

Instructions



G-IDLE504

Idle Lock™ Anti-Theft
2021 - 2023 Ford F150

Contact InterMotive for additional vehicle applications.

Introduction

Idle-Lock is an anti-theft system that allows the engine to idle with the key removed from the ignition. The system is activated by pressing a momentary enable switch and removing the key within three seconds.

Installation Instructions

Disconnect vehicle battery before proceeding with installation



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

IMPORTANT — READ BEFORE INSTALLATION

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. Avoid placing the module where it could encounter strong magnetic fields from high current cabling connected to motors, solenoids, etc. Avoid radio frequency energy from antennas or inverters next to the module. Avoid high voltage spikes in vehicle wiring by always using diode clamped relays and solenoids when installing upfitter circuits.

CAUTION

All electronic products are susceptible to damage from Electrostatic Discharge or ESD. Ground yourself before handling or working with the module and harnessing by first touching chassis ground, such as the barrel of the cigarette lighter.



G-IDLE504 Module

Locate the module in an area away from excessive heat sources (engine, heater ducts, etc.). 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.

Do not mount the module until all wire harnesses are routed and secure. The last step of the installation is to mount the module.

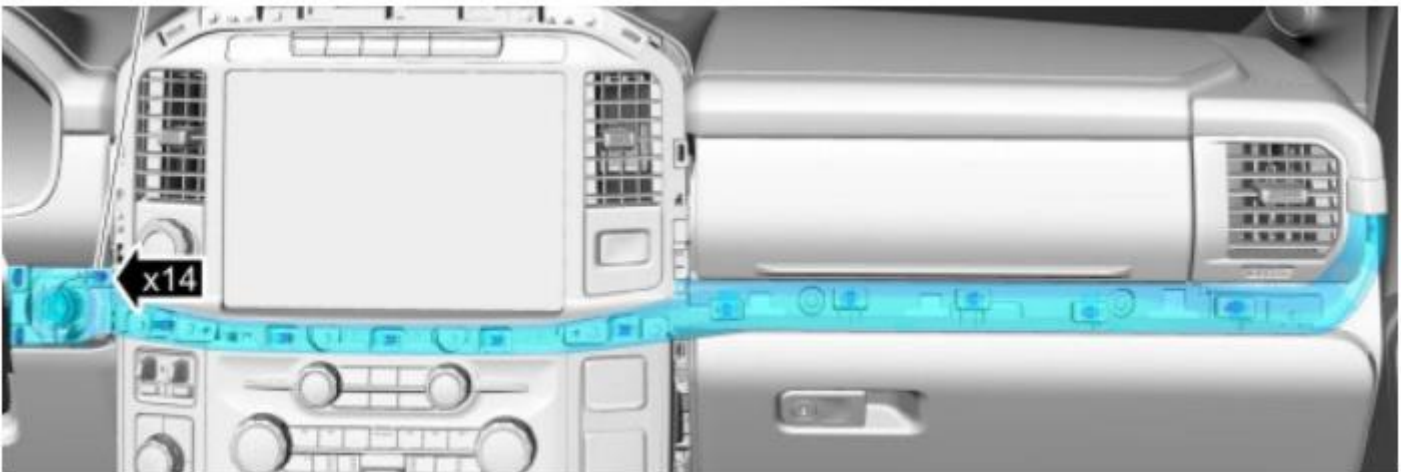
Instructions

Data Link Harness (6-pin connector)

