM 1/2W +-5% R415,428
113-272210-92	CARBON COMPOSITION RESISTOR 2.7K OHM 1/2W +-10% R573,574,575
113-273105-17	CARBON FILM RESISTOR 27K OHM 1/4W +-5% R155,603
113-274105-17	CARBON FILM RESISTOR 270K OHM 1/4W +-5% R430
113-331105-17	CARBON FILM RESISTOR 330 OHM 1/4W +-5% R901
113-331105-17	CARBON FILM RESISTOR 330 OHM 1/4W +-5% R368,366,336,337,338
113-332102-17	CARBON FILM RESISTOR 3.3K OHM 1/4W +-5% R907
113-332105-17	CARBON FILM RESISTOR 3.3K OHM 1/4W +-5% R582,583,584
113-332105-17	CARBON FILM RESISTOR 3.3K OHM 1/4W +-5% R611,645,647,363,367,360,417,426
113-333105-17	CARBON FILM RESISTOR 33K OHM 1/4W +-5% R114,117,144,421
113-334001-67	METAL FILM RESISTOR 330K OHM 1/16W +-1% R138
113-334105-17	CARBON FILM RESISTOR 330K OHM 1/4W +-5% R131
113-334305-75	METAL OXIDE FILM RESISTOR 330K OHM 1W +-5% R911
113-335105-17	CARBON FILM RESISTOR 3.3M OHM 1/4W +-5% R356
113-339505-75	METAL OXIDE FILM RESISTOR 3.3 OHM 3W +-5% R576
113-390505-75	METAL OXIDE FILM RESISTOR 39 OHM 3W +-5% R926
113-390605-75	METAL OXIDE FILM RESISTOR 39 OHM 5W +-5% R913
113-391105-17	CARBON FILM RESISTOR 390 OHM 1/4W +-5% R557,559,558
113-392105-17	CARBON FILM RESISTOR 3.9K OHM 1/4W +-5% R404

COMPONENT PART	DESCRIPTION / LOCATION
113-393105-17	CARBON FILM RESISTOR 39K OHM 1/4W +-5% R316,361
113-470105-17	CARBON FILM RESISTOR 47 OHM 1/4W +-5% R204,206
113-471105-17	CARBON FILM RESISTOR 470 OHM 1/4W +-5% R412,123
113-472105-17	CARBON FILM RESISTOR 4.7K OHM 1/4W +-5% R908,149,120,158,159,427,371,205,207
113-473105-17	CARBON FILM RESISTOR 47K OHM 1/4W +-5% R622,648,651,301,341,405
113-479105-17	CARBON FILM RESISTOR 4.7 OHM 1/4W +-5% R210,211
113-511105-17	CARBON FILM RESISTOR 510 OHM 1/4W +-5% R563
113-561105-17	CARBON FILM RESISTOR 560 OHM 1/4W +-5% R347,554,556,326,555
113-562105-17	CARBON FILM RESISTOR 5.6K OHM 1/4W +-5% R403
113-562105-17	CARBON FILM RESISTOR 5.6 OHM 1/4W +-5% R105,202,357,362,324
113-563105-17	CARBON FILM RESISTOR 56K OHM 1/4W +-5% R160
113-565205-92	CARBON COMPOSITION RESISTOR 5.6M 1/2W +-5% R948,921
113-681105-17	CARBON FILM RESISTOR 680 OHM 1/4W +-5% R135,425
113-682102-17	CARBON FILM RESISTOR 6.8K OHM 1/4W +-2% R902
113-682105-17	CARBON FILM RESISTOR 6.8K OHM 1/4W +-5% R906
113-682105-17	CARBON FILM RESISTOR 6.8K OHM 1/4W +-5% R419
113-683105-17	CARBON FILM RESISTOR 68K OHM 1/4W +-5% R355
113-688305-42	FUSING RESISTOR 0.68 OHM 1W +-5% R435,434,914,916
113-750105-17	CARBON FILM RESISTOR 75 OHM 1/4W +-5% R929,930,931,932,928
113-820105-17	CARBON FILM RESISTOR 82 OHM 1/4W +-5% R418,101
113-821105-17	CARBON FILM RESISTOR 820 OHM 1/4W +-5% R126
113-822105-17	CARBON FILM RESISTOR 8.2K OHM 1/4W +-5% R923,903,626,460
133-822505-77	METAL OXIDE FILM RESISTOR 8.2 OHM 3W +-5% R551,552,553
113-823105-17	CARBON FILM RESISTOR 82K OHM 1/4W +-5% R145,432
114-210262-00	THERMISTOR PTH451C262B TH901
123-101350-60	CERAMIC CAP. 100 PF 50V +-10% (SL TYPE) C605,611,612,606,335,336
123-102350-90	CERAMIC CAP. 0.001 MFD 50V +-10% (B TYPE) C138,614,348,349,555,554,556
123-103350-90	CERAMIC CAP. 0.01 MFD 50V +-10% (B TYPE) C102,117,126,330,147,118,363,X301
123-104350-90	CERAMIC CAP. 0.1 MFD 50V +-10% (B TYPE) C623,139,306,309,307,101,568,567
123-121350-60	CERAMIC CAP. 120 PF 50V +-10% (SL TYPE) C301,302,303
123-122551-90	CERAMIC CAP. 0.0012 MFD 500V +-10% (B TYPE) MATSUSHITA C415
123-150340-60	CERAMIC CAP. 15 PF +-5% (SL TYPE) C357

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123-150340-93	CERAMIC CAP. 15 PF 50V +-5% (NPO) C374
123-151350-60	CERAMIC CAP. 150 PF 50V +-10% (SL TYPE) C137,358,359
123-152850-43	CERAMIC CAP. 0.0015 MFD 2KV (DE1410BN152K MURATA) C433
123-180340-60	CERAMIC CAP. 18PF 50V +-5% (SL TYPE) C360
123-203350-90	CERAMIC CAP. 0.02 MFD 50V +-10% (B TYPE) C109,131,124,122,128,129,135,331,332,105,344,369
123-209340-33	CERAMIC CAP. 2PF 50V +-5% (NPO) C378
123-220340-60	CERAMIC CAP. 22PF 50V +-5% (SL TYPE) C616,617,618,620
123-221350-60	CERAMIC CAP. 220PF 50V +-10% (SL TYPE) C352,353,354,365,377
123-221551-90	CERAMIC CAP. 220PF 500V +-10% MATSUSHITA C916
123-222850-10	CERAMIC CAP. 0.0022 MFD 2KV +-10% MATSUSHITA C912
123-250340-93	CERAMIC CAP. 25PF 50V +-5% (NPO) C373
123-270340-60	CERAMIC CAP. 27PF 50V +-5% (SL TYPE) C114
123-271350-60	CERAMIC CAP. 270 PF 50V +-5% (SL TYPE) C342,343
123-330340-60	CERAMIC CAP. 33 PF 50V +-5% (SL TYPE) C366
123-331350-60	CERAMIC CAP. 330 PF 50V +-5% (SL TYPE) C341
123-390340-93	CERAMIC CAP. 39 PF 50V +-5% (NPO) C360
123-391350-60	CERAMIC CAP. 390 PF 50V +-10% (SL TYPE) C367
123-471350-60	CERAMIC CAP. 470 PG 50V +-10% (SL TYPE) C553
123-472350-90	CERAMIC CAP. 0.0047 MFD 50V +-10% (B TYPE) C918,920
123-472551-90	CERAMIC CAP. 0.0047 MFD 500V +-10% (B TYPE) MATSUSHITA C432,427,914
123-472552-90	CERAMIC CAP. 0.0047 MFD 500V +-10% (B TYPE) SMALL SIZE C904,903,906
123-472850-10	CERAMIC CAP. 0.0047 MFD 2KV +-10% MATSUSHITA C569
123-561350-60	CERAMIC CAP. 560 PF 50V +-10% (SL TYPE) C552,551
123-680340-60	CERAMIC CAP. 68 PF 50V +-5% (SL TYPE) C613
123-681350-60	CERAMIC CAP. 680 PF 50V +-10% (SL TYPE) C407
123-821850-10	CERAMIC CAP. 820 PF 2KV +-10% (SL TYPE) MATSUSHITA C913
124-224061-03	TANTALIUM CAP. 0.22 MFD 35V +-10% C603,115
125-361120-11	POLYSTYRENE CAP. 360 PF 125V +-5% C149
126-102071-01	MYLAR CAP. 0.001 MFD 50V +-10% C130,402,426
126-103071-01	MYLAR CAP. 0.01 MFD 50V +-10% C413
126-103230-41	METALIZED POLYPROPYLENE CAP. 0.01 MFD 2KV +-5% C414
126-104071-01	MYLAR CAP. 0.1 MFD 50V +-10% C602,304,305,308,310,324,325,326,133,371

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126-104071-01	MYLAR CAP. 0.1 MFD 50V +-10% C409,214,216,420,347,355,356,911,333,334
126-222071-01	MYLAR CAP. 0.0022 MFD 50V +-10% C610,624
126-223071-01	MYLAR CAP. 0.022 MFD 50V +-10% C321,322,323,207,208,375,376
126-223401-31	POLYPROPYLENE CAP. 0.022 MFD 400V +-10% C431,434
126-224071-01	MYLAR CAP. 0.22 MFD 50V +-10% C140,346,327
126-272070-31	POLYPROPYLENE CAP. 0.0027 MFD 50V +-5% C141
126-274201-31	POLYPROPYLENE CAP. 0.27 MFD 200V +-10% C412
126-332161-41	METALIZED POLYPROPYLENE CAP. 0.033 MFD 1600V +-10% C430
126-330071-01	MYLAR CAP. 0.033 MFD 50V +-10% C907
126-334071-01	MYLAR CAP. 0.33 MFD 50V +-10% C143,145,368,372
126-472071-01	MYLAR CAP. 0.047 MFD 50V +-10% C403,405,370
126-473071-01	MYLAR CAP. 0.047 MFD 50V +-10% C134
126-473211-41	METALLIZED POLYPROPYLENE CAP 0.047 MFD 250V +-10% VDE C902
126-474211-41	METALLIZED POLYPROPYLENE CAP 0.47 MFD 250V +-10% VDE C901
126-683701-01	MYLAR CAP. 0.068 MFD 50V +-10% C423
127-105071-05	ELECT. CAP. 1 MFD 50V +-10% (TIME CONSTANT) C404
127-105072-03	ELECT. CAP. 1 MFD 50V +-20% C107,142,350,132
127-105132-03	ELECT. CAP. 1 MFD 160V +-20% C425
127-106042-03	ELECT. CAP. 10 MFD 16V +-20% C202,627,621,601,615,619,626,622,116,351
127-106042-03	ELECT. CAP. 10 MFD 16V +-20% C203,312,328,329,316,317,315,314,318,338,340
127-106072-03	ELECT. CAP. 10 MFD 50V +-20% C908,566,909
127-107042-03	ELECT. CAP. 100 MFD 16V +-20% C125,119,625,209,210,311,364
127-107062-03	ELECT. CAP. 100 MFD 35V +-20% C408,418
127-107132-03	ELECT. CAP. 100 MFD 160V +-20% C417,927
127-108042-03	ELECT. CAP. 1000 MFD 16V +-20% C213,215
127-108052-03	ELECT. CAP. 1000 MFD 25V +-20% C217,201,429,925
127-225072-03	ELECT. CAP. 2.2 MFD 50V +-20% C106,111
127-226042-03	ELECT. CAP. 22 MFD 16V +-20% C609
127-226132-03	ELECT. CAP. 22 MFD 160V +-20% C926
127-227042-03	ELECT. CAP. 220 MFD 16V +-20% C320,121,205
127-227062-03	ELECT. CAP. 220 MFD 35V +-20% C923,410

