COLOR TELEVISION

SERVICE MANUAL

CHASSIS: - VE01 MODEL NO: - 1450KT, 2050KT, 2150KT



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SAFETY PRECAUTIONS

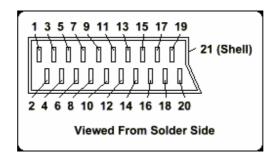
- Do not change any module unless the set is switched off.
- The mains supply side of the SMPS transformer is live. Use an isolating transformer
- Servicing of the CTV set should only be carried out by qualified person.
- Components marked with warning symbol on circuit diagram are critical for safety and must only be replaced with an identical component
- Power resistor and fusable resistors must be mounted in an identical manner to the original component.
- Discharge the capacitors like Main Filter when working on these.
- Do not solder when the set is on.
- Do not connect any external device like Speakers etc. when the set is on.
- When any signals are to be connected/ disconnected switch off the set.
- Wear rubber shoes/non-conducting so that your body does not become a passage for electric current.

INTRODUCTION:-

VE01 chassis is capable of driving 14", 20", 21", 21"PF tubes at appropriate currents. This chassis is capable of working in the PAL / SECAM / NTSC systems. The sound system is capable of giving 1.5W r.m.s. output into a load 8E speaker. One page simple TELETEXT, TOPTEXT and FASTEXT is provided. The chassis is equipped with 21 pin scart connector which can accept via scart the SVHS format from VCRs.

The details of various sections with IC details and pin voltages are covered in this manual. The alignment procedure in field and also at manufacturing line is also covered in detail. The block diagram, circuit diagram and track side layout of VE01 chassis is also attached in this manual for easy reference.

1. PERI- TV SOCKET (SCART)



PIN DETAILS OF SCART

Pin	Name	Description	Signal Level	Impedance
1	AOR	Audio Out Right	0.5 V rms	<1k ohm
2	AIR	Audio In Right	0.5 V rms	>10k ohm
3	AOL	Audio Out Left + Mono	0.5 V rms	<1k ohm
4	AGND	Audio Ground		
5	B GND	RGB Blue Ground		
6	AIL	Audio In Left + Mono	0.5 V rms	>10k ohm
7	В	RGB Blue In	0.7 V	75 ohm
8	SWTCH	Audio/RGB switch / 16:9	0-2 V=TV, 5-8 V=WideScreen, 9.5-12 V=AV Mode	>10 kohm
9	G GND	RGB Green Ground		
10	CLKOUT	Data 2: Clockpulse Out	Unavailable	
11	G	RGB Green In	0.7 V	75 ohm
12	DATA	Data 1: Data Out	Unavailable	
13	R GND	RGB Red Ground		
14	DATAGND	Data Ground		
15	R	RGB Red In / Chrominance	0.7 V (Chroma.: 0.3 V burst)	75 ohm
16	BLNK	Blanking Signal	1-3 V=RGB, 0-0.4 V=Composite	75 ohm
17	VGND	Composite Video Ground		
18	BLNKGND	Blanking Signal Ground		
19	VOUT	Composite Video Out	1 V	75 ohm
20	VIN	Composite Video In / Luminance	1 V	75 ohm
21	SHIELD	Ground/Shield (Chassis)		

2. MICRO CONTROLLER AND SMALL SIGNAL FUNCTION WITH TDA 9351:- This IC is a combination of microcontroller and chroma (Small Signal function). This IC performs all important functions in TV receiver. The details of IC are bifurcated in two parts. Small Signal function and microcontroller

2A:- SMALL SIGNAL FUNCTION:

2A.1: VISION IF AMPLIFIER: The vision IF amplifier can demodulate signals with positive and negative modulation. The PLL demodulator is completely alignment-free. The VCO of the PLL circuit is internal, and the frequency is fixed to the required value by using the clock frequency of the Controller/ Teletext decoder as a reference. The setting of the various frequencies (38, 38.9, 45.75 and 58.75 MHz) can be made via the control bits IFA-IFC in sub address 27H. Because of the internal VCO, the IF circuit has a high immunity to EMC interferences.

2A.2: VIDEO SWITCHES: The video switch has one input for an external CVBS or Y/C signal. The selected CVBS signal can be supplied to pin 38, the IF video output. The selection between both signals is realized by means of the SVO bit in sub address 22H. The video ident circuit can be connected to the incoming 'internal' video signal or to the selected signal. This ident circuit is independent of the synchronisation and can be used to switch the time-constant of the horizontal PLL depending on the presence of a video signal (via the VID bit). Because of the availability of the Y/C input and the subcarrier output an external comb-filter can be applied. In that case an external video switch (or comb-filter with integrated switch) must be used. The subcarrier output is combined with a 3-level output switch (0 V, 4 V and 8 V). The output level and the availability of the subcarrier signal is controlled by the CMB1 and CMB0 bits. The output can be used to switch sound traps etc.

2A.3: SOUND CIRCUIT (QSS VERSION)

The sound IF amplifier is similar to the vision IF amplifier and has an external AGC decoupling capacitor. The single reference QSS mixer is realised by a multiplier. In this multiplier the SIF signal is converted to the intercarrier frequency by mixing it with the regenerated picture carrier from the VCO. The mixer output signal is supplied to the output via a high-pass filter for

attenuation of the residual video signals. With this system a high performance hi-fi stereo sound processing can be achieved. The AM sound demodulator is realised by a multiplier. The modulated sound IF signal is multiplied in phase with the limited SIF signal. The demodulator output signal is supplied to the output via a low-pass filter for attenuation of the carrier harmonics. The AM signal is supplied to the output (pin 44) via the volume control. It is possible to get the AM output signal (not controlled on amplitude) on the QSS intercarrier output. The selection is made by means of the AM bit in subaddress 29H. Another possibility is that pin 35 is transferred to external audio input pin and pin 32 to (non-controlled) AM output pin. This can be realised by means of the setting the control bits CMB0 and CMB1 in subaddress 22H.

2A.4: FM DEMODULATOR AND AUDIO AMPLIFIER (MONO VERSIONS):- The FM demodulator is realised as narrow-band PLL with external loop filter, which provides the necessary selectivity without using an external band-pass filter. To obtain a good selectivity a linear phase detector and constant input signal amplitude are required. For this reason the intercarrier signal is internally supplied to the demodulator via a gain controlled amplifier and AGC circuit. The nominal frequency of the demodulator is tuned to the required frequency (4.5/5.5/6.0/6.5 MHz) by means of a calibration circuit which uses the clock frequency of the Controller/Teletext decoder as a reference. The setting to the wanted frequency is realised by means of the control bits FMA and FMB in control byte 29H. When required an external sound band-pass filter can be inserted in front of the narrow-band PLL. In that case pin 32 has to be switched to sound IF input by means of the bits SIF (subaddress 21H) and CMB0/CMB1 (subaddress 22H). When the sound IF input is selected the subcarrier output or AVL function are not available. From the output status bytes it can be read whether the PLL frequency is inside or outside the window and whether the PLL is in lock or not. With this information it is possible to make an automatic search system for the incoming sound frequency. This can be realised by means of a software loop which switches the demodulator to the various frequencies and then select the frequency on which a lock condition has been found. The deemphasis output signal amplitude is independent of the TV standard and has the same value for a frequency deviation of 25 kHz at the 4.5 MHz standard and for a deviation of 50 Khz for the other standards. The audio control circuit contains an audio switch and volume control. In the mono intercarrier sound versions, the Automatic Volume Levelling (AVL) function can be activated. The pin to which the external capacitor has to be connected depends on the IC version. For the 90 degree types the capacitor is connected to the EW output pin (pin 20). For

the 110 degree types a choice must be made between the AVL function and a sub-carrier output for comb filter applications. This choice is made via the CBM0 and CMB1bits (in subaddress 22H). When the AVL is active it automatically stabilises the audio output signal to a certain level. The signal on the deemphasis pin (28) can be supplied to the SCART connector via a buffer stage. It is also possible to use this pin as additional audio input. In that case the internal signal must, of course, be switched off. This can be realised by means of the sound mute bit (SM in subaddress 29H). When the IF circuit is switched to positive modulation the internal signal on the deemphasis pin is automatically muted. The audio switch is controlled by means of the INA/INB bits in subaddress 22H. It is, however, also possible to overrule the audio switch position by means of the ADS and ADX bits (subaddresses 28H and 21H respectively).

2A.5: SYNCHRONISATION CIRCUIT :- The IC contains separator circuits for the horizontal and vertical sync pulses and a data-slicing circuit which extracts the digital teletext data from the analog signal. The horizontal drive signal is obtained from an internal VCO which is running at a frequency of 25 MHz. This oscillator is stabilised to this frequency by using a 12 MHz signal coming from the reference oscillator of the micro controller/Teletext decoder. The horizontal drive is switched on and off via the soft start/stop procedure. This function is realised by means of variation of the T ON of the horizontal drive pulses. In addition the horizontal drive circuit has a 'low-power start-up' function. The vertical synchronisation is realised by means of a divider circuit. The vertical ramp generator needs an external resistor and capacitor. For the vertical output stage. In the types which are intended for 90 degree picture tubes the following geometry parameters can be adjusted:

- Horizontal shift
- Vertical amplitude
- Vertical slope
- S-correction
- Vertical shift

The types which are intended to be used in combination with 110 degree picture tubes have an East-West control circuit in stead of the AVL function.

The additional controls for these types are:

- EW width
- EW parabola width
- EW upper and lower corner parabola correction
- EW trapezium correction
- Vertical zoom

2A.6: CHROMA AND LUMINANCE PROCESSING: - The chroma band-pass and trap circuits (including the SECAM cloche filter) are realised by means of gyrators and are tuned to the right frequency by comparing the tuning frequency with the reference frequency of the colour decoder. The luminance delay line and the delay cells for the peaking circuit are also realised with gyrators. The circuit contains a black stretcher function which corrects the black level for incoming signals which have a difference between the black level and the blanking level.

2A.7: COLOUR DECODER :- The IC can decode PAL, NTSC and SECAM signals. The PAL/NTSC decoder does not need external reference crystals but has an internal clock generator which is stabilised to the required frequency by using the 12 MHz clock signal from the reference oscillator of the micro controller/Teletext decoder. Under bad-signal conditions (e.g. VCR-playback in feature mode), it may occur that the colour killer is activated although the colour PLL is still in lock. When this killing action is not wanted it is possible to overrule the colour killer by forcing the colour decoder to the required standard and to activate the FCO-bit (Forced Colour On) in subaddress 21H. The Automatic Colour Limiting (ACL) circuit (switchable via the ACL bit in subaddress 20H) prevents that over saturation occurs when signals with a high chroma-to-burst ratio are received. The ACL circuit is designed such that it only reduces the chroma signal and not the burst signal. This has the advantage that the colour sensitivity is not affected by this function. The SECAM decoder contains an auto-calibrating PLL demodulator which has two references, viz: the divided 12 MHz reference frequency (obtained from the microcontroller) which is used to tune the PLL to the desired free-running frequency and the bandgap reference to obtain the correct absolute value of the output signal. The VCO of the PLL is calibrated during each vertical blanking period, when the IC is in search or SECAM mode. The base-band delay line (TDA 4665 function) is integrated. This delay line

is also active during NTSC to obtain a good suppression of cross colour effects. The demodulated colour difference signals are internally supplied to the delay line.

2A.8: RGB OUTPUT CIRCUIT AND BLACK-CURRENT STABILIZATION : In the RGB control circuit the signal is controlled on contrast, brightness and saturation. The ICs have a linear input for external RGB signals. It is possible to use this input for the insertion of YUV signals. Switching between RGB and YUV can be realised via the YUV-bit in subaddress 2BH. The signals for OSD and text are internally supplied to the control circuit. The output signal has an amplitude of about 2 Volts black-to-white at nominal input signals and nominal settings of the various controls. To obtain an accurate biasing of the picture tube the 'Continuous Cathode Calibration' system has been included in these ICs. A black level offset can be made with respect to the level which is generated by the black current stabilization system. In this way different colour temperatures can be obtained for the bright and the dark part of the picture. The black current stabilization system checks the output level of the 3 channels and indicates whether the black level of the highest output is in a certain window (WBC-bit) or below or above this window (HBC-bit). This indication can be read from the status byte 01 and can be used for automatic adjustment of the Vg2 voltage during the production of the TV receiver. During switch-off of the TV receiver a fixed beam current is generated by the black current control circuit. This current ensures that the picture tube capacitance is discharged. During the switch-off period the vertical deflection is placed in an overscan position so that the discharge is not visible on the screen.

<u>2B. - MICROCONTROLLER WITH TELETEX DECODER: -</u> The integrated teletex decoder with embedded microcontroller is a control system designed for TV sets with analogue picture and sound control. The system also offers an on screen display (OSD) and IR remote control of all functions.

<u>**3. TUNER:**</u> GDC Tuner EWT 5F3T1 is controlled by I2C bus through IC TDA 9361.The tuning is based on frequency synthesis tunning.

CHANNEL COVERAGE :

BAND	OFF AIR CHANELS	
	CHANEL RANGE FREQUENCY	
		(IN MHZ)
LOW BAND	E2- S9	48.25 – 161.25
MID BAND	S10 – S41	168.25 – 463.25
HIGH BAND	E21 – E69	471.25 – 855.25

<u>4. VIDEO SWITCH BU 4052</u>: The HEF4052 is a dual four channel analog multiplexer. The main function of this device is to accept an AV input from SCART, external AV and switch the required output at pin no Z which is applied to small signal processing IC.

<u>5. SOUND PROCESSOR</u>: TDA 9859 is designed to perform demodulation of FM TV sound. The TDA 9859 selects signal from Three Stereo Sources or Six Mono Sources and out put can be given to scart. The sound processor is I2C bus controlled and all settings of bus are stored in sub address register.

<u>6. SOUND OUTPUT</u>: - IC AN17821 is used as the AF out amplifier for the Stereo application. It is supplied by 13 volts from the 13 volt DC coming from a separate winding in the SMPS transformer. An out power of 1.5 Watt can be delivered into an 8 Ohm Load. This IC is also having a feature of auto volume controller. Similarly stand by signal coming from microcontroller is used to disable the sound out put from speaker.

<u>7. VERTICLE OUTPUT STAGE</u>:- The STV 9302 is a vertical deflection circuit can be used for 90 degree and 110 degree deflection systems. One supply voltage for the scan is required. The drive voltage is amplified by an amplifier. The supply voltage of this IC is 15 Volts.

<u>8. VIDEO OUTPUT AMPLIFIER</u>: The RBG output signal from TDA 9351 is applied to video output amplifier section. IC TDA6107 or transistorized circuit can be used for video signal amplification and to be applied to cathodes of CRT for generation of R, G, and B colors. If IC

is used, then internal amplifiers are used to amplify the video signal. The transistorized amplifier can be designed by using transistor circuit in which 9 transistors are used. Chassis VE01 consist of transistorized video amplifier circuit.

<u>9. POWER SUPPLY</u>: The DC Voltages required at various part of the chassis are applied by SMPS transformer controlled by STR 0765, which is designed for deriving, controlling and protecting switiching transistor of SMPS. The transformer produces 110 volts for FBT, 13 Volt for audio O/p IC, 33 Volts for tuner and 5 and 8 Volts regulated voltages through IC TA7805 and TA7808.

<u>10. MEMORY IC</u> : The 24C16 is a 16 Kilo Bit electrically erasable programmable memory. EEPROM organized as 128 pages X 16 bytes. This is compatible with I2C standards, two wire serial interface which uses a bi directional data bus and serial clock.

11. IC DISCRIPTION AND PIN DETAILS

- TDA 9351→ TV Signal processor- Teletex decoder with embedded microcontroller
- HEF 4052BP-→ Video Switch
- STV 9302-→ Vertical Deflection Output
- 24C16-→ Memory IC
- TDA 9859-→ Sound Processor
- AN 17821-→ Sound Output
- KA 5Q0765-→ STR
- Video amplifier.