1. Remove the upper centerstack bezel using a plastic trim tool. There are 8 clips securing it to the dash.



2. Remove the instrument center trim panel using a plastic trim tool. There are 14 clips securing it to the dash.



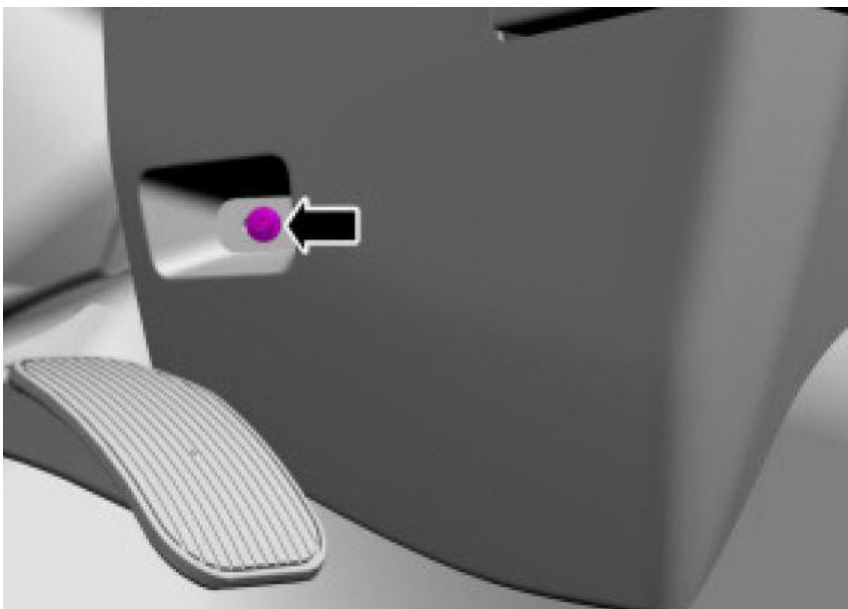
Instructions

Data Link Harness (Continued)

3. Grasp the lower trim panel below the steering column and pull down. Unscrew the (2) 7mm screws and remove them. Remove the remainder of the lower steering column panel using a plastic trim removal tool. There are 7 clips securing it to the dash.



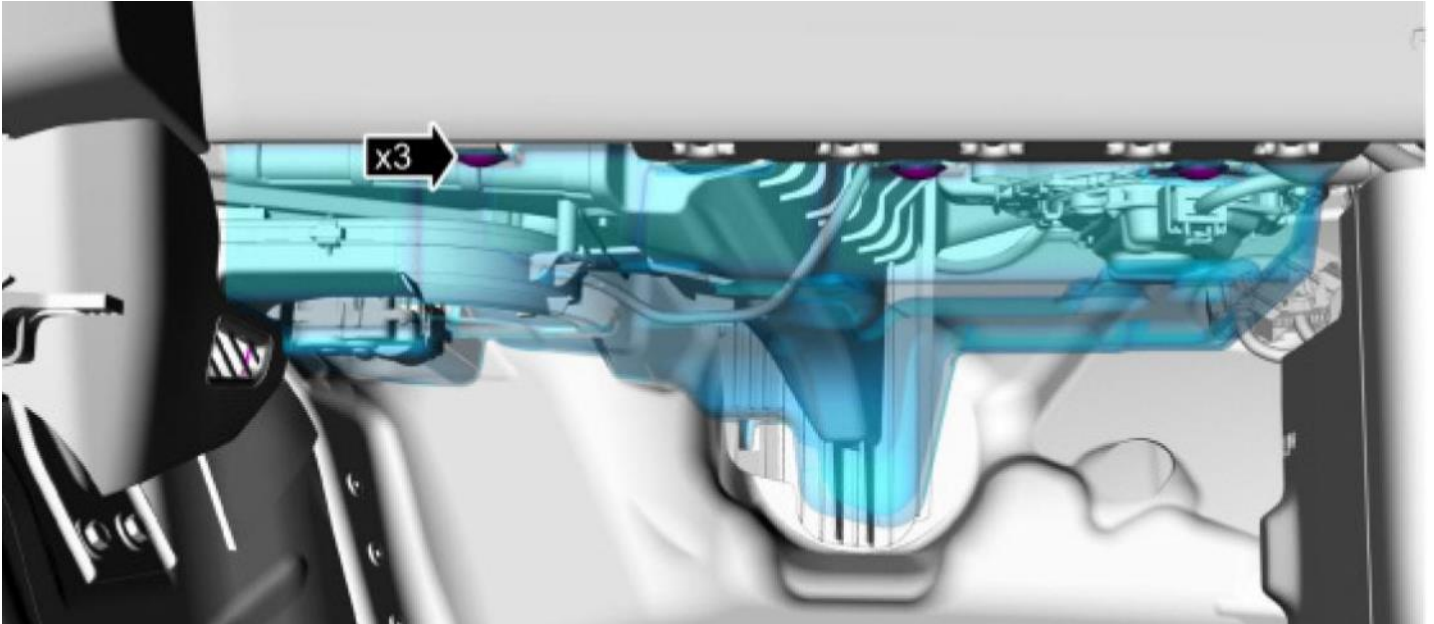
4. Remove the 7 mm screw from the instrument panel lower trim panel.



