

**TEST CONDITION:****SUPPLY VOLTAGE: 13.8 V****BAND A ( 28.000 MHz)****IC 502 (HT8970)**

<b>PIN NO.</b>	<b>SWITCH CONDITION</b>	<b>UNIT</b>	<b>PA</b>	<b>AM</b>	<b>FM</b>
1	TX OPERATION	V	6.13	5.86	5.86
2	TX OPERATION	V	3.5	2.9	2.9
3	GROUND	V	0	0	0
4	GROUND	V	0	0	0
5	TX OPERATION	V	3.4	3.25	3.24
6	TX OPERATION	V	3.06	2.9	2.9
7	TX OPERATION W/ MODULATION	V	0.78	3	3
8	TX OPERATION W/ MODULATION	V	0.79	3	3
9	TX OPERATION	V	3.1	2.9	2.9
10	TX OPERATION	V	3.06	2.9	2.9
11	TX OPERATION	V	3.06	2.9	2.9
12	TX OPERATION	V	3.09	2.9	2.9
13	TX OPERATION	V	3.05	2.9	2.9
14	TX OPERATION	V	3.06	2.9	2.9
15	TX OPERATION	V	3.08	2.9	2.9
16	TX OPERATION	V	3.06	2.9	2.9

**IC 9 (TDA 2003V)**

<b>PIN NO.</b>	<b>SWITCH CONDITION</b>	<b>UNIT</b>	<b>PA</b>	<b>AM</b>	<b>FM</b>
1	VOL. MIN	V	1.38	1.38	1.38
	VOL.MAX.	V	1.28	1.28	1.28
2	VOL. MIN	V	0.82	0.82	0.82
	VOL.MAX.	V	0.64	0.69	0.69
3	GROUND	V	0	0	0
4	VOL. MIN	V	6.42	6.42	6.42
	VOL.MAX.	V	6.18	6.18	6.18
5	SUPPLY VOLTAGE	V	13.7	13.7	13.7

**IC 26 (KIA 6058 F)**

PIN NO.	SWITCH CONDITION	UNIT	PA	AM	FM
1	TX	V	0	1.08	1.08
2	TX	V	0.03	1.77	1.77
3	TX	V	0	6.9	6.9
4	TX	V	0.04	1.74	1.74
5	GROUND	V	0	0	0
6	TX	V	0	6.8	6.8
7	TX	V	0	6.86	6.85
8	TX	V	0	6.9	6.9

**IC 11 (TDA- 2005)**

PIN NO.	SWITCH CONDITION	UNIT	PA	AM	FM
1	RX/TX	V	1.3	1.3	1.3
2	RX/TX	V	0.76	0.76	0.76
3	RX	V	8.47	8.47	8.47
	TX MODE W/ MODULATION	V	8.47	7.8	8.3
4	RX/TX	V	0.73	0.71	0.72
5	TX	V	1.32	1.23	1.3
6	GROUND	V	0	0	0
7	RX	V	13.2	13.2	13.2
	TX MODE W/O MODULATION	V	13.27	12.9	13
	TX MODE W/ MODULATION	V	13.27	11.8	12.9
8	RX	V	7	7	7
	TX MODE W/O MODULATION	V	7	6.85	6.85
	TX MODE W/ MODULATION	V	7	6.5	6.85
9	RX	V	13.7	13.7	13.7
	TX MODE W/O MODULATION	V	13.7	13.4	13.4
	TX MODE W/ MODULATION	V	13.7	12.5	13.4
10	RX	V	7	7	7
	TX MODE W/O MODULATION	V	7	6.8	6.8
	TX MODE W/ MODULATION	V	7	6.5	6.8

**IC 4 (4558F)**

<b>PIN NO.</b>	<b>SWITCH CONDITION</b>	<b>UNIT</b>	<b>PA</b>	<b>AM</b>	<b>FM</b>
1	RX/TX	V	4	4	4
2	RX/TX	V	4	4	4
3	RX/TX	V	4	4	4
4	GROUND	V	0	0	0
5	RX/TX	V	3.72	3.74	3.71
6	RX/TX	V	3.75	3.76	3.75
7	RX/TX	V	3.75	3.76	3.75
8	SUPPLY VOLTAGE	V	7.5	7.5	7.5

