

IDLE501
Idle Lock™ Anti-Theft
2013—2015 Ford Interceptor (Sedan or Utility)
Contact InterMotive for additional vehicle applications.



Introduction

Idle-Lock is an anti-theft system that keeps an unattended vehicle's engine idling with the key removed and shifter locked in Park. The system will automatically shut off the engine if anyone attempts to shift out of Park while the key is removed (shifter remains locked in Park). Idle Lock is instantly disabled when the key is inserted and turned to Run.

Installation Instructions

Disconnect vehicle battery before proceeding with installation



WARNING

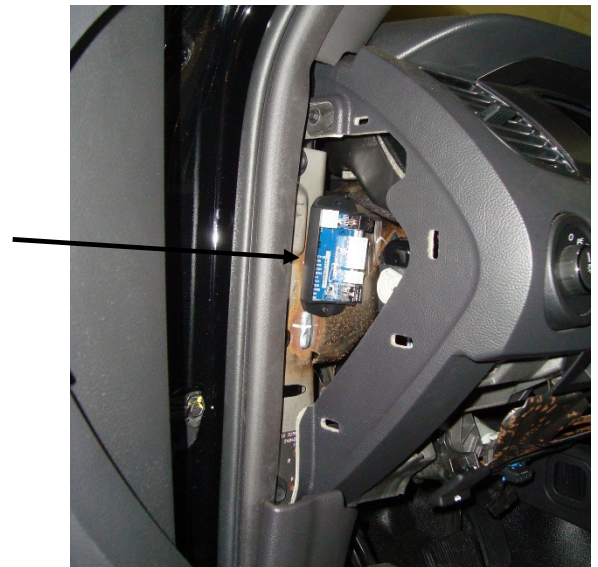
Disconnect the battery to prevent setting a check engine light.

It is the installer's responsibility to route and secure all wiring harnesses where they cannot be damaged by sharp objects, mechanical moving parts and high heat sources. Failure to do so could result in damage to the system or vehicle and create possible safety concerns for the operator and passengers. It is important to avoid placing the module where it could encounter strong magnetic fields from high current cabling connected to motors, solenoids, etc. Also avoid radio frequency energy from antenna's or inverters next to the module. Finally, avoid high voltage spikes in vehicle wiring by always using diode clamped relays when installing upfitter circuits.

IDLE501 Module

Remove the dash end cap on the drivers side and mount the module as shown.

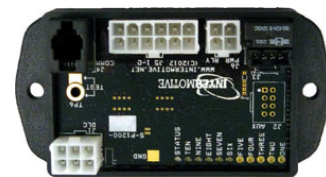
Ensure when routing harnesses that the tilt steering column does not contact them in the full down position. When installing the harnesses, leave several inches of take-out such that the module can be removed if necessary.



Installation Instructions (continued)

Data Link Harness

1. Locate the vehicle's OBDII Data Link Connector. It will be mounted below the lower left dash panel.
2. Remove the mounting screws for the OBDII connector. Plug the Red connector from the Idle Lock Data Link Harness into the vehicle's OBDII connector. Ensure the connection is fully seated and secure with the supplied wire tie.
3. Mount the Black pass through connector from the Idle Lock Data Link Harness in the former location of the vehicle's OBDII connector.
4. Secure the Idle Lock Data Link harness so that it does not hang below the lower dash panel.
5. Plug the free end of the Data Link harness into the mating 6-pin connector on the Idle Lock module.



↑ Data Link Harness plugs in here

Ignition Switch Harness

The ignition switch must be accessed in order to connect the Idle Lock ignition harness. The following sections provide separate ignition switch harness installation instructions for the Sedan and Utility Interceptors. Several dash trim panels must be removed. See appropriate section for your installation.

Sedan Interceptor

- Remove the lower center instrument panel by firmly grasping the panel and pulling toward the rear of the vehicle.



- Remove the instrument panel face trim by removing one screw, firmly grasping the panel, and pulling it towards the rear of the vehicle.
- Not shown—Remove the lower left dash panel under the steering column.



