

2.2 Xede

The Xede provides an output which is electrically similar to that employed by the ECU to drive the MIL lamp. This Xede output is normally intended by the manufacture to be utilized to drive an intercooler water spray system, or perhaps to modify valve timing.

As shown in Figure 2, pin 7 of the Xede's black connector is an "open drain" output (e.g. similar to ECU's MIL output). Also shown in Figure 2 is a ground (pin 8, black connector), which does **not** need to be connected if the Xede's boost control ground wire is connected to the Evo's ground. This ground connection is normally made to the ECU bracket, behind the glove box.

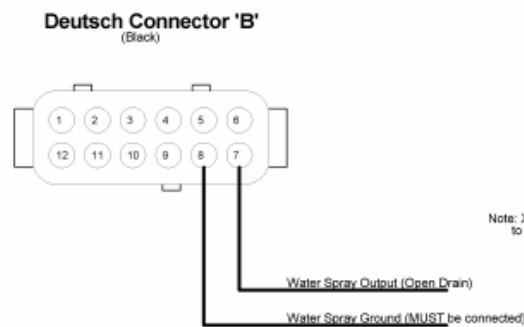


Figure 2: Xede Water Spray Output

The Xede's water spray system has a number of programmable features, as shown in Figure 3. By setting the control source to the knock buffer (i.e. AN0in), the system will monitor knock. Next one needs to decide at what level the knock indicator should be activated. By empirical means one can see that knock buffer output values of about 40% or greater (refer to Figure 4) are typical for engine knock conditions.

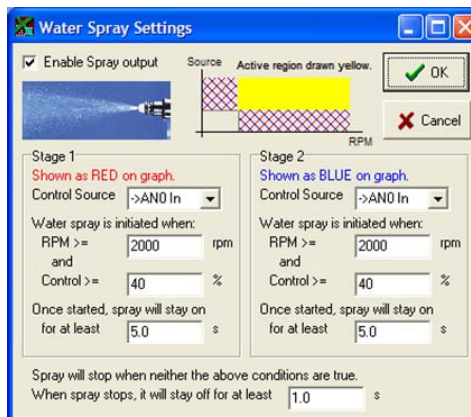


Figure 3: Xede Water Spray Configuration for Knock Indication via MIL