

## **Idle Timer Controller - ITC 501-A1**

### **2008-2010 Ford F Series - 6.4L Engines Only**

#### **System Operation**

ITC501 allows a diesel engine to continuously idle when certain aftermarket equipment requires the engine to be running. When the operator engages the power switch to this equipment, the ITC501 prevents the OEM Engine Shutdown System (ESS) from "Timing Out" and shutting down the engine. This allows continuous idling when the equipment is in use. When the equipment power switch is disengaged, the Idle Timer Controller module allows the Engine Shutdown System to function normally.

#### **Installation Instructions**

Remove the lower dash panel below the steering column area and find a suitable location to mount the Idle Timer Controller module. Do not mount the module until all wire harnesses are routed and secure (last



**WARNING**  
Disconnect the battery to prevent setting a check engine light.

#### **Data Link Harness**

- Locate the vehicle OBDII Data Link Connector. It will be mounted below the lower left dash panel.
- Remove the mounting screws for the OBDII connector. Plug the red connector from the Idle Timer Controller Data Link T- Harness into the vehicle OBDII connector. Ensure the connection is fully seated and secured with the supplied wire tie.
- Mount the black connector from the Idle Timer Controller Data Link Harness in the former location of the vehicle OBD II connector.
- Secure the ITC501 harness so that it does not hang below the lower dash panel.
- Plug the 4-pin connector from the Data Link Harness into the 4-Pin connector on the module.



#### **Power Input Harness**

- Connect the Idle Timer Controller Power I/O connector Pin #1 Red Wire to the load side of the aftermarket equipment switch.
- Switch must supply 12V when equipment is on.
- Plug the 6-pin Idle Timer Controller Power I/O connector into the "Power I/O" connector on the controller module.

#### **Module Location**

- Locate the module in an area away from any external heat sources. Mount the module with two-sided tape or hold in place by securing the Data Link Harness.
- Make sure the ambient temperature where the module is located is less than 150 °F. High temperatures can typically be caused by engine heat if the module is mounted near the engine cover or hot air being supplied by the heater ducts. Relocate the module if necessary.

**Reinstall the lower dash panel and reconnect the battery.**

**Check for proper system operation.**

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