Ignition Switch Harness—Sedan Interceptor (continued)

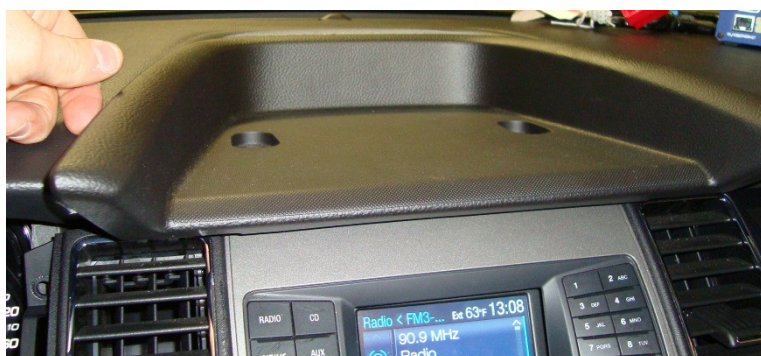
- Remove the panel to the left of the ignition switch by firmly grasping and pulling the panel towards the rear of the vehicle.



- Remove the right hand side dash panel above the glove box by pulling towards the rear of vehicle.



- Remove the upper dashboard tray by removing the two screws on the top of the tray, firmly grasping the tray, and pulling towards the rear of the vehicle.

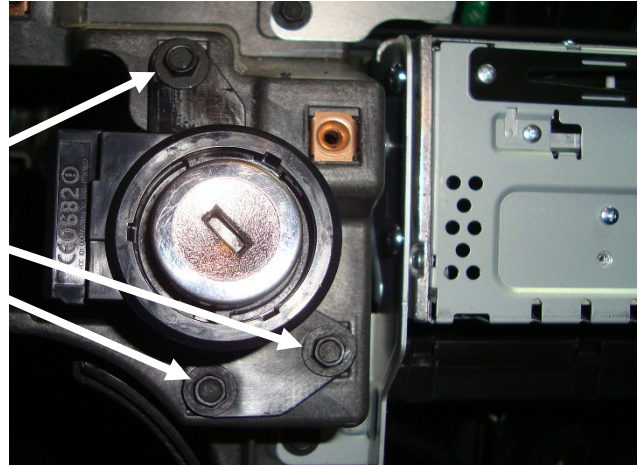


- Remove the center instrument panel by removing the ten screws, firmly grasping the panel, and pulling towards the rear of the vehicle.

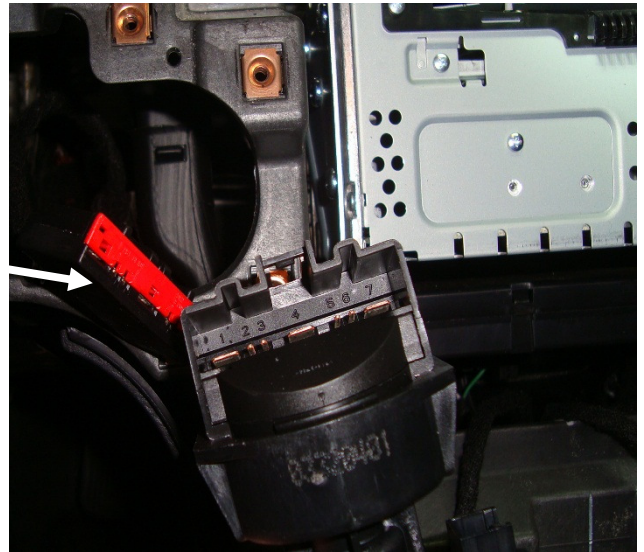


Ignition Switch Harness—Sedan Interceptor (continued)

- Remove the ignition switch by removing the three screws and pulling the switch out of the opening.



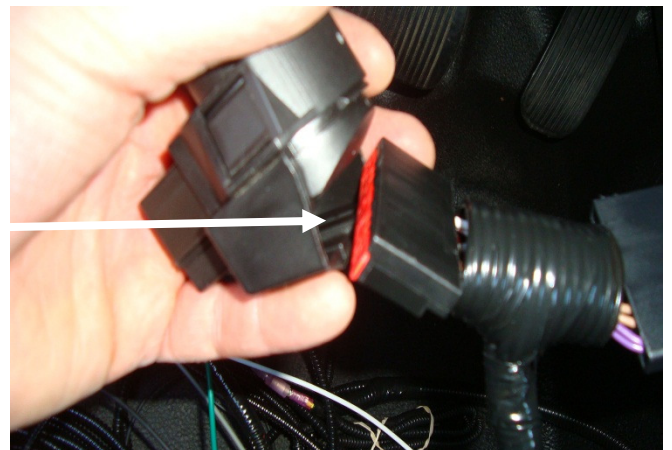
- Remove the OEM 7 pin connector from the ignition switch and connect it to the female connector of the Idle Lock harness. Connect the male Idle Lock connector to the OEM ignition switch.