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COMPONENT PART	DESCRIPTION / LOCATION
127-227402-03	ELECT. CAP. 220 MFD 400V +-20% (022MM-26MM) C905
127-228052-03	ELECT. CAP. 2200 MFD 25V +-20% C428
127-335042-03	ELECT. CAP. 3.3 MFD 16V +-20% C127
127-336042-03	ELECT. CAP. 33 MFD 16V +-20% C144,921
127-336252-03	ELECT. CAP. 33 MFD 250V +-20% C424
127-338062-03	ELECT. CAP. 3300 MFD 35V +-20% C411
127-475052-03	ELECT. CAP. 4.7 MFD 25V +-20% C607,608,604,136,337,211,212
127-475102-23	ELECT. CAP. BIPOLAR 4.7 MFD 100V +-20% C419
127-476042-03	ELECT. CAP. 47 MFD 16V +-20% C401,204,206,345
127-476052-03	ELECT. CAP. 47 MFD 25V +-20% C910
127-476072-03	ELECT. CAP. 47 MFD 50V +-20% C422
127-477042-03	ELECT. CAP. 470 MFD 16V +-20% C146,922,120,313,919,416,421
127-478052-03	ELECT. CAP. 4700 MFD 25V +-20% C406
130-134148-01	SILICON DIODE IN4148 D301,302,303,604,305,908,602,601, 605,606,607,608,609,610,603,304
130-240809-50	VARIABLE CAPACITANCE DIODE BB809 D102,101
130-310341-00	RECTIFIER DIODE 3TH41 TOSHIBA D402
130-310345-00	RECTIFIER DIODE 3JH45 TOSHIBA D403,906
130-310406-00	BRIDGE RECTIFIER RBV-406 SANKEN BR901
130-311545-60	RECTIFIER DIODE 1R5JH45 D404,907
130-314001-00	RECTIFIER DIODE 1N4001 D406
130-315295-00	RECTIFIER DIODE S5295G TOSHIBA D902,901,401,405,408,407,905
130-410051-01	ZENER DIODE 5.1V 1/2W +-5% ZD102
130-410056-01	ZENER DIODE 5.6V ZD306
130-410082-01	ZENER DIODE 8.2V ZD903
130-410100-01	ZENER DIODE 10V 1/2W ZD401
130-410574-00	ZENER DIODE UPC 574J NEC OR KA33V SAMSUNG ZD101
130-411091-01	ZENER DIODE 9.1V ZD904
130-422120-00	ZENER DIODE 1W 12V ZD402
131-210564-18	TRANSISTOR 2SA564AQ Q404
131-220774-20	TRANSISTOR 2SB774 MATSYSHITA Q911
131-230388-00	TRANSISTOR 2SC388A TOSHIBA Q105

COMPONENT PART	DESCRIPTION / LOCATION
131-231815-25	TRANSISTOR 2SC1815 TOSHIBA Q912,910,602,302,301,554,555,556
131-231815-25	TRANSISTOR 2SC1815 TOSHIBA Q603,604,605,106,109,304,403,303,308
131-232230-00	TRANSISTOR 2SC2230A-Y TOSHIBA Q905
131-232482-00	TRANSISTOR 2SC2482 TOSHIBA Q401
131-233619-00	TRANSISTOR 2SC3619 Q551,552,503
131-241266-00	TRANSISTOR 2SD1266Q MATSUSHITA Q201
131-241266-15	TRANSISTOR 2SD1266AQ Q405
131-241403-00	TRANSISTOR 2SD1403 W/MICA SHEET SANYO Q909
131-241547-00	TRANSISTOR 2SD1547 TOSHIBA Q402
131-462369-00	TRANSISTOR PH2369 PHILIPS Q601
133-102421-31	I.C. ST24C022AB1 SGS IC602
133-103504-33	I.C. TDA3504 PHILIPS IC304
133-103857-33	I.C. TDA3857 PHILIPS IC101
133-104565-33	I.C. TDA4565 PHILIPS IC305
133-104650-33	I.C. TDA 4650 PHILIPS IC307
133-104661-33	I.C. TDA 4661 PHILIPS IC IC306
133-108305-33	I.C. TDA8305A PHILIPS IC102
133-108628-14	I.C. TA8628N TOSHIBA IC303
133-186640-33	PHILIPS IC PCA 84C640P IC601
133-203654-33	I.C. TDA3654 (PHILIPS) IC401
133-204445-16	I.C. LA445 SANYO IC201
133-207805-31	I.C. L7805CV SGS IC901
133-207812-31	I.C. L7812CV SGS-THOMSON IC103
133-304241-33	I.C. PC74HCT241P PHILIPS IC301
133-305114-31	I.C. TEA5114A SGS IC302
136-500337-00	REMOTE RECEIVER (KODENSHI HC-337M) OPT601
137-100000-31	CRYSTAL 10 MHZ HOORAY X601
137-886723-20	CRYSTAL 8.86 MHZ KDS X302
144-061425-18	POWER SWITCH PREH TV5 S612
146-100002-13	TACT SWITCH KSM0634A 2602,603,604,605,601,606,608,609
146-104016-13	TACT SWITCH 31TM116A UNITRONIC S610,613,611,614
160-101001-08	PIN CONNECTOR 1 PIN PLUG STRAIGHT FOR CN501,901,902

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160-102255-27	PIN CONNECTOR 2 PIN PLUG STRAIGHT (UL) CN601,201
160-102805-08	PIN CONNECTOR 2 PIN PLUG STRAIGHT CN903
160-103255-27	PIN CONNECTOR 3 PIN PLUG CN304,202
160-103805-08	PIN CONNECTOR 3 PIN PLUG STRAIGHT CN402,904
160-104805-08	PIN CONNECTOR 4 PIN PLUG STRAIGHT CN401
160-105255-27	PIN CONNECTOR 5 PINS WAFER CN307
161-540004-01	CRT SOCKET ISH-01 IN CHANG CRT SOCKET
172-120032-10	UL 1007 STANDARD WIRE AWG20 BLACK 320MM 10 X 10MM MAIN P.C.B. 'V' TO 'V', 'W' TO 'W'
172-620005-10	UL 1007 TOP COAT WIRE AWG 20 50MM BLACK 5 X 5MM FOR IC401 JUMPER 'M' TO R410 GND
172-620010-10	UL 1007 TOP COAT WIRE AWG 20 100MM BLACK 10 X 10MM MAIN P.C.B. 'Q' TO 'Q'
172-620014-13	UL 1007 TOP COAT WIRE AWG #20 140MM ORANGE 10 X 10MM MAIN P.C.B. 'J' TO 'J'
172-626008-10	UL 1007 TOP COAT WIRE AWG #26 80MM BLACK 10 X 10MM IC401 LUG TO MAIN P.C.B. 'M', 'H' TO 'H'
172-626008-10	UL 1007 TOP COAT WIRE #26 80MM BLACK 10 X 10MM Q909 LUG TO POWER PCB 'Z', Q402 LUG TO MAIN PCB 'K'
172-626014-12	UL 1007 TOP COAT WIRE #26 140MM RED 10 X 10MM MAIN P.C.B. 'O' TO 'O'
172-626016-13	UL 1007 TOP COAT WIRE #26 160MM ORANGE 10 X 10MM MAIN P.C.B. 'F' TO 'F'
172-626022-15	UL 1007 TOP COAT WIRE #26 220MM PINK 10 X 10MM MAIN P.C.B. 'N' TO 'N'
172-626024-11	UL 1007 TOP COAT WIRE #26 240MM BROWN 10 X 10MM MAIN P.C.B. 'P' TO 'P', 'I' TO 'I'
172-726000-99	BARE WIRE 54MM W001-119,121-133,135-136,138-141,501,502
174-833026-50	DOUBLE SHIELD WIRE UL 2547 AWG28 260MM BLACK MAIN P.C.B. 'A.B' TO 'A.B'
177-655053-02	2 PIN FLAT CABLE WIRE AWG 26 50MM MAIN P.C.B. 'C.D.' TO 'C.D.'
179-001010-00	OIL SLEEVING 1MM DIA. 40MM FOR R346,20MM FOR ZD402,20MM FOR D906
179-001010-00	OIL SLEEVING 1 MM DIA. 20MM FOR D402, 20MM FOR D403
179-403030-00	3MM DIA. SHRINKABLE TUBE FOR 130MM SOLDERING LUG, 70MM FOR AC LINE CORD
182-224000-03	FUSE T4A 250V F901
184-350606-08	AXIAL LEAD BEAD INDUCTORS FBA04HA450NA-00 (STRA. FORMAT) FB401,402
190-882800-07	POWER P.C.B. (061092)
190-882803-00	CRT P.C.B. (280593)
190-882804-01	MAIN P.C.B. (040693)
191-101000-07	1 PIN DOUBLE INSULATION WIRE L=560MM FROM POWER SWITCH '2' TO CN901 ON POWER P.C.B.
191-101001-07	1 PIN DOUBLE INSULATION WIRE L=600MM FROM POWER SWITCH '1' TO CN902 ON POWER P.C.B.
191-200031-09	2 PIN SOCKET ASS'Y L=80MM FOR CN601 TO POWER SWITCH P.C.B.
191-301003-07	3 PINS SOCKET ASS'Y L=450MM CN402 '1' TO CRT P.C.B. 'J'
191-301003-07	3 PINS SOCKET ASS'Y L=450MM CN402 '2' TO CRT P.C.B. 'I'

