



## UNIVERSAL ALARM INTERFACE PART # S1 FOR FACTORY / AFTERMARKET ALARM SYSTEMS

Diesel Turbo Lifesaver (DTLS) may need to be interfaced with factory or aftermarket alarm systems. Some alarm systems do not require interfacing, while others do. Two simple tests will tell you if interfacing is required. Please perform the following tests:

**CAUTION! PERFORM TESTS IN AN AREA WITH ADEQUATE VENTILATION TO AVOID CARBON MONOXIDE POISONING!**

**Test 1: ARMING TEST.** This test determines if your alarm can be armed (activated) while your vehicle is running.

- Start vehicle with ignition key.
- Arm alarm system. If alarm system arms, continue to test 2. If alarm system does not arm, interfacing is required. Go to interfacing ignition sense wire section below.

**Test 2: MOTION / SHOCK SENSOR TEST.** This test determines if the alarm sensor(s) are triggered when the motor of your vehicle is running.

- Start vehicle with ignition key.
- Arm alarm system.
- Wait 2 minutes. If alarm does not sound, interfacing is not required. If alarm sounds, interfacing is required. Go to interfacing sensors section below.

### INTERFACING PROCEDURES:

**NOTE: DUE TO THE VARIABLES IN ALARM SYSTEMS, SENSOR TYPES, AND INSTALLATION TECHNIQUES, INTERFACING IS OFTEN BEST PERFORMED BY THE AGENCY WHO ORIGINALLY INSTALLED YOUR ALARM. IF THAT AGENCY IS NOT AVAILABLE, MOST PROFESSIONAL ALARM SHOPS CAN EASILY PERFORM THE INTERFACE PROCEDURE.**

**NOTE: PLEASE TRY TO OBTAIN THE WIRING SCHEMATIC FOR YOUR PARTICULAR ALARM. IF YOU FAX (our fax # is 970 879-6097) THE SCHEMATIC TO US, OUR TECHNICAL DEPARTMENT CAN, IN MOST CASES TELL YOU WHAT WIRES TO INTERFACE TO AND WHAT DTLS INTER-FACE KITS MAY BE REQUIRED. MAKE SURE YOU PROVIDE US WITH YOUR TELEPHONE & FAX NUMBERS SO WE CAN CONTACT YOU.**

Diesel Turbo Lifesaver interfaces with alarm systems by momentarily "disconnecting" the ignition sense wire of the alarm (tells alarm the vehicle is running) and / or sensor trigger wires when a turbo cool down time is activated. When DTLS finishes cooling your turbo it automatically reconnects the alarm wires.

### INTERFACING IGNITION SENSE WIRE:

Find wire in which alarm senses ignition signal. Disconnect wire and perform test 1 from above. If alarm system does not arm, continue searching for proper ignition sense wire that when disconnected will allow alarm to arm. If alarm system arms, perform interface according to schematic at end of this document. Once you get alarm system to arm with vehicle running, perform test 2 from above to make sure sensor(s) do not trigger the alarm when the motor is running.

### INTERFACING SENSORS:

**Note:** Most alarm systems use only one sensor (shock / impact, glass breakage, or motion). However, we have seen alarms with two or more sensors. If your alarm has more than one sensor, you must determine which sensor(s) are triggering the alarm and need interfacing.