<u>**11A. TDA 9351:-**</u> This IC is the functions of a TV signal processor together with a microcontroller and US Closed Caption decoder. The IC is used in television receivers with 90degree and 110 degree picture tubes. The ICs have supply voltages of 8 V and 3.3 V and they are mounted in S-DIP envelope with 64 pins. This IC is having higher degree of integration because delay line with adjustable delay time, PAL / SECAM / NTSC decoder has been integrated. In addition to this some special features like Continuous Cathode Calibration', white point and black level offset, AVL are added in this version. As this is a combination of microcontroller and TV signal processor, the features of IC are divided in two sections

TV Signal processor Important Features

- Internal (switchable) time-constant for the IF-AGC circuit.
- A choice can be made between versions with mono intercarrier sound FM demodulator and versions with QSS IF amplifier.
- The mono intercarrier sound versions have a selective FM-PLL demodulator which can be switched to the different FM sound frequencies (4.5/5.5/6.0/6.5 MHz).The quality of this system is such that the external band-pass filters can be omitted.
- Source selection between 'internal' CVBS and external CVBS or Y/C signals
- Integrated chrominance trap circuit
- Integrated luminance delay line with adjustable delay time
- Asymmetrical 'delay line type' peaking in the luminance channel
- Black stretching for non-standard luminance signals

- Integrated chroma band-pass filter with switchable centre frequency
- Only one reference (12 MHz) crystal required for the microcontroller, Teletext- and the colour decoder
- PAL/NTSC or multi-standard colour decoder with automatic search system
- Internal base-band delay line
- RGB control circuit with 'Continuous Cathode Calibration', white point and black level
 offset adjustment so that the colour temperature of the dark and the light parts of the
 screen can be chosen independently.
- Linear RGB or YUV input with fast blanking for external RGB/YUV sources. The Text/OSD signals are internally supplied from the microcontroller/Teletext decoder
- Contrast reduction possibility during mixed-mode of OSD and Text signals
- Horizontal synchronization with two control loops and alignment-free horizontal oscillator
- Vertical count-down circuit
- Vertical driver optimized for DC-coupled vertical output stages
- Horizontal and vertical geometry processing
- Horizontal and vertical zoom function for 16 : 9 applications
- Horizontal parallelogram and bow correction for large screen picture tubes

Special Features of micro Controller

- 80C51 microcontroller core standard instruction set and timing
- 1 microsecond machine cycle
- 32 128Kx8-bit late programmed ROM
- 3 12Kx8-bit Auxiliary RAM (shared with Display and Acquisition)
- Auxiliary RAM page pointer
- 16-bit Data pointer
- IDLE and Power Down (PD) mode
- 14 bits PWM for Voltage Synthesis Tuning
- 8-bit A/D converter
- 4 pins which can be programmed as general I/O pin, ADC input or PWM (6-bit) output
- Text memory for 1 or 10 pages

- In the 10 page versions inventory of transmitted Teletext pages stored in the Transmitted Page Table (TPT) and Subtitle Page Table (SPT)
- Data Capture for 525/625 line WST, VPS (PDC system A) and Wide Screen Signalling (WSS) bit decoding
- Automatic selection between 525 WST/625 WST
- Automatic selection between 625 WST/VPS on line 16 of VBI
- Real-time capture and decoding for WST Teletext in Hardware, to enable optimized processor throughput
- Automatic detection of FASTEXT transmission
- Real-time packet 26 engine in Hardware for processing accented, G2 and G3 characters
- Signal quality detector for video and WST/VPS data types
- Comprehensive teletext language coverage
- Full Field and Vertical Blanking Interval (VBI) data capture of WST data

Display Features

- Teletext and Enhanced OSD modes
- Single/Double/Quadruple Width and Height for characters
- Scrolling of display region
- Variable flash rate controlled by software
- Enhanced display features including over lining, underlining and italics
- Soft colours using CLUT with 4096 colour palette
- Globally selectable scan lines per row (9/10/13/16) and character matrix [12x10, 12x13, 12x16 (VxH)]
- Fringing (Shadow) selectable from N-S-E-W direction
- Fringe colour selectable
- Meshing of defined area
- 32 software redefinable On-Screen display characters

PINNING: TDA 9351

Pin No	Description	Value
1. Stand By	Stand by	Low Level: 0
		High Level : 3.31V
2. SCL	Clock Signal Output	Low level: 0V
		High Level : 3.31V
3. SDA	Data Out put	Low Level : 0V
		High Level : 3.31V
4.TUNING	Tunning (Not connected)	4 V
5. NTSC SW / AC TEST	NTSC switch , AC Test	0V
6. KEY	Key Input (Pannel)	Low Level : 3.36V
		High level : 3.48V
7. VOL1	Volume	3.3 V
8. MUTE	Mute	Low level: 0V
		High Level : 4.06
9. Vss C/P	Digital Ground for	0V
	microcontroller	
10. BAND1	Band 1 (not connected)	0V
11. BAND2	Band 2 (Not Connected)	0V
12. Vss A	Analog ground of teletext	0V
	decoder and digital ground	
	for TV processor	
13. SECPLL	Secam PLL decoupler	Low level : 0V
		High level : 2.27
14. Vp2	Second supply voltage for	8V
	TV processor	
15. DECDIG	Decoupling digital supply	Low level : 0V
	of TV processor	High level : 4.98V
16.PHL2LF	Phase II filter	Low level : 0V
		High level : 2.88V
17. PHL2LF	Phase I filter	Low level : 0V
		High Level : 3V

		0) (
18. GND3	Ground for TV processor	0V
19. DECBG	Band gap decoupling	3.97 V
20. AVL / EWD	Automatic volume leveling	Low level : 0
	/ East west drive output	High level : 2.61V
21. VDRB	vertical drive B output	0.59V
22. VDRA	vertical drive A output	0.61
23. IF1	IF input 1	1.85V
24. IF2	IF input 2	1.85V
25. IREF	Reference current input	3.97V
26. VSC	Vertical sawtooth capacitor	Low level : 0V
		high level : 3.65V
27. TUNER AGC	Tuner AGC output	Low level : 0V
		high level : 3.93V
28. AUDDEM	Audio de emphasis or SIF	3.14V
	input 1	
29. DECSDEM / SIF2	Decoupling sound	2.23V
	demodulator or SIF input2	
30. GND2	Ground 2 for TV processor	0V
31. SNDPLL / SIF AGC	Narrow band PLL filter	2.23V
	/AGC sound IF	
32. AVL / REF0	Automatic Volume	0V
	Levelling / sound IF input /	
	subcarrier reference	
	output /AM output	
33. H OUT	Horizontal output	0.53V
34. FBISO	Flyback input/sandcastle	0.67V
	output	
35. AUDEXT / QSSO	External audio input /QSS	3.64V
	intercarrier out /AM audio	
	output (non controlled)	
36. EHTO	EHT/Over voltage	Low level : 0V
	protection input	High Level : 1.6V
	1	

37. PLL IF	IF-PLL loop filter	Low level : 0V
		High Level : 2.35V
38. IFVO / SVO	IF video output / selected	3.27V
	CVBS output	
39. Vp1	Main supply voltage TV-	8V
	processor (+8 V)	
40. CVBSINT	Internal CVBS input	2VPP
41. GND1	Ground 1 for TV-processor	0V
42. CVBS / Y	External CVBS/Y input	Low level : 0V
		High Level : 3.3V
43. CHROMA	Chrominance input	Low level : 0V
	(SVHS)	High Level : 3.3V
44. AUDOUT / AMOUT	Audio output /AM audio	3.31V
	output (volume controlled)	
45. INSSW2	2nd RGB / YUV insertion	0V
	input	
46. R2 / VIN	2nd R input / V (R-Y) input	2.49V
47. G2 / YIN	2nd G input / Y input	2.49V
48. B2 / UIN	2nd B input / U (B-Y) input	2.49V
49. BCLIN	Beam current limiter	1.95 V
	input/V-guard input	
50. BLANKING	Black current input	3 V
51. ROUT	Red output	2Vpp
52. GOUT	Green output	2Vpp
53. BOUT	Blue output	2Vpp
54. VddA	Analog supply of Teletext	3.3V
	decoder and digital supply	
	of TV-processor	
55. VpE	OTP Programming	0V
	Voltage	
56. VddC	Digital supply to core	3.3V
57. OSCGND	Oscillator ground supply	0V

58. XTAL IN	Crystal oscillator input	1.57V
59. XTAL OUT	Crystal oscillator output	1.76V
60. RESET	Reset	0V
61. VddP	Digital supply to periphrery	3.3V
62. AV1	AV input from video	0.06V
	switching IC (+3.3 V)	
63. AV2	AV input from video	0.6V
	switching IC (+3.3 V) input	
64. IRIN	IR Input	4.8V

<u>11B. IC-BU4052</u>:- 16 Pin IC. This IC is used for video switching The HEF 4052B is a dual four channel analog Multiplexer / De- Multiplexer with common channel; select Logic. Each Multiplexer / De-Multiplexer has four independents inputs / out puts. (Yo to Y_3) and a common input / out put (Z). The Common Channel Select Logic includes two address inputs (A0 and A1) and an active low enable input INH. Both Multiplexer / De Multiplexer has four bi directional analog switches, each with one side connected to an independent input / out put. . (Yo to Y_3) and the other side connected to common input / out put (Z). For operation as a digital multiplexer / demultiplexer VEE is connected to VSS (typically ground).

Application Information :

- Analog Multiplexing and De-Multiplexing.
- Digital Multiplexing and demultiplexing.
- Signal Gating

Pin no.	Pin Description	Voltage in Volts	
		(1 Khz Colour Pattern)	
1. Y0B	(independent inputs/ Out puts)	0.50V	
2. Y2B	Y2/ out B (independent inputs / out puts)	0.50V	

PINNING: HEF 4052BP

3. ZB	(Common input / outputs)	0.50V
4. Y3B	(independent inputs / out	0.50V
	puts)	
5. Y1B	(independent inputs / out	0.40 V
	puts)	
6. INH	(enable input (active LOW))	0
7. VEE	VEE	0
8. VSS	VSS	0
9. A1	(address inputs)	0.21V
10. A0	(address inputs)	0.21V
11. Y3A	(independent inputs / out	0.21V
	puts)	
12. Y0A	(independent inputs / out	0
	puts)	
13. ZA	(Common input / outputs)	0
14. Y1A	(independent inputs / out	0.20V
	puts)	
15. Y2A	(independent inputs / out	0.07V
	puts)	
16.	VDD	7.96V
VDD		

<u>**11C. STV 9302A (VERTICLE IC)</u>**: The STV 9302A is a vertical deflection booster designed for T.V applications . This device supplied with upto 35 volts and provides upto 2 Vpp current to derive the vertical deflection yoke.</u>

Features:

- Power Amplifier.
- Fly Back generator
- Output Current upto 2 amp.
- Thermal Protection.

Pin no.	Pin Description	Voltage in Volts
FIII IIO.		(1 Khz Colour Pattern)
1	INPUT(INVERTING)	0.59 V
2	SUPPLY VOLTAGE	14 V
3	FLY-BACK GENERATOR	-11.43 V
4	Gnd or Negative supply	-12.82 V
5	OUT PUT	0.33V
6	OUTPUT-STAGE SUPPLY	14.29 V
7	INPUT(NON INVERTING)	0.61 V

PINNING: STV 9302

11D. <u>IC-AT24C16:-</u> This is a 16 Kilo Bite EEPROM with a wide operating range.

Features:

- Data EEPROM internally organized as 2048 bytes and 128 pages X 16 bytes.
- Low power C-MOS.
- Vcc = 2.7 5.5 Volt operation.
- Two wire serial interface bus, I² C- Bus Compatible.
- Filtered Inputs for Noise Suppression with Schmitt Trigger.
- Clock frequency upto 400 KHz.
- High Programming flexibility.
- High reliability
 - Endurance 10⁶ Cycles
 - Data retention 40 Years.
 - ESD protection 4000V on all pins.
 - 8 Pin DIP/ DSO packages.
 - Available for extended temperature ranges.
 - Industrial -40° C to $+85^{\circ}$ C
 - Automotive -40° C to + 125°C.

PINNING :- 24C16

Pin	Pin Description	Stand-By	ON Condition Voltage
No		Voltage	(1 Khz Colour Pattern)
1	GND	0 V	0 V
2	GND	0 V	0 V
3	GND	0 V	0 V
4	GND	0 V	0 V
5	SDA. Serial Data Input	3.12 V	3.23 V
6	SCL. Serial clock	2.54 V	2.56 V
7	GND	0 V	0 V
8	VCC	5 V	5 V

<u>**11E. IC-TDA9859 (SOUND PROCESSOR) :-**</u> TDA 9859 sound processor provides the sound control facilities for the main and the scart channel of a T.V set. Due to extended switching possibilities Signal from three stereo sources can be handled. This is plastic shrink dual in line package 32 pin IC.

Features:

- I2 C bus control for all functions
- Multi Source Selector Switches.
- Six AF Inputs (Three Stereo Sources or Six Mono Sources can be used as a input.)
- Each of the input signal can be switched to each of outputs.
- Out put for large speaker channels and pary -TV Connector scart,
- Stereo and pseudo stereo effects.
- Audio surround decoder can be added externally.
- To general purpose out put port.

PINNING: TDA 9859

Pin no.	Pin	Pin Description	Stand By Voltage
1	AV Left input	Scart Input Left	Low Level : 0.32V
		Channel	High Level : 3.8V
2	P 1 Not connected	Port -1 Input	0
3	MAIN Left	Main Input Left	0 Low Level : 0V
		Channel	High Level : 3.8V
4	CSMO	Smoothing Capacitor	Low Level : 0.02V
		of reference voltage	High Level : 8V
5	MAIN Right	Main Input Right	Low Level : 0V
		Channel	High Level : 3.8V
6	VCC	Supply Voltage	Low Level : 0.02V
			High Level : 8V
7	AUDIO OUT Right	Scart Out put right	Low Level : 0.05V
		Channel	High Level : 3.8V
8	GND	Ground	0
9	VO 2	Main Out put Right	Low Level : 0.17V
		Channel	High Level : 3.8V
10	VI 8	Input to Loud Speaker	Low Level : 0.16V
		Channel	High Level : 3.8V
11	CBR 1	Bass Capacitor	Low Level : 0.15V
		Connection-1 Right	High Level : 3.8V
		Channel	
12	CBR 2	Bass Capacitor	Low Level : 0.14V
		Connection-2 Right	High Level : 3.8V
		Channel	
13	Woofer out	Woofer Out Right	0
	Right(N.C)		
14	CTR	Treble Capacitor	Low Level : 0V
		Connection right CH.	High Level : 3.8V
15	MAIN OUT Right	Loud Speaker Output	Low Level : 0V
		Right Channel	High Level : 3.8V

16	SCL	Serial Clock Input	Low Level : 2.54V
			High Level : 2.55V
17	SDA	Serial Data Ip / Output	Low Level : 3.10V
			High Level : 3.27V
18	MAIN OUT Left	Loud Speaker Out Put	Low Level : 0V
		Left Channel	High Level : 3.8V
19	CTL	Treble Capacitor	Low Level : 0.10V
		Connection Left	High Level : 3.8V
		Channel	
20	Woff. Out Left (N.C)	Woofer Output Left	0
21	CBL 2	Bass Capacitor	Low Level : 0.32V
		Connection-1 Left CH	High Level : 3.8V
22	CBL 1	Bass Capacitor	Low Level : 0.29V
		Connection-2 Left CH.	High Level : 3.8V
23	VI 7	Input to Loud	Low Level : 0.27V
		Speaker Left Channel	High Level : 3.8V
24	VO 1	Main Output Left CH	Low Level : 0.25V
			High Level : 3.8V
25	GND		0
26	AUDIO OUT Left	Scart Output Left	Low Level : 0.05V
		Channel	High Level : 3.8V
27	CPS 2	Pseudo Stereo	Low Level : 0.23V
		Capacitor -2	High Level : 3.8V
28	AV 2 Left	AV2 Left	Low Level : 0.22V
			High Level : 3.8V
29	CPS 1	Pseudo Stereo	Low Level : 0.20V
		Capacitor -1	High Level : 3.8V
30	AV 2 Right	AV2 Right	Low Level : 0.19V
			High Level : 3.8V
31	P 2 (NC)	Port-2 Output	0
32	AV1Right	Scart Input Right	Low Level : 0.18V
			High Level : 3.8V

<u>11F. SOUND OUTPUT IC</u>: the IC AN178421 is used as the AF out amplifier for the Stereo application. It is supplied by 13 volts from the 13 volt DC coming from a separate winding in the SMPS transformer. An out power of 1.5 Watt can be delivered into an 8 Ohm Load.

Pin No	Description	Voltage in Volts
1	VCC	13V
2	Channel 1 out put	Low Level : 0V
		High Level : 6.07V
3	Ground for channel out put	0V
4	Chanel out (-)	Low Level : 0V
		High Level : 6V
5	Standby Signal Input	Low Level : 0V
		High Level : 5V
6	Channel 1 input	Low Level : 0V
		High Level :1.44V
7	Ground	0V
8	Channel 2 input	Low Level : 0V
		High Level : 1.44V
9	Volume	2.8V
10	Channel 2 out put (-)	Low Level :0V
		High Level : 6V
11	Ground for channel 2	0V
12	Channel 2 out put	Low Level : 0V
		High Level : 6V

PINNING:- AN17821

<u>**11G. STR 5Q0765</u>:-**The 5Q0765RT is a power switch and an enhanced high performance controller. This power switch consists of high voltage power sensitivity and PWM controller IC. PWM Controller features integerated fixed oscillator under voltage lock out, leading edge blanking, optimized gate turn off drivers, thermal shut down protection, over voltage protection. It has a basic platform well suited for cost effective</u>

design in CTV power supply. With this features it offers really safe and reliable power management

Features :

- Quasi resonant convertor controller.
- Internal bus mode controller.
- Pulse by pulse current limiting.
- Over current latch protection.
- Over Voltage protection(V-Sink Min 11 Volt).
- Internal thermal Shut Down function.
- Under Voltage lock out.
- Internal High Voltage sensitivity
- Auto restart mode.