**IC 501 (4558F)**

<b>PIN NO.</b>	<b>SWITCH CONDITION</b>	<b>UNIT</b>	<b>PA</b>	<b>AM</b>	<b>FM</b>
1	RX/TX	V	3.9	3.9	3.9
2	RX/TX	V	3.9	3.9	3.9
3	RX/TX	V	3.8	3.8	3.8
4	GROUND	V	0	0	0
	PIN # 5-7 NO CONNECTION		N.C.	N.C.	N.C.
8	SUPPLY VOLTAGE	V	7.76	7.76	7.76

**IC 7 (LC7152)**

<b>PIN NO.</b>	<b>SWITCH CONDITION</b>	<b>UNIT</b>	<b>PA</b>	<b>AM</b>	<b>FM</b>
1	RX/TX	V	2.1	2.1	2.1
2	RX	mV	3.9	3.9	3.9
	TX	mV	3.9	4.5	4.5
3	RX	mV	3.5	3.5	3.5
	TX	mV	3.5	4.1	4.1
4	RX	mV	35.8	35.8	35.8
	TX	mV	35.8	36.5	36.4
5	NO CONNECTION		N.C.	N.C.	N.C.
6	NO CONNECTION		N.C.	N.C.	N.C.
7	NO CONNECTION		N.C.	N.C.	N.C.
8	GROUND	V	0	0	0
9	MODE SW. SET TO BAND A	V	1	1	1
	MODE SW. SET TO BAND B	V	0.95	0.95	0.95
	MODE SW. SET TO BAND C	V	0.9	0.9	0.9
	MODE SW. SET TO BAND D	V	0.85	0.85	0.85
10	MODE SW. SET TO BAND A	V	1	1	1
	MODE SW. SET TO BAND B	V	0.95	0.95	0.95
	MODE SW. SET TO BAND C	V	0.9	0.9	0.9
	MODE SW. SET TO BAND D	V	0.85	0.85	0.85
11	MODE SW. SET TO BAND A	V	1	1	1
	MODE SW. SET TO BAND B	V	0.95	0.95	0.95
	MODE SW. SET TO BAND C	V	0.9	0.9	0.9
	MODE SW. SET TO BAND D	V	0.85	0.85	0.85
12	MODE SW. SET TO BAND A	V	2.8	2.8	2.8
	MODE SW. SET TO BAND B	V	4	4	4
	MODE SW. SET TO BAND C	V	4.9	4.9	4.9
	MODE SW. SET TO BAND D	V	5.6	5.6	5.6
13	NO CONNECTION		N.C.	N.C.	N.C.
14	RX/TX	V	2.4	2.4	2.4
15	GROUND	V	0	0	0
16	NO CONNECTION		N.C.	N.C.	N.C.
17	RX/TX	V	4.8	4.8	4.8
	PIN 18-23 NO CONNECTION		N.C.	N.C.	N.C.
24	RX/TX	V	2.2	2.2	2.2

**IC 6 (24C02)**

<b>PIN NO.</b>	<b>SWITCH CONDITION</b>	<b>UNIT</b>	<b>PA</b>	<b>AM</b>	<b>FM</b>
1	PIN # 1-4 GROUND	V	0	0	0
5	RX/TX	mV	36	36	36
6	RX/TX	V	4.9	4.9	4.9
7	GROUND	V	0	0	0
8	RX/TX	V	5	5	5

