SHARP 66AS-05H

General Information

4BS-C Chassis

Matrix		
Item	See Model	Book
Remote Control Unit	Sharp 66AS-06H	5

Recommended Safety Parts

Item	Part No.	Descr	iption		
V1	VB66EAK7111*N	ODT 74	(00 in th)	with Deflection Value Busits Managet and Wedges	
L1702	CCiLG0304WEV1	CRT 71 cm (28 inch) with Deflection Yoke Purity Magnet and Wedges Degaussing (ADG) Coil			
	MSPRT0001CEFJ	CRT Spring			
TU200 IC700	VTUATEKB7-022 RH-iX1487BMZZ	Tuner, UHF Regulating	Pulse Wid	th Modulator	
IC701,702	RH-FX0101BMZZ	Photo Coup			
Q700 Q701	VS2SD1546//2E VS2SC2412KQ-1	2SD1546 2SC2412			
Q702	VS2SC2412KQ-1 VS2SA1037KQ-1	2SC2412 2SA1037		RTV servis Horvat	
D701	RH-DX0299BMZZ	BY228		Tel: ++385-31-856-637	
D703 D704	RH-EX0478BMZZ RH-EX0423BMZZ	Zener Diod Zener Diod	e, 4.7V ⊳ 20V	Tel/fax: ++385-31-856-139	
D705	RH-DX0045BMZZ	1N4148	5,201		
D706	RH-DX0511BMZZ	1N4935		Mob: 098-788-319	
D707 D708	RH-DX0045BMZZ RH-EX0477BMZZ	1N4148 Zener Diod	в	www.rtv-horvat-dj.hr	
D709	RH-DX0045BMZZ	1N4148			
D712 D713	RH-DX0502BMZZ VHDDAN202K/-1	1N4005 DAN202K			
L700	VP-CF3R3K0000	Coil, 3.3µH			
L701	VP-CF1R0M0000 RTRNF2021 BMZZ	Coil, 1µH	(
T600 T700	RTRNZ0519BMZZ	FlybackTra Switching N			
C702	RC-EZ0109BMZZ	330	385V	Electrolytic	
C703 C704	VCEAGA1EW337M RC-FZ9103BMNJ	330 0.01	25V 63V	Electrolytic Mylar	
C705	RC-FZ9222BMNJ	2200p	63V	Mylar	
C706	RC-KZ0036CEZZ	330p	2kV	Ceramic	
C707 C708	RC-FZ9104BMNJ RC-FZ9102BMNJ	0.1 1000p	63V 63V	Mylar Mylar	
C709	VCKYPA2HB102K	1000p	500V	Ceramic	
C710	RC-FZ9104BMNJ	0.1	63V	Mylar	
C711 C712	VCFPPD3CA472H VCEAGA1HW107M	4700p 100	1.6kV 50V	Polypro Film Electrolytic	
C714	VCEAGA1HW475M	4.7	50V	Electrolytic	
C715 C749	VCEAGA0JW107M RC-KZ0156CEZZ	100 3300p	6.3V 4kV	Electrolytic Ceramic	
R200,R202	RR-XZ0212BMZZ	10	1/2W	Fuse Resistor	
R310,R311	RR-XZ0208BMZZ	4.7	1/2W	Fuse Resistor	
R363 R413	RR-XZ0112BMZZ RR-XZ0212BMZZ	10 10	1/3W 1/2W	Fuse Resistor Fuse Resistor	
R475	RR-XZ0112BMZZ	10	1/3W	Fuse Resistor	