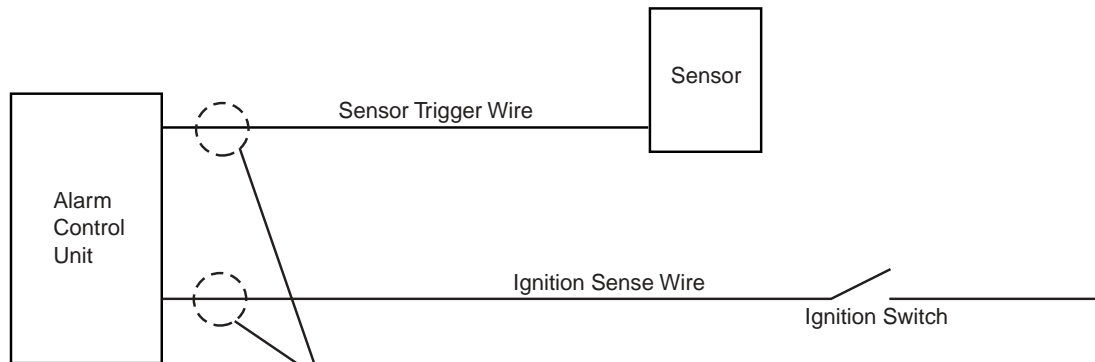
**Note:** Most alarm sensors have sensitivity adjustments. If your alarm has a history of false alarms, your sensor(s) are probably set too sensitive. We have found that most sensors, when properly adjusted, will not trigger the alarm when the engine is running. Please make sure your sensor(s) are adjusted to reasonable levels - it may save you the need to interface them.

If your sensors are properly set, and the running engine still triggers them, then interfacing is required. General sensor interfacing instructions are as follows:

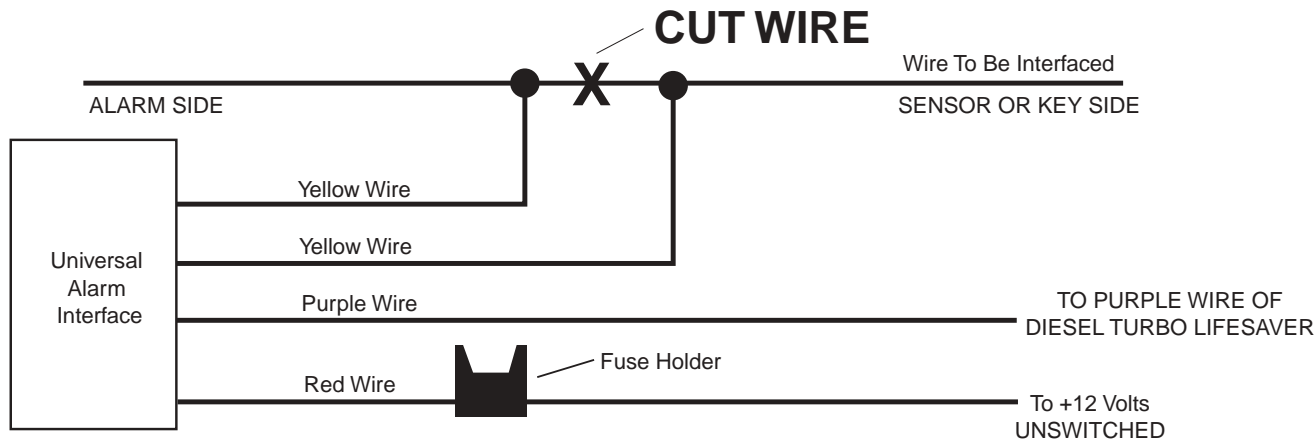
Find trigger wire of sensor(s) that goes to alarm. Most modern sensors are electronic and have a power and ground wire. Avoid interfacing the power or ground wire to a sensor as many sensors will send a trigger signal to the alarm when they are reconnected to power or ground, thus triggering the alarm! Interface trigger wire using schematic below. Repeat sensor interface procedure for all remaining sensors that may be triggering alarm.

When alarm passes tests 1 and 2 (as outlined in beginning of "interface instructions"), you can secure all wires with cable ties and reassemble any parts of your vehicle that you may have disassembled.

**NOTE: EACH ONE OF THE TWO PURPLE WIRES OF DTLs CAN DRIVE UP TO 2 INTERFACES.**



PERFORM INTERFACE AS SHOWN BELOW  
ON EACH WIRE THAT REQUIRES INTERFACING



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