COMPONENT PART	DESCRIPTION / LOCATION
191-301003-07	3 PINS SOCKET ASS'Y L=450MM CN402 '3' TO CRT P.C.B. 'H'
191-301006-07	3 PINS SOCKET ASS'Y L=200MM CN904 '1' TO POWER P.C.B. '1', '2' TO '2', '3' TO '4'
191-501003-07	5 PINS SOCKET ASS'Y L=540MM CN307 '1' TO CRT BOARD '1', '2' TO '2', '3' TO '3'
191-501003-07	5 PINS SOCKET ASS'Y L=540MM '4' TO '4', '5' TO '5'
504-305006-10	MACHINE SCREW 3 X 6 B/M 2-POWER SWITCH MTG., 2-IC201, 1-IC901, 1-IC103
504-407010-10	MACHINE SCREW 4 X 10 B/M 2 FOR 781-882806-00 TO 781-882802-01
514-400412-10	SELF-TAPPING SCREW 4 X 12 B/T (HARDEN) FOR HEAT SINK (A) TO FBT
515-303310-10	SELF-TAPPING SCREW 3 X 10 W/P/A (HARDEN) FOR Q405
515-303408-10	SELF-TAPPING SCREW 3 X 18 W/B/T (HARDEN) FOR P/N: 781-882807-00 TO 781-882804-02
515-303410-10	SELF-TAPPING SCREW 3 X 10 W/B/T (HARDEN) FOR Q909
517-303312-10	SELF-TAPPING SCREW 3 X 12 W/A W/H=7MM (HARDEN) 2 FOR IC401, 1 FOR Q401, 1 FOR BR901
580-101261-01	CABLE TIE L=100MM C-CN402, 2-CN307, 8-DEGAUSSING COIL, 2 FOR CN401
580-101261-01	CABLE TIE L=100MM 1 FOR FBT, 1 FOR AC LINE CORD
630-114520-00	FIBRE WASHER FOR P/N: 001-228079-05
746-063101-00	TEST PIN: TOTAL LENGTH 18.6MM THK:0.8MM TP104,103
750-063101-00	SOLDERING LUG FOR IC401, Q402, Q904
750-063102-01	35MM SOLDERING LUG FOR AC LINE CORD, SPK. CONNECTOR
766-686801-00	FUSE HOLDER F901
779-932501-00	IRON HEAT SINK FOR IC901, IC103
780-882001-01	BRASS HEAT SINK FOR IC201
781-882801-01	ALUMINIUM HEAT SINK (A) FOR Q402
781-882802-01	ALUMINIUM HEAT SINK (B) FOR IC401
781-882804-02	ALUMINIUM HEAT SINK (POWER) FOR Q909, BR901
781-882805-00	ALUMINIUM HEAT SINK FOR Q405
781-882806-00	ALUMINIUM HEAT SINK FOR 781-882802-01
781-882807-00	ALUMINIUM HEAT SINK FOR 781-882804-02
783-881305-00	SHIELD CAN COVER
783-881313-00	SHIELD CAN
ASSMEBLY:	158-882886-51-01 NON-COM PART CHASSIS ASS'Y (NICAM & TXT)
003-113100-06	TUNER UC4901-BC WITTIS TUNER
105-102106-02	CHOKE COIL 1MH L005,006
105-150101-02	FIXED INDUCTIVE COIL 15UH 10% L104
107-106000-66	SOUND TRAP CERAMIC FILTER 6.0 MHZ TPS-6.0 MB MURATA CF103

For Service Manuals Contact
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COMPONENT PART	DESCRIPTION / LOCATION
107-306000-16	SOUND BYPASS CERAMIC FILTER 6.0MHZ SFE-6.0MB MURATA CF102
107-406552-03	LC FILTER BPF TH317BPOS-3324PAN TOKO CF001
107-732900-00	SAW FILTER 32.9 MHZ TSB5303 SANYO SA102
107-739500-00	SAW FILTER 39.5 MHZ TSF5305 SANYO SA101
113-101105-17	CARBON FILM RESISTOR 100 OHM 1/4W +-5% R035
113-101105-17	CARBON FILM RESISTOR 100 OHM 1/4W +-5% R077,078
113-10205-17	CARBON FILM RESISTOR 1K OHM 1/4W +-5% R054,060,064,066
113-103105-17	CARBON FILM RESISTOR 10K OHM 1/4W +-5% R034,042,068,079,083,157
113-104105-07	CARBON FILM RESISTOR 100K OHM 1/4W +-5% R030,043,051,061,063,086,087
113-105105-17	CARBON FILM RESISTOR 1M OHM 1/4W +-5% R055
113-122105-17	CARBON FILM RESISTOR 1.2K OHM 1/4W +-5% R072,074
113-150105-17	CARBON FILM RESISTOR 15 OHM 1/4W +-5% R033
113-150105-17	CARBON FILM RESISTOR 15 OHM 1/4W +-5% R102
113-153105-17	CARBON FILM RESISTOR 15K OHM 1/4W +-5% R116,610
113-154105-17	CARBON FILM RESISTOR 150K OHM 1/4W +-5% R058,062
113-222105-17	CARBON FILM RESISTOR 2.2K OHM 1/4W +-5% R052
113-223101-67	METAL FILM RESISTOR 22K OHM 1/4W +-1% R606
113-223105-17	CARBON FILM RESISTOR 22K OHM 1/4W +-5% R038,040,071,073,049
113-271105-17	CARBON FILM RESISTOR 270 OHM 1/4W +-5% R053
113-273105-17	CARBON FILM RESISTOR 27K OHM 1/4W +-5% R050
113-332105-17	CARBON FILM RESISTOR 3.3K OHM 1/4W +-5% R031,032
113-333105-17	CARBON FILM RESISTOR 33K OHM 1/4W +-5% R041
113-392105-17	CARBON FILM RESISTOR 3.9K OHM 1/4W +-5% R037
113-470305-75	METAL OXIDE FILM RESISTOR 47 OHM 1W +-5% R069
113-471105-17	CARBON FILM RESISTOR 470 OHM 1/4W +-5% R048,076
113-472105-17	CARBON FILM RESISTOR 4.7K OHM 1/4W +-5% R036,039,056,057,345,348
113-473105-17	CARBON FILM RESISTOR 47K OHM 1/4W +-5% R084,085
113-479605-77	METAL OXIDE FILM RESISTOR 4.7 OHM 5W +-5% R436
113-560105-17	CARBON FILM RESISTOR 56 OHM 1/4W +-5% R065
113-561105-17	CARBON FILM RESISTOR 560 OHM 1/4W +-5% R122
113-562105-17	CARBON FILM RESISTOR 5.6K OHM 1/4W +-5% R045,046,067,070,075
113-563105-17	CARBON FILM RESISTOR 56K OHM 1/4W +-5% R044,059

COMPONENT PART	DESCRIPTION / LOCATION
113-822105-17	CARBON FILM RESISTOR 8.2K OHM 1/4W +-5% R047,082
113-823105-17	CARBON FILM RESISTOR 82K OHM 1/4W +-5% R081
113-824105-17	CARBON FILM RESISTOR 820K OHM 1/4W +-5% R080
123-102350-90	CERAMIC CAP. 0.001 MFD 50V +-10% (B TYPE) C037,058,059
123-102466-41	CERAMIC CAP. 0.001 MFD 400V +-20% ECK-DNS102MBX MATSUSHITA C917
123-103350-90	CERAMIC CAP. 0.01 MFD 50V +-10% (B TYPE) C040,044,051,063,071,075,078,080,339,319,103,R375
123-104350-90	CERAMIC CAP. 0.1 MFD 50V +-10% (B TYPE) C030,052,069
123-121350-60	CERAMIC CAP. 120 PF 50V +-0% (SL TYPE) C082
123-151350-60	CERAMIC CAP. 150 PF 50V +-10% (SL TYPE) C049,054,060
123-181350-60	CERAMIC CAP. 180 PF 50V +-10% (SL TYPE) C031,034
123-203350-90	0.02 MFD 50V +-10% (B TYPE) C038,045,064
123-330340-60	CERAMIC CAP. 33PF 50V +-5% (SL TYPE) C032,033
123-331350-60	CERAMIC CAP. 330 PF 50V +-10% (SL TYPE) C035
123-681350-60	CERAMIC CAP. 680 PF 50V +-10% (SL TYPE) C043,066
125-361120-11	POLYSTYRENE CAP. 360 PF 125V +-5% C149
126-154071-01	MYLAR CAP. 0.15 MFD 50V +-10% C053
126-222071-01	MYLAR CAP. 0.0022 MFD 50V +-10% C148
126-223071-01	MYLAR CAP. 0.022 MFD 50V +-10% C056,062
126-224071-01	MYLAR CAP. 0.22 MFD 50V +-10% C039,050,081
126-333071-01	MYLAR CAP. 0.033 MFD 50V +-10% C055,061
126-562071-01	MYLAR CAP. 0.0056 MFD 50V +-10% C048,065
126-682071-01	MYLAR CAP. 0.0068 MFD 50V +-10% C036
127-106042-03	ELECT. CAP. 10 MFD 16V +-20% C042,046,047,067,072,073,076
127-107042-03	ELECT. CAP. 100 MFD 16V +-20% C041,074
127-255042-23	ELECT. CAP. BIPOLAR 2.2 MFD 16V +-20% C057,068
127-476042-03	ELECT. CAP. 47 MFD 16V +-20% C079
127-477072-03	ELECT. CAP. 470 MFD 16V +-20% C070
130-134148-01	SILICON DIODE IN4148 D003,004,005,007,006
130-240405-50	SILICON VARIABLE CAPACITANCE DIODE BB405 D001
130-240809-50	VARIABLE CAPACITANCE DIODE BB809 D002
130-410051-01	ZENER DIODE 5.1V 1/2W +-5% ZD001
130-512044-00	LED 3MM RED 204HDC LED601,602,603

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COMPONENT PART	DESCRIPTION / LOCATION
131-230388-00	TRANSISTOR 2SC388A TOSHIBA Q001,003,004
131-231815-25	TRANSISTOR 2SC1815 TOSHIBA Q005,006,007,008,009,010,002
133-101543-33	I.C. TDA1543 PHILIPS IC009
133-105532-33	I.C. NE5532N PHILIPS IC007,008
133-107280-33	I.C. SAA7280 PHILIPS IC010
133-108732-33	I.C. TDA8732 PHILIPS IC006
133-304052-14	I.C. TC4052BP TOSHIBA IC005
137-131040-30	CRYSTAL 13.104 MHZ X001
137-174720-30	CRYSTAL 17.472 MHZ X002
160-103255-27	PIN CONNECTOR 3 PIN PLUG CN002,003,004,304,305,306
160-104255-27	PIN CONNECTOR 4 PIN PLUG CN001,303,603
161-683702-22	21 PIN SOCKET J901
161-852302-07	13 AMP BS AC PLUG WITH 5A FUSE COLOUR "BLACK"
171-400100-02	100" BS6500 AC LINE CORD BOTH END STRIPPED AND TINNED
172-626006-19	UL 1007 TOP COAT WIRE #26 60MM WHITE 10 X 10MM MAIN P.C.B. 'TP105' TO 'E'
172-626010-16	UL 1007 TOP COAT WIRE #26 100MM BLUE 10 X 10MM NICAM P.C.B. 'A1' TO 'A1'
172-726000-99	BARE WIRE 54MM W142,201-209
190-882000-10	P.C. BOARD LED (160492)
190-882800-09	NICAM P.C.B. (231192)
191-301204-07	3 PIN SOCKET ASS'Y CN004 '1' TO CN306 '1', '2' TO '2', '3' TO '3'
191-301205-07	3 PINS SOCKET ASS'Y L=100MM CN002 '1' TO CN304 '1', '2' TO '2', '3' TO '3'
191-301206-07	3 PINS SOCKET ASS'Y L=140MM CN003 '1' TO CN305 '1', '2' TO '2', '3' TO '3'
191-401001-07	4 PIN SOCKET ASS'Y L=160MM CN603 '1' TO LED PCB '1', '2' TO '2', '3' TO '3', '4' TO '4'
191-401201-07	4 PIN SOCKET ASS'Y L=160MM CN303 '1' TO CN001 '1', '2' TO '2', '3' TO '3', '4' TO '4'
630-115512-00	FIBER WASHER 11 X 5.5 X 1.2 MM FOR NICAM BOARD
783-882801-00	NICAM BOARD SHIELD PLATE
929-882101-00	LED HOLDER BKT FOR LED 601,602,603
938-882001-00	SECAM BOARD HOLDER FOR NICAM BOARD
ASSEMBLY: 008-800281-06	159-882886-51-00 COMMON PART FOR CASING ASS'Y (PAL/I) DEGAUSSING COIL 80T (W/FIVE LAYERS OF TAPE) L903
166-265027-48	SPEAKER 4 X 2-3/4" 16 OHM 5W C1073 OFC
172-830120-99	FLAT BRAIDED WIRE CRT GROUND
179-105000-00	UL PVC TUBE 5MM DIA 500MM FOR LEFT SPK., 700MM FOR RIGHT SPK.
191-101007-07	1 PIN SOCKET ASS'Y L=350MM FOR CN501 TO CRT GND
191-201004-07	2 PINS SOCKET ASS'Y L=500MM CN202 '2' TO LEFT SPK. '+', '3' TO LEFT SPK. '-'
191-201006-07	2 PINS SOCKET ASS'Y L=700MM CN201 '1' TO RIGHT SPK. '+', '2' TO RIGHT SPK. '-'
509-305010-00	MACHINE SCREW 3 X 10 KM BLACK JACK PLATE MTG

