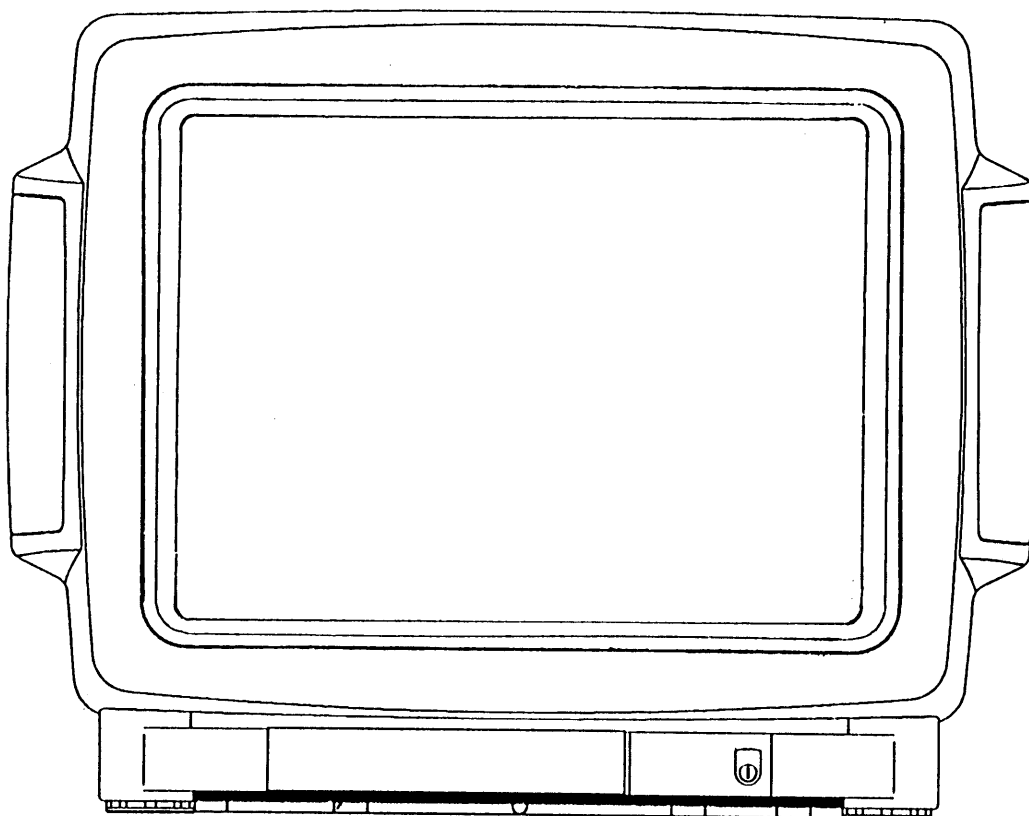


SERVICE MANUAL

SOLID STATE
21" COLOR TELEVISION
RECEIVER



MODEL : **CT- M510**

PAL-BG +FASTEXT

SPECIFICATION

SYSTEM	:	PAL- B/G	
		----- TV SECTION -----	
CHANNEL COVERAGE VHF LOW	:	2-4	CH.
		VHF HIGH	: 5-12 CH.
		UHF	: 21-69 CH.
FREQUENCY RANGE VHF LOW	:	47-68	MHz
		VHF HIGH	: 174-230 MHz
		UHF	: 470-862 MHz
VISION/SOUND SEPARATION	:	5.5	MHz
FREQUENCY VIDEO IF	:	38.9	MHz
		SOUND IF	: 33.4 MHz
VIDEO SENSITIVITY	:	45	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	:	2000	mW
		10% THD	: 1500 mW
SCREEN SIZE	:	21"	DIAGONAL, 90 DEGREES DEFLECTION ANGLE
SCREEN TYPE	:	4"	16OHM 3W x 2
ANTENNA 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 c917 (+) and Ground.
- (iv) Connect sweep generator to tuner test point and Ground.

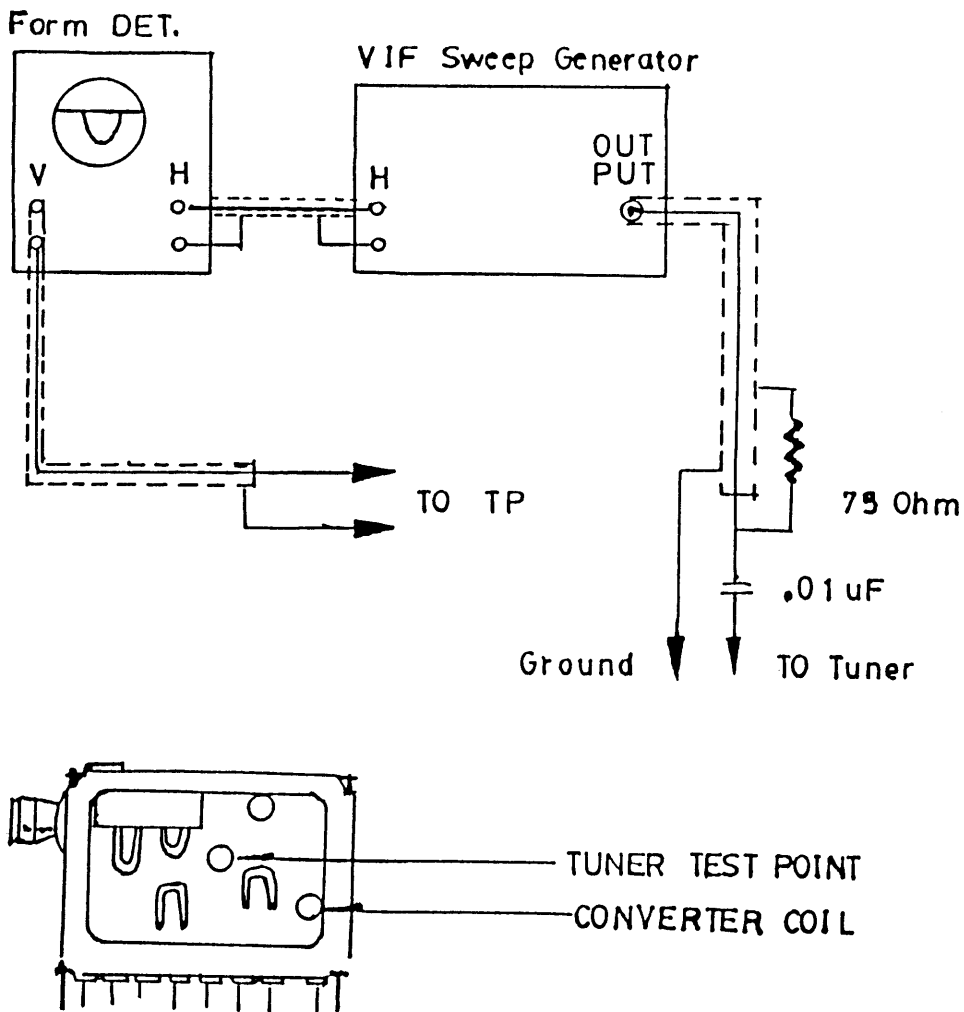


Fig.1

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

- (i) Calibrate the Division of waveform Detector equal to 1V per div.
- (ii) The output of sweep generator should be -50dB.
- (iii) Connect the waveform detector between TP106 and ground.
- (iv) Connect a 47K Resistor between pin 7 to pin 22 at IC102.
- (v) Connect a 4K7 Resistor between pin 23 to Ground at IC102.
- (vi) Adjust AGC bias until the waveform just saturate.
- (vii) Adjust T101 to obtain the waveform as Fig.2.

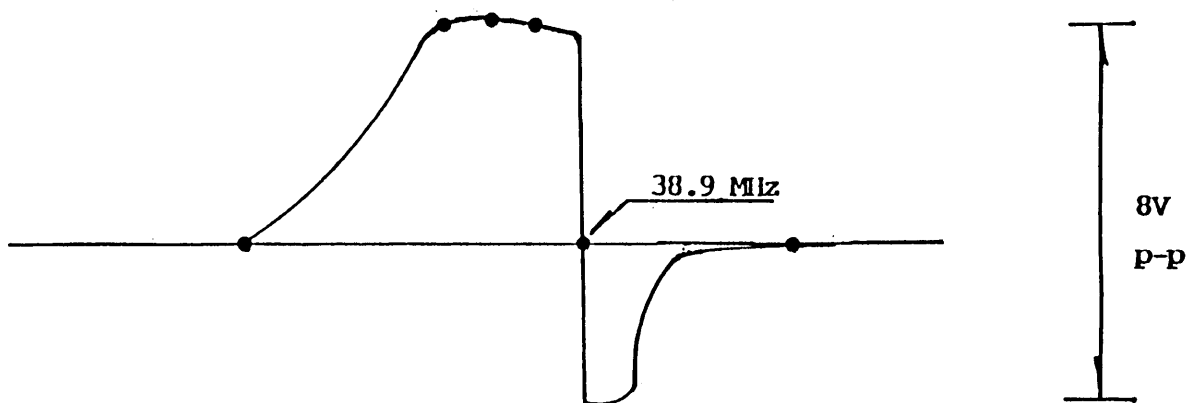


Fig. 2

(C) VIF ALIGNMENT

- (1) Connect waveform detector to TP102 and Ground.
- (ii) Connect 100 ohm resistor between TP103 and TP104.
- (iii) Reduce output level of sweep generator to -50dB.
- (iv) Adjust AGC bias to maintain the waveform achieve 1V p-p.
- (V) Adjust tuner convertor coil to obtain the waveform as Fig.3.

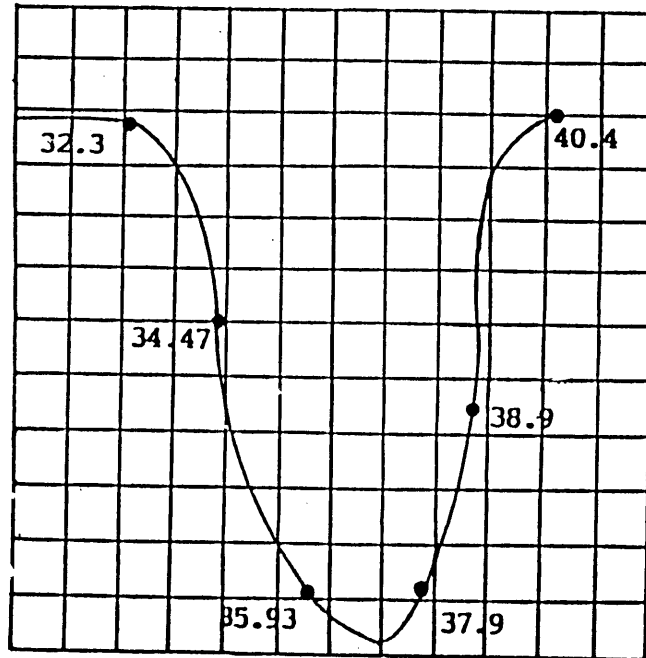


Fig. 3 .

D. AFC ALIGNMENT

- (i) Connect Philips Pattern Generator to tuner test point and Ground (Frequency is 38.9 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 38.9 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.

