

JUMA TRX2 Main board voltage table (last update 2008-02-07)

All values are typical DC voltages measures with a high ohmic (>1M) volt meter ("x" in table means don't care)

Conditions: **Receive state, Mode LSB**, f = 3.7 MHz, Filter WID, AGC slow, Speechproc OFF, NB OFF, MIC input, dummy load

	IN	OUT
REG	Pin 8	Pin 1
REG1	13-14	4.8-5.2
REG2	13-14	9.6-10.4

The "5" volt in OPAMP table is a half of the "10 volt" supply voltage,
e.g. if the REG2 out is 10.2 V, the "10" is 10.2 and the "5" is 5.1 V.

	OUT	IN-	IN+	GND	IN+	IN-	OUT	Vcc
OPAMP	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
A1	5	5	5	0	5	5	5	10
A2	5	5	5	0	5	5	5	10
A3	5	5	5	0	5	5	5	10
A4	5	5	5	0	5	5	5	10
A5	5	5	5	0	5	5	5	10
A6	x	1-4	1-4	0	1-4	1-4	x	10
A7	2-8	1-4	1-4	0	1-4	1-4	<50mV	10
A8	5	5	5	0	5	5	5	10
A9	5	5	5	0	5	5	5	10
A10	5	5	5	0	5	5	5	10
A11	5	5	5	0	5	5	5	10
A13	5	5	5	0	5	5	5	10

NOTE!



It is recommended to use a series resistor in the positive lead to avoid possible RF influence to the reading. Suitable resistor value is 4k7...22k. The resistor is not needed when measuring pure DC signals.

	GND			Vcc				
AMP	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
A12	1.3	0	0	0	6-8	13-14	7	1.3

* Depends on mode, config settings or band. See schematics.

	GND															Vcc	
IC	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12	Pin 13	Pin 14	Pin 15	Pin 16	
IC1	0	~2	1.2	1.2	1.2	1.2	1.2	0	1.2	1.2	1.2	1.2	1.2	1.2	~2	0	5
IC2	5	~2	x	x	x	x	x	0	x	0	0	x	x	~2	5	5	
IC6	5*	0*	0*	0*	0*	5*	0*	0	x	5	5	0	0	0	5	5	
IC8	0	5*	~2.5	x	~2.5	x	~2	0	~2	x	~2.5	x	~2.5	5	0	5	

* Depends on mode. See schematics.

	GND														Vcc
IC	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12	Pin 13	Pin 14	
IC4	5	5	0	0	0*	5	0	5	0	5*	0*	5*	5*	5	

* Depends on SSB/CW

	GND			Vcc				
IC	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
IC9	2.5	1.5	0	5	2.5	2.5	5*	~2.5
IC10	2.5	1.5	0	5	2.5	2.5	5	~2.5

	GND			Vcc	
IC	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
IC3	x	0	0	5	5
IC7	x	0	0	5	5

Conditions: **Transmit state, Mode LSB**, f = 3.7 MHz, Filter WID, AGC slow, Speechproc OFF, NB OFF, MIC input, dummy load

IC	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12	Pin 13	Pin 14
IC4	0	0	5	5	0	5	0	0	5	5	0	5	5	5

IC	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12	Pin 13	Pin 14	Pin 15	Pin 16
IC1	5	~2	x	x	x	x	1.2	0	1.2	x	x	x	x	~2	5	5
IC2	0	~2	1.2	1.2	1.2	1.2	1.2	0	x	0	0	0	0	~2	5	5

Conditions: **Transmit state, Mode CW**, f = 3.7 MHz, Filter WID, AGC slow, Speechproc OFF, NB OFF, MIC input, dummy load

IC	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12	Pin 13	Pin 14
IC4	0	0	5	5	5	0	0	5	5	0	5	0	0	5

IC	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12	Pin 13	Pin 14	Pin 15	Pin 16
IC1	5	~2	x	x	x	x	1.2	0	1.2	x	x	x	x	~2	5	5
IC2	5	~2	x	x	x	x	1.2	0	~0/0.7	0	0	~0/1.4	~0/1.4	~2	5	5
IC3	x	0/5	0	5/0	5											

(n/m = PTT/ Key down)