COMPONENT PART	DESCRIPTION / LOCATION5
14-400425-10	SELF-TAPPING SCREW 4 X 25 B/T (HARDEN) 20 FOR CRT MTG., 11 FOR CAB. MTG.
515-303408-10	SELF-TAPPING SCREW 3 X 8 W/B/T (HARDEN) 8 FOR SPAKER MTG., 5 FOR POWER BOARD MTG.
515-303410-10	SELF-TAPPING SCREW 3 X 10 W/B/T (HARDEN) 12 FOR M.PCB, 2 FOR PUSH BUTTON, 1 FOR GEAR HOLDER
515-303410-10	SELF-TAPPING SCREW 3 X 10 W/B/T (HARDEN) 2 FOR SPEAKER WIRE, 1 FOR POWER BOARD MTG.
580-101261-01	CABLE TIE L=100MM FOR SPK. CN201, CN202
622-882801-00	FELT ONE SIDE W/TAPE (120 X 10 X 0.5T) FRONT CAB.
703-882801-01	SPEAKER GRILLE (LEFT) BLACK SPRAY ONE SIDE
703-882802-01	SPEAKER GRILLE (RIGHT) BLACK SPRAY ONE SIDE
788-882801-0	CRT MTG. BRACKET W/NUT CRT MTG.
744-881301-00	SPRING FOR C.R.T. MOUNTING 5.2 X 42 X 0.6MM
748-206515-00	WASHER FOR CRT MTG.
777-892001-00	SPRING IN 07.0X L22 FOR POWER KNOB
834-230801-00	RUBBER WASHER OD=23, ID=8, T=1 2 FOR CRT MTG. (DOWN)
834-230802-00	RUBBER WASHER OD=23, ID=8, T=2 2 FOR CRT MTG. (UP 2 PCS. DOWN 2 PCS.)
920-882802-01	MTG. BRACKET
948-882001-01	DEGAUSSING COIL MTG. CLIP FOR CRT MTG. (RIGHT DOWN CORNER)
948-882003-00	DOOR LOCKER FRONT CAB
954-882100-00	AC LINE CORD CLIP
954-882801-00	STUD POST FRONT CAB.
954-882802-00	HIGH VOLTAGE SPACER FOR CRT
977-882801-01	PUSH BUTTON – BLACK MOULDED
988-033801-00	GEAR (BLACK MOULDED)
989-882801-00	GEAR HOLDER
ASSEMBLY:	159-882886-51-01 NON-COMMON PART FOR CASING ASS'Y
191-401005-07	4 PIN SOCKET ASS'Y L=450MM FOR CRT
840-051030-11	RUBBER PAD (ONE SIDE W/TAPE) FOR CRT MTG.
884-882020-01	JACK COVER-W/WHITE SS. W/O A/VIN HOLE W/21 PIN SOCKET HOLE FOR JACK PLATE
884-882807-01	PRESET PLATE – BLACK W/L.GREY S.S ENG STD (13 KEY HOLES)
917-882801-00	REMOTE LENS – MOULDED T.RED W/O ANY S.S.
919-882801-00	PRESET DOOR – BLACK W/O ANY S.S.
980-882006-01	JACK PLATE W/BRASS INSERT (521-882001-00 2 PCS./SET)
991-882801-01	POWER KNOB – BLACK MOULDED
ASSEMBLY:	160-000100-60-01 NON-COM S. TELETXT (ENG) ASS'Y (W.EUROPE)
105-399101-02	FIXED INDUCTIVE COIL 3.9 UH 10% L801
113-100105-17	CARBON FILM RESISTOR 10 OHM 1/4W +-5% R803
113-101105-17	CARBON FILM RESISTOR 100 OHM 1/4W +-5% R804,805,806,808,801,802
113-102105-17	CARBON FILM RESISTOR 1K OHM 1/4W +-5% R807,820
113-182105-17	CARBON FILM RESISTOR 1.8K OHM 1/4W +-5% R816,817,814,815
113-273105-17	CARBON FILM RESISTOR 27K OHM 1/4W +-5% R810
113-332105-17	CARBON FILM RESISTOR 3.3K OHM 1/4W +-5% R822,809
113-391105-17	CARBON FILM RESISTOR 390 OHM 1/4W +-5% R821
123-100340-60	CERAMIC CAP. 10PF +-5% 50V (SL TYPE) C802
123-102350-90	CERAMIC CAP. 0.001 MFD 50V +-10% (B TYPE) C801
123-104270-90	CERAMIC CAP. 0.1 MFD 25V +-80-20% C803,807,810,817
123-150340-93	CERAMIC CAP. 15 PF 50V +-5% (NPO) C808