R503 R611	RR-XZ0200BMZZ RR-XZ0204BMZZ	1 1/2W 2.2	Fuse Res 1/2W	sistor Fuse Resistor	
R615	RR-XZ0200BMZZ	1 1/2W	Fuse Res	sistor	
R620	RR-XZ0219BMZZ	39 1 1/2W	1/2W	Fuse Resistor	
R626,R631 R701	RR-XZ0200BMZZ VRS-TV1JD123J	1 1/2 vv 12k	Fuse Res 1/10W	Metal Oxide	
R702	VRD-RA2BE562J	5.6k	1/8W	Carbon	
R705 R706	VRD-RA2EE474J VRS-TV1JD392J	470k 3.9k	1/4W 1/10W	Carbon Metal Oxide	
R707	VRD-RA2HD271J	270	1/2W	Carbon	
R708 R710	VRD-RA2HD102J VRS-VV3DB104J	1k 100k	1/2W 2W	Carbon Metal Oxide	
R710	VRS-VV3DB473J	47k	2W	Metal Oxide	
R712	VRS-VV3DB120J	12	2W	Metal Oxide	
R714 R715	VRD-RA2BE102J VRN-VV3DBR56J	1k 0.56	1/8W 2W	Carbon Metal Film	
R716	VRS-TV1JD101J	100	1/10W	Metal Oxide	
R718,R719 R720	VRS-TV1JD472J VRS-TV1JD223J	4.7k 22k	1/10W 1/10W	Metal Oxide Metal Oxide	
R720	VRD-RA2HD273J	27k	1/2W	Carbon	
R722	VRS-TV1JD103J	10k	1/10W	Metal Oxide	
R723 R724	VRS-TV1JD102J VRD-RA2HD101J	1k 100	1/10W 1/2W	Metal Oxide Carbon	
R725	VRN-VV3DBR56J	0.56	2W	Metal Film	
R729,R730 R801	VRC-UA2HG825K RR-XZ0108BMZZ	8.2M 4.7 1/3W Fi	1/2W	Solid	
R806,R839,R844	RR-XZ0108BMZZ	10 1/3W Fu	se Resisto	or	
F751	QFS-J2521GEZZ	IC Protecto	r		
F753 FB700,FB751,FB752	QFS-J4021GEZZ RBI N-0037CEZZ	IC Protecto Ferrite Bea			
P700	QPLGN0304CEZZ	Plug, 3-pin	(B)		
R1872 R1873	VRG-RL2HB221J RR-XZ0017CEZZ	220 1/2W F 10 1/2W Fu	use Resis	stor	
Z1801	QSOCV0919CEZZ	CRT Socke	t resisi	51	
D1700,D1701,D1702,D1703	RH-DX0240CEZZ	DX0240CE			
VA1700 PR1700	RH-VX0033CEZZ RMPTP0028CEZZ	Varistor Positive Co	efficient T	bemistor	
L1700	RCiLF0108BMZZ	Line Filter			
C1700 C1701,C1703,C1704	RC-FZ0145BMZZ RC-KZ0029CEZZ	0.1 0.01	AC300V AC250V	Mylar	
C1705,C1706	RC-KZ0029CEZZ	0.01	AC250V	Ceramic	
R1700	VRW-KQ41C4R7K	4.7 15W	Cement		
F1700 P1700	QFS-C2050BMZZ QPLGN0304CEZZ	Fuse,T2AH Plug, 3-pin	(A)		
P1701	QPLGN0207CEZZ	Plug, 2-pin	(G)		
P1702 S1700	QPLGN0304CEZZ QSW-P0566CEZZ	Plug, 3-pin Main Power	(B)		
R3439,R3461	RR-XZ0116BMZZ	22 1/3W Fu	se Resisto	or	
ACC701	CACCB5002BMV0	AC Cord As	isy		

