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TECHNICAL BULLETIN

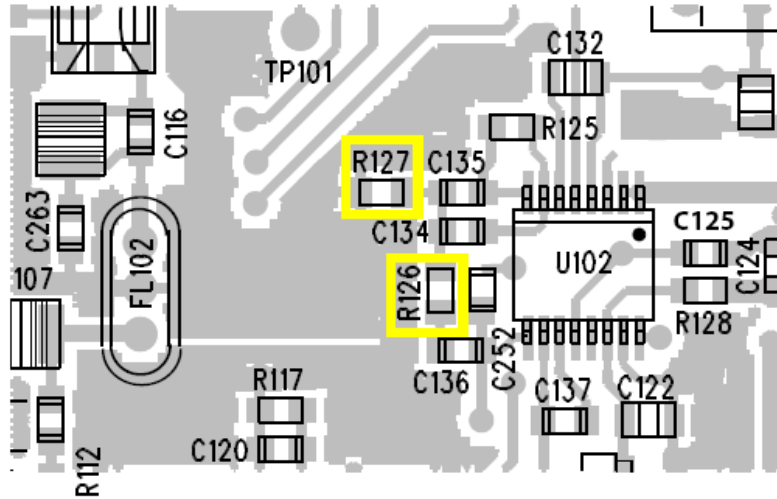
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RCCR RECEIVER SQUELCH BLOCKING

- Models affected:** All RCCR Locomotive units shipped before 2/25/2010.
- Symptom:** Some customers experienced intermittent squelching of the receivers even under strong RF levels.
- Cause:** Certain voices with high frequency audio content could appear as noise to the squelch circuit.
- Solution:** If you are experiencing this condition with a warranty radio, and you are unable to make the modifications without damage to the PC board and complete the realignment, return the radio freight prepaid to Ritron, and we will modify it at no charge.
NOTE: You must have the proper tools and experience to work with Surface Mount Technology components.
- Modifications:** On the 9/RCCR-RF board, under the top cover, change R127 from a 1.5k Ω 0603 resistor to a 1.0k Ω 0603 resistor. This change increases the center frequency of the squelch noise filter from 3.6 kHz to 4.4 kHz so that voice audio does not affect the level of squelch noise.

Change R126 from a 180 k Ω 0603 resistor to a 220 k Ω 0603 resistor. This change will increase the dynamic range of the noise squelch at 12 dB SINAD levels.
- Notes:** After the modifications are completed, all squelch settings should be re-adjusted, using the Align Section of the RCCR PC Programmer.

RF BOARD COMPONENT PLACEMENT



RF BOARD SCHEMATIC