Pin No	Description	Voltage (in Volts)
1	Drain	300 V
2	Ground	0
3	VCC	Low level: 12.59V
		High level: 40V
4	Feedback	Low level : 0.3 V
		High level: 6.9V
5	SYNC	Low Level : 0.74V
		High Level :11V

PINNING : STR 5Q0765

<u>11. VIDEO AMPLIFIER STAGE</u>:- Transistorised amplifier circuit is used to amplify the R,G,B signal received from TDA9351. The R,G,B output from TDA9351 is applied to base of B911,B921 and B931 and push pull amplifier is used to amplify this signal further and applied to cathode of CRT. Voltage details of 9 transistors used in video amplifier section are as follows.

Transistor	Base Voltage	Collector Voltage	Emitter Voltage
B931	3.95 V	88.9V	3.35V
B911	3.98V	87.1V	3.38V
B921	4V	86.1V	3.42V
V923	86V	6.8V	86.4V
V932	88.7V	170.4V	89V
V912	86.9V	175.2V	87.3V
V913	87.1V	6.82V	87.4V
V933	88.7V	6.83V	89V
V922	85.9V	175V	86.2V

12. VE01 CHASSIS MANUAL ALIGNMENT PROCEDURE

In order to enter in service menu and design menu following procedure needs to be followed.

• 12A. Procedure to enter in service mode

- 1) Press Menu Key on Remote Handset.
- 2) Press 6483 on remote handset.
- 3) M appears on the Screen.
- 4) Press 1234, set will enter into Service Mode.
- 5) To Change the value of parameter press Volume + / Volume Key, To move from one parameter to another press Channel + / Channel Key on Remote Handset.
- 6) Press Stand By Key on remote handset to come out of Service Mode.

• 12B. Procedure to Enter Into Design Mode

- 1) Press Menu Key on Remote Handset.
- 2) Press 6483 on remote handset.
- 3) M appears on the Screen.
- 4) Press 5 on remote handset.
- 5) Press Lock key on remote handset, set will enter into Design Mode.

- 6) To Change the value of parameter press Volume + / Volume Key, To move from one parameter to another press Channel + / Channel Key on Remote Handset.
- 7) Press "Stand-By" Key to come out of Design Mode.

• 12C. White Balance Adjustment:- (In Field)

- 1) Select R,G, B cut off parameter in Menu 3 of service mode and adjust these parameters. Standard settings of these parameters are RD=32, GD=32, BD=32
- 2) Select the RGB drive parameters RB, GB in menu 3 and adjust this parameter. Default setting of these parameter is RB= 32, GB=32.
- Select Sub brightness parameter SB in menu 3 and adjust to get proper white balance. The default value of SB=40.

• 12D. Screen Adjustment :- (In Field)

- 1) Select parameter SC in menu 3 of service mode .
- 2) Increase the value of SC by using channel up key so that thin white line will be visible on the screen
- 3) Adjust the screen intensity by varying screen pot of fbt using insulated screw driver until a thin horizontal line is just visible.

<u>12E</u>. <u>OTHER SERVICE MODE ADJUSTMENTS</u>: - can be done by entering into service mode by applying the suggested procedure and setting the default value mentioned below. Few cases defaults values can be changed in a small variation for customer satisfaction.

Parameter	Variation	Default Setting	Remarks
V SLOPE	0-63	31 for 50Hz & 36 for 60Hz	For adjusting picture vertical center
V SHIFT	0-63	41 for 50Hz & 36 for 60Hz	For shifting picture vertical position
V SIZE	0-63	31 for 50Hz & 36 for 60Hz	For adjusting Vertical amplitude
V SC	0-63	10 for 50Hz & 10 for 60Hz	For adjusting Vertical S-Correction
H SHIFT	0-63	38 for 50Hz & 37 for 60Hz	For adjusting picture H position
PROG NO.		1.	

SERVICE PRAMETERS: MENU 1

SERVICE PRAMETERS: MENU 2

Parameter	Variation	Default Setting	Remarks
AGC	0-63	28	For RF AGC adjustment
Search Speed	0-3	0	

SERVICE PRAMETERS: MENU 3

Parameter	Variation	Default Setting	Remarks
BT	0-100	75	
СТ	0-100	50	
SC		3	Screen variation.
RB	0-63	32	R drive.
GB	0-63	32	G Drive
RD	0-63	32	R cut off
GD	0-63	32	G cut off
BD	0-63	32	B cut off
SB	0-63	42	Sub brightness

SERVICE PRAMETERS: MENU 4

Parameter	Variation	Default Setting	Remarks
OSD.V.POS	0-63	16 for 50Hz & 8 for 60Hz	To adjust OSD Vertical position
OSD.H.POS	0-63	27 for 50Hz & 24 for 60Hz	To adjust OSD horizontal position

Parameter	Variation	Default Setting
SUB CONTRAST	0-63	63
SUB COLOR	0-63	63
SUB SHARPNESS	0-63	63
SUB TINT	0-63	31
FS-VL-H	0-255	0
FS-VL-L	0-255	0
FS-VH-H	0-255	0
FS-VH-L	0-255	0
RGB.HSH.OFFSET	0-15	6

DESIGN PRAMETERS: MENU 5

Parameter	Variation	Default Setting
PP Mode		Std / dynamic / mild
Brightness	0-100	75 / 75 / 75
Contrast	0-100	75 / 100 / 50
Color	0-100	50 / 50 / 50
Sharpness	0-100	50 / 50 / 50
SC Brightness	0-63	20
Cool BD Offset	0-32	10
Warm RD Offset	0-32	10
YD PAL	0-15	8
YD NTSC	0-15	8
YD SECAM	0-15	8
YD AV PAL	0-15	8
YD AV NTSC	0-15	8
YD AV SECAM	0-15	8

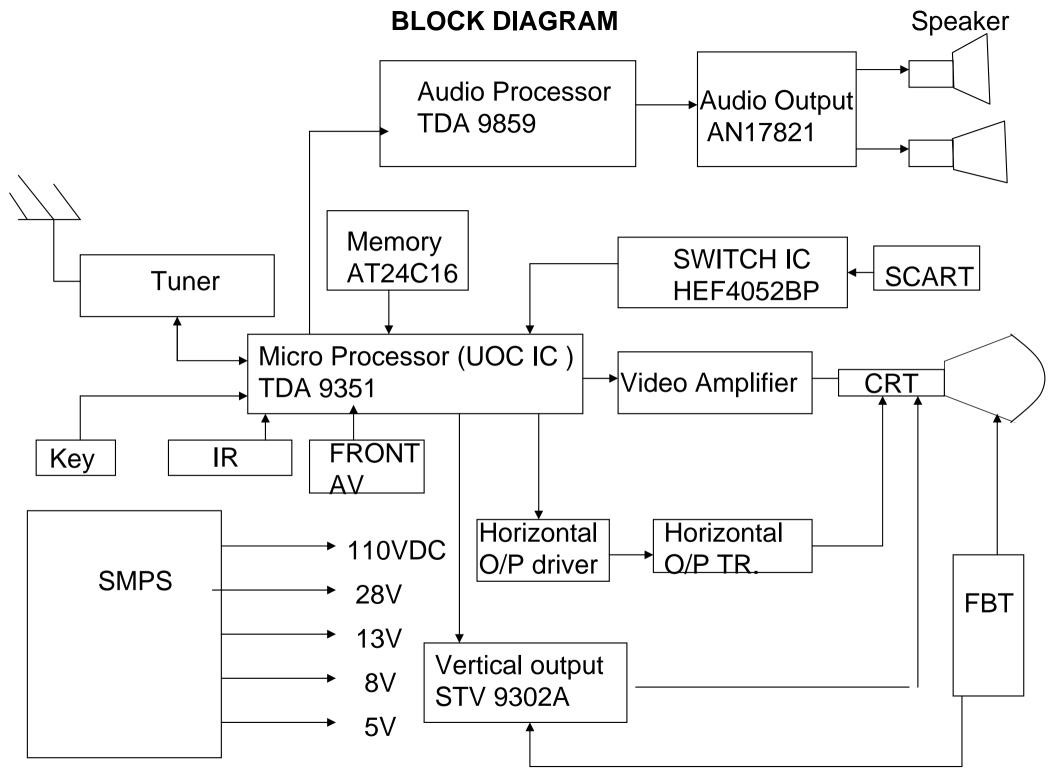
Parameter	Variation	Default Setting
OSO	0-1	1
AGC SPEED	0-3	1
FFI	0-1	0
FSL	0-1	0
FMWS	0-1	0
HP2	0-1	0
RPO	0-1	1
NTSC MATRIX	JAPAN / U.S	USA
VOL PIN	OPEN DRAIN/ PUSH	OPEN DRAIN
	PULL	
VIDEO OUT	IF / CVBS	IF

DESIGN PRAMETERS: MENU 7

Parameter	Variation	Default Setting
IF	38.9 / 38 / 58.75/ 45.75	38.9MHZ
DK	OFF / ON	ON
1	OFF / ON	ON
BG	OFF / ON	ON
М	OFF / ON	OFF
SIF PRIORITY	DK/ I/ M/ BG	BG
AV2	OFF/ ON	OFF
SVHS	OFF/ON	ON
YUV	OFF/ON	OFF
EURO AV	OFF/ON	ON
S CURVE P1	0-70	20
S CURVE V1	0-75	40
S CURVE P2	0-100	70
S CURVE V2	0-100	75

Parameter	Variation	Default Setting
CATHOD LEVEL	0-15	4
UOC VOLUME	OFF / ON	OFF
FM ATT	0-63	50
TDA 9874 AVL	0-3	1
TDA 9874 CAIN	0-30	15
DUAL OUT	OFF / ON	OFF
AUTO SOUND	OFF / ON	ON
HEADPHONE	0-3	0
TRU BASS	0-1	0
DEFAULT LANG	0-17	0
LANG OPT	FRENCH / RUSSIAN / RU	FRENCH
LANG SW	ON / OFF	ON

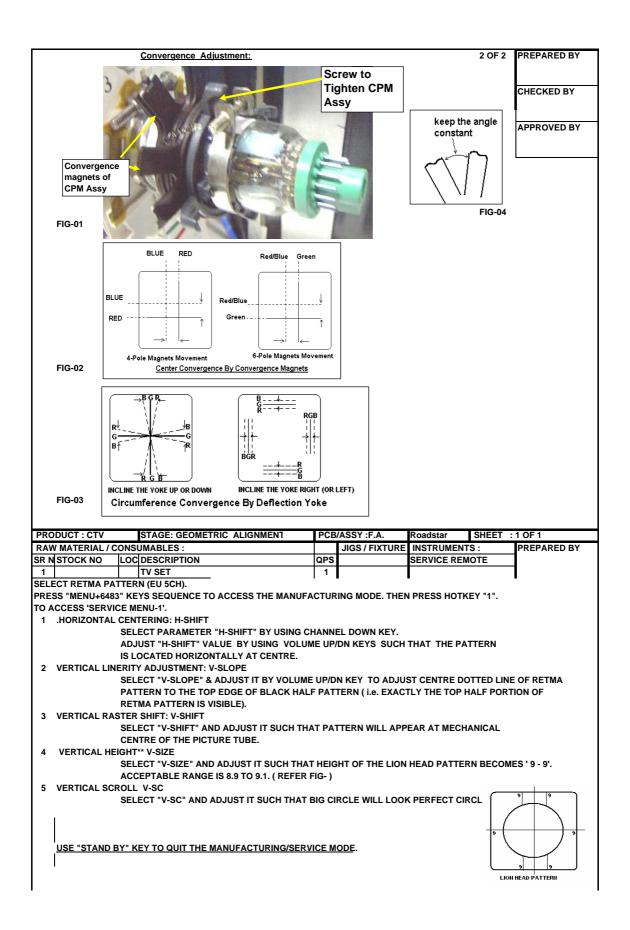
Parameter	Variation	Default Setting
BAND MODE	0-2	1
START ON	0-2	1
ON DELAY	6-15	10
LOGO	OFF / ON	OFF
NVM LOGO	OFF / ON	OFF
TXT BRIGHTNESS	0-63	20
SPANISH BIT	OFF / ON	OFF
NOT 0	OFF / ON	ON
NOT 1	OFF / ON	ON
NOT 2	OFF / ON	ON
NOT 3	OFF / ON	ON
NOT 4	OFF / ON	ON
ZOOM	V63	V56
WIDE	VO	V2



	VE	01 (CHASSIS ALLIGNMENT PRO	CED	URE ON MA	NUFACTU	IRING L	INE
PRO	DUCT : CTV		STAGE: HARNESING AT F-A LINE	PCB	/ASSY :F.A.	Roadstar	SHEET	: 1 OF 1
RAW	/ MATERIAL / C	ONS	UMABLES :		JIGS / FIXTURE	INSTRUMENT	rs :	PREPARED BY
SR N	STOCK NO	LOC	DESCRIPTION	QPS		CUTTER		
1	110006308		TIE,CABLE,PLASTIC,2.5X100mm	2				
2 3	TIE THE SPEAN HANG OVER TH TIE THE DEGU CUT THE EXCE	KER (HE C ASSI ESS L	ER CONNECTOR TO TIE CABLE METAL SL CONNECTOR TO RIGHT SIDE PORTION O HASSIS. NG COIL CONNECTOR TO DEGAUSSING (.ENGTH OF ALL THE TIES. Y CUT PORTION OF TIE ON THE CHASSIS.	F DEG COIL.				т
PPO	DUCT : CTV		STAGE: SWITCH ON		/ASSY :	Roadstar	SHEET	1 OF 1
	MATERIAL / C			F CD	JIGS / FIXTURE			PREPARED BY
			DESCRIPTION	QPS	JIGS/ FIXTORE	SERVICE REM	-	FREFARED DI
1	STOCK NO	LOC	TV SET	<u>urs</u>		SERVICE KEIV	IOTE	-
-	BEFORE SWIT	СНІМ	G ON THE TV SET , CHECK THAT CHASSI			IESING HAVE I		
			USSING CONNECTOR HAS CONNECTED					FEREI OK NOT.
	CONNECT RF S			•				
-			SET AND ADJUST THE 'SCREEN' AND 'F	ocus		R CI FAR PICT	URF	
			ER ON LED IS GLOWING WITH NORMAL IN			ULL/ANTION	0112.	
-			OFF SWITCH OPERATION BY SWITCHING			TWO TO THRE	E TIMES.	
			ROBLEMS LIKE CPT GAP, SWITCH OFF S					
			"EU 2CH" AND CHECK THAT 'SUB BRIGH			,		
-			NEL TUNNING. ELSE TUNE THE PROGRAM				H MENU.	
10	CHECK THE VO	DLUN	E VARIATION FROM ZERO TO MAXIMUM	. OBS	ERVE THAT VAR	IATION IS NOT		ANT. IT SHOULD BE
11	CHECK THE O	PERA	TION OF CH UP/ CH DN/ VOL UP/ VOL DN	/ MEN	IU KEYS .			
12	CHECK THAT 1	THES	E KEYS ARE NOT HARD TO OPERATE.					
13	CHECK THE TV	/ SET	ASTHETICALLY					
PRO	DUCT : CTV		STAGE: +B VOLTAGE ALIGNMENT	PCB	/ASSY :F.A.	Roadstar	SHEET	: 1 OF 1
RAW	/ MATERIAL / C	ONS	UMABLES :		JIGS / FIXTURE	INSTRUMENT	rs :	PREPARED BY
SR N	STOCK NO	LOC	DESCRIPTION	QPS		DIGITAL PAN	EL METER	1
1			TV SET	1		ALIGNER		
2						REMOTE		CHECKED BY
1	SWITCH ON TH	IE SE	т.		-	=		-
2	CONNECT THE	RF	CORD TO TUNER.					
3	SELECT THE	'STA	NDARD' MODE OF PICTURE CONTROL.					
	OONING OT THE				D004"			

4 CONNECT THE DPM POSITIVE PROBE TO CATHODE OF DIODE "VD631".
 (DPM NEGATIVE PROBE IS INTERNALLY CONNECTED TO CHASSIS GROUND)
 5 ROTATE THE PRESET "VR 631" USING ALIGNER TO SET +B VOLTAGE + 115V +/- 0.5V DC