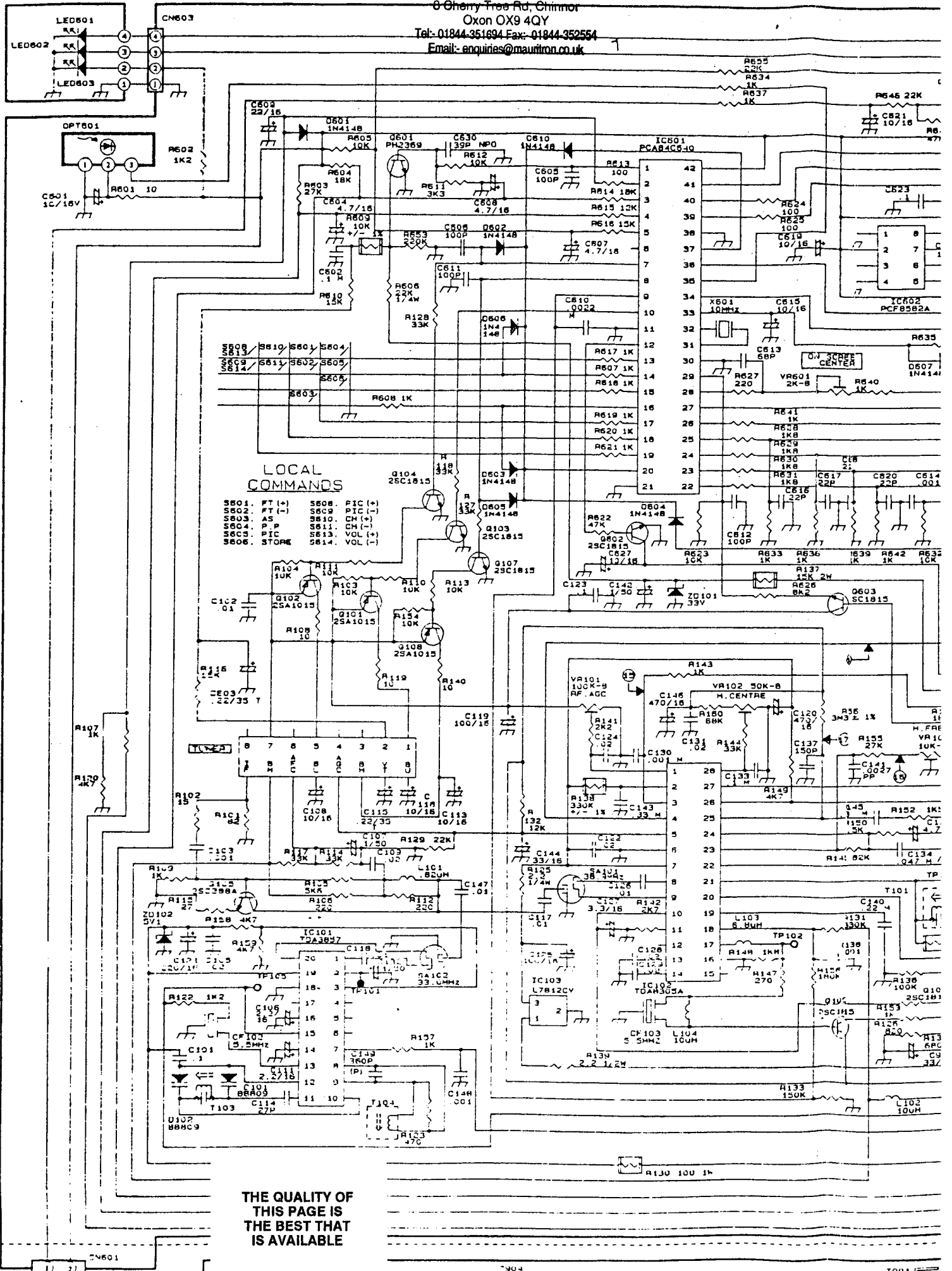
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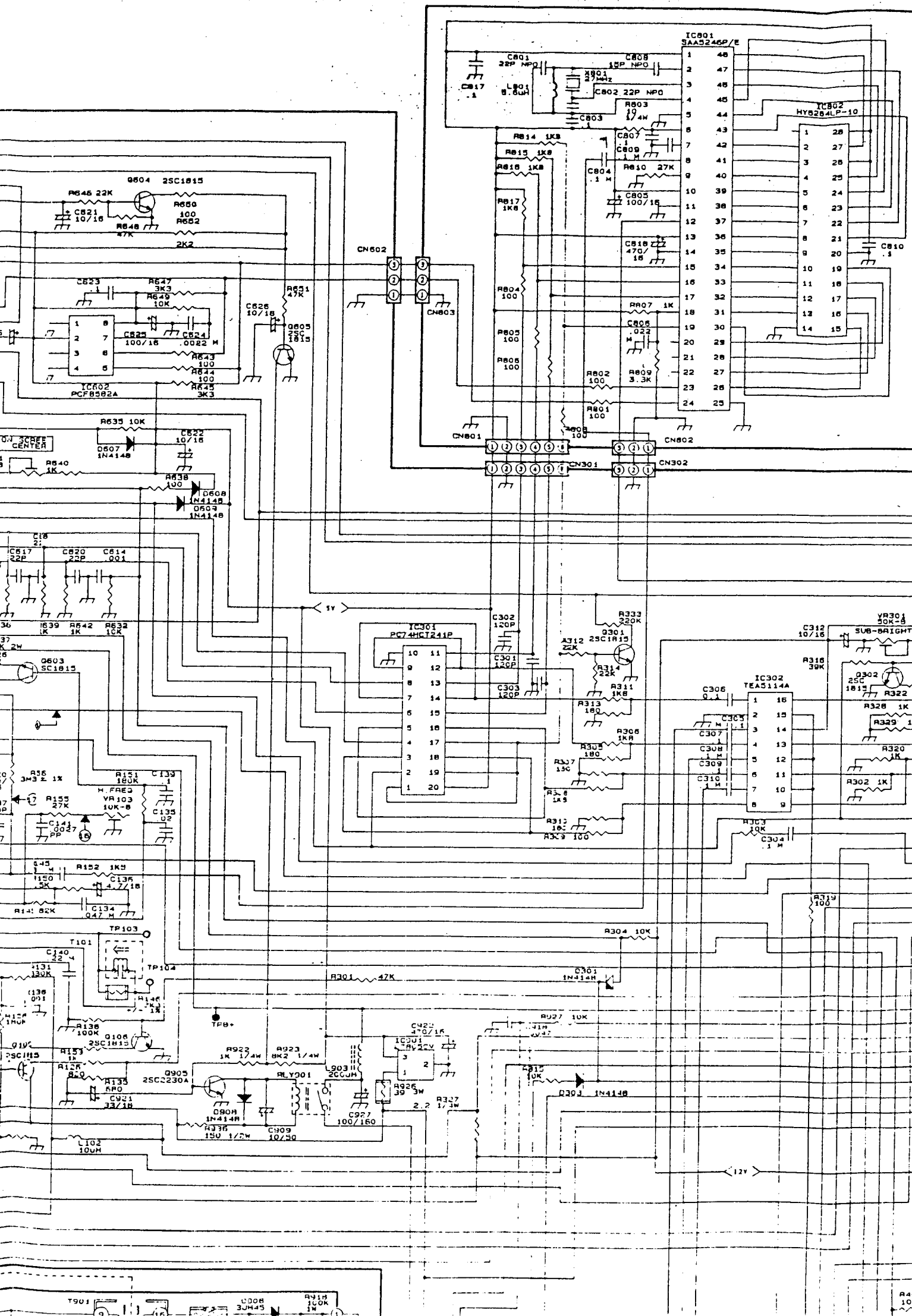
COMPONENT PART	DESCRIPTION / LOCATION
126-104071-01	MYLAR CAP. 0.1 MFD 50V +-10% C804,809
126-223071-01	MYLAR CAP. 0.022MFD 50V +-10% C806
127-107042-03	ELECT. CAP. 100 MFD 16V +-20% C805
127-477042-03	ELECT. CAP. 470 MFD 16V +-20% C818
133-135246-33	I.C. SAA5246AP/E PHILIPS (M6) IC801
133-306264-00	I.C. HY6264LP-10 HYUNDAI IC802
137-270000-30	CRYSTAL 27 MHZ NDK X801
160-103255-27	PIN CONNECTOR 3 PIN PLUG CN802,803,602,302,
160-106255-27	PIN CONNECTOR 6 PINS WAFER (SHS) S11-W CN801,301
172-726000-99	BARE WIRE 54MM W807-809,812-816,818-820
190-882000-05	TELETEXT P.C.B. (311291)
191-301202-07	3 PIN SOCKET ASS'Y CN602 TO CN803
191-301203-07	3 PIN SOCKET ASS'Y CN302 TO CN802
191-601201-00	6 PIN SOCKET ASS'Y CN301 TO CN801
514-303408-10	SELF-TAPPING SCREW 3 X 8 B/T (HARDEN) FOR TELETEXT BOARD MTG.
ASSEMBLY:	163-882886-51-01 NON-COMMON PART FOR PACKING ASS'Y (PAL/I)
608-5142-5-00	WOOD PALLET 51" X 42" X 5" (SKD) FOR MAIN CHASSIS PACKING
617-013002-00	BROWN BOX – INSIDE SIZE 174MM X 136MM X 114MM FOR WASHER
617-017102-02	BROWN BOX – INSIDE SIZE 281 X 150 X 420MM FOR REMOTE HANDSET
617-018002-00	BROWN BOX – INSIDE SIZE 103MM X 201MM X 140MM FOR FELT, BARE WIRE & CRT GROUNDING ASS'Y
617-024002-02	BROWN BOX – INSIDE SIZE 300MM X 240MM X 400MM FOR STUD POST
617-090002-00	BROWN BOX – INSIDE SIZE 502MM X 250MM X 108MM FOR PRESET PLATE
617-141002-00	BROWN BOX – INSIDE SIZE 512MM X 402MM X 203MM (9MM THK) FOR DEGAUSSING COIL 60T (W/FIVE LAYERS OF TAPE)
617-170322-01	BROWN BOX – INSIDE SIZE 727MM X 623MM X 373MM FOR PRESET DOOR
617-171002-00	BROWN BOX – INSIDE SIZE 80MM X 105MM 104MM FOR GEAR
617-172002-00	BROWN BOX – INSIDE SIZE 145MM X 264MM X 272MM FOR GEAR HOLDER
617-173122-01	BROWN BOX – INSIDE SIZE 530MM X 168MM X 450MM FOR REMOTE LENS
617-174002-00	BROWN BOX – INSIDE SIZE 174MM X 90MM X 80MM FOR SPRINGS AND BAND SWITCH FELT
617-176002-00	BROWN BOX – INSIDE SIZE 477MM X 477MM X 130MM FOR POWER KNOB
617-177002-00	BROWN BOX – INSIDE SIZE 330MM X 125MM X 165MM FOR PUSH BUTTON
617-178002-00	BROWN BOX – INSIDE SIZE 145MM X 264MM X 272MM FOR ADAPTOR (FOR CRT MTG.)
617-179002-00	BROWN BOX – INSIDE SIZE 160MM X 280MM X 360MM FOR OTHER PARTS
617-180002-00	BROWN BOX – INSIDE SIZE 468MM X 162MM X 340MM FOR HIGH VOLTAGE SPACER
617-181002-00	BROWN BOX – INSIDE SIZE 200MM X 162MM X 200MM FOR AC LINE CORD
617-187002-00	BROWN BOX – INSIDE SIZE 228MM X 272MM X 130MM FOR SCREWS
618-881302-00	CARTON PAD (SKD) 50" X 42" 1/4" FOR MAIN CHASSIS PACKING
618-881305-00	CARTON PAD-SIZE 297MM X 148MM X 9MM THK. FOR P/N: 617-017102-02
618-882802-00	CARTON PAD SIZE 560MM X 286MM X 9MM THK. FOR MAIN CHASSIS PACKING
618-88280A-00	CARTON TRAY – INSIDE SIZE 1196MM X 970MM X 1035MM FOR MAIN CHASSIS PACKING
618-88280B-00	CARTON TRAY – INSIDE SIZE 1196MM X 970MM X 864MM FOR MAIN CHASSIS PACKING
618-882-821-00	CARTON PAD – SIZE 502MM X 166MM X 6MM THK. FOR P/N: 617-170162-01
678-881-301-08	SYSTEL LABEL – PAL I
800-88280A-00	POLYFOAM BAR FOR MAIN CHASSIS PACKING
800-88280B-00	POLYFOAM BAR FOR MAIN CHASSIS PACKING
800-88280C-00	POLYFOAM BAR FOR MAIN CHASSIS PACKING