Ignition Switch Harness

Utility Interceptor

- Using a non-marring pry tool, remove the LH and RH finish panels from the center stack on the dash. Remove the screws securing the center instrument finish panel, disconnect the connectors from the back, and remove it from the dash.
- Remove the four screws securing the radio to the dash, disconnect the connectors from the back, and remove it from the dash.
- Reach behind the ignition switch, locate the ignition switch connector, and disconnect it from the ignition switch.
- Plug the OEM switch harness connector into the female connector of the Idle Lock Ignition Switch harness.
- Connect the male Idle Lock Ignition switch harness connector to the OEM ignition switch.



Shift Lock Harness Installation

Sedan and Utility

1. Locate the OEM shift lock solenoid at the right side of the steering column (photo below).
2. Remove the OEM 4-pin Black connector from the shift lock solenoid assembly.
3. Idle Lock provides a shift lock T-harness. Plug one leg of the Idle Lock T-harness into the OEM shift lock solenoid, and the other leg into the OEM harness.
4. Route the third leg of the Idle Lock T-harness to the Idle Lock module on the left side of the dash. Plug the White 4 pin connector into the mating connector on the Idle Lock module.



I/O Wiring, Features, and Descriptions: (Solder and heat shrink all connections)

Lock Output

Pin 2, White wire of the 12 pin connector is the Idle Lock output. This output (500mA max current) can control installer supplied normally closed relays to disable the trunk and weapon rack release buttons when Idle Lock is active. When Idle Lock activates this output, the relays will open the circuits from the buttons and disable them. This minimizes possible theft when Idle Lock is active and the vehicle is unattended.

When Idle Lock is enabled, this output becomes active after a configurable delay (default 10 seconds). This output remains active until the key is back in the run position.

Idle Lock Enable Switch and Active LED

An LED is provided in the kit which lights when Idle Lock is active.

1. Drill a 16mm (0.630") hole in the desired mounting location. One possibility is the dash panel to the left of the Steering Wheel.
2. Route the LED harness through the hole and mount the LED in the hole.
3. Slide the LED's lock nut onto the harness and snug it down onto the back of the LED.
4. Plug in the 4 pin (Black) connector of the LED harness into the mating connector on the Idle Lock main harness.
5. Apply optional "Idle Lock Enable/Active" label included in the kit.



IDLE501 Module Mounting

Ensure all harnesses are properly connected and routed, and are not hanging below the dash area. Mount the module as described on page one and secure with supplied screws or double sided tape.

IDLE501 Harness (4 Pin connector and 12 Pin connector)

1. Plug the IDLE501 12 Pin connector into the mating 12 pin connector on the IDLE501 module.
2. Plug the IDLE501 4 Pin connector into the mating 4 pin connector on the IDLE501 module.

Reconnect the vehicle battery

Post Installation Operational Test

Test 1. Start the Engine.

Test 2. While the engine is running, enable Idle Lock by momentarily pressing the enable switch.

- The Red LED will flash five times and then blink every two seconds.
- Remove the key from the ignition within 3 seconds, the engine will continue to idle.
- Idle Lock is now active.

Test 3. Attempt to shift the vehicle out of Park. The system will shut down the engine and keep the shifter locked.

Test 4. Insert key into the ignition and start the vehicle. The vehicle should start and be able to shift out of Park.