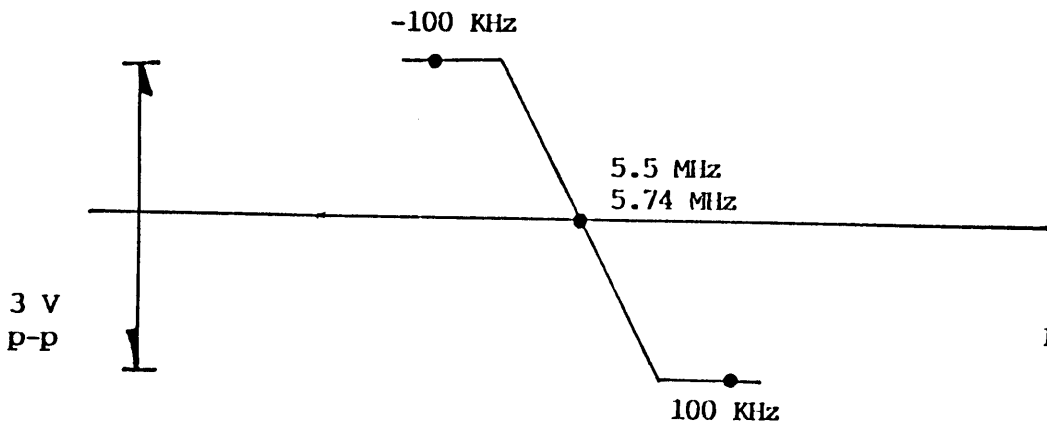


Fig. 5

G. STEREO and Dual Sound Alignment

- (1) Receive color bar pattern (with stereo and Dual Sound).
- (2) Connect oscilloscope to TP001 and TP002.
- (3) Adjust T001, VR001 and VR003 to obtain a maximum amplitude as Fig.6 & Fig. 7.

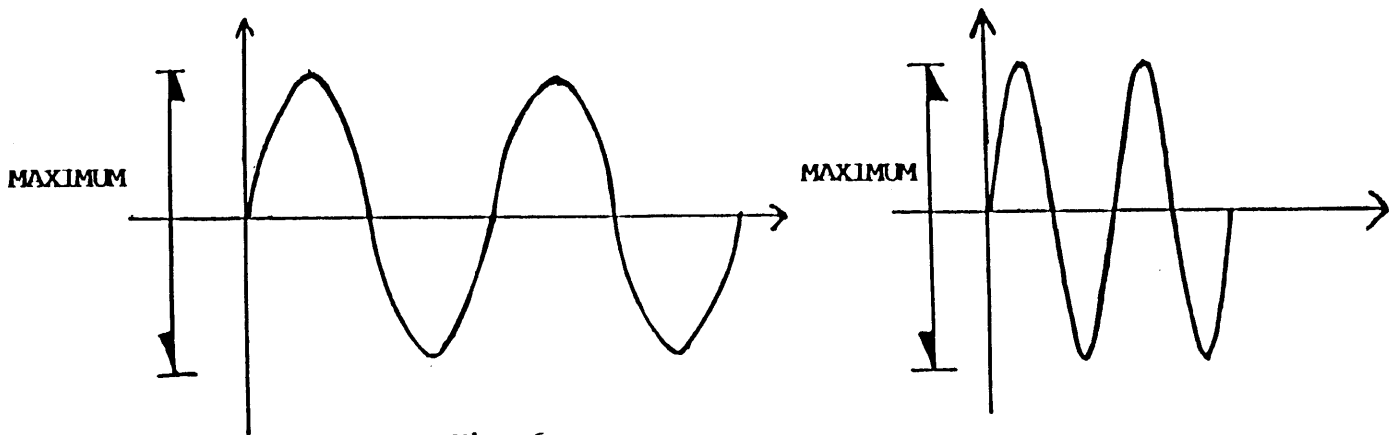


Fig. 6

H. Separation Alignment

- (1) Receive color bar pattern (with stereo sound, L 3 KHz R 1 KHz).
- (2) Connect Digital multimeter to PIN 1 at CN201 and ground.
- (3) Adjust volume control to obtain a 0.89 Vrms.
- (4) Switch off the left channel signal (3 KHz) from the signal generator.
- (5) Adjust VR002 to make a minimum output level.

PAL COLOUR ALIGNMENT

- (1) Receive Philips Pattern.
- (2) Connect Oscilloscope to TP305.
- (3) Set color control to maximum position.
- (4) Adjust T301, CT301 and VR302 to obtain the waveform as Fig.6.

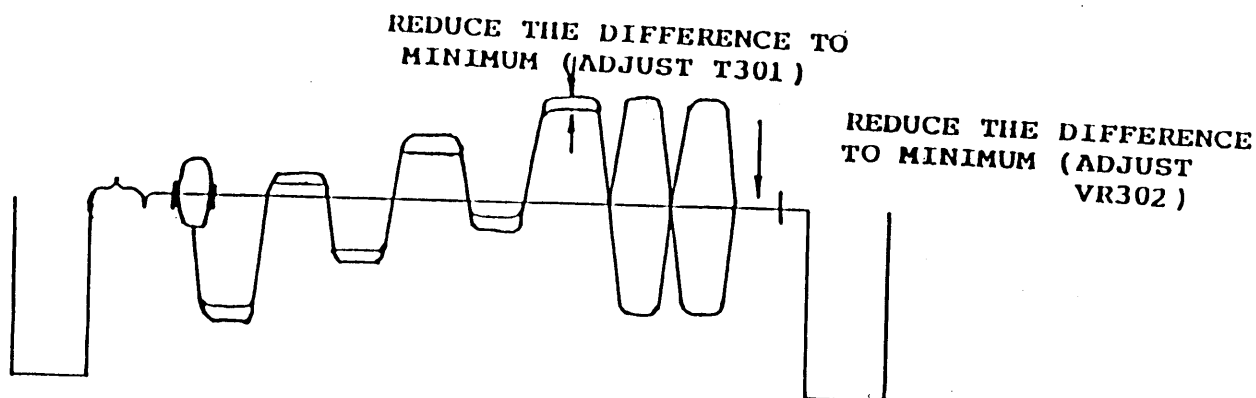


Fig.6

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 112v.

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) Turn the brightness, contrast and picture control to minimum value.
- 2) Turn VR501,502,504 to middle position. Turn VR503,505 to middle position.
- 3) Turn VR301 to middle position.
- 4) Receive a black and white pattern.
- 5) Connect a digital meter between G2 and Ground on CRT Board.
- 6) Adjust screen volume on FBI to obtain a 310V.
- 7) Adjust VR502,503,504,505 to obtain a uniformly white picture (9300°K)

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.

AGC ALIGNMENT

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

VOLTAGE TABLE FOR IC					
SYMBOL		IC801	IC804	SYMBOL	
PIN NO.		(V)	(V)	PIN NO.	
1		5	GEN	43	4.2
2		1.8	4.2	44	0.8
3		1.9	4.3	45	0.8
4		0.03	NC	46	0.8
5		GEN	NC	47	2.5
6		4.9	NC	48	5.0
7		2.2	NC		
8		2.4	NC		
9		2.5	NC		
10		5.0	NC		
11		GEN	NC		
12		2.1	5.0		
13		5	GEN		
14		GEN	GEN		
15		0.42	2.3		
16		0.5	2.0		
17		0.4	0		
18		3.8	GEN		
19		4.5	NC		
20		0.8	NC		
21		2.5	NC		
22		NC	NC		
23		4.3	GEN		
24		4.3	NC		
25		GEN	NC		
26		0.5	GEN		
27		0.5	NC		
28		0.5	5.0		
29		0.3			
30		0.5			
31		4.2			
32		0.3			
33		0			
34		3.7			
35		3.6			
36		3.6			
37		1.2			
38		1.3			
39		3.8			
40		2.2			
41		2.2			
42		4.2			

NOTE : VOLTAGE ARE TAKEN UNDER TUNED CONDITION WITH

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

VOLTAGE TABLE FOR IC

SYMBOL PIN NO.	IC701 (V)	IC602 (V)	IC101 (V)	IC103 (V)	IC802 (V)
1	3.0	GND	1.8	15.5	NC
2	3	5	2.1	GND	4.2
3	0	GND	2.6	11.9	2.2
4	NC	GND	1.8		2.2
5	NC	2.9	1.8		3.8
6	NC	3.3	2.1		1.3
7	0	5	2.1		1.2
8	NC	5	1.8		3.6
9	0		1.8		3.6
10	0		4.0		3.7
11	0		4.0		0
12	0		3.0		0.3
13	0		0.04		4.2
14	GND		1.65		GND
15	0		1.76		0.6
16	0		3.0		0.5
17	0		0.03		0.5
18	0		GND		0.3
19	0		5		0.5
20	0		1.78		GND
21	3.0				4.2
22	3.0				2.5
23	3.0				0.8
24	NC				0.8
25	3.0				0.8
26	3.0				5.0
27	3.0				5.0
28	3				5.0

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VOLTAGE TABLE FOR IC

SYMBOL PIN NO.	IC601 (V)	IC102 (V)	IC302 (V)	IC304 (V)	IC301 (V)
1	4.33	5.4	3.6	3.4	0.09
2	0.82	2.9	GND	11.2	0
3	4.85	2.8	3.6	8.4	0
4	4.85	3.5	3.6	8.3	0
5	4.85	3.2	3.6	8.2	0
6	NC	GND	3.6	0.86	0
7	0.04	11.6	3.6	0.1	0
8	0.02	5.6	0.01	4.1	0
9	2.5	5.6	0.14	4.1	0
10	4.1	2.4	0.02	4.1	GND
11	GND	1.85	3	2.7	0.1
12	4.5	NC	0.02	3.1	0
13	5	3	3	NC	0.1
14	5	1.5	11.2	3.9	0
15	5	NC	0.02	3.9	0.1
16	5	GND	3.0	2.6	0
17	5	3.5		1.9	0.09
18	0.1	5.0		GND	0
19	5	6.6		3.4	0.09
20	5	5.6		3.4	5
21	GND	5,6			
22	0	9.5			
23	0	2.8			
24	0	2.8			
25	0	4.6			
26	0.4	0.8			
27	-0.02	0.8			
28	5	3.3			
29	4.6				
30	GND				
31	2.4				
32	2.4				
33	5				
34	0.6				
35	4.9				
36	4.9				
37	0.02				
38	GND				
39	3.3				
40	2.8				
41	0.25				
42	5				

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VOLTAGE TABLE FOR IC

SYMBOL PIN NO.	IC305 (V)	IC303 (V)	IC901 (V)	IC401 (V)	IC201 (V)
1	7.4	5.1	10.6	1.2	1.2
2	7.4	0	GND	GND	0.01
3	GND	3.8	5	1.3	GND
4	2.2	0		GND	15.3
5	2.3	3.9		12.6	0.01
6	8.0	3.5		25	1.2
7	11.4	GND		NC	14.2
8	5.6	GND		5.7	7.9
9	3.2	3.3		24.6	15.2
10	7.8	3.8			8.0
11	2.9	0.8			14.2
12	7.6	5.1			GND
13	2.1	5.1			
14	7.1	NC			
15	0.9	4.4			
16	NC	9.8			
17		3.4			
18		9.5			
19		NC			
20		3.1			
21		NC			
22		4.4			
23		GND			
24		5.1			

NOTE : VOLTAGE ARE TAKEN UNDER TUNED CONDITION WITH

CONTRAST : Maximum Position
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VOLTAGE TABLE FOR TRANSISTOR							
SYMBOL	B (V)	C (V)	E (V)	SYMBOL	B (V)	C (V)	E (V)
Q001	2.1	7.6	1.4	Q302	0	1.9	0
Q002	3.5	11.4	2.8	Q303	3.05	0	3.75
Q003	1.8	3.4	1.1	Q401	0.4	60.0	-0.01
Q004	2.5	5.3	1.8	Q402	-0.1	110.0	0
Q005	3.7	11.4	3.0	Q601	0.6	2.01	0
Q006	5.2	5.2	4.5	Q602	0.7	0.06	0
Q007	0.08	5.2	0.3	Q603	9.2	12.2	8.7
Q008	0.65	0.01	0	Q604	0	0.24	0
Q009	0.55	0.01	0	Q605	0.3	1.1	0
Q010	0.01	5.6	0.01	Q901	9	15.3	8.4
Q101	10.2	10.9	11.1	Q902	6.4	-0.02	2.1
Q102	11.1	0	11.1	Q903	-0.02	1.55	0
Q103	0.65	0.04	0	Q904	-2.48	264	0.1
Q104	0.04	11.1	0	Q905	0.6	0.04	0
Q105	1.10	7.3	0.4	Q906	109.5	110	110.1
Q106	0	2.4	0	Q907	110	110.1	109.4
Q107	0.04	11.1	0	Q501	3.13	134.2	2.6
Q108	11.1	0	11.1	Q502	3.6	128.4	2.6
Q109	3.5	11.1	2.8	Q503	3.1	127.4	2.6
Q201	16.3	15.7	15.6	Q701	0	3	0
Q301	0.04	2.53	0	Q702	3	-0.8	3