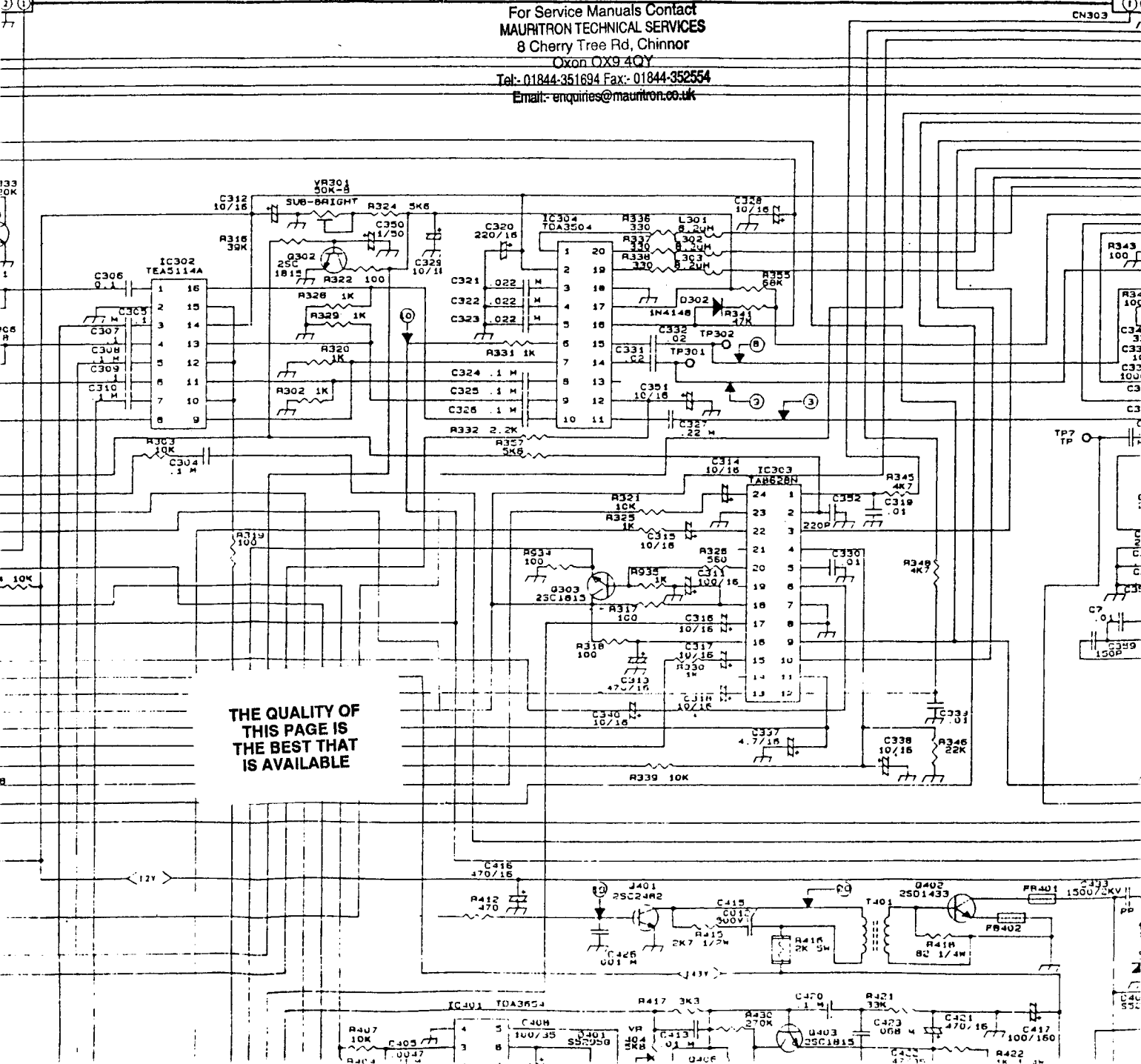
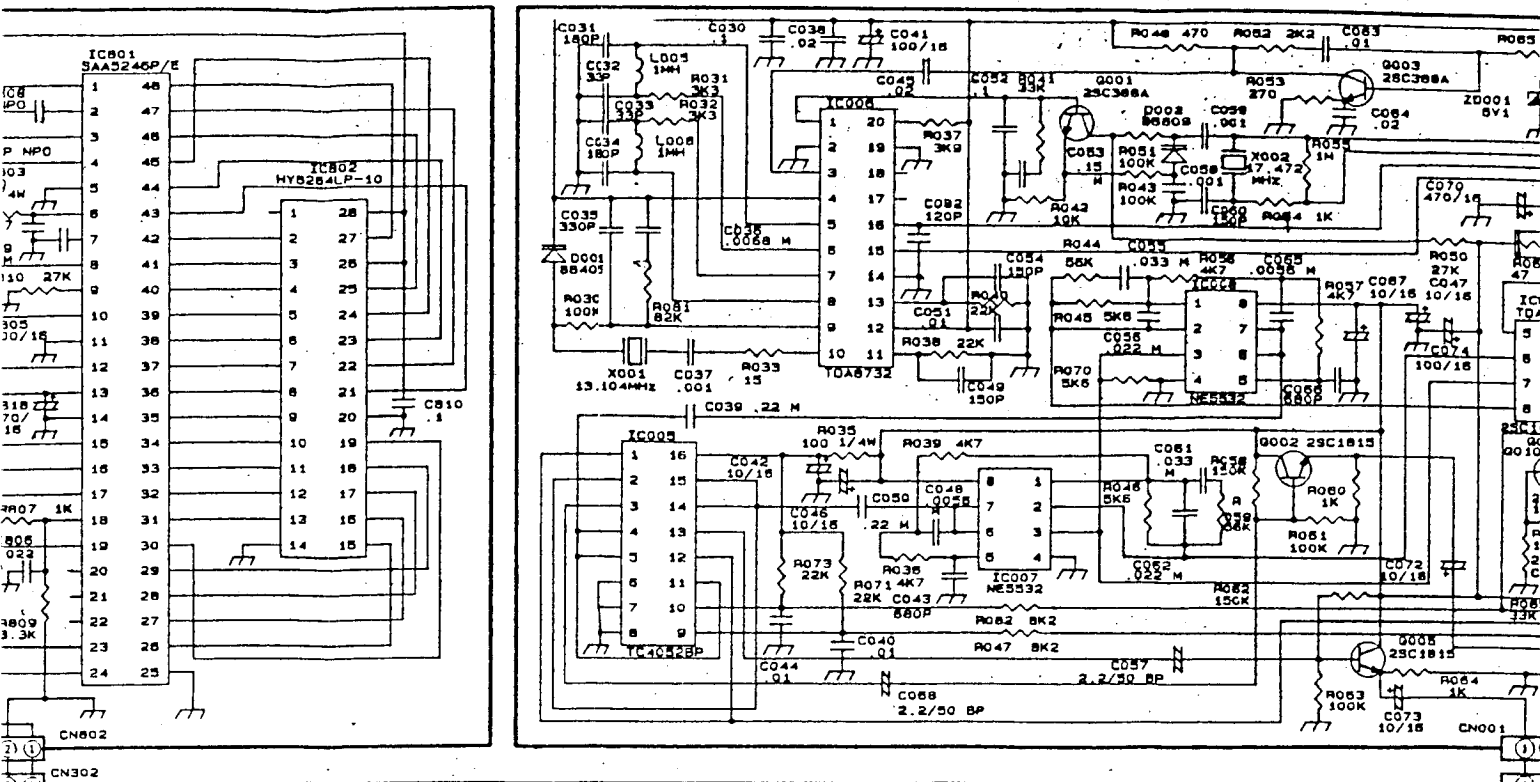
COMPONENT PART	DESCRIPTION / LOCATION
800-882801-00	POLYFOAM BAR FOR MAIN CHASSIS PACKING
810-100412-00	POLYBAG 10" X 4" X 0.12MM FOR POWER KNOB
810-161212-00	POLYBAG 16" X 12" X 0.12MM FOR WASHER
810-161212-00	POLYBAG 16" X 12" X 0.12MM FOR CABLE TIE
810-161212-00	POLYBAG 16" X 12" X 0.12MM FOR PVC WASHER
810-161212-00	POLYBAG 16" X 12" X 0.12MM FOR 35MM SOLDERING LUG
810-161212-00	POLYBAG 16" X 12" X 0.12MM FOR SELF-TAPPING SCREW 3 X 8 W/B/T (HARDEN)
810-161212-00	POLYBAG 16" X 12" X 0.12MM FOR SELF-TAPPING SCREW 3 X 10 W/B/T (HARDEN)
810-161212-00	POLYBAG 16" X 12" X 0.12MM FOR MACHINE SCREW 3 X 10 KM BLACK
810-161212-00	POLYBAG 16" X 12" X 0.12MM FOR SPRING (FOR CRT MOUNTING 5.2 X 42 X 0.6MM)
810-161212-00	POLYBAG 16" X 12" X 0.12MM FOR SPRING IN 10 X L12
810-161212-00	POLYBAG 16" X 12" X 0.12MM FOR BAND SWITCH FELT
810-212212-00	POLYBAG 21" X 22" X 0.12MM FOR RUBBER WASHER OD=23, ID=8, T=1
810-212212-00	POLYBAG 21" X 22" X 0.12MM FOR RUBBER WASHER OD=23, ID=8, T=1
810-212212-00	POLYBAG 21" X 22" X 0.12MM FOR PUSH BUTTON
810-212212-00	POLYBAG 21" X 22" X 0.12MM FOR SELF-TAPPING SCREW 4 X 25 B/T (HARDEN)
810-212212-00	POLYBAG 21" X 22" X 0.12MM FOR GEAR HOLDER
810-212212-00	POLYBAG 21" X 22" X 0.12MM FOR FOR GEAR
810-212212-00	POLYBAG 21" X 22" X 0.12MM FOR MAIN CHASSIS PACKING
812-040902-00	BUBBLE BAG (SKD) 4" X 9" X 2MM FOR REMOTE HANDSET
812-060607-00	BUBBLE BAG 6" X 6" X 7MM BIG BUBBLE IN SINGLE PLY (SKD) FOR MAIN CHASSIS PACKING

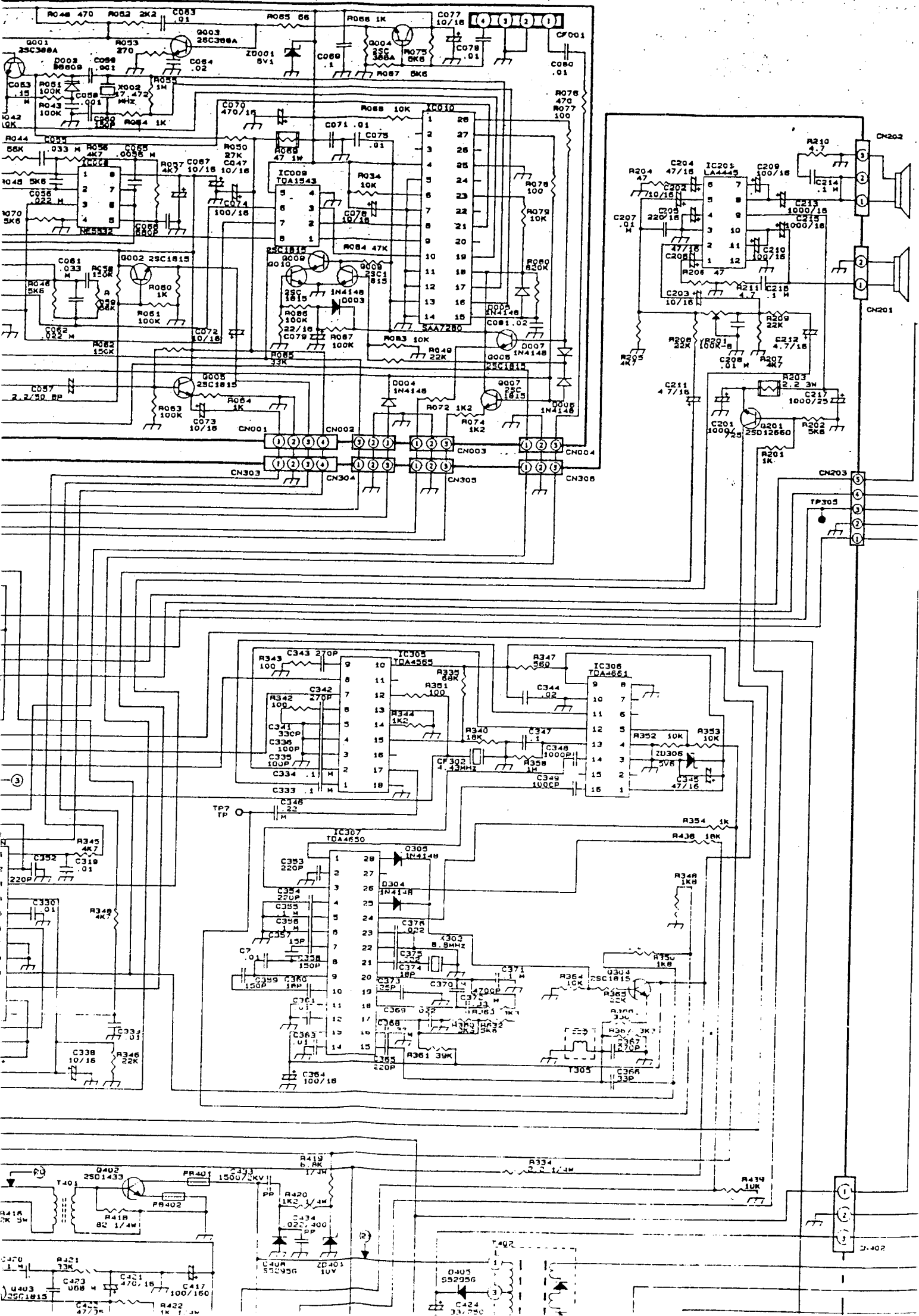
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