PRODUCT : CTV STAGE: SCREEN ADJUSTMENT PCB/ASSY :FA Roadstar SHEET : 1 OF 1 RAW MATERIAL / CONSUMABLES : JIGS / FIXTURE INSTRUMENTS : PREPARED BY									
								-	PREPARED BY
	STOCK NO	LOC	DESCRIPTION	C	QPS		SERVICE R		
1			TV SET		1		FEVIBONAD		
2							INSULATED	SCREW	CHECKED BY
3		L					DRIVER		I
			THE TV SET FOR AT LEAST 20 MIN	UTES (I	DUR	ING SOAKING AR	EA)		
			RETMA / LION HEAD PATTERN ,						
			3" KEYS SEQUENCE TO ACCESS TH			CIURING MODE.			
			O APPEAR 'SERVICE MENU 3' ON S						
			ER "SC " BY PRESSING CHANNEL						
			Y THEN A THIN HORIZONTAL LINE						
6			EN INTENSITY BY VARYING SCREE	N POT (OF F	BT USING INSUL	ATED SCRE	W DRIVER U	NTIL A THIN HORIZO
	LINE IS JUST								
				۱.					
			ND ON "SCREEN" POT. OF FBT.	or 1			Development	OUEET	4 05 4
	DUCT : CTV		STAGE: FOCUS AND CONVERGEN		PCB		Roadstar	SHEET :	
	MATERIAL / C					JIGS / FIXTURE			PREPARED BY
	STOCK NO	LOC	DESCRIPTION	C	QPS		SERVICE R	EMOTE	
1			TV SET		1		GLUE		
2							PNUE. SCR	EW DRIVER	CHECKED BY
3									ļ
							FEVIBONAD)	
							INSULATED	SCREW	APPROVED BY
							DRIVER		
]
	TIGHTENING T	ORQ	UE OF SCREW DRIVER- 10 TO 15 kg	.cm and	TV	SET IS FACING T	OWARDS EA	ST.	
oci	US ADJUSTMEN								
1	SELECT LION	HEA	D PATTERN.(EU 5CH) . CHOOSE SE	LECTA	BLE	PICTURE MODE	"STANDARI	ס".	
			S KNOB ON FBT USING INSULATED						ENTRE ON LION HE
			P AS POSSIBLE.						
Г			INDICATES THE LOCATION OF FO	CUS AD	JUS-	TMENT CHECK O	N SCREEN.		
_	VERGENCE AD								
			ROSS HATCH PATTERN.						
			POLE MAGNET, MATCH THE RED A		IFII	NES AT THE CEN	TRE SHIFT		
-			LINE BY USING 6 POLE MAGNET.						D DECE LINE
2			LOCK. BE CAREFUL NOT TO MOVE		ruce				
			T THE PICTURE FOR TILT.ADJUST						
5	APPLY GLUE C	N R	OTH SCREEN AND FOCUS KNOB OF	- FBT AI	FIER	CADJUSTMENT	FFOCUS.		
т∟	IIS HORIZONTA				F	THIS HORIZONTA	1		
	NE MATCHING	- \				LINE MATCHING			
	TH EXPOSURE				<u> </u>	EXPOSURE POIN	_		
					Ľ			~	
10				X					
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ΕX	POSURE POIN	18			XPO		, –		
	(POSURE POIN N THE SCREEN	18		- T		SURE POINTS		~	<u> </u>
		18		- T				~	<u> </u>
		18		- T				~	<u>-</u>
	N THE SCREEN		ELS: TILT=0 mm TILT CHECK	Ċ				~	5
	N THE SCREEN	NODI	ELS: TILT=0 mm TILT CHECH	Ċ]		
	FOR TFT CPT I	MODI TON/	L CPT MODELS: TILT=2 mm	Ċ]	CUS CHECK	
	FOR TFT CPT I	MODI TON/		Ċ]	CUS CHECK	
10	FOR TFT CPT I FOR TFT CPT I FOR CONVENT NOTE: DO NOT	MODI TON/	AL CPT MODELS: TILT=2 mm ICH TO ANY PART OF FBT.		DN TH	HE SCREEN			
Of PRO	FOR TFT CPT I FOR TFT CPT I FOR CONVENT NOTE: DO NOT	MODI TION/ TOU	AL CPT MODELS: TILT=2 mm ICH TO ANY PART OF FBT. STAGE: CONVERGENC!		DN TH	HE SCREEN	Roadstar	SHEET :	1 OF 2
ON PRO RAW	FOR TFT CPT I FOR TFT CPT I FOR CONVENT NOTE: DO NOT DUCT : CTV		AL CPT MODELS: TILT=2 mm ICH TO ANY PART OF FBT. STAGE: CONVERGENC! JMABLES :	<u> </u>	DN TH	HE SCREEN	Roadstar INSTRUME	SHEET :	
ON PRO RAW	FOR TFT CPT I FOR TFT CPT I FOR CONVENT NOTE: DO NOT		AL CPT MODELS: TILT=2 mm ICH TO ANY PART OF FBT. STAGE: CONVERGENCI JMABLES : DESCRIPTION	<u> </u>	DN TH	HE SCREEN	Roadstar	SHEET :	1 OF 2
	FOR TFT CPT I FOR CONVENT NOTE: DO NOT DUCT : CTV MATERIAL / C STOCK NO		AL CPT MODELS: TILT=2 mm ICH TO ANY PART OF FBT. STAGE: CONVERGENCI JMABLES : DESCRIPTION TV SET	<u> </u>	DN TH	HE SCREEN	Roadstar INSTRUME	SHEET :	1 OF 2
	FOR TFT CPT I FOR CONVENT NOTE: DO NOT DUCT : CTV MATERIAL / C STOCK NO DNVERGENCE A		AL CPT MODELS: TILT=2 mm ICH TO ANY PART OF FBT. STAGE: CONVERGENCI JMABLES : DESCRIPTION TV SET STMENTS			HE SCREEN /ASSY : F.A. JIGS / FIXTURE	Roadstar INSTRUME SERVICE RI	SHEET : NTS : EMOTE	1 OF 2
OPRO RAM BR N CC NO	FOR TFT CPT I FOR CONVENT NOTE: DO NOT DUCT : CTV MATERIAL / C STOCK NO NVERGENCE A TE : Before attemp	MODI TON/ TOL	AL CPT MODELS: TILT=2 mm ICH TO ANY PART OF FBT. STAGE: CONVERGENC! JMABLES : DESCRIPTION TV SET STMENTS ny convergence adjustments, the			IE SCREEN	Roadstar INSTRUME SERVICE RI GENCE AD.	SHEET : NTS : EMOTE	1 OF 2 PREPARED BY
OPRO RAM BR N CC NO	FOR TFT CPT I FOR CONVENT NOTE: DO NOT DUCT : CTV MATERIAL / C STOCK NO NVERGENCE A TE : Before attemp	MODI TON/ TOL	AL CPT MODELS: TILT=2 mm ICH TO ANY PART OF FBT. STAGE: CONVERGENCI JMABLES : DESCRIPTION TV SET STMENTS	<u>CIRCL</u> 1. Loo		IE SCREEN	Roadstar INSTRUME SERVICE RI GENCE AD.	SHEET : NTS : EMOTE	1 OF 2 PREPARED BY
Of PRO RAW SR N CC NO rec	FOR TFT CPT I FOR CONVENT NOTE: DO NOT DUCT : CTV MATERIAL / C STOCK NO NVERGENCE A TE : Before attemp eiver should be op	ONS ONS LOC	AL CPT MODELS: TILT=2 mm ICH TO ANY PART OF FBT. STAGE: CONVERGENC! JMABLES : DESCRIPTION TV SET STMENTS ny convergence adjustments, the d for at leat fifteen minutes.	CIRCL 1. Loo yoke t	PCB	ASSY : F.A. JIGS / FIXTURE RENCE CONVER the clamping scre	Roadstar INSTRUME SERVICE RI GENCE AD.	SHEET : NTS : EMOTE USTMENT: ion yoke sligh	1 OF 2 PREPARED BY
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Of RAW SR N 1 CCO NOC CE 1.5 2.5 pi 1.5 2.5 pi 3.7 3.7 3.7 1 CCO NOC CE 1.5 2.5 1 CCO NOC CE 1.5 2.5 1 CCO NOC CE 1.5 1 CCO NOC CE 1.5 1 CCO NOC CE 1.5 1 CCO NOC CE 1.5 1 CCO NOC CE 1.5 1 CCO NOC CE 1.5 1 CCO NOC CE 1.5 1 CCO NOC CE 1.5 1 CCO NOC CE 1.5 1 CCO NOC CE 1.5 1 CCO NOC CE 1.5 1 CCO NOC CE 1.5 1 CCO NOC CE 1.5 1 CCO CCO CE 1.5 CCO CE 1.5 CCO CE 1.5 CCO CE 1.5 CCO CE CCO CE CE CCO CE CCO CE CCO CE CCO CE CCO CE CCO CCO	FOR TFT CPT I FOR CONVENT NOTE: DO NOT DUCT: CTV MATERIAL / C STOCK NO NVERGENCE A TE: Before attemp eiver should be op NVERGENCE A TE: before attemp eiver should be op NTE: CONVERGENCE A Select the Cross Set the brightnes attern. Adjust two tabs gle between t perimpose red as of picture s of picture s urn the both tal nstant to su es at the cente Adjust two tabs i/blue line and ects the vertical d blue moven	MODI TONA TOU ONSI LOC ADJU ADJU ADJU ADJU ADJU ADJU ADJU ADJU	AL CPT MODELS: TILT=2 mm ICH TO ANY PART OF FBT. STAGE: CONVERGENCE JMABLES : DESCRIPTION TV SET STMENTS ny convergence adjustments, the d for at leat fifteen minutes. DJUSTMENT : h pattern (EU 4CH). d contrast for well defined e 4-Pole magnets to change the . (See fig01 & 02) and blue vertical lines in the center h. the same time keeping the angle mpose red and blue horizontal he screen. (See fig-04 & 02) Pole magnets to superimpose en one .Adjusting the angle s and rotating both magnets hes. b,4,5 keeping in mind red, green	CIRCL 1. Loo yoke t 2. Tem paper 3. Tilt f conve wedge the yo 4. Put o stick. 5. Tilt f circum 6. Keep space. fix the 7. Deta space. 8. Aftee the s	PCB PCB QPS JMFE Second Second Second PCB PCB PCB PCB PCB PCB PCB PCB	ASSY : F.A. JIGS / FIXTURE IIGS / FIXTURE ERENCE CONVER the clamping scro adhesive part of f of the deflection ce in circumfer to the space betw emporarily. r wedge in to bott of the yoke right ence. (see fig.3) yoke position an emove cover pap ke. he temporarily mode kit on picture tw	Roadstar INSTRUME SERVICE RI GENCE AD., ww of deflect as shown in the wedge.) yoke up or di ence (see fig reen pictur om space ar or left to obt d put anothe er and stick punted wedg be to fix the recheck ovice yoke and c	SHEET : NTS : EMOTE USTMENT: ion yoke sligh fig1. (Do not iown to obtain .3). Push the te tube and th ad remove the ain better cor er wedge in e the wedge on e and put it in yoke. erall converge heck the yoke	1 OF 2 PREPARED BY ntly to allow the remove cover better mounted e yoke, to fix e cover paper to nvergence in ither upper picture tube to a another upper ence. Tighten e is firm.



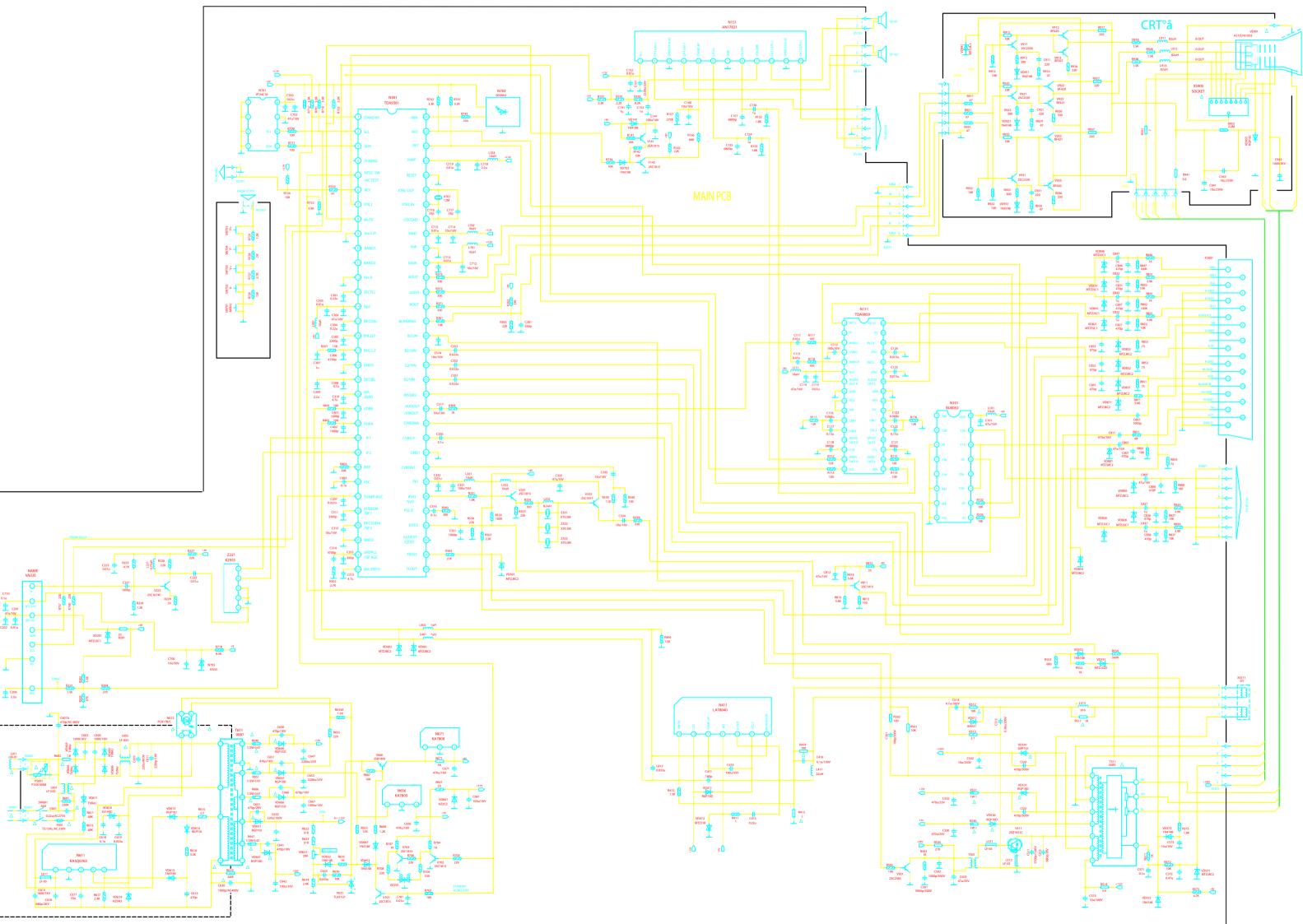
PRODUCT : CTV	STAGE: OSD ALIGN	MENT	PCB/AS	SY :F.A.	Roadstar	SHEET :	1 OF 1
RAW MATERIAL / CONS			JIC	GS / FIXTURE	INSTRUMENT		PREPARED BY
	DESCRIPTION		QPS		SERVICE REM	OTE	
1	TV SET		1				
PRESS "MENU+6483" KI		CESS THE MANUFA	CTURING	MODE. THEN	PRESS HOTK	EY "1".	
SELECT RETMA PATTER	· ·						
OSD DISPLAY ADJUSTN			SDH AND	<u>D OSDV</u>			
	MENU -4 BY PRESSING WILL APPEAR ON SO						
1 SELECT "OSD V-P			RECTAN				CREEN
2 SELECT "OSD H-P							
<u>USE "STAND BY" KEY T</u>	O QUIT THE MANUFAC	CTURING/SERVICE M		MENU-4 OSD V-PO OSD H-PO	W.		
OSD ALIGNMENT	ON NTSC PATTERN:		and the second second		-	ALC: NOT THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE OWNER OWNE OWNER OWNE	
2 SELECT COLOUR		N(NTSC SYSTEM)					
SELECT PARAMET	ER "OSD V-POS " & "O	OSD H-POS" BY CHA	NNEL UP	/ DN KEYS . A	DJUST THE F	ARAMETE	R VALUES SUCH
THAT A BIG DOTTI	ED RECTANGLE SHOU	JLD BE SYMMETRICA	LLY LOC	CATED ON RE	TMA PATTERN	ι.	
PRODUCT : CTV	STAGE: WHITE BALA		PCB/AS	SV·FA	CHASSIS : AL	SHEET ·	1 OF 1
RAW MATERIAL / CONS				GS / FIXTURE	INSTRUMENT		PREPARED BY
	DESCRIPTION		QPS		SERVICE REM		
1	TV SET		1		WHITE BA	LANCE	
INTRODUCTION TO WHI	TE BALANCE ADJUST	MENT WINDOW					-
		GREEN AND BLUE CUT	OFF		THIS INDICAT BALANCE CC		
		STATUS BARS		/	"NG" OR "GO		
	JST MODE			GOOD			
	DEL				T HIGH LIGHT	ลไ	
	IBQS				`	TARG	ET VALUES OF
WINDOW				x 275	\$ 5	WHITE	E BALANCE
GD	GH LIGHT REF RED 🔻	LOW LIGHT REF GC	RED 🔻	y 292			
							ANCE OF
				Y 45.00	∫ € 15.00 ∫		T VALUES
		Пвс					
STATUS BARS					TLOWNICHT		
	· · · · · · · · · ·	_		TARGE	T LOW LIGHT		
SC		SB		x 275	€ 5		
SUB		l Î		y 292	\$ 5		
CONTRAST STATUS BAF		SUB BRIGHTNESS		Y 1.00	♦ 0.50		
		STATUS BAR			AL 0.00		
					тс	1	
	X Y Y	X Y	Y 0.31				
	70 295 42.30	276 297	0.31	📗 🗆 ADJUST	Г		
STATUS	STOP	START					
	STOP			MANUAL	AUTO		
I T						ᅴ	