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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

Print Date : 21/01/95

Page Number : 1

<< B.O.M. PRICE LIST FOR CUSTOMER >> - CURRENCY (USD)

PRODUCT CODE : 922174-ET0001-GT

DESCRIPTION : P/BG W/SC OPTIONAL F.TXT SONY GREY 240V PHILIP IC SAA (40P)

ASSEMBLY NUMBER	DESCRIPTION
-----	-----
155-000400-04-00	COMMON PART FOR HANDSET ASS'Y (R/C 9313)
155-000400-04-04	NON-COM PART FOR FASTEXT HANDSET ASS'Y
158-922174-ET-00	COMMON PART FOR CHASSIS ASS'Y (BG)
158-922174-ET-01	NON-COM PART FOR CHASSIS ASS'Y (BG)
159-922174-ET-00	COMMON PART FOR CASING ASS'Y (BG)
159-922174-ET-02	NON-COM PART FOR CASING ASS'Y (M.BLK)
163-922174-ET-02	NON-COM PART FOR PACKING ASS'Y (BG)

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Print Date : 21/01/95 PRODUCT CODE : 922174-ET0001-GT
 Page Number : 2 DESCRIPTION : P/BG W/SC OPTIONAL F.TXT SONY GREY 240V PHILIP IC SAA (40P)

Component- Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
*** ASSEMBLY : 155-000400-04-00 COMMON PART FOR HANDSET ASS'Y (R/C 9313)						
107-800455-46	455K HZ RESONATOR CSB455EB MURATA CF701	PC	0	1.00000	.1980	.1980
113-101005-17	CARBON FILM RESISTOR 100 OHM 1/16W +-5% R704,706	PC	0	2.00000	.0035	.0069
113-102005-17	CARBON FILM RESISTOR 1K OHM 1/16W +-5% R705	PC	0	1.00000	.0035	.0035
113-103005-17	CARBON FILM RESISTOR 10K OHM 1/16W +-5% R702	PC	0	1.00000	.0035	.0035
113-109005-17	CARBON FILM RESISTOR 1 OHM 1/16W +-5% R708,710	PC	0	2.00000	.0044	.0088
113-473005-17	CARBON FILM RESISTOR 47K OHM 1/16W +-5% R703	PC	0	1.00000	.0035	.0035
113-682005-17	CARBON FILM RESISTOR 6.8K OHM 1/16W +-5% R701	PC	0	1.00000	.0044	.0044
127-476042-03	ELECT. CAP. 47 MFD 16V +-20% C701	PC	0	1.00000	.0288	.0288
130-600101-00	INFRARED EMITTER EL-1L1 KODENSHI LED701	PC	0	1.00000	.1340	.1340
131-210719-29	TRANSISTOR 2SA719R/S MATSUSHITA Q702	PC	0	1.00000	.0633	.0633
-131-230945-00	TRANSISTOR 2SC945 NEC Q701	PC	0	1.00000	.0417	.0417
133-803010-33	I.C. SAA3010T PHILIPS IC701	PC	0	1.00000	.9673	.9673
172-626006-42	UL 1007 TOP COAT WIRE AWG 26 60MM RED 10 X 10 MM FROM REMOTE PCB '3V' TO BATTERY CONTACT PLATE '+'	PC	0	1.00000	.0023	.0023
172-626008-40	UL 1007 TOP COAT WIRE AWG 26 80MM BLACK 10 X 10 MM FROM REMOTE PCB 'GND' TO BATTERY CONTACT PLATE '-'	PC	0	1.00000	.0030	.0030
172-726000-99	BARE WIRE 54MM W701-702	M	0	.11000	.0092	.0010
190-931300-02	REMOTE P.C.B. (190593)	PC	0	1.00000	.5192	.5192
773-036864-00	BATTERY CONTACT PLATE +VE	0	0	1.00000	.0173	.0173
773-222001-00	BATTERY CONTACT PLATE (+VE,-VE) W/NICKEL PLATING	0	0	1.00000	.0365	.0365
774-036862-00	BATTERY CONTACT SPRING -VE	0	0	1.00000	.0260	.0260
849-931301-00	CONTACT RUBBER KEY PAD	0	0	1.00000	.5577	.5577
964-931301-00	SENSOR LENS	0	0	1.00000	.0275	.0275

ASSB PRICE : 2.6542

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Print Date : 21/01/95 PRODUCT CODE : 922174-ET0001-GT
 Page Number : 3 DESCRIPTION : P/BG W/SC OPTIONAL F.TXT SONY GREY 240V PHILIP IC SAA (40P)

Component Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
*** ASSEMBLY : 155-000400-04-04 NON-COM PART FOR FASTEXT HANDSET ASS'Y						
514-200407-10	SELF-TAPPING SCREW 2 X 7 B/T (HARDEN) FOR HANDSET	PC	0	1.00000	.0019	.0019
516-260408-10	SELF-TAPPING SCREW 2.6 X 8 P/T(HARDEN) FOR HANDSET	PC	0	2.00000	.0017	.0034
849-931301-00	CONTACT RUBBER KEY PAD		0	1.00000	.5577	.5577
889-931310-00	HANDSET COVER PLATE FOR W/O LCD REMOTE		0	1.00000	.0115	.0115
892-931308-13	DIAL KEY PLATE - ENG STD TEAC DESIGN (RC-571)		0	1.00000	.2038	.2038
900-931310-01	HANDSET TOP CABINET - MOULDED BLACK		0	1.00000	.1471	.1471
902-931310-01	HANDSET BOTTOM CABINET - MOULDED BLACK		0	1.00000	.1260	.1260
910-931301-01	BATTERY DOOR - BLACK MOULDED		0	1.00000	.0258	.0258

ASSB PRICE : 1.0772

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Print Date : 21/01/95 PRODUCT CODE : 922174-ET0001-GT
 Page Number : 4 DESCRIPTION : P/BG W/SC OPTIONAL F.TXT SONY GREY 240V PHILIP IC SAA (40P)

Component Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
*** ASSEMBLY : 158-922174-ET-00 COMMON PART FOR CHASSIS ASS'Y (BG)						
001-220027-07	FLYBACK TRANSFORMER FCM20B027 SAMSUNG T402	PC	0	1.00000	6.8469	6.8469
012-102340-06	SEMI-FIXED RESISTOR EVND8AA 03B13 1KB VR401,901	PC	0	2.00000	.0529	.1058
012-103340-06	SEMI-FIXED RESISTOR EVND8AA 03B14 10KB VR103	PC	0	1.00000	.0529	.0529
012-104340-06	SEMI-FIXED RESISTOR EVND8AA 03B15 100KB VR101	PC	0	1.00000	.0558	.0558
012-301330-06	SEMI-FIXED RESISTOR EVND2AA 03B32 300B VR503,505	PC	0	2.00000	.0587	.1173
012-501340-06	SEMI-FIXED RESISTOR EVND 8AA 03B52 500B VR302	PC	0	1.00000	.0529	.0529
012-502330-06	SEMI-FIXED RESISTOR EVND2AA 03B53 5KB VR502,504,501	PC	0	3.00000	.0587	.1760
012-502340-06	SEMI-FIXED RESISTOR EVND8AA 03B53 5KB VR601	PC	0	1.00000	.0529	.0529
012-503340-06	SEMI-FIXED RESISTOR EVND8AA 03B54 50KB VR102,301	PC	0	2.00000	.0529	.1058
013-100001-02	GLASS DELAY LINE (ADVANCE MOTION/WEI HAW YCS-EN645A11) DLY302	PC	0	1.00000	.9481	.9481
013-200005-00	Y-DELAY LINE YBL50F18X DLY301	PC	0	1.00000	.4346	.4346
101-190710-96	HORIZONTAL DRIVE TRANSFORMER R0710 T401	PC	0	1.00000	.2885	.2885
101-288820-95	LINE FILTER 70MH L901	PC	0	1.00000	.6583	.6583
101-414025-94	SWITCHING POWER TRANSFORMER (HL4025B) T901	PC	0	1.00000	1.7845	1.7845
102-370600-02	TANK COIL / AFC COIL COILS 707851 T101	PC	0	1.00000	.1000	.1000
102-671000-02	SOUND IF 5.5 TO 6.5 MHZ COIL, COILS 708997 T102	PC	0	1.00000	.1000	.1000
102-770200-02	SECAM COLOR PAL DELAY LINE MATCHING COILS 707850 T301	PC	0	1.00000	.0865	.0865
105-100103-02	FIXED INDUCTIVE COIL 10UH +-10% AXIAL TYPE L102	PC	0	1.00000	.0342	.0342
105-150101-02	FIXED INDUCTIVE COIL 15UH 10% L104	PC	0	1.00000	.0458	.0458
105-201106-02	CHOKE COIL 200UH 10% CH9012- 201K (ELEC PRODUCT) L903	PC	0	1.00000	.1682	.1682
105-220101-02	FIXED INDUCTIVE COIL 22UH 10% L105	PC	0	1.00000	.0458	.0458
105-330101-02	FIXED INDUCTIVE COIL 33UH +-10% T305	PC	0	1.00000	.0458	.0458
105-650052-03	LINEARITY COIL 65UH FOR 14" L401	PC	0	1.00000	.3423	.3423
105-689101-02	FIXED INDUCTIVE COIL 6.8UH 10% L103	PC	0	1.00000	.0342	.0342

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Component Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
105-828103-02	FIXED INDUCTIVE COIL 0.82UH 10% AXIAL TYPE L101	PC	0	1.00000	.0342	.0342
105-829101-02	FIXED INDUCTIVE COIL 8.2UH 10% L301,302,303,304	PC	0	4.00000	.0342	.1369
113-100105-17	CARBON FILM RESISTOR 10 OHM 1/4W +-5% R601,119,108,163	PC	0	4.00000	.0028	.0112
113-101105-17	CARBON FILM RESISTOR 100 OHM 1/4W +-5% R624,625,650,643,644,638,336,337,338,319,322,309	PC	0	12.00000	.0033	.0392
113-102105-17	CARBON FILM RESISTOR 1K OHM 1/4W +-5% R619,617,607,608,618,620,621,634,637,640,641,633	PC	0	12.00000	.0033	.0392
113-102105-17	CARBON FILM RESISTOR 1K OHM 1/4W +-5% R402,613,642,639,636	PC	0	5.00000	.0033	.0163
113-102105-17	CARBON FILM RESISTOR 1K OHM 1/4W +-5% R921,109,143,153,160,320,321,302,328,329,352,331	PC	0	12.00000	.0033	.0392
113-102305-75	METAL OXIDE FILM RESISTOR 1K OHM 1W +-5% R414	PC	0	1.00000	.0192	.0192
113-103101-67	METAL FILM RESISTOR 10K OHM 1/4W +-1% R609	PC	0	1.00000	.0092	.0092
113-103105-12	CARBON FILM RESISTOR 10K OHM 1/4W +-5% R908,425	PC	0	2.00000	.0023	.0045
113-103105-17	CARBON FILM RESISTOR 10K OHM 1/4W +-5% R612,623,635,649,632,103,110,113,104,111,165	PC	0	11.00000	.0033	.0360
113-103105-17	CARBON FILM RESISTOR 10K OHM 1/4W +-5% R303,304,315,354,209,407	PC	0	6.00000	.0033	.0196
113-103405-75	METAL OXIDE FILM RESISTOR 10K OHM 2W +-5% R162	PC	0	1.00000	.0240	.0240
113-104105-17	CARBON FILM RESISTOR 100K OHM 1/4W +-5% R161	PC	0	1.00000	.0028	.0028
113-104205-12	CARBON FILM RESISTOR 100K OHM 1/2W +-5% R920	PC	0	1.00000	.0062	.0062
113-104305-75	METAL OXIDE FILM RESISTOR 100KOHM 1W +-5% R925	PC	0	1.00000	.0192	.0192
113-105105-17	CARBON FILM RESISTOR 1M OHM 1/4W +-5% R138	PC	0	1.00000	.0033	.0033
113-120305-75	METAL OXIDE FILM RESISTOR 12 OHM 1W +-5% R911	PC	0	1.00000	.0192	.0192
113-120405-75	METAL OXIDE FILM RESISTOR 12 OHM 2W +-5% R924	PC	0	1.00000	.0265	.0265
113-122105-17	CARBON FILM RESISTOR 1.2K OHM 1/4W +-5% R323,602	PC	0	2.00000	.0028	.0056
113-122205-12	CARBON FILM RESISTOR 1K2 OHM 1/2W +-5% R409	PC	0	1.00000	.0056	.0056
113-123105-17	CARBON FILM RESISTOR 12K OHM 1/4W +-5% R132,928,933,605	PC	0	4.00000	.0030	.0119
113-124205-12	CARBON FILM RESISTOR 120K OHM 1/2W +-5% R421	PC	0	1.00000	.0062	.0062
113-151105-17	CARBON FILM RESISTOR 150 OHM 1/4W +-5% R112	PC	0	1.00000	.0028	.0028
113-152105-17	CARBON FILM RESISTOR 1.5K OHM 1/4W +-5% R150,152	PC	0	2.00000	.0030	.0060

