

IC 503 (4066)

PIN NO.	SWITCH CONDITION	UNIT	CW	FM	AM	USB	LSB
1	TX CAL OFF	V	2.3	2.3	2.2	4.3	4.3
	TX SWR ON	V	1	1	1	2.6	2.6
2	TX CAL ON	V	1.6	1.6	1.6	3.4	3.3
	TX SWR ON	V	1.1	1.1	1.1	2.7	2.7
3			N.C.	N.C.	N.C.	N.C.	N.C.
4			N.C.	N.C.	N.C.	N.C.	N.C.
5			N.C.	N.C.	N.C.	N.C.	N.C.
6			N.C.	N.C.	N.C.	N.C.	N.C.
7	GROUND	V	0	0	0	0	0
8			N.C.	N.C.	N.C.	N.C.	N.C.
9			N.C.	N.C.	N.C.	N.C.	N.C.
10			N.C.	N.C.	N.C.	N.C.	N.C.
11	TX CAL ON	V	2.4	2.3	2.3	4.5	4.5
	TX SWR ON	V	4.3	4.1	4.2	5.4	5.4
12	TX CAL ON	V	4	4	4	4	4
	TX SWR ON	V	0	0	0	0	0
13	TX CAL ON	V	0	0	0	0	0
	TX SWR ON	V	4.8	4.8	4.8	4.8	4.8
14	TX CAL ON	V	4.8	4.8	4.8	4.8	4.8
	TX SWR ON	V	4.8	4.8	4.8	4.8	4.8

IC1 (UTC33618)

PIN NO.	SWITCH CONDITION	UNIT	CW	FM	AM	USB	LSB
1	RX OPERATION	V	4.6	4.6	4.6	4.6	4.6
2	RX OPERATION	V	4.03	4.03	4.03	4.03	4.03
3	RX OPERATION	V	4.4	4.4	4.4	4.4	4.4
4	RX OPERATION	V	4.65	4.65	4.65	4.65	4.65
5	RX OPERATION	V	3.43	3.43	3.43	3.43	3.43
6	RX OPERATION	V	3.43	3.43	3.43	3.43	3.43
7	RX OPERATION	V	3.43	3.43	3.43	3.43	3.43
8	RX OPERATION	V	4.66	4.66	4.66	4.66	4.66
9	RX OPERATION	V	1.89	1.89	1.89	1.89	1.89
10	10-14 NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
15	GROUND	V	0	0	0	0	0
16	RX OPERATION	V	1.67	1.67	1.67	1.67	1.67

IC 2 (IL324)

PIN NO.	SWITCH CONDITION	UNIT	CW	FM	AM	USB	LSB
1	SSG LEVEL AT 100 μ V	V	2	2	2	2	2
2	SSG LEVEL AT 100 μ V	V	0.9	0.9	0.9	0.9	0.9
3	SSG LEVEL AT 100 μ V	V	0.9	1	1	1	1
4	SUPPLY VOLTAGE	V	7.4	7.4	7.4	7.4	7.4
5	5-7 NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
8	SSG LEVEL AT -47dBm SQ.VOL. AT MIN.	V	2.4	2.4	2.4	2.4	2.4
	SSG LEVEL AT -47dBm SQ.VOL. AT MAX.	V	4.5	4.5	4.5	4.5	4.5
9	SSG LEVEL AT -47dBm SQ.VOL. AT MIN./SQ.ON	V	3.5	3.5	3.5	3.5	3.5
	SSG LEVEL AT -47dBm SQ.VOL. AT MAX./SQ.OFF	V	3.41	3.41	3.41	3.41	3.41
10	SQ.VOL. MIN. AT -47dBm	V	0.51	0.51	0.51	0.51	0.51
	SQ.VOL. MAX. AT -47dBm	V	3.4	3.4	3.4	3.4	3.4
11	GROUND	V	0	0	0	0	0
12	SSG AT -47dBm	V	1.67	1.68	1.68	1.67	1.65
	SSG AT -107dBm	V	0.21	0.2	0.2	0.2	0.2
	SSG AT 0dBm	V	2.1	2.1	2.1	2.1	2.1
13	SSG AT -47dBm	V	1.5	1.5	1.5	1.5	1.5
	SSG AT -107dBm	V	0.2	0.2	0.2	0.2	0.2
	SSG AT 0dBm	V	2	2	2	2	2
14	SSG AT -47dBm	V	3.7	3.7	3.7	3.7	3.7
	SSG AT -107dBm	V	0.47	0.47	0.47	0.47	0.47
	SSG AT 0dBm	V	4.7	4.7	4.7	4.7	4.7

IC 11 (KIA 7217)