Service Adjustments

Important Service Notes

Maintenance and repair of this receiver should be done by qualified personnel only.

Servicing of High Voltage System and Picture Tube

When servicing the high voltage system, remove static charge from it by connecting a 10 k W Resistor in series with an insulated wire (such as a test probe) between picture tube ground tag and high voltage lead. (AC line cord should be disconnected from AC outlet.)

1: Picture tube in this receiver employs integral implosion protection. 2: Replace with tube of the same type number for continued safety. 3: Do not lift picture tube by the neck. 4: Handle the picture tube only when wearing

shatterproof goggles and after discharging the high voltage completely.

X-Ray

This receiver is designed so that any X-Ray radiation is kept to an absolute minimum. Since certain malfunctions or servicing may produce potentially hazardous radiation with prolonged exposure at close range, the following precautions should be observed: 1: When repairing the circuit, be sure not to increase the high voltage to more than 30.0 ky. (at beam 1000uA) for the set. 2: To keep the set in a normal operation, be sure to make it function on 25.7 kv \pm 1.5 kv (at beam 1300 µA) in the case of the set. The set

has been factory - Adjusted to the abovementioned high voltage. If there is a possibility that the high voltage fluctuates as a result of the repairs, never forget to check for such high voltage after the work.

3: Do not substitute a picture tube with unauthorised types and/or brands which may cause excess X-ray radiation.

Before Returning The Receiver

Before returning the receiver to the user. perform the following safety checks.

1: Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver. 2: Inspect all protective devices such as nonmetallic control knobs, insulating fish papers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators etc.

PIF/SIF/AGC/G2 Adjustment

1: Trap adjustment

Adjusting Point T1201: Trap Coil (Adj.-P Trap)

T1200:Trap Coil (Adj.-S Trap)

1: Connect sweep generator output to IF in (FA (1)). 2: Connect response cable with detector to collector line of Q1200 (See fig.1)

3: Adjust T1200 (Adj.-S Trap) and T1201 (Adj.-P

To Collector of 01200

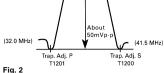
Safety Parts / Service Adjustments / Nicam Diagram / Scart Diagram / Text Diagram / IF Diagram / CRT Control Diagram / CRT Socket Diagram / Main Diagram

GND

To Oscilloscope	0A90	1000 pF
4 ^{7kΩ} ≥ Ţ Fig. 1	1000 p >	

```
MHz), (See fig. 2)
```

Trap) so that traps are (41.5 MHz) and (32.0



2: VCO Adjustment

```
Adjusting Point
T1202: VCO Adjust Coil
1: Feed the following signal to pin (1) of
```

connector (FA) in IF unit. Frequency: 39.5 MHz (CW) ± 5 kHz Level approx. 85 dB 2: Adjust T1202 so that voltage at pin (7) (AFT output) of connector (FA) in IF unit is 2.5 ± 0.2v

3: RF AGC Adjustment

Adjusting Point

R1216: RF AGC Control

- 1: Receive "COLOUR BAR" signal. 2: Connect DC voltmeter to Test Point TP1200
- (REAGC) 3: Set AGC control (R1216) to maximum
- position (memory). 4: Adjust R1216 to obtain voltage of 0.1v below
- maximum voltage (step 3).

4: G2 Adjustment

1: Receive "MONOSCOPE PATTERN" signal. 2: Connect DC voltmeter with Test probe attenuator ([] 1000) to HH1 Test point on PWB-C. 3: Adjust G2 to obtain 730v on HH1.

Service Mode Function

This mode function is provided to assist with the settings of those adjustments that may vary from one Picture Tube to another, or between models. In order to use the Service Mode 1: Connect Test Pattern signal to antenna

terminal 2: Press main switch to off 3: Press ▼⊿ and CH▲ buttons and main switch

to on simultaneously Service mode is now entered

The required adjustments can then be made from the Remote Control Unit.

The only buttons required are the following: ▲ CH ▼ for movement in adjustment options menu: A Z V are used to carry out an adjustment in said menu; ON/OFF is used to memorise a new adjustment.

Adjustment menu is as follows:

- SERVICE SOFTWARE
— CROMA-LUNA DELAY
— VERT. SHIFT
— HOR. SHIFT
— E-W WIDTH
— E-W PALABOLA
— E-W CORNER
— E-W TRAPEZOID
- VERT. SLOPE
— VERT. AMPLITUDE
- S-CORRECTION
— RED REFERENCE
— GREEN REFERENCE
— BLUE REFERENCE

- ALTER NVM POS. - ALTER NVM VAL. - AUTO INSTALLATION

To exit service mode, press main switch to off.

Adjustment Note The procedure for making adjustments to Vertical Corrections is as follows:

- Adjust S-CORRECTION - Adjust VERT SHIFT - Adjust VERT, AMPLITUDE
- Geometry Adjustment Procedure

Chroma-Luma Delay

a: Receive Philips pattern signal. b: When volume-up button is pressed, luma phase delavs. c: When volume-down button is pressed. chroma phase delays. d: Adjust the Chroma-Luma delay.