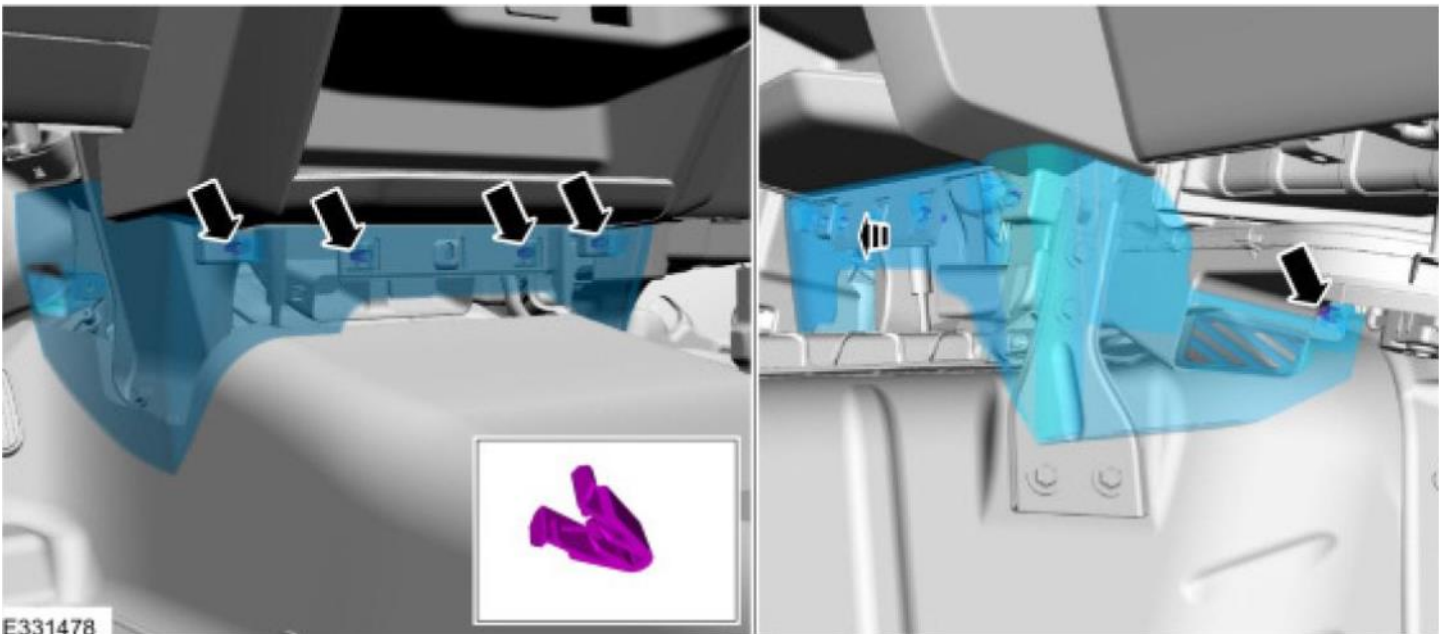
Instructions

Data Link Harness (Continued)