PIN NO.	SWITCH CONDITION	UNIT	CW	FM	AM	USB	LSB
1	NORMAL CONDITION	V	13.7	13.7	13.7	13.7	13.7
2	SSG LEVEL AT -107dBm	V	15.3	11.7	15.2	14.8	14.6
	SSG LEVEL AT -47dBm	V	11.7	11.8	12	11.8	11.7
3	SSG LEVEL AT -47dBm	V	3.9	3.9	3.9	3.9	3.9
4	SSG LEVEL AT -47dBm	V	8.2	8.2	8.2	8.2	8.2
5	SSG LEVEL AT -47dBm	V	1.3	1.3	1.3	1.3	1.3
6	SSG LEVEL AT -47dBm	V	3.35	3.35	3.35	3.35	3.35
7	SSG LEVEL AT -47dBm	V	3.4	3.4	3.4	3.38	3.6
8	SSG LEVEL AT -47dBm	V	0.88	0.88	0.88	0.88	0.88
9	GROUND LEVEL	V	0	0	0	0	0
10	SSG LEVEL AT -47dBm	V	6.9	6.9	6.9	6.9	6.9

IC 26 (KIA 6058F)

PIN NO.	SWITCH CONDITION	UNIT	CW	FM	AM	USB	LSB
1	TX OPERATION	V	0.97	0.97	0.97	0.99	0.99
2	TX OPERATION	V	1.7	1.7	1.7	1.7	1.7
3	TX OPERATION	V	7	7	7	7	
4	TX OPERATION	V	1.65	1.65	1.65	1.65	1.65
5	GROUND	V	0	0	0	0	0
6	TX OPERATION	V	6.8	6.8	6.8	6.8	6.8
7	TX OPERATION	V	6.9	6.9	6.9	6.9	6.9
8	TX OPERATION	V	6.96	6.9	6.9	6.95	6.96

IC 13 (JRC1496)

PIN NO.	SWITCH CONDITION	UNIT	CW	FM	AM	USB	LSB
1	TX OPERATION	mV	2.6	2.6	2.6	2.58V	2.5V
2	TX OPERATION	V	1.5	1.5	1.5	1.9	1.9
3	TX OPERATION	V	1.6	1.6	1.6	1.9	1.9
4	TX OPERATION	V	2.3	2.3	2.3	2.6	2.6
5	TX OPERATION	V	1.3	1.3	1.3	1.3	1.3
6	TX OPERATION	V	3.5	3.5	3.5	3.6	3.6
7	NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
8	TX OPERATION	V	3.8	3.8	3.8	3.9	3.9
9	NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
10	NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
11	NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
12	TX OPERATION	V	3.8	3.8	3.8	3.9	3.9
13	NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
14	GROUND	V	0	0	0	0	0

IC 4 (4558F)

PIN NO.	SWITCH CONDITION	UNIT	CW	FM	AM	USB	LSB
1	RX/TX OPERATION	V	3.2	3.2	3.2	3.2	3.2
2	RX/TX OPERATION	V	3.3	3.2	3.3	3.3	3.2
3	RX/TX OPERATION	V	3.3	3.3	3.3	3.2	3.2
4	GROUND	V	0	0	0	0	0
5	RX/TX OPERATION	V	3.6	3.6	3.6	3.6	3.6
6	RX/TX OPERATION	V	3.6	3.6	3.6	3.6	3.6
7	RX/TX OPERATION		3.6	3.6	3.6	3.6	3.6
8	RX/TX OPERATION	V	7.3	7.18	7.3	7.18	7.18

IC 501 (4558F)

PIN NO.	SWITCH CONDITION	UNIT	CW	FM	AM	USB	LSB
1	RX/TX OPERATION	V	3.2	3.2	3.2	3.2	3.2
2	RX/TX OPERATION	V	3.3	3.2	3.3	3.3	3.2
3	RX/TX OPERATION	V	3.3	3.3	3.3	3.2	3.2
4	GROUND	V	0	0	0	0	0
5	NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
6	NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
7	NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
8	SUPPLY VOLTAGE	V	7.7	7.7	7.7	7.7	7.7

