

General Information

Formenti F16 chassis

(there is no service mode)

Alignments

38.9 Mhz and AFC

Connect a 38.9 Mhz intermediate-frequency generator to the tuner's LF output pin 17 and adjust the core L 4 so as to obtain 4,5 V at pin 9 of TDA 8361/2A.

POWER SUPPLY

Measure the direct voltage at the terminals of diode DJ1 or D 38 and potentiometer R 162 so as to obtain a voltage of 105/110 V. (900) 142/152 V. (110°).

AGC

Apply a 60dBuV (+/- 1 dB) RF signal, band III, channel 10-to-12, and adjust potentiometer R 111 so as to obtain a voltage of about 8V at tuner pin no. 5 (This voltage depends on the tuner used, so check on the letter's characteristics).

WHITE SETTING

ADJUSTMENT WITH ANALOGUE VOLTMETER

- Power on TV SET
- Tune to a signal with white screen
- Contrast control set to minimum
- Adjust brightness to 2,5 V.D.C. on pin 17 TDA 8361/2A
- Analogue voltmeter 200 V.D.C. full scale
- Check for the highest P.T. cathode voltage than adjust it for 165 V.D.C. via G 2 potentiometer (on E.H.T. transformer)

VERTICAL CENTRING

- Adjust R 194 (VA) for proper vertical height
- Adjust R 192 (VL) for proper vertical linearity
- Cut/solder the R 215 and/or R 216 and/or R 257 in order to obtain the right vertical geometric centring between CRT and signal (for example, use a test-pattern signal)

HORIZONTAL CENTRING AND EAST-WEST CORRECTION (110° ONLY)

- Adjust R 186 (HC) for proper horizontal centring
 - Adjust R 205 (HA) for proper horizontal width
 - Adjust R 200 (OW) for proper pin-cushion
 - Adjust R 203 (TZ) for proper trapezium A2
- STEREO MODULE

Apply to the TV antenna input connector a TV signal with audio stereo (R = 3 KHz L = 1 KHz) from a generator, or alternatively, tune a TV channel with stereo transmission. Adjust the coil L 1 to obtain the maximum level of signal at IC TDA 9840 pin 5.

Adjustment of VR 1 (stereo dematrixing).

For this adjustment only stereo signal generator should be used. Connect the scope probe at pin 1 and 3 of TDA 8425. Eliminate modulation tone of the left channel, adjusting trimmer VP. 1 for the minimum level signal on the right channel (pin 1 of TDA 8425).

Dual language decoding verifier using a TV generator in a dual mode or tuning a TV channel

with dual language program, verify the switching of a language by A/B button on the remote control and check the relative O.S.D.

NICAM 3 DECODER

- Apply a Nicam signal to the TV antenna
- Connect a probe to pin 17 of IC 4
- Adjust L 3 to obtain the minimum video modulation
- Verifier on the pin 39 of IC 1 that there is 2,5 V DC (use a scope)
- Check voltages on pin SM 2 and SM 4 on the connector SM. The amplitude of this voltage should be 800 mV pp.
- Check signal on the loudspeaker, should be 20 Vpp with maximum volume

Non Nicam reception

- Using remote control activate NICAM-OFF push button
- Check with a scope the signal on SM 2 and SM 4 (SM connector) that should be 800 mVpp
- Switch the generator from NICAM to stereo signal
- Connect a probe on pin 6 of IC 3
- Adjust the coil L 2 to obtain the maximum level of signal (54 KHz)
- Switch off modulation tone 3 KHz, connect a probe on SM 4 and adjust R 40 for minimum tone at 1KHz.
- Connect the modulation tone 3 KHz
- Verifier on contact SM 2 (left) and SM 4 (right) (connector SM) that should be 800 mVpp
- Check signal on loudspeaker, should be 20 Vpp with maximum volume

The End