5. Remove the (3) pin-type retainers from the fabric trim panel located below the glovebox and remove the trim panel.



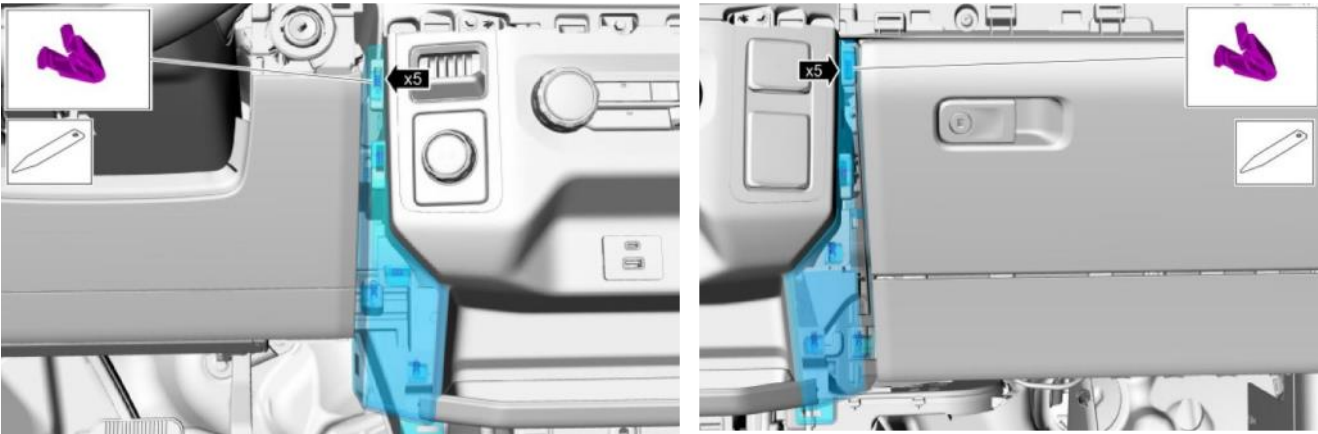
6. Remove the instrument panel lower trim panel using a plastic trim removal tool. There are 6 clips securing it to the dash.



Instructions

Data Link Harness (Continued)

7. Remove the left and right lower centerstack trim panels. They each have 5 clips securing it to the dash.



8. Remove the (4) 7 mm screws from the lower centerstack trim panel.



Instructions

Data Link Harness (Continued)

9. Remove the (2) 10 mm screws from the left and the right sides of the centerstack trim panel.



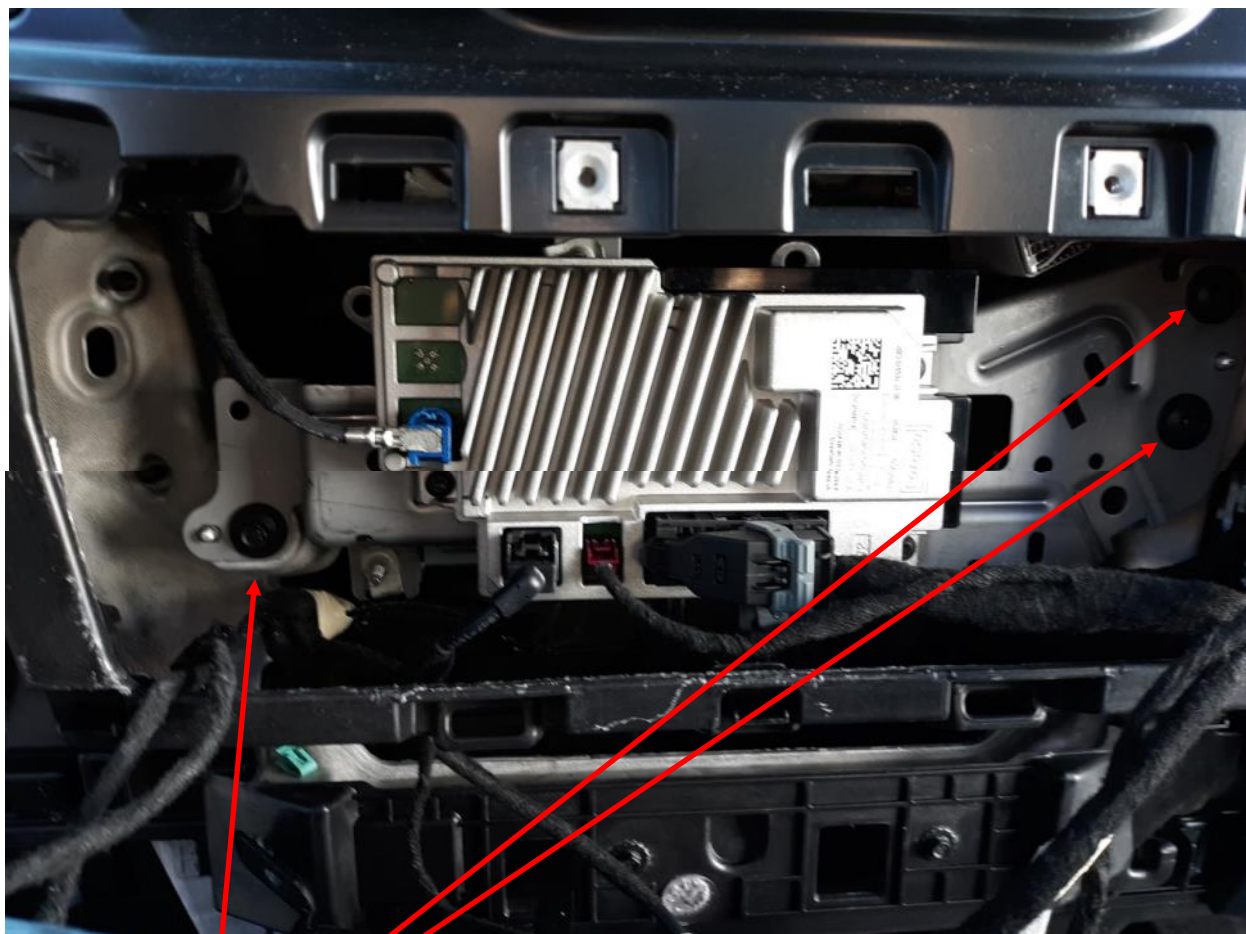
10. Grab the centerstack trim panel and set it on the floor. There is no reason to disconnect any of the connectors.