IC 502 (HT8970)**NOTE: WHEN ECHO IS TURNED OFF, ALL PINS OF IC 502 ARE APROXIMATELY 0V**

PIN NO.	SWITCH CONDITION	UNIT	CW	FM	AM	USB	LSB
1	ECHO VOL. SW. ON	V	6.6	7.6	8.6	9.6	10.6
	RX/TX OPERATION						
2	ECHO VOL. SW. ON	V	3.3	3.3	3.3	3.3	3.3
3	GROUND	V	0	0	0	0	0
4	GROUND	V	0	0	0	0	0
5	ECHO VOL. SW. ON	V	3.6	3.6	3.6	3.6	3.6
6	ECHO VOL. SW. ON	V	3.3	3.3	3.3	3.3	3.3
7	RX OPERATION	V	0.6	0.6	0.6	0.6	0.6
8	TX OPERATION W/ IKHZ AUDIO	V	1.2	1.2	1.2	1.2	1.2
9	ECHO VOL. SW. ON	V	3.3	3.3	3.3	3.3	3.3
10	ECHO VOL. SW. ON	V	3.3	3.3	3.3	3.3	3.3
11	ECHO VOL. SW. ON	V	3.3	3.3	3.3	3.3	3.3
12	ECHO VOL. SW. ON	V	3.3	3.3	3.3	3.3	3.3
13	ECHO VOL. SW. ON	V	3.3	3.3	3.3	3.3	3.3
14	ECHO VOL. SW. ON	V	3.3	3.3	3.3	3.3	3.3
15	ECHO VOL. SW. ON	V	3.3	3.3	3.3	3.3	3.3

IC 503 (4066)

PIN NO.	SWITCH CONDITION	UNIT	CW	FM	AM	USB	LSB
1	TX CAL ON	V	2.3	2.3	2.3	4.3	4.3
	TX SWR ON	V	1	1	1	2.6	2.6
2	TX CAL ON	V	1.6	1.6	1.6	3.4	3.4
	TX SWR ON	V	1.1	1.1	1.1	2.7	2.7
3	PIN 3-6 NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
7	GROUND	V	0	0	0	0	0
8	PIN 8-10 NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
11	TX CAL ON	V	2.4	2.3	2.3	4.5	4.5
	TX SWR ON	V	4.3	4.1	4.2	5.4	5.4
12	TX CAL ON	V	4	4	4	4	4
	TX SWR ON	V	0	0	0	0	0
13	TX CAL ON	V	0	0	0	0	0
	TX SWR ON	V	4.8	4.8	4.8	4.8	4.8
14	TX CAL ON	V	4.8	4.8	4.8	4.8	4.8
	TX SWR ON	V	4.8	4.8	4.8	4.8	4.8

IC 7 (LC7152)

PIN NO.	SWITCH CONDITION	UNIT	CW	FM	AM	USB	LSB
1	NORMAL CONDITION	V	2	2	2	2	2
2	NORMAL CONDITION	mV	14.3	14.3	14.3	14.3	14.3
3	NORMAL CONDITION	mV	13.5	13.5	13.5	13.5	13.5
4	NORMAL CONDITION	mV	47	47	47	47	47
5	NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
6	NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
7	NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
8	GROUND	V	0	0	0	0	0
9	MODE SW. SET TO BAND A .	V	1	1	1	1	1
	MODE SW. SET TO BAND B	V	0.936	0.936	0.936	0.936	0.936
	MODE SW. SET TO BAND C	V	0.9	0.9	0.9	0.9	0.9
	MODE SW. SET TO BAND D	V	0.8	0.8	0.8	0.8	0.8
10	MODE SW. SET TO BAND A .	V	1	1	1	1	1
	MODE SW. SET TO BAND B	V	0.936	0.936	0.936	0.936	0.936
	MODE SW. SET TO BAND C	V	0.9	0.9	0.9	0.9	0.9
	MODE SW. SET TO BAND D	V	0.8	0.8	0.8	0.8	0.8
11	MODE SW. SET TO BAND A .	V	1	1	1	1	1
	MODE SW. SET TO BAND B	V	0.936	0.936	0.936	0.936	0.936
	MODE SW. SET TO BAND C	V	0.9	0.9	0.9	0.9	0.9
	MODE SW. SET TO BAND D	V	0.8	0.8	0.8	0.8	0.8
12	CLARIFIER AT CENTER POS.	V	2.8	2.8	2.8	2.8	2.8
	CLARIFIER AT CENTER POS.	V	4	4	4	4	4
	CLARIFIER AT CENTER POS.	V	4.5	4.5	4.5	4.5	4.5
	CLARIFIER AT CENTER POS.	V	5.9	5.9	5.9	5.9	5.9
13	NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.
14	NORMAL CONDITION	V	2.19	2.19	2.19	2.19	2.19
15	GROUND	V	0	0	0	0	0
16	NORMAL CONDITION	V	2.27	0	0	0	0
17	NORMAL CONDITION	V	4.48	4.48	4.48	4.48	4.48
18	PIN 18-24 NO CONNECTION		N.C.	N.C.	N.C.	N.C.	N.C.