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Component Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
113-153105-17	CARBON FILM RESISTOR 15K OHM 1/4W +-5% R610,616,116,401	PC	0	4.00000	.0030	.0119
113-153405-75	METAL OXIDE FILM RESISTOR 15K OHM 2W +-5% R510,511,505	PC	0	3.00000	.0240	.0719
113-154105-17	CARBON FILM RESISTOR 150K OHM 1/4W +-5% R157	PC	0	1.00000	.0028	.0028
113-159305-75	METAL OXIDE FILM RESISTOR 1.5 OHM 1W +-5% R410	PC	0	1.00000	.0192	.0192
113-181105-17	CARBON FILM RESISTOR 180 OHM 1/4W +-5% R340,307,310,305,313	PC	0	5.00000	.0028	.0139
113-182105-17	CARBON FILM RESISTOR 1.8K OHM 1/4W +-5% R907,334,335,629,630,631	PC	0	6.00000	.0033	.0196
113-183105-17	CARBON FILM RESISTOR 18K OHM 1/4W +-5% R317,339,604	PC	0	3.00000	.0033	.0098
113-184105-17	CARBON FILM RESISTOR 180K OHM 1/4W +-5% R151,156	PC	0	2.00000	.0028	.0056
113-202605-75	METAL OXIDE FILM RESISTOR 2K OHM 5W +-5% R416	PC	0	1.00000	.1154	.1154
113-220105-17	CARBON FILM RESISTOR 22 OHM 1/4W +-5% R325	PC	0	1.00000	.0028	.0028
113-221105-17	CARBON FILM RESISTOR 220 OHM 1/4W +-5% R627,106	PC	0	2.00000	.0028	.0056
113-221305-75	METAL OXIDE FILM RESISTOR 220 OHM 1W +-5% R413	PC	0	1.00000	.0192	.0192
113-222101-67	METAL FILM RESISTOR 2.2K OHM 1/4W +-1% R146	PC	0	1.00000	.0092	.0092
113-222105-17	CARBON FILM RESISTOR 2.2K OHM 1/4W +-5% R507,509,513,201,141,652,332	PC	0	7.00000	.0033	.0229
113-223101-67	METAL FILM RESISTOR 22K OHM 1/4W +-1% R606,614	PC	0	2.00000	.0092	.0185
113-223105-17	CARBON FILM RESISTOR 22K OHM 1/4W +-5% R646,129,417	PC	0	3.00000	.0030	.0089
113-224105-17	CARBON FILM RESISTOR 220K OHM 1/4W +-5% R207,653	PC	0	2.00000	.0028	.0056
113-229105-17	CARBON FILM RESISTOR 2.2 OHM 1/4W +-5% R125,342,208	PC	0	3.00000	.0028	.0084
113-229205-12	CARBON FILM RESISTOR 2.2 OHM 1/2W +-5% R139,351	PC	0	2.00000	.0062	.0123
113-229305-72	METAL OXIDE FILM RESISTOR 2.2 OHM 1W +-5% R202	PC	0	1.00000	.0192	.0192
113-229405-75	METAL OXIDE FILM RESISTOR 2.2 OHM 2W +-5% R902	PC	0	1.00000	.0240	.0240
113-229605-51	WIRE WOUND CEMENT RESISTOR 2.2 OHM 5W +-5% R901	PC	0	1.00000	.1654	.1654
113-270105-17	CARBON FILM RESISTOR 27 OHM 1/4W +-5% R115	PC	0	1.00000	.0028	.0028
113-270405-75	METAL OXIDE FILM RESISTOR 27 OHM 2W +-5% R912	PC	0	1.00000	.0265	.0265
113-271105-17	CARBON FILM RESISTOR 270 OHM 1/4W +-5% R147	PC	0	1.00000	.0028	.0028

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Component Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
113-272105-17	CARBON FILM RESISTOR 2.7K OHM 1/4W +-5% R142,134	PC	0	2.00000	.0033	.0065
113-272205-12	CARBON FILM RESISTOR 2.7K OHM 1/2W +-5% R502,503,504	PC	0	3.00000	.0062	.0185
113-272205-17	CARBON FILM RESISTOR 2.7K OHM 1/2W +-5% R922,415	PC	0	2.00000	.0062	.0123
113-273105-17	CARBON FILM RESISTOR 27K OHM 1/4W +-5% R155,603,408	PC	0	3.00000	.0032	.0097
113-331105-17	CARBON FILM RESISTOR 330 OHM 1/4W +-5% R905,411,628,343,344,362	PC	0	6.00000	.0033	.0196
113-332102-17	CARBON FILM RESISTOR 3.3K OHM 1/4W +-2% R904	PC	0	1.00000	.0052	.0052
113-332105-17	CARBON FILM RESISTOR 3.3K OHM 1/4W +-5% R204,611,645,647,809	PC	0	5.00000	.0028	.0139
113-333105-17	CARBON FILM RESISTOR 33K OHM 1/4W +-5% R118,127,128,114,117,144,406	PC	0	7.00000	.0033	.0229
113-334105-17	CARBON FILM RESISTOR 330K OHM 1/4W +-5% R159	PC	0	1.00000	.0028	.0028
113-334305-75	METAL OXIDE FILM RESISTOR 330KOHM 1W +-5% R913	PC	0	1.00000	.0192	.0192
113-335105-17	CARBON FILM RESISTOR 3.3M OHM 1/4W +-5% R365	PC	0	1.00000	.0028	.0028
113-338405-75	METAL OXIDE FILM RESISTOR 0.33OHM 2W +-5% R914	PC	0	1.00000	.0240	.0240
113-339405-42	NON-FLAMMABLE FUSE RESISTOR 3.3 OHM 2W +-5% R501	PC	0	1.00000	.0808	.0808
113-390505-75	METAL OXIDE FILM RESISTOR 39 OHM 3W +-5% R926	PC	0	1.00000	.0510	.0510
113-390605-75	METAL OXIDE FILM RESISTOR 39 OHM 5W +-5% R915	PC	0	1.00000	.1154	.1154
113-391105-17	CARBON FILM RESISTOR 390 OHM 1/4W +-5% R506,508,347	PC	0	3.00000	.0030	.0089
113-392105-17	CARBON FILM RESISTOR 3.9K OHM 1/4W +-5% R404	PC	0	1.00000	.0030	.0030
113-393105-17	CARBON FILM RESISTOR 39K OHM 1/4W +-5% R316	PC	0	1.00000	.0033	.0033
113-471105-17	CARBON FILM RESISTOR 470 OHM 1/4W +-5% R140,412	PC	0	2.00000	.0028	.0056
113-472105-17	CARBON FILM RESISTOR 4.7K OHM 1/4W +-5% R910,149,927	PC	0	3.00000	.0030	.0089
113-473105-17	CARBON FILM RESISTOR 47K OHM 1/4W +-5% R622,648,651,301	PC	0	4.00000	.0033	.0131
113-479105-17	CARBON FILM RESISTOR 4.7 OHM 1/4W +-5% R327	PC	0	1.00000	.0028	.0028
113-511105-17	CARBON FILM RESISTOR 510 OHM 1/4W +-5% R512	PC	0	1.00000	.0028	.0028
113-562105-17	CARBON FILM RESISTOR 5.6K OHM 1/4W +-5% R105,318,324,203,206	PC	0	5.00000	.0033	.0163
113-563105-17	CARBON FILM RESISTOR 56K OHM 1/4W +-5% R341,363	PC	0	2.00000	.0028	.0056

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Component Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
113-565205-92	CARBON COMPOSITION RESISTOR 5.6M 1/2W +-5% R916,917	PC	0	2.00000	.0663	.1327
113-681105-17	CARBON FILM RESISTOR 680 OHM 1/4W +-5% R148	PC	0	1.00000	.0033	.0033
113-682102-17	CARBON FILM RESISTOR 6.8K OHM 1/4W +-2% R903	PC	0	1.00000	.0052	.0052
113-682105-17	CARBON FILM RESISTOR 6.8K OHM 1/8W +-5% R909,359,419	PC	0	3.00000	.0028	.0084
113-683105-17	CARBON FILM RESISTOR 68K OHM 1/4W +-5% R405	PC	0	1.00000	.0028	.0028
113-688205-42	FUSING RESISTOR 0.68 OHM 1/2W +-5% R919	PC	0	1.00000	.0462	.0462
113-688305-42	FUSING RESISTOR 0.68 OHM 1W +-5% R918,423,424	PC	0	3.00000	.0587	.1760
113-689405-75	METAL OXIDE FILM RESISTOR 6.8 OHM 3W +-5% R422	PC	0	1.00000	.0000	.0000
113-750105-17	CARBON FILM RESISTOR 75 OHM 1/4W +-5% R929,930,931,932	PC	0	4.00000	.0028	.0112
113-820105-17	CARBON FILM RESISTOR 82 OHM 1/4W +-5% R418,101,326,330	PC	0	4.00000	.0028	.0112
113-821105-17	CARBON FILM RESISTOR 820 OHM 1/4W +-5% R360	PC	0	1.00000	.0028	.0028
113-822105-17	CARBON FILM RESISTOR 8.2K OHM 1/4W +-5% R906,923,420,934,626	PC	0	5.00000	.0033	.0163
113-823105-17	CARBON FILM RESISTOR 82K OHM 1/4W +-5% R145	PC	0	1.00000	.0028	.0028
113-824105-17	CARBON FILM RESISTOR 820K OHM 1/4W +-5% R158	PC	0	1.00000	.0028	.0028
114-210200-01	THERMISTOR (NICHICON ZPB53 BL 200C) TH901	PC	0	1.00000	.4231	.4231
123-100340-60	CERAMIC CAP. 10PF +-5% 50V (SL TYPE) C349	PC	0	1.00000	.0107	.0107
123-101350-60	CERAMIC CAP. 100 PF 50V +-10% (SL TYPE) C612	PC	0	1.00000	.0116	.0116
123-102350-90	CERAMIC CAP. 0.001 MFD 50V +-10% (B TYPE) C138,614,918,920,921	PC	0	5.00000	.0127	.0633
123-102850-10	CERAMIC CAP. 0.001 MFD 2KV +-10% MATSUSHITA C501	PC	0	1.00000	.1385	.1385
123-103370-90	CERAMIC CAP. 0.01 MFD 50V +80 -20% C102,117,110,126,311,333,334	PC	0	7.00000	.0128	.0896
123-104270-90	CERAMIC CAP. 0.1 MFD 25V +80 -20% C623,123,139,306,309,307	PC	0	6.00000	.0352	.2112
123-121350-60	CERAMIC CAP. 120 PF 50V +-10% (SL TYPE) C302,303,301	PC	0	3.00000	.0116	.0348
123-122551-90	CERAMIC CAP. 0.0012 MFD 500V +-10% (B TYPE) MATSUSHITA C415	PC	0	1.00000	.0476	.0476
123-150340-93	CERAMIC CAP. 15 PF 50V +-5% (NPO) CT301	PC	0	1.00000	.0144	.0144
123-180340-60	CERAMIC CAP. 18PF 50V +-5% (SL TYPE) C118,121	PC	0	2.00000	.0107	.0214