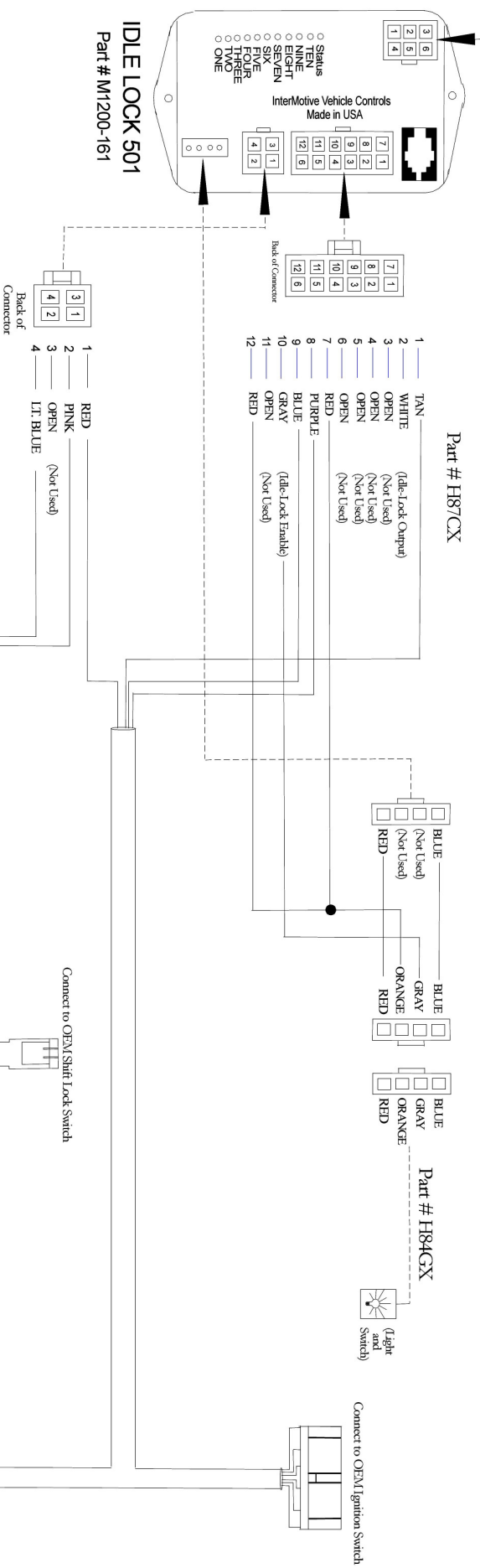
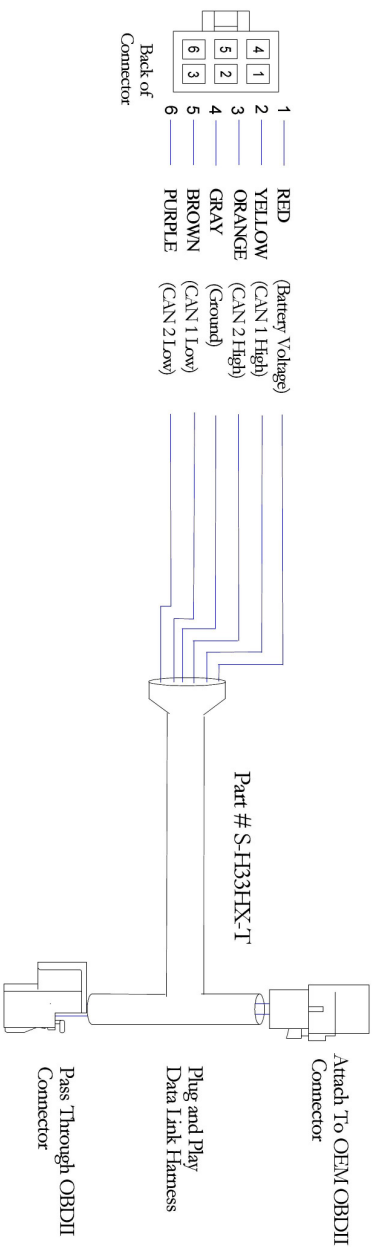
If the system fails any of the above tests, check the related wiring. If necessary, call InterMotive Technical Support at 530-823-1048. Do NOT release vehicle for service unless it has passed ALL of the above tests.

**IDLE501-A
Leave in Vehicle
Operating Instructions
Idle-Lock™ Anti-Theft
2013—2015 Ford Interceptor (Sedan or Utility)**



Idle Lock will automatically shut off the engine if anyone attempts to steal the vehicle by shifting out of Park while the key is removed (shifter remains locked in Park). Idle Lock is instantly disabled when the key is inserted and turned to Run.

- Idle Lock is enabled by removing the key from the ignition within 3 seconds of pressing the Idle Lock enable switch. Transmission must be in Park.
- To prevent unattended vehicle theft (Idle Lock active), the engine will turn off if someone attempts to shift the vehicle out of Park. The shifter will remain locked, and the trunk and weapons rack release buttons will remain disabled.
- Inserting the key and turning it to Run restores normal operation. Trunk and weapons rack release buttons are restored to normal operation.



Submit product registration at www.intermotive.net

If the Idle Lock 501 fails any step in the Post Installation Test, review the installation instructions and check all connections.
 If necessary, call InterMotive Technical Support at (530) 823-1048.