	DUCT : CTV			BALANO	CE ADJUSTMEN1	PCB		Roadstar	SHEET :	
	MATERIAL / C						JIGS / FIXTURE			PREPARED BY
	STOCK NO		DESCRIPTION			QPS		SERVICE REM		
1			TV SET			1		WHITE BALAN	ICE METER	
					ST 20 MINUTES (D			,	DIDDU	
					<u>ORMAL'' AND SEI</u> Ed in 'Model inf				DARD"	
					SENSOR ,CONNE					ANCE TESTED
	TO TUNER INP				SENSOR ,CONNE		HITE BALANCE S	IGNAL FROM		ANCE TESTER.
				RSERVI	E THAT , WHILE D	FGAI	ISSING MONITOR			
					SENSOR WILL CO		-			EEN
					I THAT SCREEN W					
					NT OF SENSOR S					
			OF WHITE BALAN							
					, SELECT SERVI	CE PA	RAMETERS FOR	RGB CUTOFF		
7	ADJUSTMENT	& AD	JUST IT BY VOL	L. UP/ V	OL. DN KEYS. IF I	NEED	ED ADJUST THE	VALUES FOR	PARAMETE	RS OF RGB DRIVES
6	IF NECESSARY	, AD.	JUST THE 'SUB B	RIGHT	NESS' VALUE BY	SELE	CTING APPROPR	EATE SERVIC	E PARAME	TER.
7	THE ADJUSTM	ENTS	ARE MUTUALLY	INTER	DEPENDENT SO	ADJU	ST ALL ABOVE I	MENTIONED P	ARAMETER	S TILL THE RED BLO
				DISPL	AY TURNS IN TO '	GOO	D".			
	SERVICE PARA		ERS:-						SPECIFIC/	
	RGB CUTOFF'S									OTHER BRANDS
			POC/ROADSTAR		VX04T		DSPM2129		X= 275+/- 5	
	RDC	RD		R CUT	RDC		CR		y= 292+/- 5	
	GDC	GD		G CUT	GDC		CG			BEAM Y=15
	BDC RGB DRIVES	BD	BD	B CUT	BDC		СВ		FOR HIGH	BEAM Y=113
	GDRV	GB	GB	GDRV	GDRV		WG			IIBA BRAND
	BDRV	RB	-	BDRV	BDRV		WB		X= 260	IIDA DRAND
	SUB BRIGHT			BDIN	BBRV		WB		v= 271	
	-	SBRT		BRTS	BRTC		SB			BEAM Y= 5
	-	-		-	ACTURING/SERV	CE M	-			BEAM Y= 99
PRO	DUCT : CTV		STAGE: SOUND	Q.C1		PCB	/ASSY :F.A.	Roadstar	SHEET :	1 OF 1
RAW	MATERIAL / C	ONSI	JMABLES :				JIGS / FIXTURE	INSTRUMENT	'S :	PREPARED BY
SR N	STOCK NO	LOC	DESCRIPTION			QPS		REMOTE		
						4				
1			TV SET			1				
	CONNECT THE		SIGNAL CORD TO		R.	1				
1 2	CHECK FOR V	RF	SIGNAL CORD TO		ER. RO TO MAX. (FOR		2 & CH-05) SOUN	ID SHOULD BE	DISTORTI	ON
1 2	CHECK FOR VO FREE AT MAX.	RF S DLUN VOL	SIGNAL CORD TO IE VARIATION FR UME LEVEL.	OM ZE	RO TO MAX. (FOR	CH-0	2 & CH-05) SOUN	I SHOULD BE	DISTORTI	ON
1 2 3	CHECK FOR VO FREE AT MAX. CHECK FOR H	RF OLUN VOLI	SIGNAL CORD TO IE VARIATION FR UME LEVEL. IG SOUND , DISTO	OM ZE		CH-0	2 & CH-05) SOUN	ND SHOULD BE	DISTORTI	ON
1 2 3 4	CHECK FOR VO FREE AT MAX. CHECK FOR H CHECK SOUND	RF OLUN VOLI ISSIN MUT	SIGNAL CORD TO IE VARIATION FR UME LEVEL. IG SOUND , DISTO FE, AVL.	OM ZE	RO TO MAX. (FOR SOUND PROBLE	CH-0	2 & CH-05) SOUN	ID SHOULD BE	DISTORTI	ON
1 2 3 4 5	CHECK FOR VO FREE AT MAX. CHECK FOR H CHECK SOUNE BANG THE CH	RF OLUN VOLU ISSIN MUT	SIGNAL CORD TO IE VARIATION FR UME LEVEL. IG SOUND , DISTO FE, AVL. S FOR LOOSE CO	ONTAC	RO TO MAX. (FOR SOUND PROBLEI T .	CH-0	2 & CH-05) SOUM	ID SHOULD BE	DISTORTI	DN
1 2 3 4 5 6	CHECK FOR VO FREE AT MAX. CHECK FOR H CHECK SOUNE BANG THE CH REMOVE THE I	RF DLUN VOLI ISSIN MUT ASSI	SIGNAL CORD TO IE VARIATION FR UME LEVEL. IG SOUND , DISTO FE, AVL. S FOR LOOSE CO GNAL CORD FRO	OM ZE ORTED ONTAC	RO TO MAX. (FOR SOUND PROBLEI T . ER.	CH-0	2 & CH-05) SOUN	I SHOULD BE	DISTORTI	DN
1 2 3 4 5 6 7	CHECK FOR VO FREE AT MAX. CHECK FOR H CHECK SOUNE BANG THE CH REMOVE THE I FOR DETAILS,	RF OLUN VOLU ISSIN MU ASSI RF SI PLEA	SIGNAL CORD TO IE VARIATION FR UME LEVEL. IG SOUND , DISTO IE, AVL. S FOR LOOSE CO GNAL CORD FRO ASE REFER USER	ORTED	RO TO MAX. (FOR SOUND PROBLEI T . ER. DE BOOK	СН-0 MS	·			
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1 2 3 4 5 6 7 PRO RAW	CHECK FOR VO FREE AT MAX. CHECK FOR H CHECK SOUNL BANG THE CH FOR DETAILS, DUCT : CTV	RF OLUN VOL ISSIN MUT ASSI RF SI PLE ONSI	SIGNAL CORD TO IE VARIATION FR UME LEVEL. IG SOUND , DISTO IFE, AVL. S FOR LOOSE CO GNAL CORD FRO ASE REFER USER STAGE: PICTURE JMABLES :	ORTED	RO TO MAX. (FOR SOUND PROBLEI T . ER. DE BOOK	CH-0 MS PCB	·	Roadstar	SHEET :	
1 2 3 4 5 6 7 PRO RAW	CHECK FOR VO FREE AT MAX. CHECK FOR H CHECK SOUNL BANG THE CH REMOVE THE I FOR DETAILS, DUCT : CTV	RF OLUN VOL ISSIN MUT ASSI RF SI PLE ONSI	SIGNAL CORD TO IE VARIATION FR UME LEVEL. IG SOUND , DISTO IE, AVL. S FOR LOOSE CO GNAL CORD FRO ASE REFER USER STAGE: PICTURE	ORTED	RO TO MAX. (FOR SOUND PROBLEI T . ER. DE BOOK	СН-0 MS	/ASSY :F.A.	Roadstar	SHEET : S:	1 OF 1
1 2 3 4 5 6 7 PRO RAW SR N	CHECK FOR VO FREE AT MAX. CHECK FOR H CHECK SOUNL BANG THE CH FOR DETAILS, DUCT : CTV	RF OLUN VOL ISSIN MUT ASSI RF SI PLE ONSI	SIGNAL CORD TO IE VARIATION FR UME LEVEL. IG SOUND , DISTO IF, AVL. S FOR LOOSE CO GNAL CORD FRO SSE REFER USER STAGE: PICTURE JMABLES : DESCRIPTION	ORTED	RO TO MAX. (FOR SOUND PROBLEI T . ER. DE BOOK	CH-0 NS PCB	/ASSY :F.A. JIGS / FIXTURE	Roadstar INSTRUMENT SERVICE REM	SHEET : S : IOTE	1 OF 1
1 2 3 4 5 6 7 PRO RAW SR N 1 2	CHECK FOR VO FREE AT MAX. CHECK FOR H CHECK SOUND BANG THE CH REMOVE THE I FOR DETAILS, DUCT : CTV (MATERIAL / C STOCK NO	RF SIN VOLU ISSIN MUT ASSI RF SIN PLE LOC	SIGNAL CORD TO IE VARIATION FR UME LEVEL. IG SOUND , DISTO IF, AVL. S FOR LOOSE CO GNAL CORD FRO SSE REFER USER STAGE: PICTURE JMABLES : DESCRIPTION	COM ZE	RO TO MAX. (FOR SOUND PROBLEI T . ER. DE BOOK	CH-0 NS PCB	/ASSY :F.A. JIGS / FIXTURE	Roadstar INSTRUMENT SERVICE REM	SHEET : S : IOTE	1 OF 1 PREPARED BY
1 2 3 4 5 6 7 PRO RAW SR N 1 2 1	CHECK FOR VG FREE AT MAX. CHECK FOR H CHECK SOUND BANG THE CH REMOVE THE I FOR DETAILS, DUCT : CTV (MATERIAL / C STOCK NO CONNECT RF S	RF OLUM VOLU ISSIN MUT ASSI RF SI PLE ONSU LOC	SIGNAL CORD TO THE VARIATION FR UME LEVEL. IG SOUND , DISTO FE, AVL. S FOR LOOSE CO GNAL CORD FRO ASE REFER USER STAGE: PICTURE JMABLES : DESCRIPTION TV SET AL CORD TO TUN	COM ZE	RO TO MAX. (FOR SOUND PROBLE T . ER. DE BOOK	CH-0 MS PCB QPS 1	/ASSY :F.A. JIGS / FIXTURE	Roadstar INSTRUMENT SERVICE REM EXT. DEGAUS	SHEET : S : IOTE SING COIL	1 OF 1 PREPARED BY CHECKED BY
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1 2 3 4 5 6 7 PRO RAW SR N 1 2 1 2	CHECK FOR VG FREE AT MAX. CHECK FOR H CHECK SOUNE BANG THE CH REMOVE THE I FOR DETAILS, DUCT : CTV MATERIAL / C STOCK NO CONNECT RF S SELECT CHAN HEAD PATTER LION HEAD PA	RF SI DLUN VOLI ISSIN ASSI ASSI PLEA DONSU LOC LOC NRL N.) TTEF	SIGNAL CORD TO IE VARIATION FR UME LEVEL. IG SOUND , DISTO FE, AVL. S FOR LOOSE CO GNAL CORD FRO ASE REFER USER STAGE: PICTURE JMABLES : DESCRIPTION TV SET AL CORD TO TUN "EU 5CH" .CHECP IN SHOULD LOOP	COM ZE ORTED ONTAC OM TUN RS GUIE E Q.C1	RO TO MAX. (FOR SOUND PROBLE T. ER. DE BOOK GEOMETRICAL AI	CH-0 MS QPS 1 LIGNN	/ASSY :F.A. JIGS / FIXTURE MENTS, DISPLAY	Roadstar INSTRUMENT SERVICE REM SERVICE REM SERVICE REM SERVICE REM SERVICE REM	SHEET : S : OOTE SING COIL (HEIGHT &	1 OF 1 PREPARED BY CHECKED BY
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1 2 3 4 5 6 7 PRO RAW SR N 1 2 1 2 3	CHECK FOR VG FREE AT MAX. CHECK FOR H CHECK SOUNE BANG THE CH FOR DETAILS, DUCT : CTV MATERIAL / C STOCK NO CONNECT RF 3 SELECT CHAN HEAD PATTER LION HEAD PA CHECK FOR FO PATTERN SHO	RF SILUM VOLI ISSIN ASSI ASSI PLE/ DONSU LOC LOC SIGN/ NEL N.) TTEF DCUS	SIGNAL CORD TO IE VARIATION FR UME LEVEL. IG SOUND , DISTO TE, AVL. S FOR LOOSE CO GNAL CORD FRO ASE REFER USER STAGE: PICTURE JMABLES : DESCRIPTION TV SET AL CORD TO TUN "EU 5CH" .CHECO S SHOULD LOOP ADJUSTMENT BE SHARP VISIB	COM ZE ONTED ONTAC M TUN S GUIE E Q.C1	RO TO MAX. (FOR SOUND PROBLE T. ER. DE BOOK I GEOMETRICAL AI AR AND SYMMETI GONAL CENTRE	CH-0 MS QPS 1 LIGNN RICAL	/ASSY :F.A. JIGS / FIXTURE MENTS, DISPLAY	Roadstar INSTRUMENT SERVICE REM EXT. DEGAUS ALIGNMENTS, ' DIGITS ON LIG	SHEET : S: IOTE SING COIL (HEIGHT & DN HEAD	1 OF 1 PREPARED BY CHECKED BY WIDTH SHOULD BE
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1 2 3 4 5 6 7 PRO RAW SR N 1 2 1 2 3 4 5 6 7 8 9 10 11 12	CHECK FOR VG FREE AT MAX. CHECK FOR H CHECK SOUND BANG THE CH FOR DETAILS, DUCT : CTV MATERIAL / C STOCK NO CONNECT RFS SELECT CHAN HEAD PATTER LION HEAD PA CHECK FOR FO PATTERN SHO PRESS "ZOOM SELECT "WIDE SELECT CROS SHOULD BE W CHECK FOR S SUB BRIGHTN IF REQUIRED A CHECK FOR A CHECK FOR A CHECK FOR A CHECK FOR W CHECK FOR W	RF SIDUUM VOLUISSIN OMUISSIN RF SIS PDEA ONSU LOC LOC LOC SIGNA NEL N.) TTEF MOS SIGNA NEL SIGNA NEL SIGNA NEL N.)	SIGNAL CORD TO IE VARIATION FR UME LEVEL. IG SOUND , DISTONE IE, AVL. S FOR LOOSE CC GNAL CORD FRO ASE REFER USER STAGE: PICTURE JMABLES : DESCRIPTION TV SET AL CORD TO TUN 'EU 5CH" .CHECH AL CORD TO TUN 'EU 5CH" .CHECH AL CORD TO TUN 'EU 5CH" .CHECH AL CORD TO TUN 'EU 5CH" .CHECH CONTRASS ADJUSTMENT . DE AND CHECK ' RIGHTNESS ON CONTRASS ANDS TUNING WI' BALANCE, TILT TABLE PICTURE ED PROBLEMS (S	COM ZE ONTAC ONTAC ONTAC ONTAC S GUIE E Q.C1 E	RO TO MAX. (FOR SOUND PROBLEM T. ER. DE BOOK GEOMETRICAL AN AR AND SYMMET GONAL CENTRE TE TO SELECT "ZC ATTERN HEIGHT AND CHECK FOR EL (EU 2CH) SU E MODE "STANDA SERVICE MENU-I NG ON COLOUR B HTNESS,COLOUR IS RESPECTIVE S MENT.& COLOUR S AS STANDARD, CH/CONVERGENC	CH-0 MS QPS 1 LIGNM RICAL OF PI IS 75% CON B BRI RD", HOTK AR+C OUNI PAT(DYNA E-DYN	/ASSY :F.A. JIGS / FIXTURE JIGS / FIXTURE MENTS, DISPLAY CTURE TUBE. '30 MODE AND CHEC & OF THE SCREE VERGENCE QUA GHTNESS SHOUL ARE VISIBLE . EY-3 FOR SPECI IRCLE PATTERN RPNESS. D. S. S. S. MIC, MILD , USEF	Roadstar INSTRUMENT SERVICE REM EXT. DEGAUS ALIGNMENTS, ' DIGITS ON LIG K THAT HEIGH N. LITY. HORIZON LD BE SUCH TH FIED SUB BRIC WHEN 'ZOOM' R. YOKE TILT, CP	SHEET : S: SING COIL (HEIGHT & ON HEAD IT OF THE F ITAL AND V HAT 5 & 1, GHTNESS A MODE IS S	1 OF 1 PREPARED BY CHECKED BY WIDTH SHOULD BE RETMA PATTERN IS /ERTICAL LINES /2 BARS ON LIGNMENT. ELECTED.
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1 2 3 4 5 6 7 PRO RAW SR N 1 2 1 2 1 2 3 4 5 6 7 8 9 10 11 12 13	CHECK FOR VG FREE AT MAX. CHECK FOR H CHECK SOUNE BANG THE CH FOR DETAILS, DUCT : CTV MATERIAL / C STOCK NO CONNECT RFS SELECT CHAN HEAD PATTER LION HEAD PATTER LION HEAD PATTER LION HEAD PATTER SELECT CHAN HEAD PATTER SHO PRESS "ZOOM SELECT "WIDE SELECT CROS SHOULD BE W CHECK FOR SS SUB BRIGHTN IF REQUIRED A CHECK FOR P CHECK FOR P CHECK FOR P CHECK FOR SI CHECK FOR SI CHECK FOR SI CHECK FOR SI CHECK FOR SI CHECK FOR RA	RF SIDUM VOLUSSIN ASSI RF SIS DOUSL CONSL	SIGNAL CORD TO IE VARIATION FR UME LEVEL. IG SOUND , DISTONE IE, AVL. S FOR LOOSE CC GNAL CORD FRO ASE REFER USER STAGE: PICTURE JMABLES : DESCRIPTION TV SET AL CORD TO TUN 'EU 5CH" .CHECH AL CORD TO TUN 'EU 5CH" .CHECH AL CORD TO TUN 'EU 5CH" .CHECH AL CORD TO TUN 'EU 5CH" .CHECH CONTRASS ADJUSTMENT . DE AND CHECK ' RIGHTNESS ON CONTRASS ANDS TUNING WI' BALANCE, TILT TABLE PICTURE ED PROBLEMS (S	CHANN CHANNN CHANN CHANN CHANN CHANN CHANN CHANN CHANN CHANN CHANN CHANN CHAN	RO TO MAX. (FOR SOUND PROBLEM F. ER. DE BOOK GEOMETRICAL AN AR AND SYMMET GONAL CENTRE TO SELECT "ZC ATTERN HEIGHT AND CHECK FOR EL (EU 2CH) SU E MODE "STANDA SERVICE MENU- IG ON COLOUR B HTNESS,COLOUR S AS STANDARD, CH/CONVERGENC WITCH OFF, CHE EMISSION ETC.	CH-0 MS QPS 1 LIGNM RICAL OF PI IS 75% CON B BRI RD", HOTK AR+C OUNI PAT(DYNA E-DYN	/ASSY :F.A. JIGS / FIXTURE JIGS / FIXTURE MENTS, DISPLAY CTURE TUBE. '30 MODE AND CHEC & OF THE SCREE VERGENCE QUA GHTNESS SHOUL ARE VISIBLE . EY-3 FOR SPECI IRCLE PATTERN RPNESS. D. S. S. S. MIC, MILD , USEF	Roadstar INSTRUMENT SERVICE REM EXT. DEGAUS ALIGNMENTS, ' DIGITS ON LIG K THAT HEIGH N. LITY. HORIZON LD BE SUCH TH FIED SUB BRIC WHEN 'ZOOM' R. YOKE TILT, CP	SHEET : S: SING COIL (HEIGHT & ON HEAD IT OF THE F ITAL AND V HAT 5 & 1, GHTNESS A MODE IS S	1 OF 1 PREPARED BY CHECKED BY WIDTH SHOULD BE RETMA PATTERN IS /ERTICAL LINES /2 BARS ON LIGNMENT. ELECTED.