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Component Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
123-220340-60	CERAMIC CAP. 22 PF 50V +-5% (SL TYPE) C616,617,618,620	PC	0	4.00000	.0107	.0429
123-221350-60	CERAMIC CAP. 220 PF 50V +-10% (SL TYPE) C347,503,504,502	PC	0	4.00000	.0137	.0548
123-221551-90	CERAMIC CAP. 220 PF 500V +-10% MATSUSHITA C916	PC	0	1.00000	.0566	.0566
123-222850-10	CERAMIC CAP. 0.0022 MFD 2KV +-10% MATSUSHITA C911	PC	0	1.00000	.2385	.2385
123-223370-90	CERAMIC CAP. 0.022 MFD 50V +80-20% C109,131,124,122,127,128,129,135,331,332,343,335	PC	0	12.00000	.0128	.1536
123-223370-90	CERAMIC CAP. 0.022 MFD 50V +80-20% C344	PC	0	1.00000	.0128	.0128
123-331350-60	CERAMIC CAP. 330 PF 50V +-10% (SL TYPE) C137	PC	0	1.00000	.0153	.0153
123-390340-93	CERAMIC CAP. 39PF 50V +-5% (NPO) C630	PC	0	1.00000	.0149	.0149
123-470340-60	CERAMIC CAP. 47 PF 50V +-5% (SL TYPE) C613	PC	0	1.00000	.0107	.0107
123-472551-90	CERAMIC CAP. 0.0047 MFD 500V +-10% (B TYPE) MATSUSHITA C913,413,423	PC	0	3.00000	.1173	.3519
123-472552-90	CERAMIC CAP. 0.0047 MFD 500V +-10% (B TYPE) SMALL SIZE C903,904,907	PC	0	3.00000	.0595	.1786
123-509340-93	CERAMIC CAP. 5 PF 50V +-5% (NPO) C356	PC	0	1.00000	.0144	.0144
123-681350-60	CERAMIC CAP. 680 PF 50V +-10% (SL TYPE) C407	PC	0	1.00000	.0394	.0394
123-821850-10	CERAMIC CAP. 820 PF 2KV +-10% (SL TYPE) MATSUSHITA C914,419	PC	0	2.00000	.1550	.3099
124-106041-03	TANTALIUM CAP. 10 MFD 16V +-10% C404	PC	0	1.00000	.1191	.1191
126-102071-01	MYLAR CAP. 0.001 MFD 50V +-10% C130,402,426	PC	0	3.00000	.0104	.0312
126-103071-01	MYLAR CAP. 0.01 MFD 50V +-10% C204	PC	0	1.00000	.0113	.0113
126-104071-01	MYLAR CAP. 0.1 MFD 50V +-10% C908,304,305,308,310,324,325,326,205,133,207.409	PC	0	12.00000	.0250	.3000
126-104101-31	POLYPROPYLENE CAP. 0.1 MFD 100V +-10% C425	PC	0	1.00000	.1158	.1158
126-222071-01	MYLAR CAP. 0.0022 MFD 50V +-10% C610,624,203	PC	0	3.00000	.0104	.0312
126-222161-41	METALIZED POLYPROPYLENE CAP. 0.0022 MFD 1600V +-10% C420	PC	0	1.00000	.2386	.2386
126-223071-01	MYLAR CAP. 0.022 MFD 50V +-10% C321,322,323	PC	0	3.00000	.0129	.0387
126-224071-01	MYLAR CAP 0.22 MFD 50V +-10% C140,348,602,603,115	PC	0	5.00000	.0375	.1875
126-272070-31	POLYPROPYLENE CAP. 0.0027 MFD 50V +-5% C141	PC	0	1.00000	.0697	.0697
126-332161-41	METALIZED POLYPROPYLENE CAP. 0.0033 MFD 1600V +-10% C418	PC	0	1.00000	.2386	.2386

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Component Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
126-333071-01	MYLAR CAP. 0.033 MFD 50V +-10% C906	PC	0	1.00000	.0173	.0173
126-334071-01	MYLAR CAP. 0.33 MFD 50V +-10% C143,145	PC	0	2.00000	.0613	.1227
126-472071-01	MYLAR CAP. 0.0047 MFD 50V +-10% C403,405,361	PC	0	3.00000	.0104	.0312
126-473071-01	MYLAR CAP. 0.047 MFD 50V +-10% C134,346	PC	0	2.00000	.0190	.0381
126-473211-41	METALLIZED POLYPROPYLENE CAP 0.047 MFD 250V +-10% VDE C902	PC	0	1.00000	.1538	.1538
126-474201-31	POLYPROPYLENE CAP 0.47 MFD 200V +-10% C414	PC	0	1.00000	.2788	.2788
126-474211-41	METALLIZED POLYPROPYLENE CAP 0.47 MFD 250V +-10% VDE C901	PC	0	1.00000	.4481	.4481
127-105072-03	ELECT. CAP. 1 MFD 50V +-20% C107,142,359,314,315,317,353,354,208,327	PC	0	10.00000	.0227	.2269
127-105132-03	ELECT. CAP. 1 MFD 160V +-20% C416	PC	0	1.00000	.0317	.0317
127-106042-03	ELECT. CAP. 10 MFD 16V +-20% C627,621,601,615,619,626,622,108	PC	0	8.00000	.0227	.1815
127-106042-03	ELECT. CAP. 10 MFD 16V +-20% C919,312,328,329,362,316,318,319	PC	0	8.00000	.0227	.1815
127-106102-03	ELECT CAP. 10MFD 100V +-20% NICHICON C910	PC	0	1.00000	.0481	.0481
127-106252-03	ELECT. CAP. 10 MFD 250V +-20% C424	PC	0	1.00000	.1346	.1346
127-107042-03	ELECT. CAP. 100 MFD 16V +-20% C125,119,313,625	PC	0	4.00000	.0346	.1385
127-107062-03	ELECT. CAP. 100 MFD 35V +-20% C201,408	PC	0	2.00000	.0519	.1038
127-107132-03	ELECT. CAP. 100 MFD 160V +-20% C417,915	PC	0	2.00000	.3231	.6462
127-107402-03	ELECT. CAP. 100 MFD 400V +-20% C905	PC	0	1.00000	.9904	.9904
127-108052-03	ELECT. CAP. 1000 MFD 25V +-20% C206	PC	0	1.00000	.1442	.1442
127-225072-03	ELECT. CAP 2.2 MFD 50V +-20% C113,116	PC	0	2.00000	.0227	.0454
127-226042-03	ELECT. CAP. 22 MFD 16V +-20% C609,202	PC	0	2.00000	.0240	.0481
127-227042-03	ELECT. CAP. 220 MFD 16V +-20% C320	PC	0	1.00000	.0404	.0404
127-227062-03	ELECT. CAP. 220 MFD 35V +-20% C917,410,411	PC	0	3.00000	.0712	.2135
127-228052-03	ELECT. CAP. 2200 MFD 25V +-20% C406,422	PC	0	2.00000	.3192	.6385
127-336042-03	ELECT. CAP. 33 MFD 16V +-20% C144,923	PC	0	2.00000	.0240	.0481
127-338052-03	ELECT. CAP. 3300 MFD 25V +-20% C421	PC	0	1.00000	.4335	.4335

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Component Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
127-474072-03	ELECT. CAP. 0.47 MFD 50V +-20% C210,211	PC	0	2.00000	.0227	.0454
127-475052-03	ELECT. CAP. 4.7 MFD 25V +-20% C607,608,604,136	PC	0	4.00000	.0227	.0908
127-476042-03	ELECT. CAP. 47 MFD 16V +-20% C401	PC	0	1.00000	.0288	.0288
127-476072-07	ELECT. CAP. 47 MFD 50V +-20% NICHICON C909	PC	0	1.00000	.0519	.0519
127-477042-03	ELECT. CAP. 470 MFD 16V +-20% C146,922,363,209,120	PC	0	5.00000	.0712	.3558
130-134148-01	SILICON DIODE IN4148 D406,304,301,302,303,305	PC	0	6.00000	.0092	.0554
130-134148-01	SILICON DIODE IN4148 D602,601,605,606,607,608,609,610,603	PC	0	9.00000	.0092	.0831
130-310156-00	BRIDGE RECTIFIER RB156 SANKEN BR901	PC	0	1.00000	.4838	.4838
130-311541-60	RECTIFIER DIODE 1R5JU41 D904	PC	0	1.00000	.1786	.1786
130-311545-60	RECTIFIER DIODE 1R5JH45 D404	PC	0	1.00000	.1637	.1637
130-314406-00	RECTIFIER DIODE ERB44-06 FUJI D905	PC	0	1.00000	.1641	.1641
130-315295-00	RECTIFIER DIODE S5295G TOSHIBA D902,903,901,401,402,403,405	PC	0	7.00000	.0923	.6462
130-410082-01	ZENER DIODE 8.2V ZD901	PC	0	1.00000	.0240	.0240
130-410100-01	ZENER DIODE 10V 1/2W ZD401	PC	0	1.00000	.0240	.0240
130-410574-00	ZENER DIODE UPC 574J NEC OR KA33V SAMSUNG ZD101	PC	0	1.00000	.1593	.1593
130-411091-01	ZENER DIODE 9.1V ZD902	PC	0	1.00000	.0240	.0240
130-422120-00	ZENER DIODE 1W 12V ZD402	PC	0	1.00000	.0596	.0596
130-512044-00	LED 3MM RED 204HDC LED601	PC	0	1.00000	.0298	.0298
131-211013-18	TRANSISTOR 2SA1013 (R) TOSHIBA Q906	PC	0	1.00000	.1191	.1191
131-211015-00	TRANSISTOR 2SA1015 TOSHIBA Q101,102,108,109	PC	0	4.00000	.0290	.1161
131-220774-20	TRANSISTOR 2SB774 MATSUSHITA Q902	PC	0	1.00000	.1382	.1382
131-230388-00	TRANSISTOR 2SC388A TOSHIBA Q105	PC	0	1.00000	.1340	.1340
131-231815-25	TRANSISTOR 2SC1815 TOSHIBA Q103,104,107,111,110,901,903,301,602,305,302	PC	0	11.00000	.0268	.2947
131-231815-25	TRANSISTOR 2SC1815 TOSHIBA Q603,604,605	PC	0	3.00000	.0268	.0804
131-232230-00	TRANSISTOR 2SC2230A-Y TOSHIBA Q905	PC	0	1.00000	.0893	.0893