Instructions

Data Link Harness (Continued)

11. Locate the module below the radio and remove the connectors from the module.



12. Remove the (3) 8 mm screws from the module located below the radio.

Instructions

Data Link Harness (Continued)

13. Locate the 26-pin connector and disconnect it from the Gateway Module. Plug the 26-pin connector of the 840-00155 into the mating connector on the InterMotive harness. Plug the Male connector from the InterMotive 840-00155 harness into the mating connector at the OEM Gateway module.



Data Link Harness
plugs in here



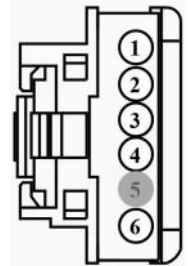
Instructions

Ignition Switch Harness

The ignition switch must be accessed in order to connect the Idle-Lock ignition harness.

1. Locate the ignition switch connector (C250) and disconnect it from the ignition switch.
2. Install the Idle-Lock harness between the Ignition Switch and the OEM connector.

C250
Front of
Connector



Lock Output (Active High)

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 lock/disable equipment when Idle-Lock is active. This minimizes possible theft when Idle-Lock is active and the vehicle is unattended.

When Idle-Lock is enabled, this output becomes active after 10 seconds. This output remains active until the key is back in the run position.

Idle-Lock Active Output (Active High)

Pin 11, Yellow wire of the 12 pin connector is the Idle-Lock Active output. This output (500mA max current) can control installer supplied normally closed relays or auxiliary indicator LEDs. When Idle-Lock is enabled, this output becomes active. This output remains active until the key is back in the run position. Mounted in an appropriate location these indicators will allow the operator to easily determine if Idle-Lock mode is active.

Instructions

Idle-Lock Enable Switch and Active LED

An LED is provided in the kit which illuminates 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.



G-IDLE504 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.

G-IDLE504 Harness (4 Pin connector and 12 Pin connector)

1. Plug the G-IDLE504 4 Pin connector into the mating 4 pin connector on the G-IDLE504 module.
2. Plug the G-IDLE504 12 Pin connector into the mating 12 pin connector on the G-IDLE504 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 asserting the enable request input.

- 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 the engine off. At this time the OEM horn should sound for 20 seconds after the service brake is pressed or until the key is turned to the run position. Note that the horn feature can be disabled if not desired.

