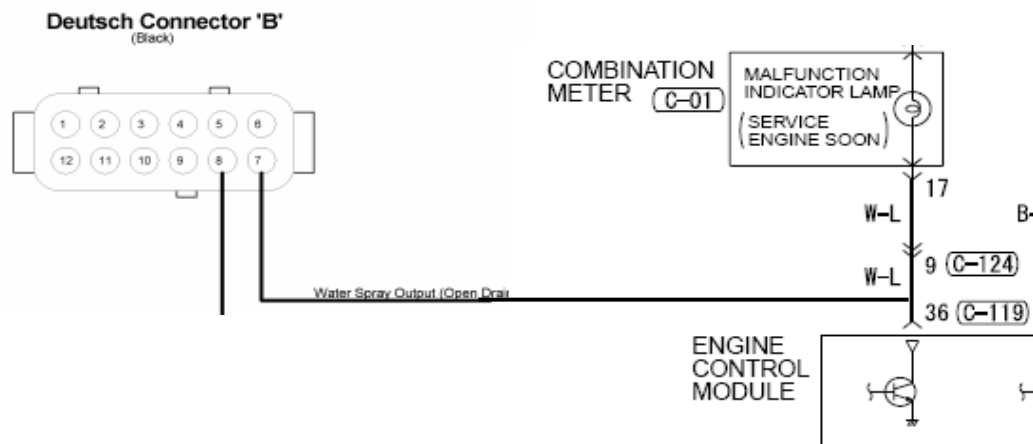


**Figure 4: Engine Knock Event Example**

Finally the Xede's water spray system permits programming the duration that the light will be activated. In Figure 3 the system is set to activate the light for 5 seconds. In addition the Xede's water spray system allows programming the duration that the indicator will be off after an event is activated. In Figure 3, an off time of 1 second was arbitrarily selected. One might want to set this for a much lower duration if it is desired to maximize the time the light is on (e.g. set the off time for 0.1 seconds).

### 3 Installation

To perform the modification a wire must be installed between pin 7 of the Xede's black connector and pin 36 of connector C-119 on the ECU, as shown in Figure 5.



**Figure 5: Knock Indicator Schematic**

To permit connecting to the Xede a Deutsch connector pin (either 1062-20-0122-PS or 0462-201-20141) must be employed. These pins are available from Batts Racing<sup>1</sup>.

<sup>1</sup> <http://www.deutschconnector.com>