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Component Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
131-232335-30	TRANSISTOR 2SC2335 L/K NEC Q907	PC	0	1.00000	.7740	.7740
131-232482-00	TRANSISTOR 2SC2482 TOSHIBA Q401,501,502,503	PC	0	4.00000	.0968	.3870
131-240400-00	TRANSISTOR 2SD400E/F SANYO Q201	PC	0	1.00000	.0893	.0893
131-241431-00	TRANSISTOR 2SD1431 TOSHIBA Q904 WITH MICA SHEET (24MM X 33MM)	PC	0	1.00000	1.1015	1.1015
131-241555-00	TRANSISTOR 2SD1555 TOSHIBA Q402	PC	0	1.00000	.9377	.9377
131-462369-00	TRANSISTOR PH2369 PHILIPS Q601	PC	0	1.00000	.0731	.0731
133-103504-33	I.C. TDA3504 PHILIPS IC304	PC	0	1.00000	1.7885	1.7885
133-104505-33	I.C. TDA4505E PHILIPS IC102	PC	0	1.00000	2.9173	2.9173
133-104510-33	PHILIPS IC TDA4510 IC305	PC	0	1.00000	1.6154	1.6154
133-184640-33	PHILIPS IC PCA 84C640P IC601	PC	0	1.00000	5.6538	5.6538
133-201013-33	I.C. TDA1013B PHILIPS IC201	PC	0	1.00000	.6538	.6538
133-203653-33	I.C. TDA3653B PHILIPS IC401	PC	0	1.00000	.6923	.6923
133-207805-31	I.C. L7805CV SGS IC901	PC	0	1.00000	.2977	.2977
133-207812-31	IC L7812CV SGS-THOMSON IC103	PC	0	1.00000	.3077	.3077
133-301014-31	I.C. TEA1014 SGS IC303	PC	0	1.00000	1.5385	1.5385
133-304241-33	I.C. PC74HCT241P PHILIPS IC301	PC	0	1.00000	.2500	.2500
133-305114-31	I.C. TEA5114A SGS IC302	PC	0	1.00000	.9675	.9675
136-537094-00	REMOTE RECEIVER (KODENSHI HC -377) OPT601	PC	0	1.00000	1.0865	1.0865
137-100000-31	CRYSTAL 10 MHZ HOORAY X601	PC	0	1.00000	.3462	.3462
137-886723-20	CRYSTAL 8.86 MHZ KDS X301	PC	0	1.00000	.4049	.4049
146-100001-14	POWER SWITCH (ESB-999578 COST COST REDUCTION) S612	PC	0	1.00000	1.4250	1.4250
146-104614-13	TACT SWITCH HOKURIKU S602,603,604,605,601,606,608,609,610,613,611,614	PC	0	12.00000	.0712	.8538
160-101001-08	PIN CONNECTOR 1 PIN PLUG STRAIGHT CN501,901,902	PC	0	3.00000	.0191	.0574
160-102255-27	PIN CONNECTOR 2 PINS PLUG STRAIGHT (UL) CN601,201,202	PC	0	3.00000	.0158	.0473
160-102805-08	PIN CONNECTOR 2 PIN PLUG STRAIGHT CN903	PC	0	1.00000	.0473	.0473

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Component Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
160-103255-27	PIN CONNECTOR 3 PINS PLUG CN604	PC	0	1.00000	.0248	.0248
160-103805-08	PIN CONNECTOR 3 PIN PLUG STRAIGHT CN402	PC	0	1.00000	.0653	.0653
160-104805-08	PIN CONNECTOR 4 PIN PLUG STRAIGHT CN401	PC	0	1.00000	.0698	.0698
160-105255-27	PIN CONNECTOR 5 PINS WAFER 2.5 PITCH CN203	PC	0	1.00000	.0394	.0394
160-108255-27	PIN CONNECTOR 8 PINS PLUG CN605	PC	0	1.00000	.0631	.0631
161-540003-01	CRT SOCKET ISM-03 (IN CHANG)	PC	0	1.00000	.5385	.5385
161-683702-22	21 PIN SOCKET J901	PC	0	1.00000	.4038	.4038
172-620005-40	UL 1007 TOP COAT WIRE AWG 20 50MM BLACK 5 X 5MM FOR C134 GND TO C140 GND	PC	0	1.00000	.0049	.0049
172-620010-40	UL 1007 TOP COAT WIRE AWG 20 100MM BLACK 10 X 10 MM MAIN P.C.B. 'C' TO 'C'	PC	0	1.00000	.0088	.0088
172-620014-40	UL 1007 TOP COAT WIRE AWG 20 140MM BLACK 10 X 10 MM MAIN P.C.B. 'E' TO 'E'	PC	0	1.00000	.0119	.0119
172-626008-40	UL 1007 TOP COAT WIRE AWG 26 80MM BLACK 10 X 10 MM Q904 LUG TO MAIN PCB 'L', IC401 LUG TO MAIN PCB 'M'	PC	0	3.00000	.0030	.0090
172-626008-40	UL 1007 TOP COAT WIRE AWG 26 80MM BLACK 10 X 10 MM Q402 LUG TO MAIN P.C.B. 'K'	PC	0	.00000	.0030	.0000
172-626012-44	UL 1007 TOP COAT WIRE AWG 26 120MM YELLOW 10 X 10 MM MAIN P.C.B. 'G' TO 'G', MAIN P.C.B. 'D' TO 'D'	PC	0	2.00000	.0042	.0084
172-626014-42	UL 1007 TOP COAT WIRE AWG 26 140MM RED 10 X 10 MM MAIN P.C.B. 'A' TO 'A'	PC	0	1.00000	.0048	.0048
172-626020-42	UL 1007 TOP COAT WIRE AWG 26 200MM RED 10 X 10 MM MAIN P.C.B 'B' TO 'B'	PC	0	1.00000	.0048	.0048
172-726000-99	BARE WIRE 54MM W001-012,014-049,052-062,064-069,071-075,079.502	M	0	4.70000	.0092	.0434
172-726000-99	BARE WIRE 54MM W081-083,086-087,108-111	M	0	.00000	.0092	.0000
172-830120-99	FLAT BRIDED WIRE CRT GROUND	PC	0	1.20000	.1365	.1638
173-622014-30	SINGLE SHIELD WIRE AWG 26 140MM BLACK 'H' TO 'H'	PC	0	1.00000	.0369	.0369
179-001010-00	OIL SLEEVING 1 MM DIA. L=40MM,20MM FOR D904,20MM FOR BR901	M	0	.04000	.0001	.0000
179-105000-00	UL PVC TUBE 5MM DIA L=60MM FOR AC LINE CORD	M	0	.06000	.1865	.0112
179-403030-00	3MM DIA. SHRINKABLE TUBE FOR 130MM SOLDERING LUG	PC	0	.13000	.2750	.0357
179-403080-00	SHRINKABLE TUBE 180MM FOR 4-DEGAUSSING COIL LUG(P/N:750-892002-00)	PC	0	.18000	.3000	.0540
182-233150-03	FUSE T3.15A 250V F901	PC	0	1.00000	.1027	.1027
190-881300-10	P.C.BOARD (CRT) (191091)	PC	0	1.00000	.3309	.3309
190-882000-04	POWER SWITCH P.C.B. (220791) FOR S901	PC	0	1.00000	.0673	.0673

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Component Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
190-892001-01	MAIN P.C. BOARD (100993)	PC	0	1.00000	2.4577	2.4577
190-922001-06	CHANNEL P.C.B. (140794)	PC	0	1.00000	.3058	.3058
191-100034-09	1 PIN SOCKET ASSM'Y L=220MM CRT GND TO CN501	PC	0	1.00000	.0429	.0429
191-100035-09	1 PIN SOCKET ASSM'Y FROM POWER SWITCH PCB 'A' TO CN901	PC	0	1.00000	.1072	.1072
191-100036-09	1 PIN SOCKET ASSM'Y FROM POWER SWITCH PCB 'B' TO CN902	PC	0	1.00000	.0915	.0915
191-200031-09	2 PIN SOCKET ASS'Y L=80MM FOR CN601 TO POWER SWITCH PCB	PC	0	1.00000	.0369	.0369
191-300040-09	3 PIN SOCKET ASSM'Y CN402 '1' TO CRT PCB 'J'	PC	0	1.00000	.1275	.1275
191-300040-09	3 PIN SOCKET ASSM'Y CN402 '2' TO CRT PCB 'I'	PC	0	.00000	.1275	.0000
191-300040-09	3 PIN SOCKET ASSM'Y CN402 '3' TO CRT PCB 'H'	PC	0	.00000	.1275	.0000
191-301000-07	3 PIN SOCKET ASSM'Y L=120MM CN604 '1' TO CH.PCB 'A','2' TO 'B','3' TO 'C'	PC	0	1.00000	.0574	.0574
191-500048-09	5 PIN SOCKET ASSM'Y CN203 '1' TO CRT PCB 'A'	PC	0	1.00000	.1135	.1135
191-500048-09	5 PIN SOCKET ASSM'Y CN203 '2' TO CRT PCB 'B'	PC	0	.00000	.1135	.0000
191-500048-09	5 PIN SOCKET ASSM'Y CN203 '3' TO CRT PCB 'C'	PC	0	.00000	.1135	.0000
191-500048-09	5 PIN SOCKET ASSM'Y CN203 '4' TO CRT PCB 'D'	PC	0	.00000	.1135	.0000
191-500048-09	5 PIN SOCKET ASSM'Y CN203 '5' TO CRT PCB 'E'	PC	0	.00000	.1135	.0000
191-601201-00	6 PIN SOCKET ASS'Y '4' TO '4','5' TO '5','6' TO '6'	PC	0	.00000	.1942	.0000
191-801004-07	8 PIN SOCKET ASSM'Y L=160MM CN605 '1' TO CH. PCB '1','2' TO '2','3' TO '3'	PC	0	1.00000	.1608	.1608
191-801004-07	8 PIN SOCKET ASSM'Y L=160MM '4'TO'4','5'TO'5','6'TO'6','7'TO'7','8'TO'8'	PC	0	.00000	.1608	.0000
504-305006-10	MACHINE SCREW 3 X 6 B/M 2 FOR POWER SWITCH MTG ,1 FOR IC901	PC	0	3.00000	.0012	.0035
540-020040-01	BRASS EYELET 2X4MM FOR POWER SWITCH PCB	PC	0	4.00000	.0010	.0041
580-101261-01	CABLE TIE L=100MM FOR CRT BOARD,CONNECTOR,3 FOR POWER SW..2 FOR SPK.	PC	0	12.00000	.0037	.0438
746-063101-00	TEST PIN:TOTAL LENGTH 18.6MM THK:0.8MM TP104,103	PC	0	2.00000	.0052	.0104
750-063101-00	SOLDERING LUG LEG:8X4MM FOR IC401,Q402,Q904	PC	0	3.00000	.0023	.0069
750-063102-01	35MM SOLDERING LUG OD:7 ID:3.2 LEG:4X35MM FOR AC LINE CORD. SPK. CONNECTOR		0	4.00000	.0087	.0346
750-892002-00	DEGAUSSING COIL LUG FOR DEGAUSSING COIL		0	4.00000	.0096	.0385
766-686801-00	FUSE HOLDER		0	2.00000	.0135	.0269

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Component Part	Description / Location	Unit Subs	Quantity Required	Unit Price	Amount
779-882001-01	IRON HEAT SINK (D) FOR IC901	0	1.00000	.0554	.0554
781-882001-02	ALUMINIUM HEAT SINK (B) FOR Q402	0	1.00000	.2115	.2115
781-882101-01	ALUMINIUM HEAT SINK (A) FOR Q904	0	1.00000	.1712	.1712
781-892001-00	ALUMINIUM HEAT SINK (C) FOR IC401	0	1.00000	.2385	.2385
783-881306-01	SHIELD CAN COVER	0	1.00000	.1074	.1074
783-881313-00	SHIELD CAN	0	1.00000	.1784	.1784
896-882101-00	POWER BOARD COVER (UL) FOR POWER SWITCH P.C.B.	0	1.00000	.0192	.0192
929-892001-00	LED HOLDER BKT FOR CIRCLE LED FOR LED 601	0	1.00000	.0152	.0152

ASSB PRICE : 58.7983

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DESCRIPTION : P/BG W/SC OPTIONAL F.TXT SONY GREY 240V PHILIP IC SAA (40P)