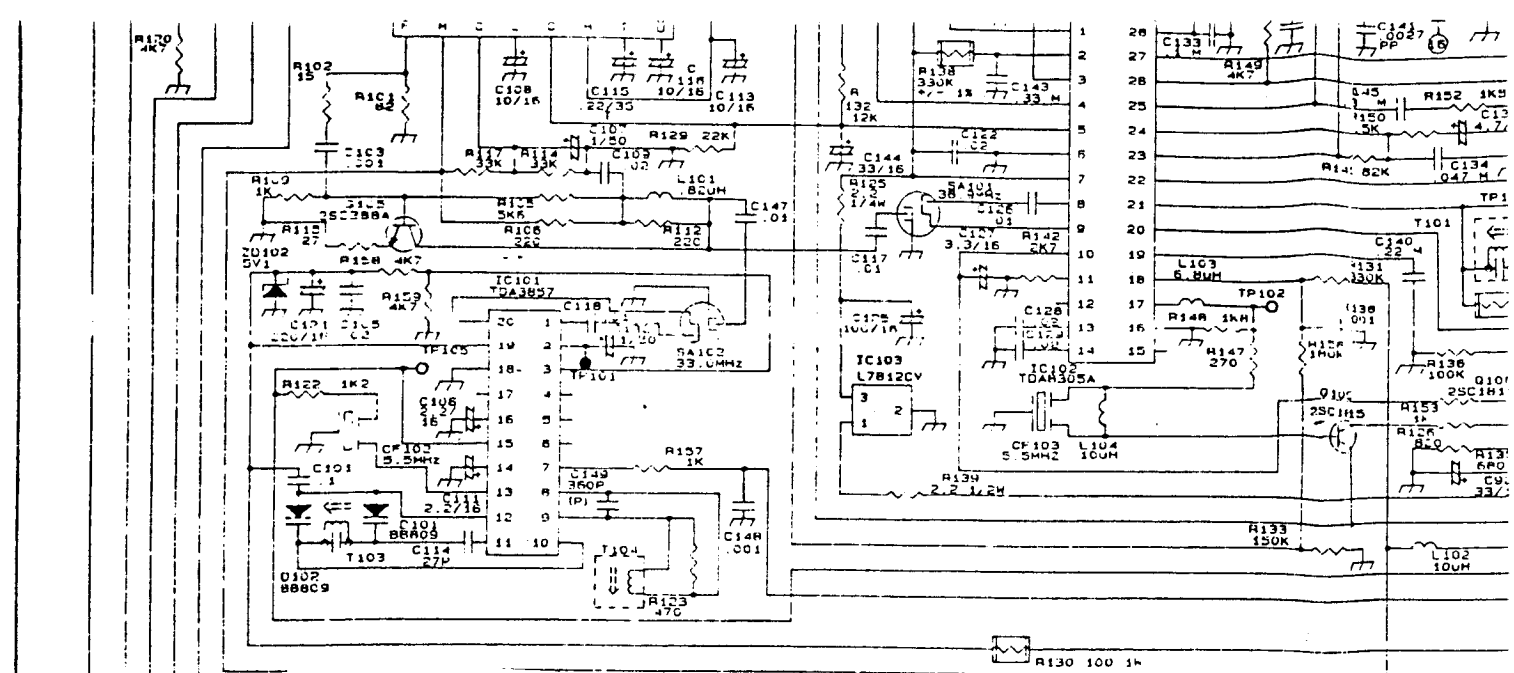
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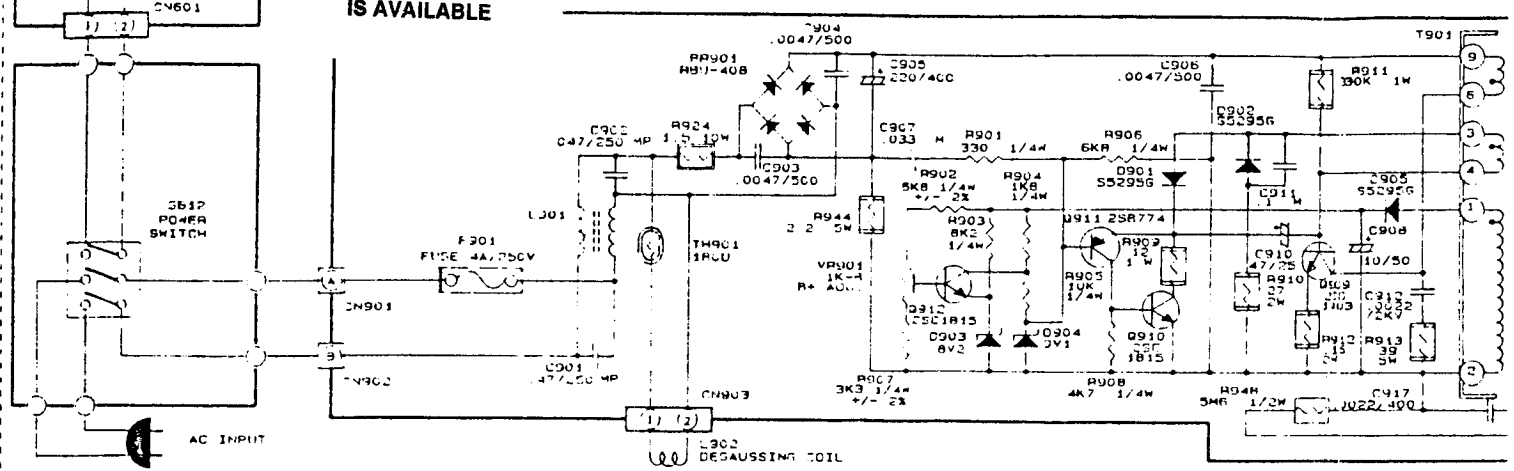




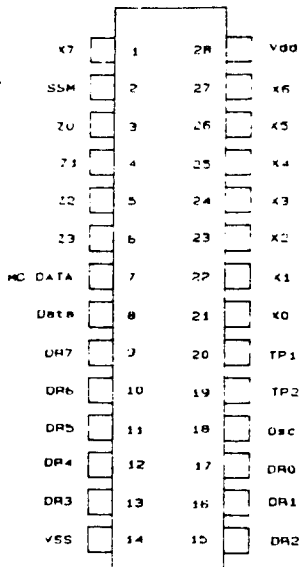




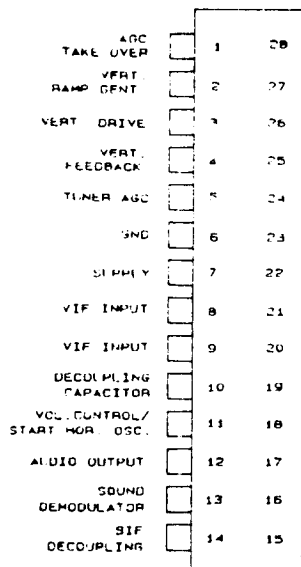
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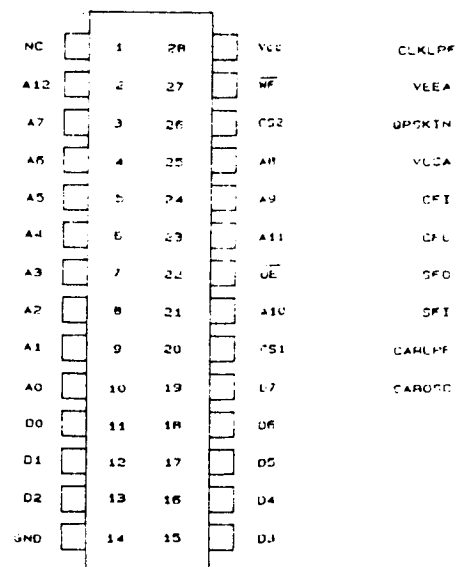
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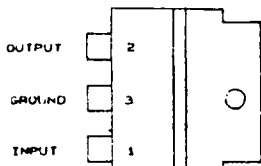
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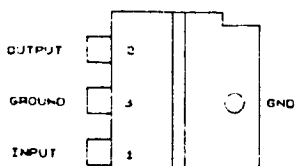
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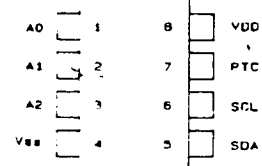
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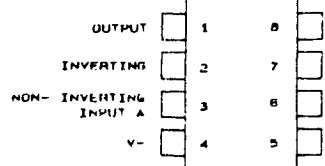
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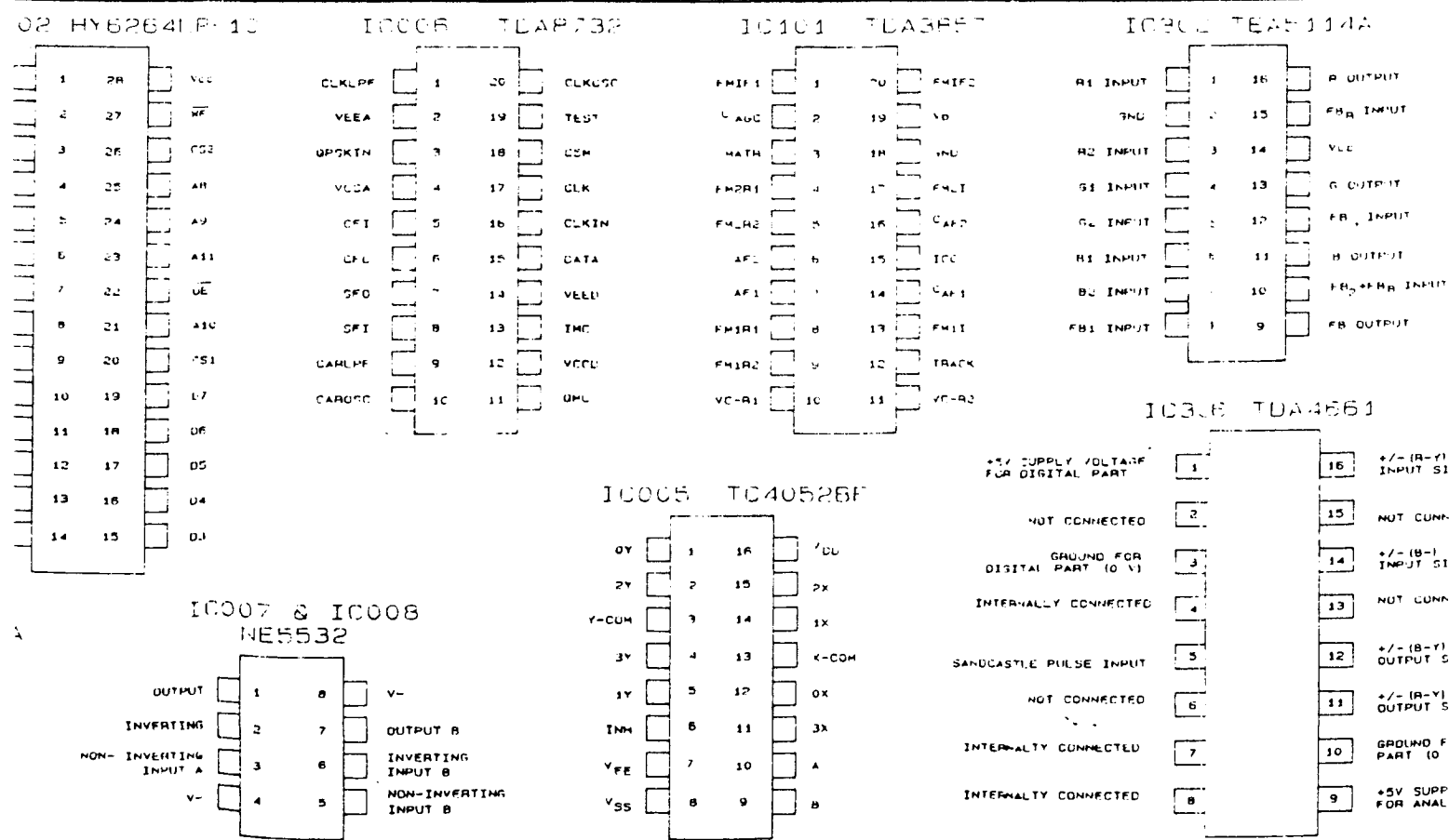
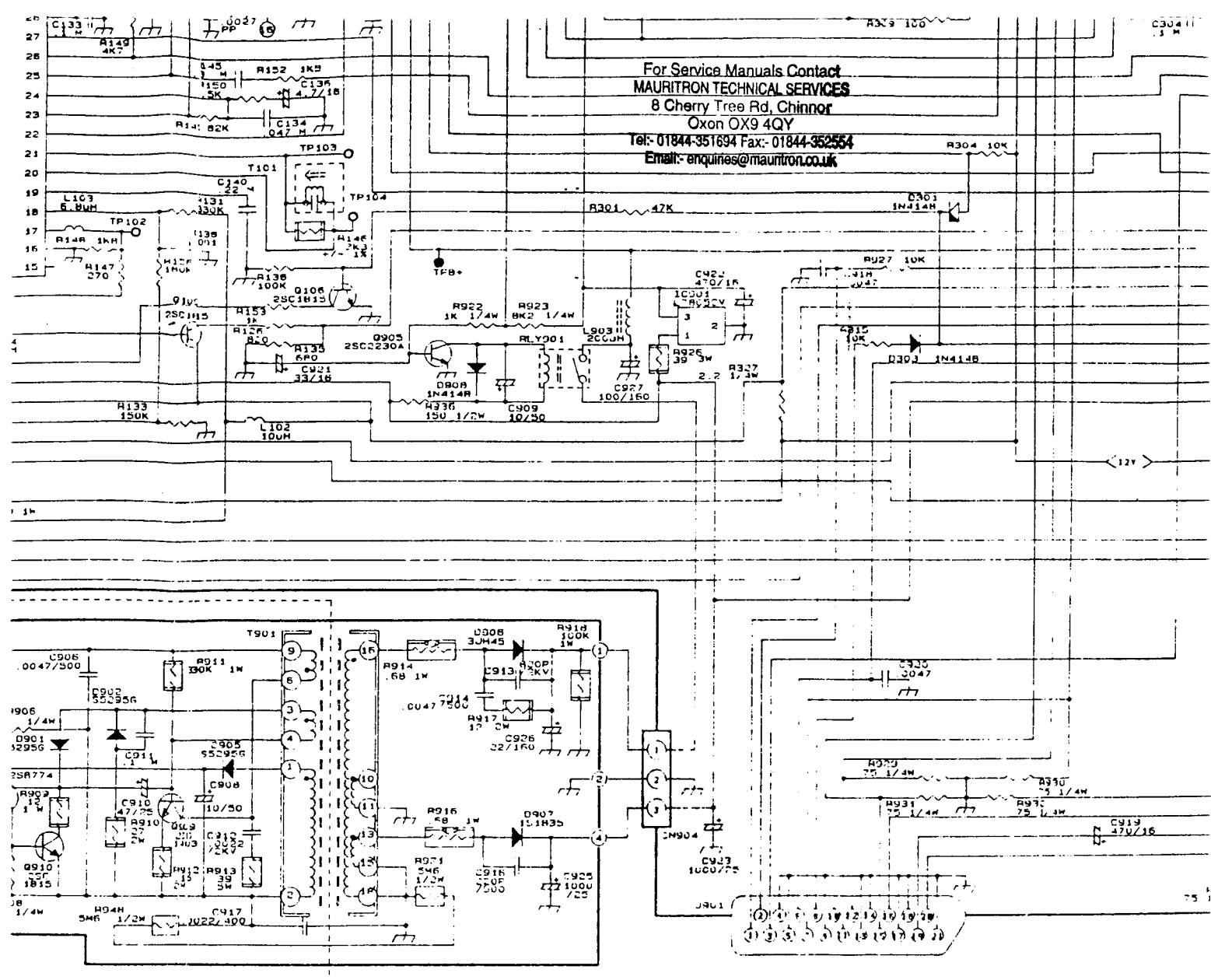
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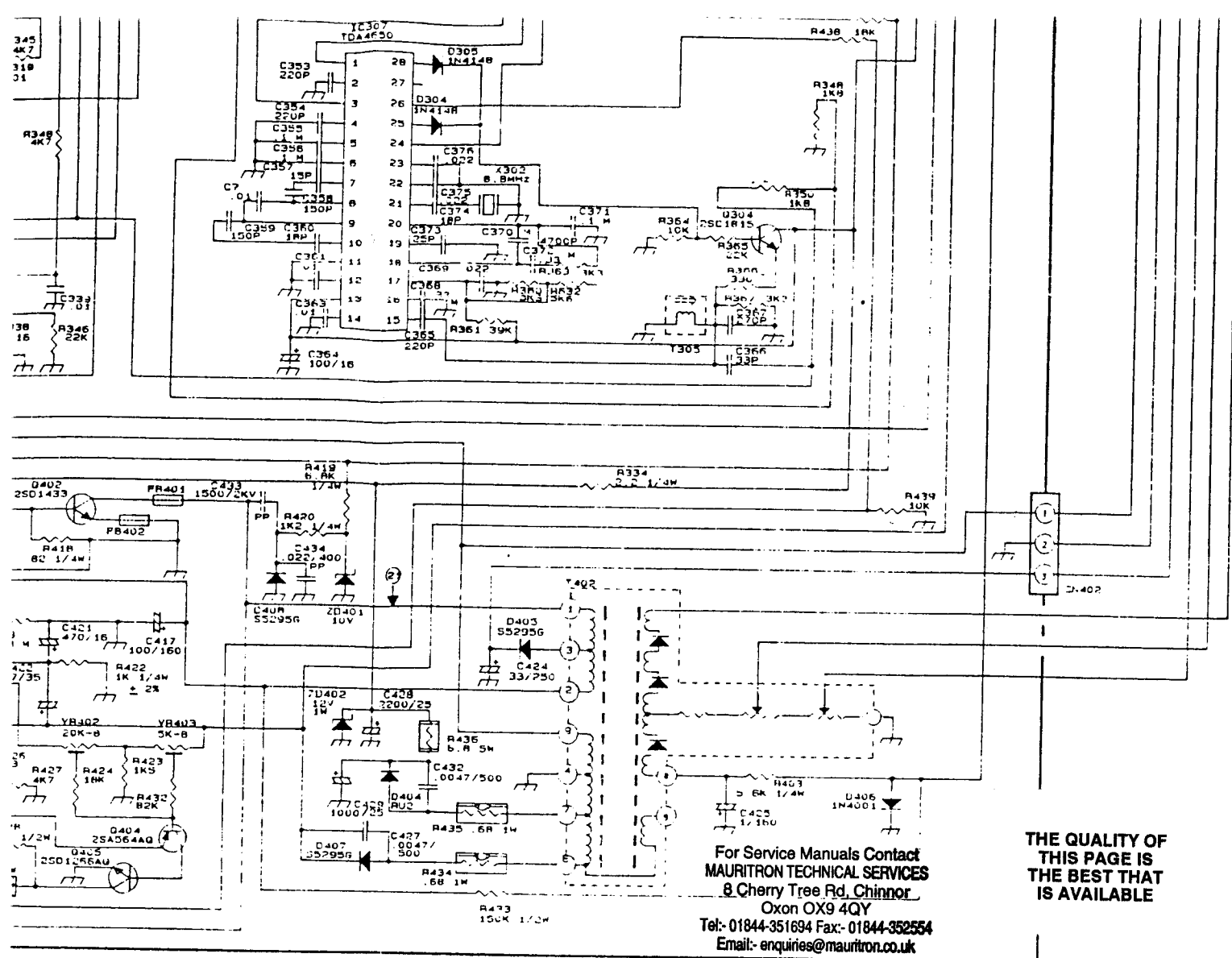


