

ROYCE 639; Trouble-shooting Voltage Chart

		Vb (V)				Vc (V)				Ve (V)				
		TX		RX		TX		RX		TX		RX		
		AM	SSB	AM	SSB	AM	SSB	AM	SSB	AM	SSB	AM	SSB	
Q 1	2SC1856	0.4	0.4	3.5	3.5	0.4	0.4	7.8	7.8	0.2	0.2	1.9	1.9	
Q 2	2SC 460	0.2	0.2	1.2	1.2	0.4	0.4	7.7	7.7	0.1	0.1	0.8	0.8	
Q 3	2SC 460	1.8	1.8	1.7	1.7	4.2	4.2	4.1	4.1	1.1	1.1	1.0	1.0	
Q 4	2SC 460	0.1	3.7	3.3	3.3	6.1	6.0	6.0	6.0	0.4	3.1	2.6	2.6	
Q 5	2SC 460	0.0	0.0	1.4	1.4	0.0	0.0	4.7	4.7	0.0	0.0	0.7	0.7	
Q 6	2SC 458	0.4	0.4	1.4	1.4	11.2	11.2	4.9	4.9	0.1	0.1	0.7	0.7	NO SQUELCH
				0.3	0.3			11.6	11.6			0.0	0.0	SQUELCH
Q 7	2SC 458	11.2	11.2	4.9	4.9	11.1	11.1	11.6	11.6	10.4	10.4	4.2	4.2	NO SQUELCH
				11.6	11.6			11.6	11.6			10.8	10.8	SQUELCH
Q 8	2SC 829	2.9	2.9	2.8	2.8	6.3	6.3	6.2	6.2	2.8	2.8	2.0	2.0	
Q 9	2SC 829	2.8	2.8	2.7	2.7	6.0	6.0	5.9	5.9	2.2	2.2	2.1	2.1	
Q11	2SA 673	0.0	0.0	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	
Q13	2SC 458	0.8	0.3	0.3	0.3	0.1	6.0	6.0	6.0	0.0	0.0	0.0	0.0	
Q14	2SC 458	0.8	0.8	0.7	0.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
Q15	2SC 458	1.3	1.3	1.3	1.3	5.2	5.2	5.2	5.2	0.7	0.7	0.7	0.7	
Q16	2SB 561	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Q17	2SC1061	6.8	7.6	7.9	7.9	13.2	13.6	13.7	13.7	6.2	13.6	13.7	13.7	
Q18	2SC1419	8.8	8.8	8.8	8.8	13.2	13.2	13.7	13.7	8.3	8.3	8.1	8.1	
Q19	2SC2003	1.8	1.8	0.0	0.0	13.2	13.2	13.7	13.7	1.3	1.3	0.0	0.0	
Q20	2SC2166	0.6	0.6	0.0	0.0	5.5	13.2	13.7	13.7	0.0	0.0	0.0	0.0	
Q21	2SC2312	0.6	0.6	0.0	0.0	5.5	13.2	13.7	13.7	0.0	0.0	0.0	0.0	
Q22	2SC 829	0.5	0.5	0.5	0.5	3.3	3.3	3.3	3.3	0.0	0.0	0.0	0.0	
Q23	2SC 458	0.1	0.1	0.0	0.0	2.7	2.7	1.6	1.6	0.0	0.0	0.0	0.0	
Q24	2SA 673	1.5	1.5	13.3	13.3	0.0	0.0	0.0	0.0	2.2	2.2	13.7	13.7	

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		Vg (V)				Vd (V)				Vs (V)				
		TX		RX		TX		RX		TX		RX		
		AM	SSB	AM	SSB	AM	SSB	AM	SSB	AM	SSB	AM	SSB	
Q10	2SK 55	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4	0.0	0.0	1.4	1.4	
Q12	2SK 49	0.0	0.0	0.0	0.0	6.0	6.0	6.0	6.0	0.0	0.0	0.0	0.0	

		PIN NO.	1	2	3	4	5	6	7	8	9	10	11
IC 1	H8D1210	RX	0.0	0.8	7.9	0.4	7.7	0.0	/	/	/	/	/
		TX	0.0	0.0	0.0	0.0	0.0	0.0	/	/	/	/	/
IC 2	SL1612C	RX	0.0	7.3	2.7	0.0	0.9	0.9	2.0	0.0	/	/	/
		TX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	/	/	/
IC 3	SL1611C	RX	0.0	5.4	1.5	0.0	0.8	0.8	0.8	0.0	/	/	/
		TX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	/	/	/
IC 4	SL1640C	RX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	/	/	/
		TX	0.0	3.8	3.8	8.2	7.1	6.9	3.8	0.0	/	/	/
IC 5	SL1640C	RX	0.0	2.5	2.5	5.4	4.8	4.8	2.4	0.0	/	/	/
		TX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	/	/	/
IC 6	MC1458	NO SQUELCH	11.6	1.7	2.0	0.0	5.2	5.2	5.2	12.3	/	/	/
		SQUELCH	2.1	4.1	2.1	0.0	5.2	5.3	5.3	11.7	/	/	/
IC 7	AN 315		5.8	0.0	1.3	7.1	10.6	5.5	0.0	5.6	5.5	13.4	13.7
IC 8	AN 103	RX	2.5	2.0	1.3	1.6	0.0	0.9	2.2	8.1	0.5	/	/
		TX	2.5	2.0	1.3	1.6	0.0	0.9	8.0	8.1	13.2	/	/
IC10	78L06		13.7	0.0	6.0	/	/	/	/	/	/	/	/

IC9 CCI3001 (CH No. 1)

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
TX AM	0.1	6.0	3.1	3.1	0.0	3.3	3.1	3.4	3.1	0.1	0.6	0.6	0.6	0.6	0.6	0.6	3.1	0.0
SSB RX AM	0.1	6.0	3.1	3.1	0.0	3.3	3.1	3.4	3.1	6.0	0.6	0.6	0.6	0.6	0.6	0.6	3.1	0.0