PRO	DUCT : CTV		STAGE: TELETEXT CHECKING	PCE	B/ASSY :F.A.	CHASSIS :RO/ SHEET	: 1 OF 1
	V MATERIAL / C					INSTRUMENTS :	PREPARED BY
SR N	STOCK NO		DESCRIPTION	QPS			
1			TV SET	1		REMOTE	
	TELETEXT CH	CKI	NG:SELECT COLOUR BAR PATTERN	N. PRESS "	TXT/MIX" KEY ON	REMOTE	
1	OBSERVE THA	Т "Р	100 (INDEX PAGE OF TELETEXT) HA	S APPEAR	ED. PRESS "TXT/N	/IIX" KEY AGAIN AND O	BSERVE THAT THE TE
			MPOSED ON THE COLOUR BAR PAT				
3	THAT " *** LAP	GE	CHARACTERS *** " PAGE HAS APPE	ARED PR	ESS "TV/AV" KEY	' TO QUIT FROM TELET	EXT MODE.
4	SELECT SETTI	NGS	MENU AND CHECK THAT TXT=EAST	T/WEST " F	JNCTION.		
5	PRESS "SUB C	ODE	" KEY ON REMOTE & CHECK "DK/I/	BG" OPTIO	NS		
PRO	DUCT : CTV		STAGE: NTSC / H.V. CHECKING	PCE	B/ASSY :F.A.	Roadstar SHEET	: 1 OF 1
RAV	V MATERIAL / C	ONS	JMABLES :		JIGS / FIXTURE	INSTRUMENTS :	PREPARED BY
SR N	STOCK NO	LOC	DESCRIPTION	QPS			
1			TV SET	1		REMOTE	
2						HV METER	CHECKED BY
3						HAND GLOVES	
4						BALUN	
NTSO	C CHECK:						
1	SELECT COLO	UR E	AR+CIRCLE PATTERN.				
2	SELECT COLO	UR S	YSTEM=NTSC IN 'SETTINGS ' MENU				
3	SELECT TINT O	PTI	ON IN PICTURE MENU. AND VARY ITS	S VALUE .			
4	WHILE TINT VA	RIA	TION , CHECK THAT RED COLOUR IS	S CHANGIN	G.		
5	IF FOUND ANY	ABN	ORMALITY IN CHECKING , PLEASE	REJECT TH	IE SET.		
<u>H.V.</u>	TEST						
		MAIN	S CORD FROM PALLET AND INSERT	T IT IN HV S	OCKET.(SPECIAL	LY PROVIDED)	
			UN INTO TUNER POINT.			,	
			RMINAL TO BALUN POINT.				
			ENABLE BUTTON ON HV TESTER, IF	BUZZER O	PERATES FOR UN	SPECIFIED TIME THEN	REJECT THE SET.
			RD FROM SOCKET AND INSERT IN				-
6	RELEASE THE	SET	FOR NEXT STAGE.				
			MAKE "M-MODE" ON BY PRESSING	"SERVICE	KEY+DEMO KEY"		
			ER: 1.1KV, 3mA, FOR 3 SEC.				
PRC	DUCT : CTV		STAGE: NTSC ALIGNMENTS	PCE	ASSY :F.A.	Roadstar SHEET	: 1 OF 1
RAV	MATERIAL / C	ONS	JMABLES :		JIGS / FIXTURE	INSTRUMENTS :	PREPARED BY
-	STOCK NO		DESCRIPTION	QPS		NTSC PATTERN	-
1			TV SET	1		GENERATOR	
-			а -			SERVICE REMOTE	
1 3							
3						FOR NTSC ALIGNMEN	TS
4		РАТ	FERN .(COLOR BAR+CIRCLE PATTE	ERN)		FOR NTSC ALIGNMEN	rs
4 1	SELECT NTSC		 IERN .(COLOR BAR+CIRCLE PATTE 3" KEYS SEQUENCE TO ACCESS TH	-	•	-	
4 1 2	SELECT NTSC PRESS "MENU	+648	3" KEYS SEQUENCE TO ACCESS TH	-	•	-	
4 1 2	SELECT NTSC PRESS "MENU	+648 CEN	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT	IE MANUFA	CTURING MODE.	-	
4 1 2	SELECT NTSC PRESS "MENU	+648 CEN SEL	3" KEYS SEQUENCE TO ACCESS TH TERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI	IE MANUFA	CTURING MODE.	THEN PRESS HOTKEY	
4 1 2	SELECT NTSC PRESS "MENU	+648 CEN SEL ADJ	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V	IE MANUFA NG CHANN OLUME UP	CTURING MODE.	THEN PRESS HOTKEY	
4 1 2 1	SELECT NTSC PRESS "MENU .HORIZONTAL	+648 CEN SEL ADJ IS L	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR	IE MANUFA NG CHANN OLUME UP	CTURING MODE.	THEN PRESS HOTKEY	
4 1 2 1	SELECT NTSC PRESS "MENU .HORIZONTAL	+648 CEN SEL ADJ IS L ERIT	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR Y ADJUSTMENT: V-SLOPE	IE MANUFA NG CHANN OLUME UP E.	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH	THEN PRESS HOTKEY	"1" TO ENABLE MENU
4 1 2 1	SELECT NTSC PRESS "MENU .HORIZONTAL	+648 CEN SEL ADJ IS L ERIT SEL	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR Y ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO	IE MANUFA NG CHANN OLUME UP E.	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH	THEN PRESS HOTKEY	"1" TO ENABLE MENU
4 1 2 1	SELECT NTSC PRESS "MENU .HORIZONTAL	+648 CEN SEL ADJ IS L ERIT SEL	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR Y ADJUSTMENT: V-SLOPE	IE MANUFA NG CHANN OLUME UP E.	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH	THEN PRESS HOTKEY	"1" TO ENABLE MENU
4 1 2 1	SELECT NTSC PRESS "MENU .HORIZONTAL	+648 CEN SEL ADJ IS L ERIT SEL RET	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR Y ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE.	IE MANUFA NG CHANN OLUME UP E.	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH	THEN PRESS HOTKEY	"1" TO ENABLE MENU
4 1 2 1	SELECT NTSC PRESS "MENU .HORIZONTAL	+648 CEN SEL ADJ IS L ERIT SEL RET	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V OCATED HORIZONTALLY AT CENTR (ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT	ie Manufa Ng Chann Olume Up E. Lume Up/E	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH	THEN PRESS HOTKEY	"1" TO ENABLE MENU
4 1 2 1	SELECT NTSC PRESS "MENU .HORIZONTAL	+648 CEN SEL ADJ IS L ERIT SEL RET SEL	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USII UST "H-SHIFT" VALUE BY USING V OCATED HORIZONTALLY AT CENTR Y ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUC	ie Manufa Ng Chann Olume Up E. Lume Up/E	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH	THEN PRESS HOTKEY	"1" TO ENABLE MENU
4 1 2 1 2 3	SELECT NTSC PRESS "MENU .HORIZONTAL VERTICAL LINI	+648 CEN SEL ADJ IS L ERIT SEL RET SEL SEL CEN	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V OCATED HORIZONTALLY AT CENTR Y ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT AND ADJUST IT SUC TRE OF THE PICTURE TUBE.	ie Manufa Ng Chann Olume Up E. Lume Up/E	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH	THEN PRESS HOTKEY	"1" TO ENABLE MENU
4 1 2 1 2 3	SELECT NTSC PRESS "MENU .HORIZONTAL	+648 CEN SEL ADJ IS L ERIT SEL RET SEL CEN GHT	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR (ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUC TRE OF THE PICTURE TUBE. ** V-SIZE	IE MANUFA NG CHANN OLUME UP E. LUME UP/C H THAT PA	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH IN KEY SUCH THA	THEN PRESS HOTKEY THAT THE PATTERN T EXACTLY THE TOP I	"1" TO ENABLE MENU
4 1 2 1 2 3	SELECT NTSC PRESS "MENU .HORIZONTAL VERTICAL LINI	+648 CEN SEL ADJ IS L ERIT SEL CEN GHT SEL CEN	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR (ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUCI TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SIZE" AND ADJUST IT SUCH	IE MANUFA NG CHANN OLUME UP E. LUME UP/E H THAT PA	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH IN KEY SUCH THA	THEN PRESS HOTKEY THAT THE PATTERN T EXACTLY THE TOP I	"1" TO ENABLE MENU
4 1 2 1 2 3 4	SELECT NTSC PRESS "MENU .HORIZONTAL VERTICAL LINI VERTICAL RAS	+648 CEN' SEL ADJ IS L' SEL SEL CEN GHT SEL ACC	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR (ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SIZE" AND ADJUST IT SUCH EPTABLE RANGE IS 8.9 TO 9.1. (RE	IE MANUFA NG CHANN OLUME UP E. LUME UP/E H THAT PA	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH IN KEY SUCH THA	THEN PRESS HOTKEY THAT THE PATTERN T EXACTLY THE TOP I	"1" TO ENABLE MENU
4 1 2 1 2 3 4	SELECT NTSC PRESS "MENU .HORIZONTAL VERTICAL LINI	+648 CEN' SEL ADJ IS L' SEL SEL CEN GHT SEL ACC COLL	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR Y ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SIZE" AND ADJUST IT SUCH EPTABLE RANGE IS 8.9 TO 9.1. (RE V-SC	IE MANUFA NG CHANN OLUME UP E. LUME UP/E H THAT PA THAT HEIG FER FIG-)	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH NN KEY SUCH THA TTERN WILL APP	THEN PRESS HOTKEY THAT THE PATTERN IT EXACTLY THE TOP I EAR AT MECHANICAL HEAD PATTERN BECO	"1" TO ENABLE MENU
4 1 2 1 2 3 4 5	SELECT NTSC PRESS "MENU .HORIZONTAL VERTICAL LINI VERTICAL RAS VERTICAL HEI	+648 CEN SEL ADJ IS L ERIT SEL RET SEL CEN GHT SEL ACC COLL SEL	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR (ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SIZE" AND ADJUST IT SUCH "EPTABLE RANGE IS 8.9 TO 9.1. (RE V-SC ECT "V-SC" AND ADJUST IT SUCH T	IE MANUFA NG CHANN OLUME UP E. LUME UP/C H THAT PA THAT HEIG FER FIG-)	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH IN KEY SUCH THA TTERN WILL APP SHT OF THE LION	THEN PRESS HOTKEY THAT THE PATTERN T EXACTLY THE TOP EAR AT MECHANICAL HEAD PATTERN BECO	"1" TO ENABLE MENU HALF PORTION OF MES ' 9 - 9'.
4 1 2 1 3 4 5 PRO	SELECT NTSC PRESS "MENU .HORIZONTAL VERTICAL LINI VERTICAL RAS VERTICAL HEI VERTICAL SCF	+648 CEN' SEL ADJ IS L' SEL RET SEL CEN GHT SEL CEN GHT SEL COLL SEL	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR (ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SIZE" AND ADJUST IT SUCH V-SC ECT "V-SC" AND ADJUST IT SUCH T STAGE: AV CHECKING	IE MANUFA NG CHANN OLUME UP E. LUME UP/C H THAT PA THAT HEIG FER FIG-)	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH IN KEY SUCH THA TTERN WILL APP SHT OF THE LION RCLE WILL LOOP	THEN PRESS HOTKEY THAT THE PATTERN AT EXACTLY THE TOP EAR AT MECHANICAL HEAD PATTERN BECO C PERFECT CIRCLE Road Star SHEET	"1" TO ENABLE MENU HALF PORTION OF MES ' 9 - 9'.
4 1 2 1 3 4 5 PRO RAW	SELECT NTSC PRESS "MENU .HORIZONTAL VERTICAL LINI VERTICAL RAS VERTICAL HEI VERTICAL SCF	+648 CEN' SEL ADJ IS L' ERIT' SEL CEN GHT SEL CEN GHT SEL ACC COLL SEL	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USII UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR (ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SIZE" AND ADJUST IT SUCH 'EPTABLE RANGE IS 8.9 TO 9.1. (RE V-SC ECT "V-SC" AND ADJUST IT SUCH T STAGE: AV CHECKING JMABLES :	IE MANUFA	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH /N KEY SUCH THA TTERN WILL APP GHT OF THE LION //ASSY :F.A. JIGS / FIXTURE	THEN PRESS HOTKEY THAT THE PATTERN AT EXACTLY THE TOP EAR AT MECHANICAL HEAD PATTERN BECO C PERFECT CIRCLE Road Star SHEET INSTRUMENTS :	"1" TO ENABLE MENU HALF PORTION OF MES ' 9 - 9'.