IC007 & IC008 NE5532



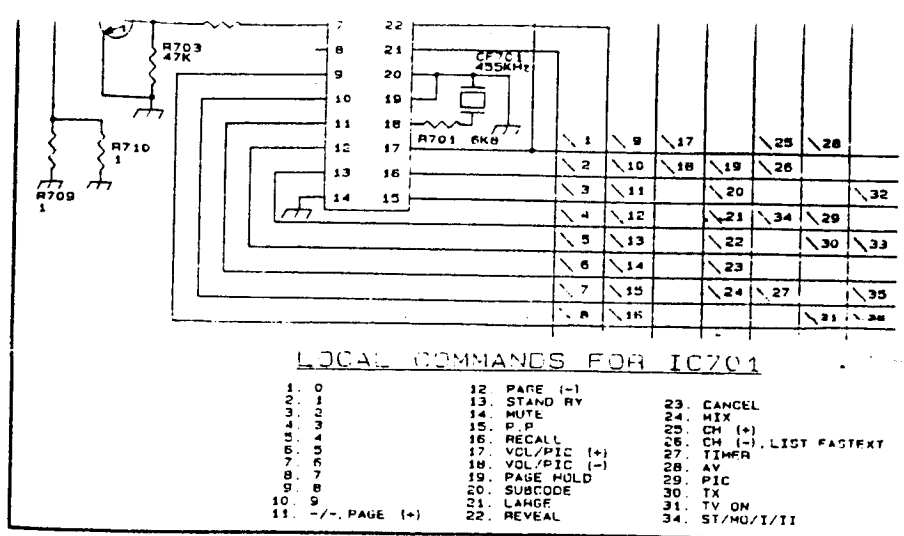
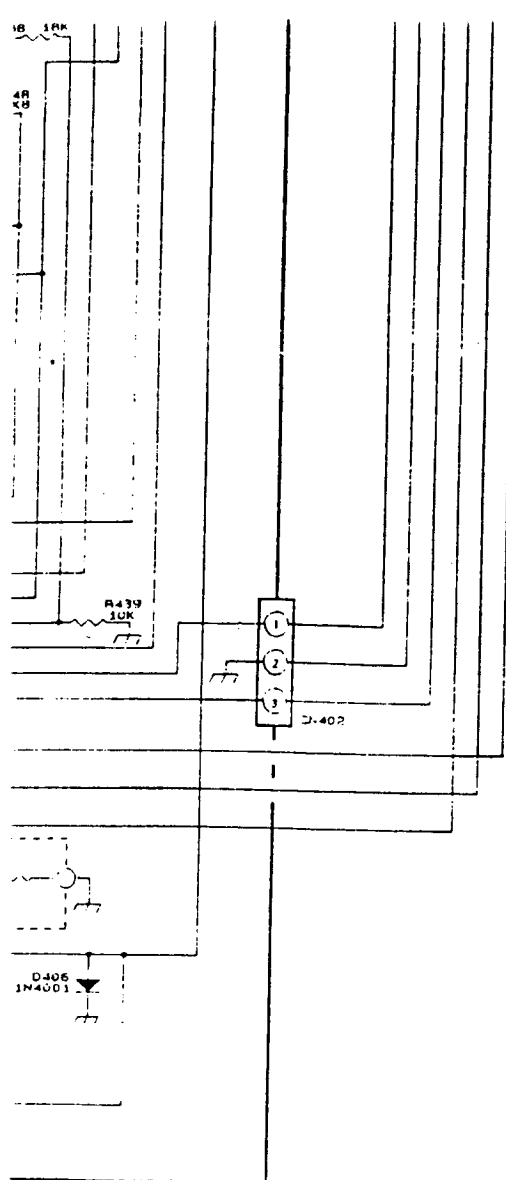
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NOTE:

- (1) ALL CAPACITORS ARE IN μF UNLESS OTHERWISE NOTE
ALL CAPACITORS ARE 50V UNLESS OTHERWISE NOTED
- (2) CAPACITORS NOT SPECIFICALLY DESIGNATED ARE CERAMIC CAPACITOR
ELECTROLYTIC CAPACITOR
BP BI-POLAR ELECTROLYTIC CAPACITOR
T TANTALUM CAPACITOR
M MYLAR CAPACITOR
MP METALLIZED POLYESTER
P POLYESTER FILM CAPACITOR
PP POLYPROPYLENE CAPACITOR
- (3) ALL RESISTORS ARE IN OHM $1/16 W$ UNLESS OTHERWISE NOTED.
- (4) RESISTORS NOT SPECIFICALLY DESIGNATED ARE CARBON FILM RESISTORS
CARBON COMPOSITION RESISTOR
METAL OXIDE RESISTOR
CEMENT RESISTOR
FUSIBLE RESISTOR
THERMISTOR
- (5) DC VOLTAGE ARE MEASURED FROM POINTS INDICATED TO THE CIRCUIT GROUND WITH A DIGITAL MULTIMETER TEST.
- (6) WAVEFORMS ARE TAKEN WITH SETTING CONTROLS TO A NORMAL CONDITIONS (COLOUR BAR PATTERN).
- (7) THIS CIRCUIT DIAGRAM IS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE
- (8) ON THE SCHEMATIC SHOULD BE REPLACED WITH EXACT MANUFACTURER RECOMMENDED PARTS