Vert. Shift

- a: Receive Philips pattern signal. b: When volume-down button is pressed, picture
- moves up. c: When volume-up button is pressed, picture
- moves down. d: Adjust the Vertical location to obtain picture
- centring (fig. 3).

Hor. Shift

- a: Receive Philips pattern signal.
- b: When volume-up button is pressed, picture
- moves to the left c: When volume-down button is pressed, picture
- moves to the right. d: Adjust the horizontal location to obtain picture centring (fig. 4).

F-W Width

- a: Receive Philips pattern signal. b: When volume-up button is pressed, horizon-
- tal scanning increases. c: When volume-down button is pressed,
- horizontal scanning decreases d: Adjust the horizontal amplitude to obtain 9%

overscan (fig. 5).

E-W Parabola a: Receive Philips pattern signal. b: When volume-up button is pressed, slide pincushion changes from pincushion to barrel shape c: When volume-down button is pressed, slide pincushion changes from barrel to pincushion . shape d: Adjust the E-W PARABOLA to obtain condition as in fig. 6. E-W Corner a: Receive Philips pattern signal.

- b: When volume-down button is pressed, slide pincushion changes from pincushion to barrel shape c: When volume-up button is pressed, slide pincushion changes from barrel to pincushion shape. d: Adjust the E-W CORNER to obtain condition
- as in fig. 7.

E-W Trapezoid

- a: Receive Philips pattern signal. b: When volume-up button is pressed, slide
- pincushion changes.
- c: When volume-down button is pressed, slide
- pincushion changes d: Adjust the E-W TRAPEZOID to obtain
- condition as in fig. 8.

Vert. Amplitude

a: Receive Philips pattern signal. b: When volume-up button is pressed, vertical

size of nicture increases

- c: When volume-down button is pressed vertical size of picture decreases.
- d: Adjust the vertical size to obtain overscan as in fig. 9.

S-Correction

- a: Receive Philips pattern signal. b: When volume-up button is pressed, upper
- and lower scanning decreases, and centre scanning increases
- c: When volume-down button is pressed, upper and lower scanning increases and centre scanning decreases
- d: Adjust the S-correction to obtain a balance between upper, lower and centre (fig. 10).

The following adjustments are only required

when the Picture Tube is changed.

Red Reference/Green Reference/Blue Reference

a: Adjust G2.

b: Tune in white card.

- c: Adjust colour to minimum.
- d: Position colourmeter in centre of screen.
- e: Using brightness and contrast buttons. select a luminance of ≈ 120 NITS.
- Operate again in Service Mode and select location RED REFERENCE/GREEN REFER-ENCE/BLUE REFERENCE to obtain colour co-ordinates:

 $X = 0.290 \pm 0.0015$ Y = 0.284 + 0.015

and 'Y' co-ordinates.

XX---> Storage location

XX---> Storage location

XX---> Assigned value

XX---> Assigned value

Alter NVM POS

Alter NVM VAL

Assigned Value

Location

Note:

g: Exit Service Mode and check colour coordinates 'X' and 'Y' at 20 and 120-NITS. It may be necessary to repeat procedure.

co-ordinate; GREEN REFERENCE alter the 'Y'

co-ordinates; BLUE REFERENCE alter the 'X'

