

## Both these mods greatly improve your receive.pdf

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Both these mods greatly improve your receive. I have incorporated both mods and decided to share the experience from doing them. First of all I do not recommend that you do these mods without having the proper tools and experience. This is a tight board and a hot soldering iron can damage components quickly if you are not careful.

Starting with the IMD mod for noise reduction you must remove the shielding box in the middle of the board to get to all the diodes. I performed both the mods using the [5082-3081](#) PIN diodes. I procured mine from Newark at a cost of about \$100. There are a few diodes that go in the reverse direction so follow the markings on the board with great care. Don't forget to replace the shielding box when you are done.

The front-end improvement mod can use a little better explanation in regards to the factory undocumented fix. If you have this fix it is at a cost to your receive, and is worse than the original rev of the board. The fix keeps the receiver from overloading when there are strong close stations. The result of Yaesu using cheap diodes. It incorporates the use of a choke and two diodes around the Q1022 amplifier. These components should be removed. D1063 should get a diode, and D1057 should already have a cap. On the foil side the choke is there already for D1063.

Here is the part that needs clarification. Self-oscillation will occur on 10 to 12 meters unless you trip the ATT relay, which will activate the 56-ohm resistor when transmitting. This is done by placing a diode between the T12 (power on transmit) and the coil side of the ATT relay. You want the flow of the diode going towards the coil of course and this is done on the foil side of the board. T12 circuit can be found at the J1002 connector number 6. You can find the coil side of the relay by locating the D1058 diode, which attaches to both sides of the coil. The ATT relay is Matsushita HD1-M-DC12V.

The T12 circuit supplies power to Q1022, R1129 & L1082. You can draw you 12 volts from any one of these components to trip the relay on transmit. I soldered the diode between the L1082 and D1058. I have attached a picture of the foil side of the board. After you completed these mods you will notice a big difference in your receive. Weaker stations that were hard to hear now come in without a problem. Good luck.



