



GAI-TRONICS® CORPORATION
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Maxon SD-125 RF Module CTCSS Configuration

Field Installation Kit Instructions

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General Information

The following procedure describes the process of configuring the Maxon SD-125 RF Module for CTCSS.

Installation

Configure the CTCSS option board by removing the required link (1 to 6) on the CTCSS board to set up the tone frequency. The potentiometer VR1 is adjusted for the desired CTCSS tone deviation.

1. Remove the RF Module cover (4 screws). The CTCSS option board is located on top of the digital board (piggy back), with the resistive jumpers face up (bottom of board).

Note: The default configuration is PL tone 250.3 Hz (all resistive jumpers in place).

2. Refer to Figure 1 for the jumper locations. Using a fine-tipped soldering iron and tweezers, carefully remove the resistive jumpers necessary to conform to the chart on page 2 for the desired frequency. Make certain no solder bridges remain and clean off excess resin.
3. Facing the RF Module with the antenna port located in the upper left-hand corner, locate switch SW401 on the left side of the digital board. Make certain that all four DIP switch settings are OFF (to the left). This is default for frequency no. 1.
4. Install RF Module cover.

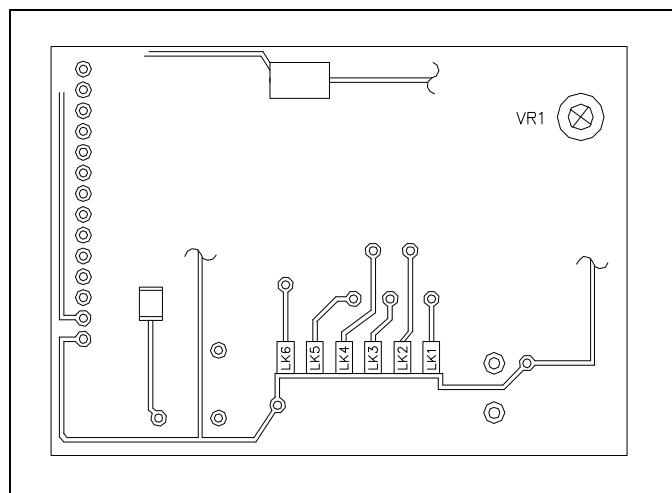


Figure 1. CTCSS Option Board (bottom view)

Frequency Chart								
No.	Code	Frequency	LK1	LK2	LK3	LK4	LK5	LK6
1	XZ	67.0	0	0	0	0	0	0
2	XA	71.9	1	0	0	0	0	0
3	WA	74.4	0	0	0	0	0	1
4	XB	77.0	1	1	0	0	0	0
5	SP	79.7	0	0	0	0	1	0
6	YZ	82.5	1	0	0	0	0	1
7	YA	85.4	0	0	0	0	1	1
8	YB	88.5	1	1	0	0	0	1
9	ZZ	91.5	0	0	0	1	0	0
10	ZA	94.8	1	0	0	0	1	0
*11	ZB	97.4	0	0	0	1	0	1
12	1Z	100.0	1	1	0	0	1	0
13	1A	103.5	1	0	0	0	1	1
14	1B	107.2	1	1	0	0	1	1
15	2X	110.9	1	0	0	1	0	0
16	2A	114.8	1	1	0	1	0	0
17	2B	118.8	1	0	0	1	0	1
18	3Z	123.0	1	1	0	1	0	1
19	3A	127.3	1	0	0	1	1	0
20	3B	131.8	1	1	0	1	1	0
21	4Z	136.5	1	0	0	1	1	1
22	4A	141.3	1	1	0	1	1	1
23	4B	146.2	1	0	1	0	0	0
24	5Z	151.4	1	1	1	0	0	0
25	5A	156.7	1	0	1	0	0	1
26	5B	162.2	1	1	1	0	0	1
27	6Z	167.9	1	0	1	0	1	0
28	6A	173.8	1	1	1	0	1	0
29	6B	179.9	1	0	1	0	1	1
30	7Z	186.2	1	1	1	0	1	1
31	7A	192.8	1	0	1	1	0	0
32	M1	203.5	1	1	1	1	0	0
33	M2	210.7	1	0	1	1	0	1
34	M3	218.1	1	1	1	1	0	1
35	M4	225.7	1	0	1	1	1	0
36	--	233.6	1	1	1	1	1	0
37	--	241.8	1	0	1	1	1	1
38	--	250.3	1	1	1	1	1	1

* = Non-standard tone

Link Settings: "1" = Link closed

"0" = Link open