Component Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
*** ASSEMBLY : 158-922174-ET-01 NON-COM PART FOR CHASSIS ASS'Y (BG)						
003-131424-02	TUNER OSCAR UVE33-W24/R16-3649MITSUMI TUNER	PC	0	1.00000	9.9727	9.9727
107-105500-66	SOUND TRAP CERAMIC FILTER 5.5MHZ TPS-5.5MB MURATA CF105	PC	0	1.00000	.1465	.1465
107-305500-16	SOUND BYPASS CERAMIC FILTER 5.5MHZ SFE-5.5MB MURATA CF103	PC	0	1.00000	.1465	.1465
107-738916-00	SAW FILTER TSF-5316 SANYO SA101	PC	0	1.00000	1.2487	1.2487
113-102105-17	CARBON FILM RESISTOR 1K OHM 1/4W +-5% R311,306,308	PC	0	3.00000	.0033	.0098
123-102350-90	CERAMIC CAP. 0.001 MFD 50V +-10% (B TYPE) C103	PC	0	1.00000	.0127	.0127
123-222466-41	CERAMIC CAP. 0.0022 MFD 400V +-20% ECK-DNS222MEX MATSUSHITA C912	PC	0	1.00000	.2058	.2058
133-102411-31	I.C. ST24C01B1 SGS IC602	PC	0	1.00000	.6252	.6252
160-103255-27	PIN CONNECTOR 3 PINS PLUG CN302,606	PC	0	2.00000	.0248	.0495
160-106255-27	PIN CONNECTOR 6 PINS WAFER (SHS) S11-W CN301	PC	0	1.00000	.0404	.0404
171-550084-02	84" AC LINE CORD (END-CUT)SAA APPW/7.5A PLUG.	PC	0	1.00000	.6154	.6154
172-626012-44	UL 1007 TOP COAT WIRE AWG 26 120MM YELLOW 10 X 10 MM MAIN PCB 'F' TO 'F'	PC	0	1.00000	.0042	.0042
172-726000-99	BARE WIRE 54MM W094	M	0	.05400	.0092	.0005
191-301300-07	3 PIN SOCKET ASS'Y L=40MM (HALF CIRCLE) CN302 '1' TO '3'	PC	0	1.00000	.0346	.0346
517-303312-10	SELF-TAPPING SCREW 3 X 12 W/A W/H=7MM (HARDEN) FOR HEAT SINK (A) , (B) & (C)	PC	0	3.00000	.0032	.0097

ASSB PRICE : 13.1222

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Component Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
*** ASSEMBLY : 159-922174-ET-00 COMMON PART FOR CASING ASS'Y (BG)						
008-550211-05	DEGAUSSING COIL 60T L902 (W/FIVE LAYERS OF TAPE)	PC	0	1.00000	1.7308	1.7308
166-183040-40	SPEAKER 4" 3W 8OHM	PC	0	2.00000	.7308	1.4615
179-105000-00	UL PVC TUBE 5MM DIA L=950MM, 400MM FOR SPK 'L', 550MM FOR SPK 'R'	M	0	.95000	.1865	.1772
191-200044-09	2 PIN SOCKET ASSM'Y L=440MM CN201 '2' TO SPEAKER R '-', '1' TO SPEAKER R '+'	PC	0	1.00000	.0442	.0442
191-200056-09	2 PIN SOCKET ASSM'Y L=560MM CN202 '2' TO SPEAKER L '-', '1' TO SPEAKER L '+'	PC	0	1.00000	.0481	.0481
509-305010-00	MACHINE SCREW 3 X 10 KM BLACK JACK PLATE MTG	PC	0	2.00000	.0023	.0045
514-400414-10	SELF-TAPPING SCREW 4 X 14 B/T (HARDEN) FOR CRT MTG.	PC	0	4.00000	.0056	.0223
514-400418-10	SELF-TAPPING SCREW 4 X 18 B/T (HARDEN) 8 FOR CRT MTG., 4 FOR BACK CAB. MTG. 2 FOR SPK.WIRE	PC	0	14.00000	.0083	.1158
514-400425-10	SELF-TAPPING SCREW 4 X 25 B/T (HARDEN) 5 FOR CAB. MTG.	PC	0	5.00000	.0094	.0471
515-303408-10	SELF-TAPPING SCREW 3 X 8 W/B/T (HARDEN) 3 FOR CHANNEL BOARD.	PC	0	3.00000	.0033	.0098
515-303410-10	SELF-TAPPING SCREW 3 X 10 W/B/T (HARDEN) 12 FOR MAIN P.C.B.	PC	0	12.00000	.0035	.0415
515-306412-10	SELF-TAPPING SCREW 3 X 12 W/B/T (HARDEN) FOR AC LINE CORD MTG.	PC	0	1.00000	.0073	.0073
622-882802-00	FELT L240 X W17 X T0.5MM W/TAPE FOR REAR CAB.	0	0	5.00000	.0692	.3462
630-173016-00	FIBRE WASHER OD=17 ID=3 T=1.6	0	0	1.00000	.0106	.0106
728-922101-00	CRT MTG. BRACKET W/NUTS CRT MTG.	0	0	4.00000	.1731	.6923
744-881301-00	SPRING FOR C.R.T. MOUNTING 5.2 X 42 X 0.6MM	0	0	1.00000	.0481	.0481
777-881301-00	SPRING IN 10 X L12 FOR POWER KNOB	0	0	1.00000	.0077	.0077
834-230801-00	RUBBER WASHER OD=23 , ID=8 , T=1.0 FOR CRT MTG	0	0	4.00000	.0192	.0769
834-230805-00	RUBBER WASHER OD=23 ID=8 T=0.5 BETWEEN DEGUASSING COIL MTG. CLIP AND CRT MTG. LUG	0	0	4.00000	.0115	.0462
840-011024-21	PAD CORD L240 X W10 X T1 MM W/TAPE BETWEEN CRT AND FRONT CAB.	0	0	6.00000	.0423	.2538
920-922002-00	MTG. BRACKET	0	0	1.00000	.5890	.5890
939-881302-00	POWER SWITCH ADAPTOR	0	0	1.00000	.0104	.0104
954-882801-00	STUD POST	0	0	4.00000	.0246	.0984
954-892001-00	HIGH VOLTAGE SPACER FOR CRT	0	0	1.00000	.0552	.0552
954-892101-00	STUD POST	0	0	4.00000	.0269	.1077
980-882014-01	JACK PLATE W/SCART/BRASS INSERT (521-882001-00 2 PCS./SET)	0	0	1.00000	.1673	.1673

ASSB PRICE : 6.2199

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Component Part	Description / Location	Unit	Subs	Quantity Required	Unit Price	Amount
*** ASSEMBLY : 159-922174-ET-02 NON-COM PART FOR CASING ASS'Y (M.BLK)						
002-121095-44	CRT 21" #A51KST95X01 (VM) TOSHIBA	PC	0	1.00000	121.3096	121.3096
105-201106-02	CHOKO COIL 200UH 10% CH9012- 201K (ELEC PRODUCT) FOR CRT	PC	0	1.00000	.1682	.1682
179-405030-00	5 MM DIA SHRINKABLE TUBE FOR CHOCK COIL	M.	0	.02000	.4038	.0081
186-227503-14	BATTERY 3A	PC	0	2.00000	.0635	.1269
669-882101-0L	RATING LABEL TEAC DESIGN (240V)		0	1.00000	.0481	.0481
703-922002-00	SPEAKER GRILLE - BLACK DOUBLE SIDE W/SPRAY {NEW}		0	2.00000	.4212	.8423
884-882020-02	JACK COVER-TEAC DESIGN WHI SS.W/21 PIN SOCKET HOLE		0	1.00000	.1577	.1577
884-922002-01	PRESET PLATE - BLACK W/L.GREY S.S. ENG STD (12 KEY HOLES)		0	1.00000	.1058	.1058
889-922002-00	DOOR LOCKER COVER PLATE		0	1.00000	.0077	.0077
889-922003-00	V.HOLD COVER PLATE		0	1.00000	.0077	.0077
900-922101-14	FRONT CABINET - 426U GREY		0	1.00000	5.1077	5.1077
902-922003-02	BLACK CABINET - BLACK SPARY W/HANDEL		0	1.00000	3.8038	3.8038
917-922001-03	REMOTE LENS - T.RED W/L.GREY S.S. ENG STD		0	1.00000	.1746	.1746
919-922001-62	PRESET DOOR - TEAC DESIGN (SONY GREY)		0	1.00000	.1692	.1692
939-922001-01	FOOT ADAPTOR - BLACK MOULDED W/GOLD HOT-STAMP		0	2.00000	.0610	.1219
948-882100-00	DEGAUSSING COIL MTG. CLIP		0	4.00000	.0355	.1421
991-922001-01	POWER KNOB - BLACK MOULDED		0	1.00000	.0246	.0246

ASSB PRICE : 132.3260

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

Print Date : 21/01/95

PRODUCT CODE : 922174-ET0001-GT

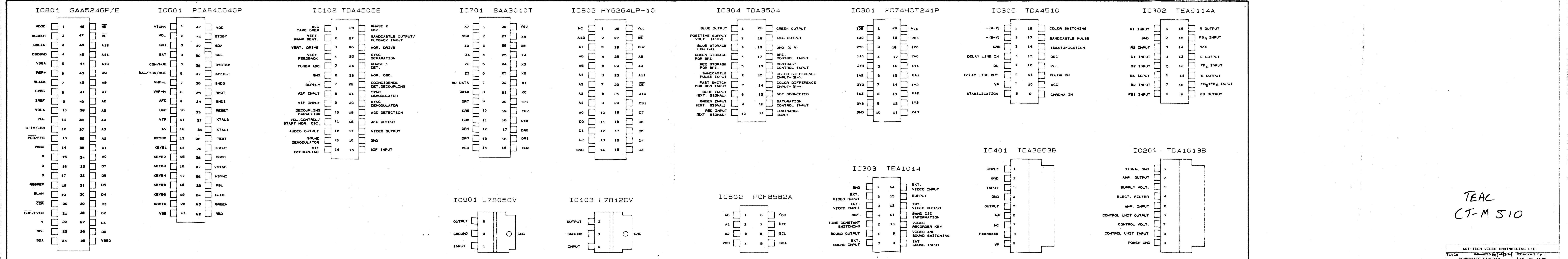
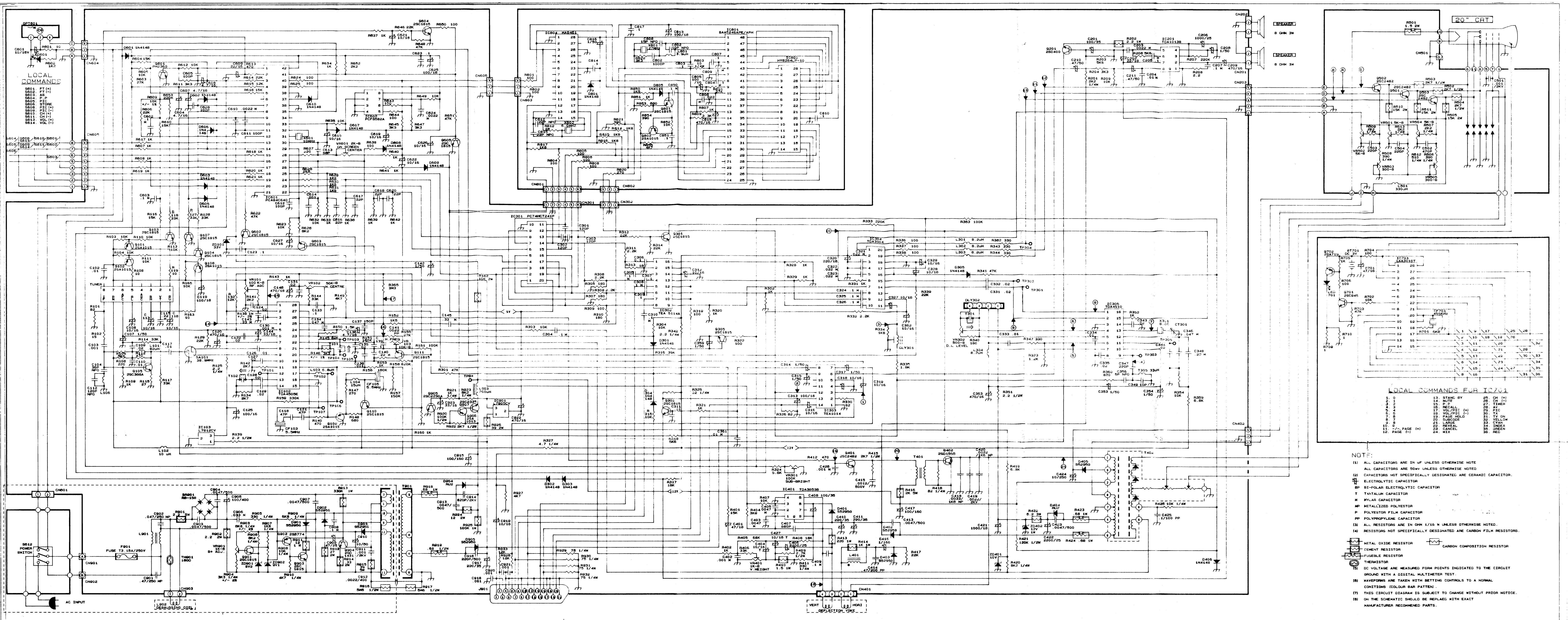
Page Number : 19