**IC 2 (IL324)**

PIN NO.	SWITCH CONDITION	UNIT	PA	AM	FM
1	RX MODE LEVEL AT 100 $\mu$ V	V	0.04	2.38	2.38
	RX MODE LEVEL AT 200 $\mu$ V	V	0.04	2.52	2.52
	RX MODE LEVEL AT 50 $\mu$ V	V	0.04	2.24	2.24
2	RX MODE LEVEL AT 100 $\mu$ V	V	0.04	1.18	1.18
	RX MODE LEVEL AT 200 $\mu$ V	V	0.04	1.25	1.25
	RX MODE LEVEL AT 50 $\mu$ V	V	0.04	0.94	0.94
3	RX MODE LEVEL AT 100 $\mu$ V	V	0.04	1.18	1.18
	RX MODE LEVEL AT 200 $\mu$ V	V	0.04	1.25	1.25
	RX MODE LEVEL AT 50 $\mu$ V	V	0.04	1.1	1.1
4	LEVEL AT -107dBm	V	0	7.86	7.86
	LEVEL AT -87dBm	V	0	7.82	7.82
	LEVEL AT -47dBm	V	0	7.77	7.77
	LEVEL AT -27dBm	V	0	7.76	7.76
	LEVEL AT 0dBm	V	0	7.72	7.72
5	PIN # 5-7 NO CONNECTION		N.C.	N.C.	N.C.
8	SQ. MIN AT -47dBm	V	0.19	0	0
	SQ. MAX. AT -47dBm	V	0.35	0	0
	SQ. MAX. AT -52dBm	V	0.35	6.06	6.06
9	SQ. MIN AT -47dBm	V	0.81	4.51	4.51
	SQ. MAX. AT -47dBm	V	0.81	4.51	4.51
	SQ. MAX. AT -52dBm	V	0.81	4.39	4.39
10	SQ. MIN AT -47dBm	V	0.61	0.61	0.61
	SQ. MAX. AT -47dBm	V	4.38	4.38	4.38
	SQ. MAX. AT -52dBm	V	4.38	4.45	4.45
11	GROUND	V	0	0	0
12	LEVEL AT -107dBm	V	0.1	0.38	0.38
	LEVEL AT -87dBm	V	0.1	1.53	1.53
	LEVEL AT -47dBm	V	0.1	2.28	2.28
	LEVEL AT -27dBm	V	0.1	2.44	2.44
	LEVEL AT 0dBm	V	0.1	4.64	4.64
13	LEVEL AT -107dBm	V	0.16	0.38	0.38
	LEVEL AT -87dBm	V	0.16	1.48	1.48
	LEVEL AT -47dBm	V	0.16	2.23	2.23
	LEVEL AT -27dBm	V	0.16	2.38	2.38
	LEVEL AT 0dBm	V	0.16	2.84	2.84
14	LEVEL AT -107dBm	V	0.37	0.85	0.85
	LEVEL AT -87dBm	V	0.37	3.38	3.38
	LEVEL AT -47dBm	V	0.37	4.7	4.7
	LEVEL AT -27dBm	V	0.37	5.4	5.4
	LEVEL AT 0dBm	V	0.37	6.3	6.3

**IC 1 (UTC3361)**

<b>PIN NO.</b>	<b>SWITCH CONDITION</b>	<b>UNIT</b>	<b>PA</b>	<b>AM</b>	<b>FM</b>
1	RX OPERATION AT -47dBm	V	0	4.85	4.85
2	RX OPERATION AT -47dBm	V	-.16	4.78	4.78
3	RX OPERATION AT -47dBm	V	-.16	4.5	4.5
4	RX OPERATION AT -47dBm	V	-.16	4.9	4.9
5	RX OPERATION AT -47dBm	V	0.04	3.66	3.66
6	RX OPERATION AT -47dBm	V	0.04	3.66	3.66
7	RX OPERATION AT -47dBm	V	0.02	3.66	3.66
8	RX OPERATION AT -47dBm	V	-.17	4.9	4.9
9	RX OPERATION AT -47dBm	V	0.02	2.15	2.15
10	PIN # 10- 14 NO CONNECTION		N.C.	N.C.	N.C.
15	GROUND	V	0	0	0
16	RX OPERATION AT -47dBm	V	-.03	1.72	1.71