

DSP Installation

This installation guide will describe how to install a Rugged Radios Digital Speech Processor (DSP-ICM-AT) into an RRP-350, RRP-357, RRP-550, or RRP-660 intercom unit.

In effect, the DSP-ICM-AT is being inserted in-line with the volume control, where it can filter the noise from wind and other sources picked up by the microphone(s).

Always disconnect the power supply to the intercom before starting this installation. Rugged Radios is not responsible for damage or injury sustained from improper installation. If in doubt, call for installation assistance.

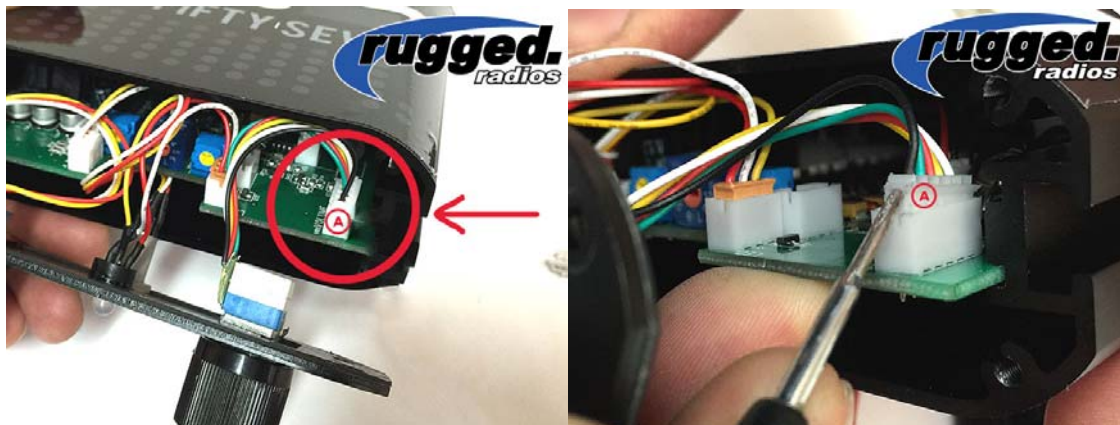


Click Images for larger view.

1. Remove the 4 front screws from the faceplate. The faceplate may stay attached firmly to the outer casing, but pushing the volume knobs will loosen it.

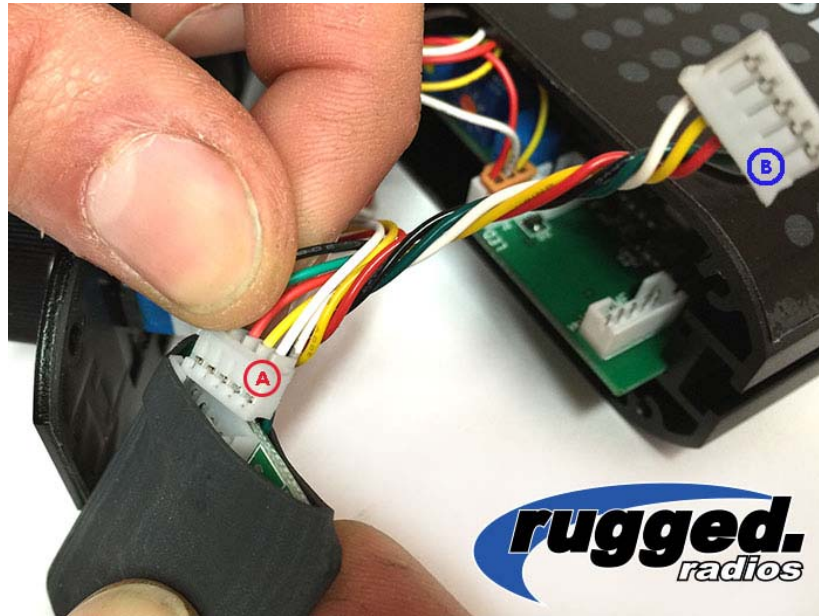


2. Unplug the rightmost connector for the volume control; it is a 5 color wire connector. Do not pull the wires to disconnect the plug. Use a flat tool to loosen plastic connector if the plug does not disconnect easily. This connector will be labeled as plug "A" in the pictures below.