DESCRIPTION : P/BG W/SC OPTIONAL F.TXT SONY GREY 240V PHILIP IC SAA (40P)

Component Part	Description / Location	Unit Subs	Quantity Required	Unit Price	Amount
*** ASSEMBLY : 163-922174-ET-02 NON-COM PART FOR PACKING ASS'Y (BG)					
610-922001-75	GIFT BOX - TEAC DESIGN (240V)	0	1.00000	3.2731	3.2731
663-230835-94	SERIAL NO.LABEL - OC:GT-835/94 1 STUCK ON CTN,1 STUCK ON RATING LABEL	0	2.00000	.0071	.0142
670-922100-44	I/MANUAL - TEAC DESIGN	0	1.00000	.1442	.1442
678-881303-04	TOTAL CARE STICKER 1 {COLOUR} (HOTLINE)	0	1.00000	.0481	.0481
678-881303-05	TOTAL CARE STICKER 2 {BLACK & WHITE}	0	1.00000	.0154	.0154
678-922103-02	TELETEXT COMPLEMENT - TEAC DESIGN	0	1.00000	.1635	.1635
678-922103-03	INSTRUCTION MANUAL LABEL - "SUBPAGE BUTTON"	0	1.00000	.0192	.0192
678-922103-04	I/MANUAL LABEL (1)	0	1.00000	.0000	.0000
678-922103-05	I/MANUAL LABEL (2)	0	1.00000	.0000	.0000
678-922105-08	SCREEN STICKER -TEAC DESIGN	0	1.00000	.4673	.4673
690-922139-01	WARRANTY CARD- TEAC (A) DESIGN	0	1.00000	.0577	.0577
693-922100-11	EAN CODE LABEL - TEAC DESIGN	0	1.00000	.0077	.0077
800-922101-00	POLYFOAM - TOP LEFT	0	1.00000	.6150	.6150
800-922102-00	POLYFOAM - TOP RIGHT	0	1.00000	.6150	.6150
800-922103-00	POLYFOAM - BOTTOM LEFT	0	1.00000	.7034	.7034
800-922104-00	POLYFOAM - BOTTOM RIGHT	0	1.00000	.7034	.7034
810-040904-13	POLYBAG 4" X 9" X 0.04MM W/ RE-CYCLING MARK FOR HANDSET	0	1.00000	.0054	.0054
810-051104-13	POLYBAG 5" X 11" X 0.04 MM W/ RE-CYCLING MARK FOR AC LINE CORD	0	1.00000	.0085	.0085
810-091504-13	POLYBAG 9" X 15" X 0.04MM W/ RE-CYCLING MARK FOR INSTRUCTION MANUAL	0	1.00000	.0163	.0163
810-373704-14	POLYBAG 37"X37"X0.04MM W/PUNCHHOLE & RE-CYCLING MARK P/O MAT FO UNIT	0	1.00000	.1706	.1706
826-301605-00	FOAM SHEET 30" X 16" X 0.5MM THK. FOR TOP	0	1.00000	.0750	.0750
826-342005-00	FOAM SHEET - 34" X 20" X 0.5MM FOR BOTTOM	0	1.00000	.0923	.0923

ASSB PRICE : 7.2153

TOTALA PRICE : 221.4132



LOCAL COMMANDS FOR IR20A

1	0	13	STANC BY	20	CH (+)
2	1	14	10	21	CH (-)
3	2	15	11	22	CH (+)
4	3	16	12	23	CH (-)
5	4	17	13	24	CH (+)
6	5	18	14	25	CH (-)
7	6	19	15	26	CH (+)
8	7	20	16	27	CH (-)
9	8	21	17	28	CH (+)
10	9	22	18	29	CH (-)
11	0	23	19	30	CH (+)
12	1	24	20	31	CH (-)
13	2	25	21	32	CH (+)
14	3	26	22	33	CH (-)
15	4	27	23	34	CH (+)
16	5	28	24	35	CH (-)
17	6	29	25	36	CH (+)
18	7	30	26	37	CH (-)
19	8	31	27	38	CH (+)
20	9	32	28	39	CH (-)
21	0	33	29	40	CH (+)
22	1	34	30	41	CH (-)
23	2	35	31	42	CH (+)
24	3	36	32	43	CH (-)
25	4	37	33	44	CH (+)
26	5	38	34	45	CH (-)
27	6	39	35	46	CH (+)
28	7	40	36	47	CH (-)
29	8	41	37	48	CH (+)
30	9	42	38	49	CH (-)
31	0	43	39	50	CH (+)
32	1	44	40	51	CH (-)
33	2	45	41	52	CH (+)
34	3	46	42	53	CH (-)
35	4	47	43	54	CH (+)
36	5	48	44	55	CH (-)
37	6	49	45	56	CH (+)
38	7	50	46	57	CH (-)
39	8	51	47	58	CH (+)
40	9	52	48	59	CH (-)
41	0	53	49	60	CH (+)
42	1	54	50	61	CH (-)
43	2	55	51	62	CH (+)
44	3	56	52	63	CH (-)
45	4	57	53	64	CH (+)
46	5	58	54	65	CH (-)
47	6	59	55	66	CH (+)
48	7	60	56	67	CH (-)
49	8	61	57	68	CH (+)
50	9	62	58	69	CH (-)
51	0	63	59	70	CH (+)
52	1	64	60	71	CH (-)
53	2	65	61	72	CH (+)
54	3	66	62	73	CH (-)
55	4	67	63	74	CH (+)
56	5	68	64	75	CH (-)
57	6	69	65	76	CH (+)
58	7	70	66	77	CH (-)
59	8	71	67	78	CH (+)
60	9	72	68	79	CH (-)
61	0	73	69	80	CH (+)
62	1	74	70	81	CH (-)
63	2	75	71	82	CH (+)
64	3	76	72	83	CH (-)
65	4	77	73	84	CH (+)
66	5	78	74	85	CH (-)
67	6	79	75	86	CH (+)
68	7	80	76	87	CH (-)
69	8	81	77	88	CH (+)
70	9	82	78	89	CH (-)
71	0	83	79	90	CH (+)
72	1	84	80	91	CH (-)
73	2	85	81	92	CH (+)
74	3	86	82	93	CH (-)
75	4	87	83	94	CH (+)
76	5	88	84	95	CH (-)
77	6	89	85	96	CH (+)
78	7	90	86	97	CH (-)
79	8	91	87	98	CH (+)
80	9	92	88	99	CH (-)
81	0	93	89	100	CH (+)
82	1	94	90	101	CH (-)
83	2	95	91	102	CH (+)
84	3	96	92	103	CH (-)
85	4	97	93	104	CH (+)
86	5	98	94	105	CH (-)
87	6	99	95	106	CH (+)
88	7	100	96	107	CH (-)
89	8	101	97	108	CH (+)
90	9	102	98	109	CH (-)
91	0	103	99	110	CH (+)
92	1	104	100	111	CH (-)
93	2	105	101	112	CH (+)
94	3	106	102	113	CH (-)
95	4	107	103	114	CH (+)
96	5	108	104	115	CH (-)
97	6	109	105	116	CH (+)
98	7	110	106	117	CH (-)
99	8	111	107	118	CH (+)
100	9	112	108	119	CH (-)
101	0	113	109	120	CH (+)
102	1	114	110	121	CH (-)
103	2	115	111	122	CH (+)
104	3	116	112	123	CH (-)
105	4	117	113	124	CH (+)
106	5	118	114	125	CH (-)
107	6	119	115	126	CH (+)
108	7	120	116	127	CH (-)
109	8	121	117	128	CH (+)
110	9	122	118	129	CH (-)
111	0	123	119	130	CH (+)
112	1	124	120	131	CH (-)
113	2	125	121	132	CH (+)
114	3	126	122	133	CH (-)
115	4	127	123	134	CH (+)
116	5	128	124	135	CH (-)
117	6	129	125	136	CH (+)
118	7	130	126	137	CH (-)
119	8	131	127	138	CH (+)
120	9	132	128	139	CH (-)
121	0	133	129	140	CH (+)
122	1	134	130	141	CH (-)
123	2	135	131	142	CH (+)
124	3	136	132	143	CH (-)
125	4	137	133	144	CH (+)
126	5	138	134	145	CH (-)
127	6	139	135	146	CH (+)
128	7	140	136	147	CH (-)
129	8	141	137	148	CH (+)
130	9	142	138	149	CH (-)
131	0	143	139	150	CH (+)
132	1	144	140	151	CH (-)
133	2	145	141	152	CH (+)
134	3	146	142	153	CH (-)
135	4	147	143	154	CH (+)
136	5	148	144	155	CH (-)
137	6	149	145	156	CH (+)
138	7	150	146	157	CH (-)
139	8	151	147	158	CH (+)
140	9	152	148	159	CH (-)
141	0	153	149	160	CH (+)
142	1	154	150	161	CH (-)
143	2	155	151	162	CH (+)
144	3	156	152	163	CH (-)
145	4	157	153	164	CH (+)
146	5	158	154	165	CH (-)
147	6	159	155	166	CH (+)
148	7	160	156	167	CH (-)
149	8	161	157	168	CH (+)
150	9	162	158	169	CH (-)
151	0	163	159	170	CH (+)
152	1	164	160	171	CH (-)
153	2	165	161	172	CH (+)
154	3	166	162	173	CH (-)
155	4	167	163	174	CH (+)
156	5	168	164	175	CH (-)
157	6	169	165	176	CH (+)
158	7	170	166	177	CH (-)
159	8	171	167	178	CH (+)
160	9	172	168	179	CH (-)
161	0	173	169	180	CH (+)
162	1	174	170	181	CH (-)
163	2	175	171	182	CH (+)
164	3	176	172	183	CH (-)
165	4	177	173	184	CH (+)
166	5	178	174	185	CH (-)
167	6	179	175	186	CH (+)
168	7	180	176	187	CH (-)
169	8	181	177	188	CH (+)
170	9	182	178	189	CH (-)
171	0	183	179	190	CH (+)
172	1	184	180	191	CH (-)
173	2	185	181	192	CH (+)
174	3	186	182	193	CH (-)
175	4	187	183	194	CH (+)
176	5	188	184	195	CH (-)
177	6	189	185	196	CH (+)
178	7	190	186	197	CH (-)
179	8	191	187	198	CH (+)
180	9	192	188	199	CH (-)
181	0	193	189	200	CH (+)
182	1	194	190	201	CH (-)
183	2	195	191	202	CH (+)
184	3	196	192	203	CH (-)
185	4	197	193	204	CH (+)
186	5	198	194	205	CH (-)
187	6	199	195	206	CH (+)
188	7	200	196	207	CH (-)
189	8	201	197	208	CH (+)
190	9	202	198	209	CH (-)
191	0	203	199	210	CH (+)
192	1	204	200	211	CH (-)
193	2	205	201	212	CH (+)
194	3	206	202	213	CH (-)
195	4	207	203	214	CH (+)
196	5	208	204	215	CH (-)
197	6				