



## UD-1B Maxon

Manual Revision: 03-10-13

Covers Software Revisions:  
UD-1B: 4.0

### SPECIFICATIONS

Operating Voltage	5.5-10 VDC
Operating Current	5.5 mA
Operating Temperature	-30 - +60 C
Frequency Range	280-2800 Hz
Audio Output Level	1 V (RMS)
Audio Output Impedance	10-22 K $\Omega$
PTT Output Current	200 mA
Input Level	50 mV RMS
Input Impedance	100 K $\Omega$

### PRODUCT PROGRAMMING

Midian's UD-1B Maxon is programmed via Midian's KL-3 programmer. Please reference the KL-3 manual for setup instructions of the KL-3 software and hardware. From the product selection screen on the KL-3 UP software, select the appropriate product name from the list and click OK.

Set the parameters of the UD-1B Maxon software to fit the application. If any clarifications on a feature are required, move the mouse cursor over the feature name until the question mark appears and right click, a definition of the feature will be shown.

After entering the parameters, save the file by going to File - Save As. Enter the file name in the File Name block and click Save. Saving the file will allow for quick and easy reprogramming of units.

After plugging the board into the radio, but with the radio still open (see next section), connect the black lead of the KL-3 to a common ground and the green clip lead to the Program In pad. Ground the PTT Input, apply power to the radio and click "Program Unit" in the KL-3 software. Please note that this product is not readable.

### HARDWARE INSTALLATION

Be certain to follow standard anti-static procedures when handling any of Midian's products.

**SP-120/130/140/310/320/330/340/SL-55/55+:** Open the radio, following the instructions detailed in the Maxon radio manual. The following table lists the factory settings of the radio links and how they should be configured for installation of the Midian board. Once the link positions are correct, plug the Midian board onto the options connector labeled CON404, and then reassemble the Maxon radio.

LK #	Factory	UD-1B
LK1	Out	Out
LK2	In	In
LK3	In	In
LK4	In	Out
LK5	In	In
LK6	Out	Out
LK7	In	In
LK8	Out	Out
LK9	Out	Out
LK12	In	In
LK14	Out	In
LK15	Out	Out
LK16	In	In
LK17	Out	Out
LK18	Out	In
LK19	Out	Out
LK20	Out	Out
LK21	Out	In
LK22	Out	Out

**SM-2000 Series & PM-100/160:** Open the radio, following the instructions detailed in the Maxon radio manual. The following table lists the factory settings of the radio links and how they should be configured for installation of the Midian board. Once the link positions are correct, plug the Midian board onto the options connector labeled CON404, and then reassemble the Maxon radio.

LK #	Factory	UD-1B
LK1	Out	Out
LK2	Out	Out
LK3	In	In
LK4	In	Out
LK5	In	In
LK6	Out	In
LK7	Out	Out
LK8	Out	Out
LK9	Out	Out
LK10	Out	Out
LK11	In	In
LK12	Out	Out
LK13	In	In
LK14	In	In

LK15	Out	Out
LK16	Out	Out
LK17	In	In
LK18	Out	Out
LK19	Out	Out

It will also be necessary to insert LK2 and remove LK4 in the front panel if using the auxiliary switch for Emergency ANI.

### **RADIO PROGRAMMING**

Other than the link positions noted under hardware installation, no special programming is necessary.

### **TECHNICAL NOTES**

**Portable Radio Emergency ANI:** The transmission of the Emergency ANI is accomplished with the momentary options button, the bottom side button.

**Mobile Radio Emergency ANI:** The transmission of the Emergency ANI is accomplished with the latched auxiliary button. Since it is a latched button, it will be necessary to push the auxiliary button again to ready the button for another emergency.