4 1 2 1 3 4 5 PRO RAW SR N	SELECT NTSC PRESS "MENU .HORIZONTAL VERTICAL LINI VERTICAL RAS VERTICAL HEI VERTICAL SCF	+648 CEN' SEL ADJ IS L' ERIT' SEL CEN GHT SEL CEN GHT SEL ACC COLL SEL	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USII UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR Y ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SIZE" AND ADJUST IT SUCH TEPTABLE RANGE IS 8.9 TO 9.1. (RE V-SC ECT "V-SC" AND ADJUST IT SUCH T STAGE: AV CHECKING JMABLES : DESCRIPTION	IE MANUFA NG CHANN OLUME UP E. LUME UP/C H THAT PA THAT HEIC FER FIG-) HAT BIG C PCE	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH /N KEY SUCH THA TTERN WILL APP GHT OF THE LION //ASSY :F.A. JIGS / FIXTURE	THEN PRESS HOTKEY THAT THE PATTERN AT EXACTLY THE TOP EAR AT MECHANICAL HEAD PATTERN BECO C PERFECT CIRCLE Road Star SHEET INSTRUMENTS : REMOTE H-SET	"1" TO ENABLE MENU HALF PORTION OF MES ' 9 - 9'.
4 1 2 1 3 4 5 PRO RAV SR N 1	SELECT NTSC PRESS "MENU .HORIZONTAL VERTICAL LINI VERTICAL RAS VERTICAL HEI VERTICAL SCF	+648 CEN' SEL ADJ IS L' ERIT' SEL CEN GHT SEL CEN GHT SEL ACC COLL SEL	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USII UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR (ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SIZE" AND ADJUST IT SUCH 'EPTABLE RANGE IS 8.9 TO 9.1. (RE V-SC ECT "V-SC" AND ADJUST IT SUCH T STAGE: AV CHECKING JMABLES :	IE MANUFA	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH /N KEY SUCH THA TTERN WILL APP GHT OF THE LION //ASSY :F.A. JIGS / FIXTURE	THEN PRESS HOTKEY THAT THE PATTERN AT EXACTLY THE TOP EAR AT MECHANICAL HEAD PATTERN BECO C PERFECT CIRCLE Road Star INSTRUMENTS : REMOTE H-SET MONITOR av out SET	"1" TO ENABLE MENU HALF PORTION OF MES ' 9 - 9'.
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4 1 2 1 3 4 5 PRO RAV SR N 1	SELECT NTSC PRESS "MENU .HORIZONTAL VERTICAL LINI VERTICAL RAS VERTICAL HEI VERTICAL SCF DUCT : CTV MATERIAL / C STOCK NO	+648 CEN SEL ADJ IS L ERIT SEL CEN GHT SEL CEN GHT SEL ACC COLL SEL	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR Y ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SIZE" AND ADJUST IT SUCH TEPTABLE RANGE IS 8.9 TO 9.1. (RE V-SC ECT "V-SC" AND ADJUST IT SUCH T STAGE: AV CHECKING JMABLES : DESCRIPTION TV SET	IE MANUFA NG CHANN OLUME UP/E LUME UP/E H THAT PA THAT HEIG FER FIG-) HAT BIG C QPS 1	CTURING MODE. EL DOWN KEY. /DN KEYS SUCH /DN KEY SUCH THA TTERN WILL APP SHT OF THE LION //ASSY :F.A. JIGS / FIXTURE	THEN PRESS HOTKEY THAT THE PATTERN AT EXACTLY THE TOP EAR AT MECHANICAL HEAD PATTERN BECO C PERFECT CIRCLE Road Star INSTRUMENTS : REMOTE H-SET MONITOR av out SET	"1" TO ENABLE MENU HALF PORTION OF MES ' 9 - 9'.
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4 1 2 1 3 4 5 PRO SR N 1 2 3 4	SELECT NTSC PRESS "MENU .HORIZONTAL VERTICAL LINI VERTICAL RAS VERTICAL RAS VERTICAL RAS VERTICAL SCF DUCT : CTV V MATERIAL / C STOCK NO CONNECT THE AV IN CHECKIN KEEP MONITO CHANNEL "EU CONNECT "VIE LISTEN FOR N	+648 CENTSEL SEL SEL SEL SEL SEL SEL SEL SEL SEL SEL SEL SEL SEL SEL SEL SEL SEL	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR Y ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SCIE" AND ADJUST IT SUCH TEPTABLE RANGE IS 8.9 TO 9.1. (RE V-SC ECT "V-SC" AND ADJUST IT SUCH T STAGE: AV CHECKING JMABLES : DESCRIPTION TV SET SIGNAL CORD TO TUNNER. SELECT T IN TV MODE AND 'TESTING TV SET " IS SELECTED IN MONITOR TV SET. DUT" AND "AUDIO OUT" CORD OF M AL SOUND AND PICTURE OF CHANN FOR BOTH THE AUDIO IN JACKS.	IE MANUFA	ACTURING MODE. EL DOWN KEY. /DN KEYS SUCH /DN KEY SUCH THA /DN KEY SUCH THA TTERN WILL APP GHT OF THE LION ////////////////////////////////////	THEN PRESS HOTKEY THAT THE PATTERN AT EXACTLY THE TOP I EAR AT MECHANICAL HEAD PATTERN BECO C PERFECT CIRCLE Road Star SHEET INSTRUMENTS : REMOTE H-SET MONITOR av out SET AV CORDS monitor av in tv set ING "TV/AV" KEY ON R AND "AUDIO IN" JACK	"1" TO ENABLE MENU HALF PORTION OF MES ' 9 - 9'. :1 OF 1 PREPARED BY CHECKED BY EMOTE. :S OF TESTING TV SET
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4 1 2 1 3 4 5 PRO RAV 1 2 3 4 5 1	SELECT NTSC PRESS "MENU .HORIZONTAL VERTICAL LINI VERTICAL RAS VERTICAL RAS VERTICAL HEI VERTICAL SCF DUCT : CTV VMATERIAL / C STOCK NO CONNECT THE AV IN CHECKIM KEEP MONITO CHANNEL "EU CONNECT TVIE LISTEN FOR N CHECK THE AI AV OUT CHECK	+648 CEN SEL SEL SEL SEL SEL SEL SEL SEL SEL SEL	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR Y ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SIZE" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SC" AND ADJUST IT SUCH T STAGE: AV CHECKING JMABLES : DESCRIPTION TV SET SIGNAL CORD TO TUNNER. SELECT T IN TV MODE AND 'TESTING TV SET T' IS SELECTED IN MONITOR TV SET. DUT" AND "AUDIO OUT" CORD OF M AL SOUND AND PICTURE OF CHANN FOR BOTH THE AUDIO IN JACKS.	IE MANUFA	ACTURING MODE. EL DOWN KEY. /DN KEY SUCH THA TTERN WILL APP SHT OF THE LION RCLE WILL LOOP /ASSY :F.A. JIGS / FIXTURE "EU 2CH". AV' MODE BY US ET TO "VIDEO IN " H" PRESENT IN T MODE BY USING	THEN PRESS HOTKEY THAT THE PATTERN AT EXACTLY THE TOP I EAR AT MECHANICAL HEAD PATTERN BECO CPERFECT CIRCLE ROAD STATEST MONITOR av out SET AV CORDS monitor av in tv set ING "TV/AV" KEY ON R AND "AUDIO IN" JACK HE "TESTING TV SET".	"1" TO ENABLE MENU HALF PORTION OF MES ' 9 - 9'. : 1 OF 1 PREPARED BY CHECKED BY CHECKED BY EMOTE.
4 1 2 1 3 4 5 7 RAV SR N 1 2 3 4 5 1 2 3 4 5 1 2	SELECT NTSC PRESS "MENU .HORIZONTAL VERTICAL LINI VERTICAL RAS VERTICAL RAS VERTICAL HEI VERTICAL SCF DUCT : CTV VMATERIAL / C STOCK NO CONNECT THE AV IN CHECKIP KEEP MONITO CHANNEL "EU CONNECT "VIE LISTEN FOR N CHECK THE AI AV OUT CHECI KEEP MONITO SELECT SUB	+648 CEN'SEL SEL SEL SEL SEL SEL SEL SEL SEL SEL	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V OCATED HORIZONTALLY AT CENTR (ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SIZE" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SC" AND ADJUST IT SUCH T STAGE: AV CHECKING JMABLES : DESCRIPTION TV SET SIGNAL CORD TO TUNNER. SELECT T IN TV MODE AND 'TESTING TV SET " IS SELECTED IN MONITOR TV SET. DUT" AND "AUDIO OUT" CORD OF M AL SOUND AND PICTURE OF CHANN FOR BOTH THE AUDIO IN JACKS. :- T IN 'AV' MODE AND 'TESTING TV SI	IE MANUFA NG CHANN YOLUME UP/E LUME UP/E H THAT PA THAT HEIC FER FIG-) HAT BIG C QPS 1 CHANNEL T' IN 'EURO NOLITOR SI NEL "EU 20 ET' IN 'TV' I STING TV S	ACTURING MODE. EL DOWN KEY. /DN KEYS SUCH /DN KEY SUCH THA TTERN WILL APP GHT OF THE LION /ASSY :F.A. JJGS / FIXTURE "EU 2CH". AV' MODE BY USING ET TO "VIDEO IN " H" PRESENT IN T MODE BY USING ET.	THEN PRESS HOTKEY THAT THE PATTERN AT EXACTLY THE TOP I EAR AT MECHANICAL HEAD PATTERN BECO C PERFECT CIRCLE Road Star SHEET INSTRUMENTS : REMOTE H-SET MONITOR av out SET AV CORDS monitor av in tv set ING "TV/AV" KEY ON R AND "AUDIO IN" JACK HE "TESTING TV SET"	"1" TO ENABLE MENU HALF PORTION OF MES ' 9 - 9'.
4 1 2 1 3 4 5 7 RAV SR N 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5	SELECT NTSC PRESS "MENU .HORIZONTAL VERTICAL LINI VERTICAL RAS VERTICAL RAS VERTICAL HEI VERTICAL SCF DUCT : CTV VMATERIAL / C STOCK NO CONNECT : CTV VMATERIAL / C STOCK NO CHANNEL "EU CONNECT THE AV IN CHECKIN KEEP MONITO CHANNEL "EU CONNECT THE AU AV OUT CHECI KEEP MONITO SELECT SUB I CONNECT "VIE	+648 CENT SEL	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR (ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SIZE" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SIZE" AND ADJUST IT SUCH ISTAGE: AV CHECKING JMABLES : DESCRIPTION TV SET SIGNAL CORD TO TUNNER. SELECT T IN TV MODE AND 'TESTING TV SET OUT" AND "AUDIO OUT" CORD OF M AL SOUND AND PICTURE OF CHANN FOR BOTH THE AUDIO IN JACKS. :	IE MANUFA	ACTURING MODE. EL DOWN KEY. /DN KEYS SUCH /DN KEY SUCH THA TTERN WILL APP GHT OF THE LION //ASSY :F.A. JIGS / FIXTURE //ASSY :F.A. IJGS / FIXTURE //ASSY :F.A. //ACCH WILL LOOP //ASSY :F.A. JIGS / FIXTURE //ACCH WILL LOOP //ASSY :F.A. //ACCH WILL LOOP //ASSY :F.A. //ACCH WILL LOOP //ASSY :F.A. //ACCH WILL LOOP //ACCH WILL LOOP	THEN PRESS HOTKEY THAT THE PATTERN AT EXACTLY THE TOP I EAR AT MECHANICAL HEAD PATTERN BECO C PERFECT CIRCLE Road Star SHEET INSTRUMENTS : REMOTE H-SET MONITOR av out SET AV CORDS monitor av in tv set ING "TV/AV" KEY ON R AND "AUDIO IN" JACK HE "TESTING TV SET".	"1" TO ENABLE MENU HALF PORTION OF MES ' 9 - 9'. : 1 OF 1 PREPARED BY CHECKED BY EMOTE. :S OF TESTING TV SET TE. :S OF TESTING TV SET
4 1 2 1 3 4 5 PRO RAV SR N 1 2 3 4 5 1 2 3 4 5 1 2 3 4	SELECT NTSC PRESS "MENU .HORIZONTAL VERTICAL LINI VERTICAL RAS VERTICAL RAS VERTICAL HEI VERTICAL SCF DUCT : CTV VMATERIAL / C STOCK NO CONNECT THE AV IN CHECKIN KEEP MONITO CHANNEL "EU CONNECT THE AV OUT CHECK KEEP MONITO SELECT SUB CONNECT "VIE LISTEN FOR N	+648 CENT SEL SEL SEL SEL SEL SEL SEL SEL SEL SEL	3" KEYS SEQUENCE TO ACCESS TH FERING: H-SHIFT ECT PARAMETER "H-SHIFT" BY USI UST "H-SHIFT" VALUE BY USING V DCATED HORIZONTALLY AT CENTR (ADJUSTMENT: V-SLOPE ECT "V-SLOPE" & ADJUST IT BY VO MA PATTERN IS VISIBLE. SHIFT: V-SHIFT ECT "V-SHIFT" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SIZE" AND ADJUST IT SUCH TRE OF THE PICTURE TUBE. ** V-SIZE ECT "V-SIZE" AND ADJUST IT SUCH EPTABLE RANGE IS 8.9 TO 9.1. (RE V-SC ECT "V-SC" AND ADJUST IT SUCH T STAGE: AV CHECKING JMABLES : DESCRIPTION TV SET SIGNAL CORD TO TUNNER. SELECT T IN TV MODE AND 'TESTING TV SET. DUT" AND "AUDIO OUT" CORD OF M AL SOUND AND PICTURE OF CHANN FOR BOTH THE AUDIO IN JACKS. :	IE MANUFA	ACTURING MODE. EL DOWN KEY. /DN KEYS SUCH /DN KEY SUCH THA TTERN WILL APP GHT OF THE LION //ASSY :F.A. JIGS / FIXTURE //ASSY :F.A. IJGS / FIXTURE //ASSY :F.A. //ACCH WILL LOOP //ASSY :F.A. JIGS / FIXTURE //ACCH WILL LOOP //ASSY :F.A. //ACCH WILL LOOP //ASSY :F.A. //ACCH WILL LOOP //ASSY :F.A. //ACCH WILL LOOP //ACCH WILL LOOP	THEN PRESS HOTKEY THAT THE PATTERN AT EXACTLY THE TOP I EAR AT MECHANICAL HEAD PATTERN BECO C PERFECT CIRCLE Road Star SHEET INSTRUMENTS : REMOTE H-SET MONITOR av out SET AV CORDS monitor av in tv set ING "TV/AV" KEY ON R AND "AUDIO IN" JACK HE "TESTING TV SET".	"1" TO ENABLE MENU HALF PORTION OF MES ' 9 - 9'. : 1 OF 1 PREPARED BY CHECKED BY EMOTE. :S OF TESTING TV SET TE. :S OF TESTING TV SET

