

FUNCTION OF SEMICONDUCTORS

TR620(UT892ZH)

REF No	DESCRIPTION	SPEC	MANUFACTURE	CIRCUIT FUNCTION
IC105	INTEGRATED CIRCUIT	MB89983	FUJITSU	MICRO COMPUTER
D101	DIODE	1SS390	TOSHIBA	ANTENNA SWITCHING
D102	DIODE	1SS390	TOSHIBA	ANTENNA SWITCHING
D105	DIODE:VARICAP	HVU307	HITACH	TCXO VOLTAGE SHIFTER
D107	DIODE	MA2SV0200L	MATSUSHITA	REFERENCE FREQUENCY CONTROLLER
D108	DIODE	GD LL4148	GOODARK	CIRCUIT PROTECTION
D109	DIODE	GD LL4148	GOODARK	CIRCUIT PROTECTION
IC101	INTEGRATED CIRCUIT	AN6311FA-V	MATSUSHITA	RX 2nd MIX,2nd IF AMP & DETECTOR / PLL
IC102	INTEGRATED CIRCUIT	NJM2113M	JRC	RX AF POWER AMPLIFIER
IC103	INTEGRATED CIRCUIT	NJM2870F03	JRC	3.0V VOLTAGE REGULATOR
Q101	TRANSISTOR	55GN01M-TL	SANYO	RX RF AMPLIFIER
Q102	TRANSISTOR	55GN01M-TL	SANYO	RX RF AMPLIFIER
Q103	TRANSISTOR	DRF1401	DAEWOO	TX FINAL POWER AMPLIFIER
Q105	TRANSISTOR	55GN01M-TL	SANYO	TX DRIVER
Q106	TRANSISTOR	55GN01M-TL	SANYO	TX PRE DRIVER
Q107	TRANSISTOR	2SC5635-T22-1U	MITSUBISHI	VCO BUFFER
Q108	TRANSISTOR	55GN01M-TL	SANYO	VCO OSCILLATOR
Q111	TRANSISTOR	2SA1235A-T12-1F	MITSUBISHI	TX FINAL TRANSISTOR BIAS SWITCHING
Q112	TRANSISTOR	2SA1235A-T12-1F	MITSUBISHI	TX POWER SOURCE SWITCHING
Q113	TRANSISTOR	2SA1235A-T12-1F	MITSUBISHI	RX POWER SOURCE SWITCHING
Q115	TRANSISTOR	2SA1235A-T12-1F	MITSUBISHI	PLL POWER SOURCE SWITCHING
Q116	TRANSISTOR	2SC3052-T12-1F	MITSUBISHI	MICRO COMPUTER RESET
Q118	TRANSISTOR	2SC3052-T12-1F	MITSUBISHI	TX FINAL TRANSISTOR BIAS SWITCHING

ALIGNMENT PROCEDURE FOR MODEL TR620(UT892ZH)

TRANSMITTER

STEP	MODE	CHANNEL	FREQUENCY	CONDITION	ADJUST	METHOD
1	TX	1	462.5625MHz	RF POWER METER TO ANTENNA PATTERN (HOT AND GND) OF THE PCB .	-	CHECK THE RF OUTPUT POWER "LESS THAN 0.5W " .
2	TX	1	462.5625MHz	FM LINEAR DETECTOR TO ANTENNA PATTERN(HOT AND GND) OF THE PCB. MODULATION : 1KHz 100mVrms TO MIC INPUT FILTER : HPF OFF / LPF 15KHz DE-EMPHASIS OFF	RT103	ADJUST RT103 TO OBTAIN ± 2.2 KHz DEVIATION.

RECEIVER

STEP	MODE	CHANNEL	FREQUENCY	CONDITION	ADJUST	METHOD
1	RX	1	462.5625MHz	DC VOLT METER TO "TP2" RF SIGNAL GENERATOR TO ANTENNA PATTERN(HOT AND GND). SG LEVEL : 1mV NO MODULATION.	L109	ADJUST L109 TO OBTAIN MAX READING
2	RX	1	462.5625MHz	RF SIGNAL GENERATOR TO ANTENNA PATTERN(HOT AND GND). SINAD METER TO SPEAKER OUT WITH 16 Ω DUMMY LOAD. SG LEVEL : SET TO SG LEVEL AT SINAD 8dB LEVEL. MODULATION : 1KHz	RT103	ADJUST RT103 TO OBTAIN ± 2.2 KHz DEVIATION.