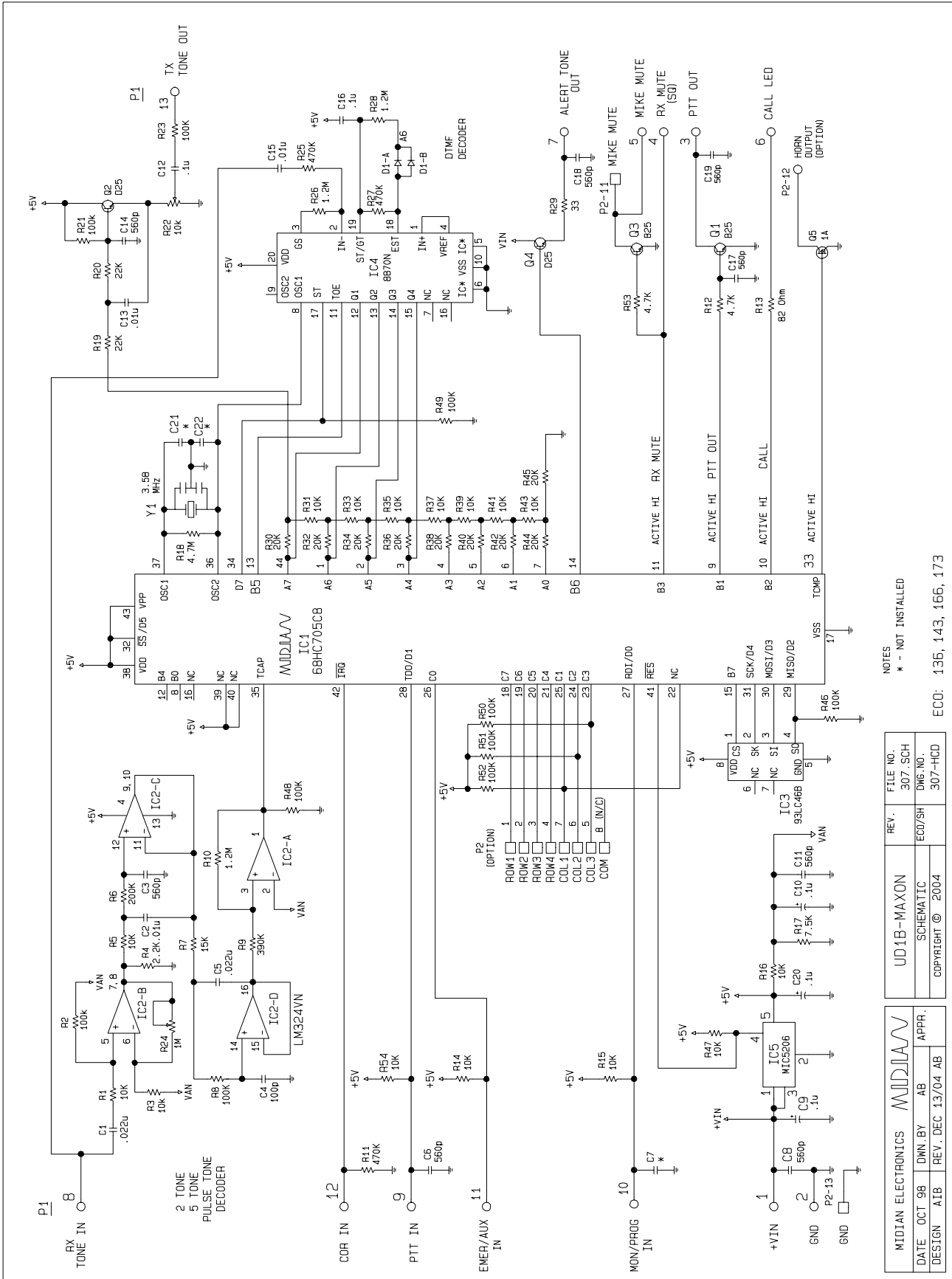
**Common/Non-Common PTT:** If Common PTT is to be used, it will be necessary to insert LK4 and program the UD-1B for common PTT.

**SP-300 Alert Tone:** In the SP-300 Series, it may be necessary to install a wire from the UD-1B Maxon's Pin 7 (Alert Tone) to the radio's + speaker terminal.

### **MIDIAN CONTACT INFORMATION**

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NOTES  
 \* - NOT INSTALLED

FILE NO.	UD1B-MAXON
DWG. NO.	SCHEMATIC
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MIDIAN ELECTRONICS	MIDIAN
DATE OCT 98	DWN. BY AB
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