PRC	DDUCT : CTV	STAGE: SOUND Q.C2	PCB	/ASSY :F.A.	RoadStar	SHEET :	
RAV	W MATERIAL / CONS	JMABLES :			INSTRUMENTS	:	PREPARED BY
SR N	STOCK NO LOC	DESCRIPTION	QPS				
1		TV SET	1		REMOTE		
2					HAMMER		CHECKED BY
	CONNECT THE RE	SIGNAL CORD TO TUNER.				I	
		NE VARIATION FROM ZERO TO MAX. (FOR	CH-0	2 & CH-05) SOUN		DISTORTIC	NC
-	FREE AT MAX. VOL		011-0	2 a 011-03/0001			
2		NG SOUND , DISTORTED SOUND PROBLE	ме				
			wi5				
	CHECK SOUND MU						
		S FOR LOOSE CONTACT.					
		GNAL CORD FROM TUNER.					
7	FOR DETAILS, PLE	ASE REFER USERS GUIDE BOOK.					
	OCK TEST:						
1	GENTLY HIT THE H	AMMER ON TOP SIDE OF FRONT COVER.	CHEC	K FOR ANY ABNO	DRMALITY		
PRC	DDUCT : CTV	STAGE: PICTURE Q.C2	PCB	/ASSY :F.A.	RoadStar	SHEET :	1 OF 1
RAV	W MATERIAL / CONS	JMABLES :		JIGS / FIXTURE	INSTRUMENTS	:	PREPARED BY
SR N	STOCK NO LOC	DESCRIPTION	QPS				
1		TV SET	1		SERVICE REMO	OTE	
		AL CORD TO TUNER .				1	
		"EU 5CH" .CHECK FOR GEOMETRICAL A			ALICNMENTS /L		
2		EUSCH .CHECK FOR GEOMETRICAL A	LIGINI	ENTS, DISPLAT	ALIGINIVIEN 13,(F		
	HEAD PATTERN.)						
		RN SHOULD LOOK LINEAR AND SYMMET					
3		ADJUSTMENT AT DIAGONAL CENTRE	OF PI	CIURE IUBE. 30	DIGITS ON LIO	N HEAD	
		BE SHARP VISIBLE.					
4	PRESS "ZOOM	KEY ON REMOTE TO SELECT "ZO	DOW' I	MODE AND CHEC	K THAT HEIGHT	OF THE F	RETMA PATTERN IS
	SELECT "WIDE" MC	DE AND CHECK THAT PATTERN HEIGHT	IS 75%	6 OF THE SCREE	Ν.		
5	SELECT CROSS HA	TCH PATTERN (EU 4CH) AND CHECK FOR	CON	VERGENCE QUA	ITY. HORIZONT	TAL AND V	ERTICAL LINES
	SHOULD BE WHITE						
6	CHECK FOR SUB E	RIGHTNESS ON CHANNEL (EU 2CH) SU	B BRI	GHTNESS SHOUL	D BE SUCH TH	AT 5&1/	2 BARS ON
		PATTERN WITH PICTURE MODE "STANDA					
		ST PARAMETER "SBI" IN SERVICE MENU			FIED SUB BRIG	HTNESS A	
					LED COD DIGO		
7		DISPLAY IS NOT CUTTING ON COLOUR B	AR+C	IRCI E PATTERN			
		DISPLAY IS NOT CUTTING ON COLOUR B			WHEN 'ZOOM' N		
8	CHECK FOR P-CON	TROL- CONTRAST, BRIGHTNESS, COLOUR	,SHA	RPNESS.	WHEN 'ZOOM' N		
8 9	CHECK FOR P-CON CHECK FOR ALL B	TROL- CONTRAST,BRIGHTNESS,COLOUR ANDS TUNING WITH THEIR RESPECTIVE S	SHA, SHA	RPNESS. D.	WHEN 'ZOOM' N		
8 9 10	CHECK FOR P-CON CHECK FOR ALL BA CHECK FOR WHITE	TROL- CONTRAST,BRIGHTNESS,COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR	SHA SOUNI	RPNESS.).)H.			
8 9 10 11	CHECK FOR P-CON CHECK FOR ALL BA CHECK FOR WHITE CHECK FOR SELEC	TROL- CONTRAST,BRIGHTNESS,COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD,	SHA SOUNI PATO DYNA	RPNESS. D. CH. MIC, MILD , USEF		IODE IS SI	ELECTED.
8 9 10 11 13	CHECK FOR P-CON CHECK FOR ALL B CHECK FOR WHITE CHECK FOR SELEC CHECK CPT RELAT	TROL- CONTRAST,BRIGHTNESS,COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD, ED PROBLEMS (SCRATCH/CONVERGENC	SHA OUNI PATO DYNA	RPNESS. D. CH. MIC, MILD , USEF NAMIC&STATIC /	l. YOKE TILT,CPT	GAP OR	ELECTED.
8 9 10 11 13	CHECK FOR P-CON CHECK FOR ALL BA CHECK FOR WHITE CHECK FOR SELEC CHECK CPT RELAT CHECK FOR RASTE	TROL- CONTRAST, BRIGHTNESS, COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD, ED PROBLEMS (SCRATCH/CONVERGENC R COLLAPSE DURING SWITCH OFF, CHE	SHA OUNI PATO DYNA	RPNESS. D. CH. MIC, MILD , USEF NAMIC&STATIC /	l. YOKE TILT,CPT	GAP OR	ELECTED.
8 9 10 11 13 14	CHECK FOR P-CON CHECK FOR ALL B. CHECK FOR WHITE CHECK FOR SELEC CHECK CPT RELAT CHECK FOR RASTE BAR, BLOOMING, R	TROL- CONTRAST, BRIGHTNESS, COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD, ED PROBLEMS (SCRATCH/CONVERGENC R COLLAPSE DURING SWITCH OFF, CHE ETRACE LINES, STRAY EMISSION ETC.	SHA OUNI PATO DYNA	RPNESS. D. CH. MIC, MILD , USEF NAMIC&STATIC /	l. YOKE TILT,CPT	GAP OR	ELECTED.
8 9 10 11 13 14 15	CHECK FOR P-CON CHECK FOR ALL B. CHECK FOR WHITE CHECK FOR SELEC CHECK CPT RELAT CHECK FOR RASTE BAR, BLOOMING, R FOR DETAILS, PLE	TROL- CONTRAST, BRIGHTNESS, COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD, ED PROBLEMS (SCRATCH/CONVERGENC ER COLLAPSE DURING SWITCH OFF, CHE ETRACE LINES, STRAY EMISSION ETC. ASE REFER USERS GUIDE BOOK	R,SHA Souni Pato Dyna E-Dyi CK Fo	RPNESS. D. CH. MIC, MILD , USEF NAMIC&STATIC / DR THE PROBLE	2. YOKE TILT,CPT MS SUCH AS DA	GAP OR	ELECTED.
8 9 10 11 13 14 15	CHECK FOR P-CON CHECK FOR ALL B. CHECK FOR WHITE CHECK FOR SELEC CHECK CPT RELAT CHECK FOR RASTE BAR, BLOOMING, R FOR DETAILS, PLE	TROL- CONTRAST, BRIGHTNESS, COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD, ED PROBLEMS (SCRATCH/CONVERGENC R COLLAPSE DURING SWITCH OFF, CHE ETRACE LINES, STRAY EMISSION ETC.	R,SHA Souni Pato Dyna E-Dyi CK Fo	RPNESS. D. CH. MIC, MILD , USEF NAMIC&STATIC / DR THE PROBLE	2. YOKE TILT,CPT MS SUCH AS DA	GAP OR	ELECTED. TILT).
8 9 10 11 13 14 15 PRC	CHECK FOR P-CON CHECK FOR ALL B. CHECK FOR WHITE CHECK FOR SELEC CHECK CPT RELAT CHECK FOR RASTE BAR, BLOOMING, R FOR DETAILS, PLE	TROL- CONTRAST, BRIGHTNESS, COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD, ED PROBLEMS (SCRATCH/CONVERGENC R COLLAPSE DURING SWITCH OFF, CHE ETRACE LINES, STRAY EMISSION ETC. ASE REFER USERS GUIDE BOOK STAGE: FEATURE CHECKINC	R,SHA Souni Pato Dyna E-Dyi CK Fo	RPNESS. D. CH. MIC, MILD , USEF NAMIC&STATIC / DR THE PROBLE	YOKE TILT,CPT MS SUCH AS DA	GAP OR GAP OF COMPANY OF COM	ELECTED. TILT).
8 9 10 11 13 14 15 PRC RAV	CHECK FOR P-CON CHECK FOR ALL B CHECK FOR WHITE CHECK FOR SELEC CHECK FOR RELAT CHECK FOR RASTE BAR, BLOOMING, R FOR DETAILS, PLE DUCT : CTV	TROL- CONTRAST, BRIGHTNESS, COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD, ED PROBLEMS (SCRATCH/CONVERGENC R COLLAPSE DURING SWITCH OFF, CHE ETRACE LINES, STRAY EMISSION ETC. ASE REFER USERS GUIDE BOOK STAGE: FEATURE CHECKINC	R,SHA Souni Pato Dyna E-Dyi CK Fo	RPNESS. D. CH. MIC, MILD , USEF NAMIC&STATIC / DR THE PROBLE /ASSY :F.A.	YOKE TILT,CPT MS SUCH AS DA	GAP OR GAP OF COMPANY OF COM	ELECTED. TILT).
8 9 10 11 13 14 15 PRC RAV	CHECK FOR P-CON CHECK FOR ALL B CHECK FOR WHITE CHECK FOR SELEC CHECK FOR RELAT CHECK FOR RASTE BAR, BLOOMING, R FOR DETAILS, PLE DUCT : CTV	TROL- CONTRAST, BRIGHTNESS, COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD, ED PROBLEMS (SCRATCH/CONVERGENC R COLLAPSE DURING SWITCH OFF, CHE ETRACE LINES, STRAY EMISSION ETC. ASE REFER USERS GUIDE BOOK STAGE: FEATURE CHECKINC JMABLES :	R,SHA SOUNI PATC DYNA E-DYI CK FC	RPNESS. D. CH. MIC, MILD , USEF NAMIC&STATIC / DR THE PROBLE /ASSY :F.A. JIGS / FIXTURE	YOKE TILT,CPT MS SUCH AS DA	GAP OR GAP OF COMPANY OF COM	ELECTED. TILT).
8 9 10 11 13 14 15 PRC RAV SR N	CHECK FOR P-CON CHECK FOR ALL B CHECK FOR WHITE CHECK FOR SELEC CHECK FOR RELAT CHECK FOR RASTE BAR, BLOOMING, R FOR DETAILS, PLE DUCT : CTV	TROL- CONTRAST, BRIGHTNESS, COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD, ED PROBLEMS (SCRATCH/CONVERGENC R COLLAPSE DURING SWITCH OFF, CHE ETRACE LINES, STRAY EMISSION ETC. ASE REFER USERS GUIDE BOOK STAGE: FEATURE CHECKINC JMABLES : DESCRIPTION TV SET	R,SHA SOUNI PAT(DYNA E-DYI CK F(PCB	RPNESS. D. CH. MIC, MILD , USEF NAMIC&STATIC / DR THE PROBLE /ASSY :F.A. JIGS / FIXTURE	C. YOKE TILT,CPT MS SUCH AS DA RoadStar INSTRUMENTS	GAP OR GAP OF COMPANY OF COM	ELECTED. TILT).
8 9 10 11 13 14 15 PRC RAV SR N	CHECK FOR P-CON CHECK FOR ALL B CHECK FOR WHITE CHECK FOR SELEC CHECK FOR RASTE BAR, BLOOMING, R FOR DETAILS, PLE DUCT : CTV W MATERIAL / CONS STOCK NO LOC SWITCH ON THE SE	TROL- CONTRAST, BRIGHTNESS, COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD, ED PROBLEMS (SCRATCH/CONVERGENC R COLLAPSE DURING SWITCH OFF, CHE ETRACE LINES, STRAY EMISSION ETC. ASE REFER USERS GUIDE BOOK STAGE: FEATURE CHECKINC JMABLES : DESCRIPTION TV SET	R,SHA SOUNI PAT(DYNA E-DYI CK F(PCB	RPNESS. D. CH. MIC, MILD , USEF NAMIC&STATIC / DR THE PROBLE /ASSY :F.A. JIGS / FIXTURE	C. YOKE TILT,CPT MS SUCH AS DA RoadStar INSTRUMENTS	GAP OR GAP OF COMPANY OF COM	ELECTED. TILT).
8 9 10 11 13 14 15 PRC RAV SR N 1	CHECK FOR P-CON CHECK FOR ALL BA CHECK FOR WHITE CHECK FOR SELEC CHECK FOR RELAT CHECK FOR RASTE BAR, BLOOMING, R FOR DETAILS, PLE DUCT : CTV W MATERIAL / CONS STOCK NO LOC SWITCH ON THE SE SELECT FOLLOWIN	TROL- CONTRAST, BRIGHTNESS, COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD, ED PROBLEMS (SCRATCH/CONVERGENC R COLLAPSE DURING SWITCH OFF, CHE ETRACE LINES, STRAY EMISSION ETC. ASE REFER USERS GUIDE BOOK STAGE: FEATURE CHECKINC JMABLES : DESCRIPTION TV SET T. IG FUNCTIONS -	A SHA SOUNI PATO DYNA E-DYI CK FO CK FO QPS 1	RPNESS. D. CH. MIC, MILD , USEF NAMIC&STATIC / DR THE PROBLE (ASSY :F.A. JIGS / FIXTURE	YOKE TILT,CPT MS SUCH AS DA RoadStar INSTRUMENTS REMOTE	GAP OR GAP OF COMPANY OF COM	ELECTED. TILT).
8 9 10 11 13 14 15 PRC RAV SR N 1	CHECK FOR P-CON CHECK FOR ALL BA CHECK FOR WHITE CHECK FOR SELEC CHECK FOR SELEC CHECK FOR RASTE BAR, BLOOMING, R FOR DETAILS, PLE DUCT : CTV MATERIAL / CONS STOCK NO LOC SWITCH ON THE SE SELECT FOLLOWIN SELECT "SETTINGS	TROL- CONTRAST, BRIGHTNESS, COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD, ED PROBLEMS (SCRATCH/CONVERGENC R COLLAPSE DURING SWITCH OFF, CHE ETRACE LINES, STRAY EMISSION ETC. ASE REFER USERS GUIDE BOOK STAGE: FEATURE CHECKINC JMABLES : DESCRIPTION TV SET T. IG FUNCTIONS - 5" MENU AND CHECK 'EURO AV' FOR 'Y/C	A SHAR SOUNI PATO DYNA E-DYI CK FO QPS 1	RPNESS. D. CH. MIC, MILD , USEF NAMIC&STATIC / DR THE PROBLE (ASSY :F.A. JIGS / FIXTURE	YOKE TILT,CPT MS SUCH AS DA RoadStar INSTRUMENTS REMOTE	GAP OR GAP OF COMPANY OF COM	ELECTED. TILT).
8 9 10 11 13 14 15 PRC RAV SR N 1 2	CHECK FOR P-CON CHECK FOR ALL BA CHECK FOR WHITE CHECK FOR SELEC CHECK FOR SELEC CHECK FOR RASTE BAR, BLOOMING, R FOR DETAILS, PLE DUCT : CTV MATERIAL / CONS STOCK NO LOC SWITCH ON THE SE SELECT FOLLOWIN SELECT "SETTINGS IN SETTINGS MENU	TROL- CONTRAST, BRIGHTNESS, COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD, ED PROBLEMS (SCRATCH/CONVERGENC R COLLAPSE DURING SWITCH OFF, CHE ETRACE LINES, STRAY EMISSION ETC. ASE REFER USERS GUIDE BOOK STAGE: FEATURE CHECKINC JMABLES : DESCRIPTION TV SET T. IG FUNCTIONS - 5" MENU AND CHECK 'EURO AV' FOR 'Y/C - CHECK TONE=NORMAL, WARM, COOL.	A ,SHA OUNI PATO DYNA E-DYI CK FO QPS QPS 1	RPNESS. D. CH. MIC, MILD , USEF NAMIC&STATIC / DR THE PROBLE /ASSY :F.A. JIGS / FIXTURE 3, VIDEO' OPTION	YOKE TILT,CPT MS SUCH AS DA RoadStar INSTRUMENTS REMOTE S.	IODE IS SI GAP OR ' AMPING SHEET :	ELECTED. TILT).
8 9 10 11 13 14 15 PRC RAV 5R N 1 2 3	CHECK FOR P-CON CHECK FOR ALL B CHECK FOR WHITE CHECK FOR WHITE CHECK FOR SELEC CHECK FOR RASTE BAR, BLOOMING, R FOR DETAILS, PLE. DUCT : CTV MATERIAL / CONS STOCK NO LOC SWITCH ON THE SE SELECT FOLLOWIN SELECT "SETTINGS IN SETTINGS MENU CHECK 'BLACK ST	TROL- CONTRAST, BRIGHTNESS, COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD, ED PROBLEMS (SCRATCH/CONVERGENC R COLLAPSE DURING SWITCH OFF, CHE ETRACE LINES, STRAY EMISSION ETC. ASE REFER USERS GUIDE BOOK STAGE: FEATURE CHECKINC JMABLES : DESCRIPTION TV SET T. G FUNCTIONS - " MENU AND CHECK 'EURO AV' FOR 'Y/C - CHECK TONE=NORMAL, WARM, COOL. RETCH' IN SETTINGS MENU-BRIGHTNESS	A SHA OUNE PATO DYNA E-DYNA CK FO QPS 1 QPS 1	RPNESS. D. CH. MIC, MILD , USEF VAMIC&STATIC / DR THE PROBLE /ASSY :F.A. JIGS / FIXTURE 3, VIDEO' OPTION EASES WHEN BL	NOKE TILT, CPT	GAP OR ' AMPING SHEET : S' S' OFF'.	ELECTED. TILT).
8 9 10 11 13 14 15 PRC RAV SR N 1 2 3 4	CHECK FOR P-CON CHECK FOR ALL B CHECK FOR MHITE CHECK FOR SELEC CHECK FOR SELEC CHECK FOR RASTE BAR, BLOOMING, R FOR DETAILS, PLE DUCT : CTV WMATERIAL / CONS STOCK NO LOC SWITCH ON THE SE SELECT FOLLOWIN SELECT "SETTINGS IN SETTINGS MENU CHECK 'BLACK STI SELECT "TIMER" M	TROL- CONTRAST, BRIGHTNESS, COLOUR ANDS TUNING WITH THEIR RESPECTIVE S BALANCE, TILT ALIGNMENT.& COLOUR TABLE PICTURE MODES AS STANDARD, ED PROBLEMS (SCRATCH/CONVERGENC R COLLAPSE DURING SWITCH OFF, CHE ETRACE LINES, STRAY EMISSION ETC. ASE REFER USERS GUIDE BOOK STAGE: FEATURE CHECKINC JMABLES : DESCRIPTION TV SET T. IG FUNCTIONS - " MENU AND CHECK 'EURO AV' FOR 'Y/C - CHECK TONE=NORMAL, WARM, COOL. RETCH' IN SETTINGS MENU-BRIGHTNESS ENU AND CHECK THAT ON TIMER, OFF TI	2, SHA GOUNI PAT(DYNA E-DYI CK F(PCB QPS 1 ; RGE	RPNESS. D. CH. MIC, MILD , USEF NAMIC&STATIC / DR THE PROBLE /ASSY :F.A. JIGS / FIXTURE 3, VIDEO' OPTION EASES WHEN BL REPEAT SETTING	X. YOKE TILT,CPT MS SUCH AS DA RoadStar INSTRUMENTS REMOTE S. ACK STRETCH I SS ARE AVAILA	GAP OR ' GAP OR ' AMPING SHEET : : : : : : : : : : : : : : : : : : :	ELECTED. TILT). 1 OF 1 PREPARED BY
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