When **V** A buttons are pressed, alter Storage

When **V** A buttons are pressed, alter

Fia. 4

Fia 8

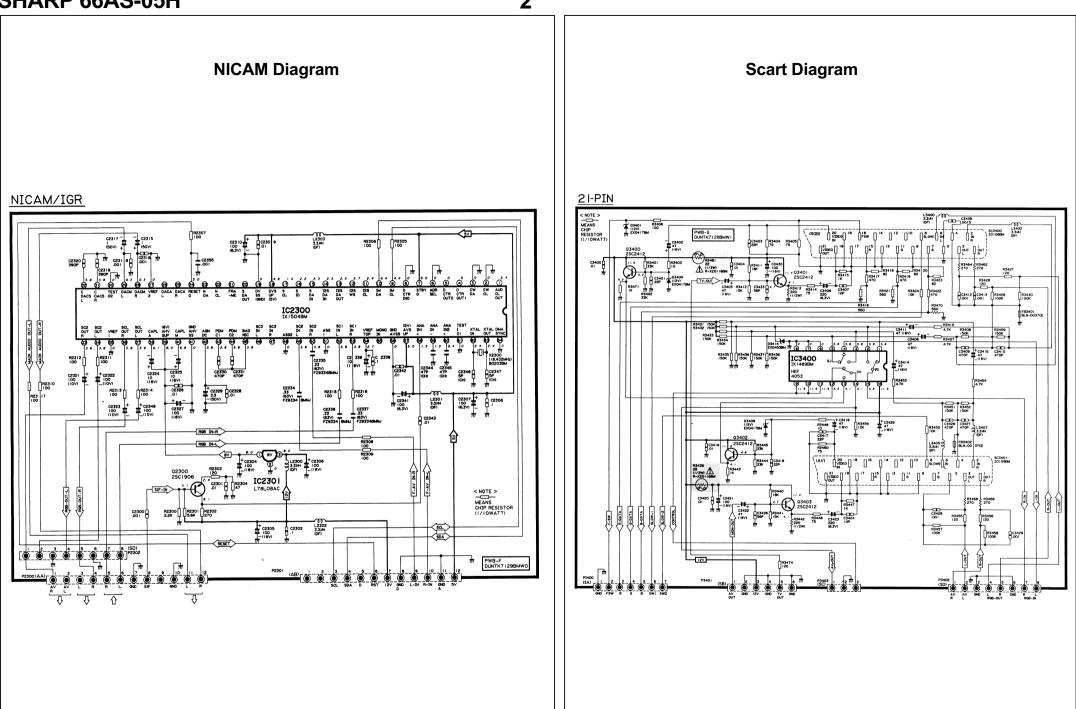
Fig. 9

Fig.10

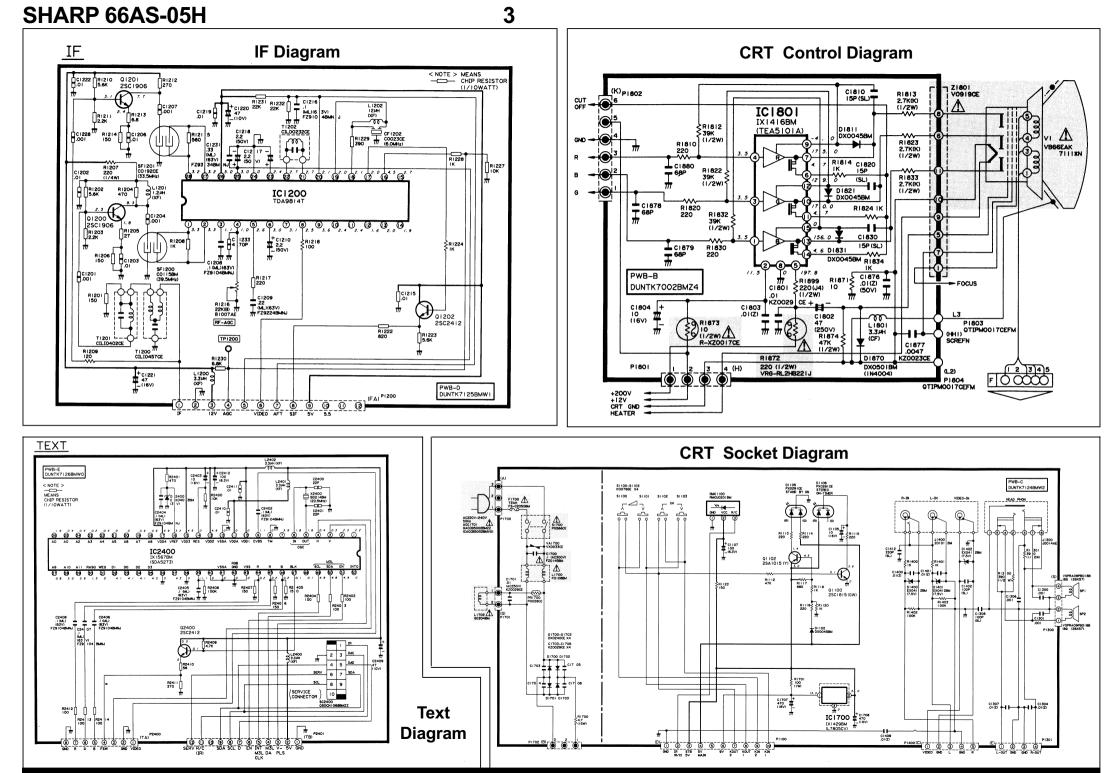
Locations: RED REFERENCE alter 'X'

