

APPENDIX 3
FUNCTION OF DEVICES
HJC-FRS

ONE (1) PAGE LIST FOLLOWS THIS SHEET

FUNCTION OF DEVICES
FCC ID: KA9HJC-FRS

APPENDIX 3

THEORY OF OPERATION

1. SEMICONDUCTORS AND FUNCTION

1.1 IC COMPLEMENT

REF.NO	TYPE	MANUFACTURER	FUNCTION
IC404	68HC05P1	THOSHIBA	CPU IC
IC503	KIA7805P	KEC	IC REGULATOR
IC201	TA31136FN	TOCO	IF IC
IC401,2	NJM2902	JRC	BUFFER & AMP
IC501	LV2105V	SANYO	PLL IC
IC502	TK11230AMTL	TOKO JAPAN	REGULATOR IC
IC202	KIA 6278F	KEC	KEC

1.2 TRANSISTOR COMPLEMENT

REF.NO	TYPE	MANUFACTURER	FUNCTION
Q101	BLT 50	PHILLIPS	RF FINAL AMP
Q102	MMBR951	MOTOROLA	RF DRIVER AMP
Q103	MMBR951	MOTOROLA	RF PRE-DRIVER AMP
Q404-406	KRA110S	KEC	CH,INT,LOWBAT SELECT
Q503-505	KRA110S	KEC	RX B+ SWITCH
Q303	MMBR951	MOTOROLA	VCO AMP
Q303	MMBR951	MOTOROLA	VCO AMP
Q105-107	KTC3875	KEC	APC CONTROL,
206,301			AUDIO MUTE, VCO B+SW
Q201,202	2SC3356	NEC	RF AMP, MIXER
Q304	2SC3356	NEC	VCO OSC
Q205	MMBC1321	MOTOROLA	IF AMP
Q104	KRA225S	KEC	APC SW
203			AUDIO B+ S/W
Q204,	KRC104S	KEC	AUDIO POWER MUTE
305			RX/TX FREQ SW
501			AUDIO IN MUTE
Q506	KRC110S	KEC	UNLOCK SWITCH
507			NO SQ AUDIO MUTE
508			SQ LEVEL CONVERTOR
Q401	KTC3875	KEC	INTERCOM MUTE
402,403			LOW BAT LED SW
407,408			RESET LEVEL CONTROL
509			RX VCO MOD PROTECT
Q502	KRA104S	KEC	PTT TX SW