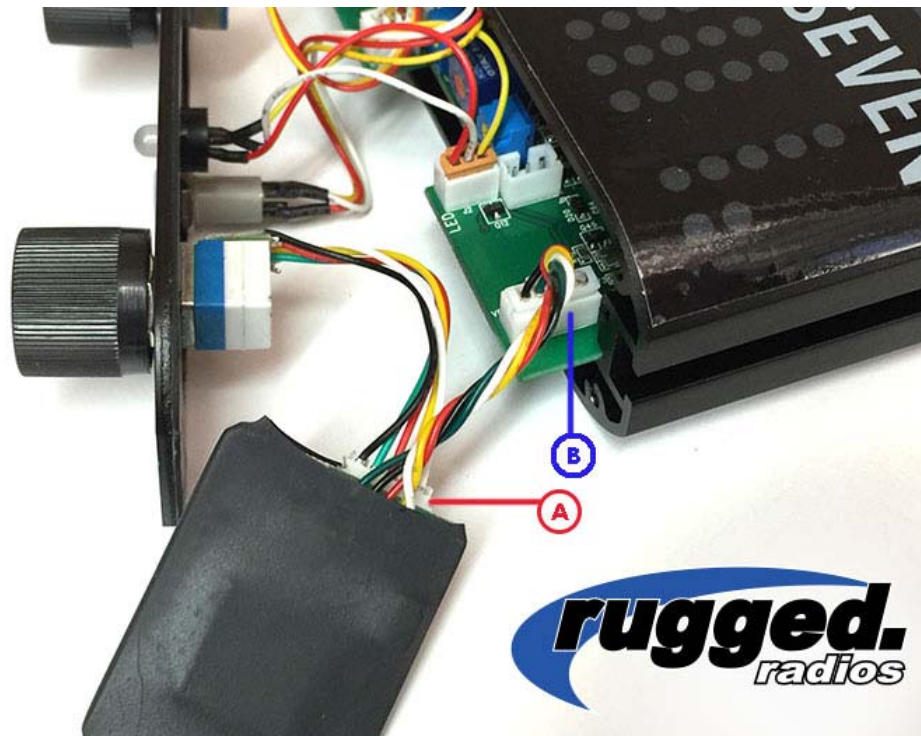


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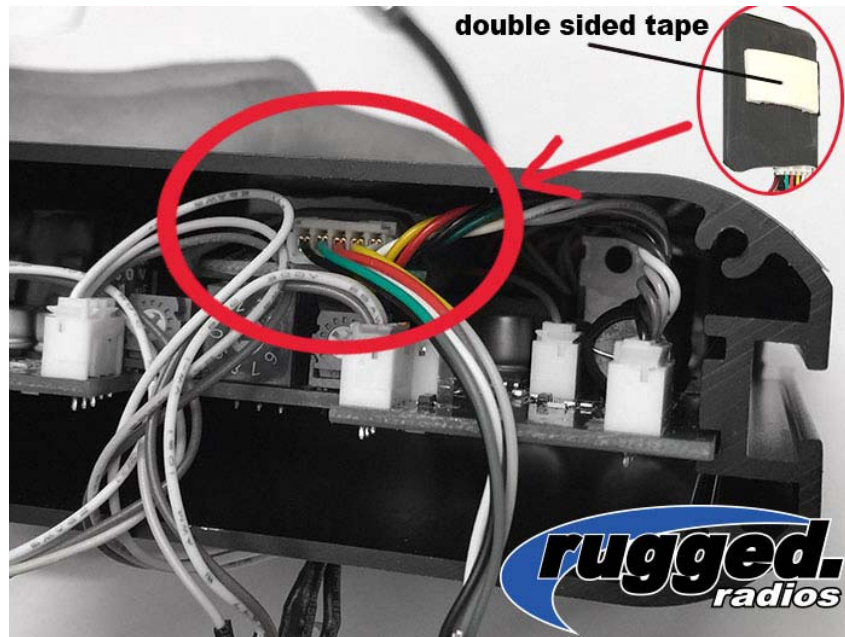
3. Plug connector A into the 5 pin connector in the DSP board, the two tabs on the connector will line up with the notch on the DSP unit.



4. Plug the pigtail from the DSP unit (plug "B") into the now-empty volume port on the intercom board.



5. We suggest you provide a way to secure the DSP chip from moving around inside the housing such as double sided tape. Place the DSP inside the housing far enough to allow room for the wires when replacing the faceplate.



6. Replace the faceplate and 4 front screws.



Due to the unique design of our RRP-686, please contact us for assistance with installing a DSP into an RRP-686