SHARP 66AS-05H

2

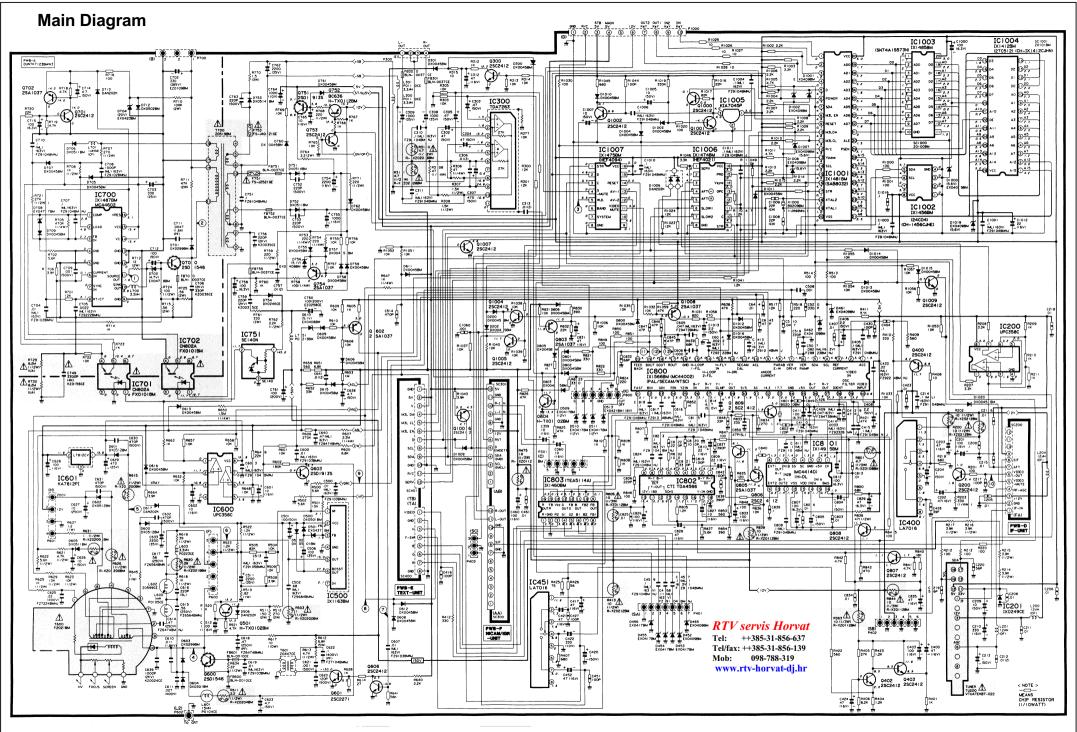


Safety Parts / Service Adjustments / Nicam Diagram / Scart Diagram / Text Diagram / IF Diagram / CRT Control Diagram / CRT Socket Diagram / Main Diagram



Safety Parts / Service Adjustments / Nicam Diagram / Scart Diagram / Text Diagram / IF Diagram / CRT Control Diagram / CRT Socket Diagram / Main Diagram

SHARP 66AS-05H



4

Safety Parts / Service Adjustments / Nicam Diagram / Scart Diagram / Text Diagram / IF Diagram / CRT Control Diagram / CRT Socket Diagram / Main Diagram