Test 4. Verify that the Lock Output disables/locks equipment at the proper times (if wired).

Test 5. Insert key and turn to RUN.

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.

Instructions

LEAVE IN VEHICLE

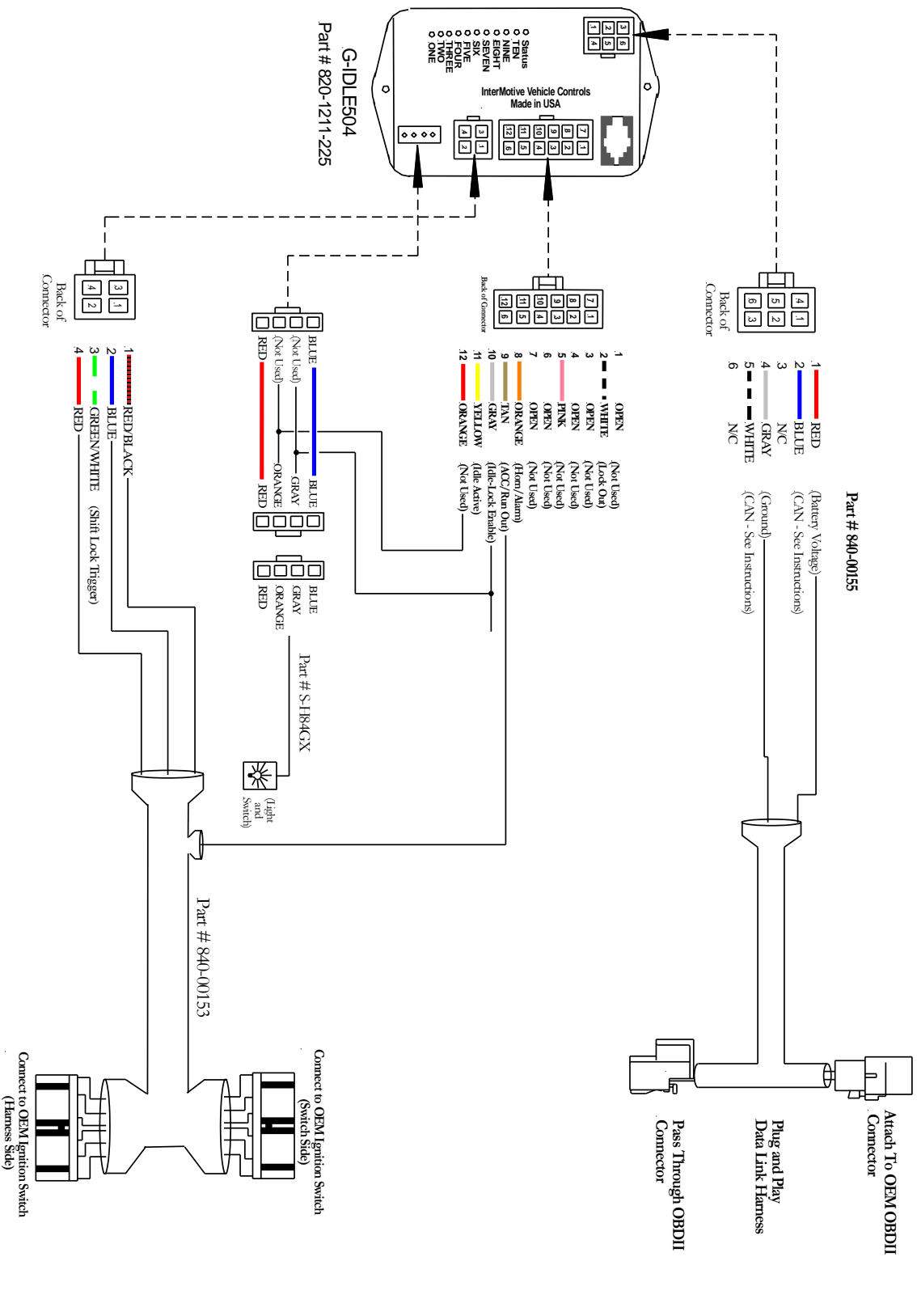
Operating Instructions - G-IDLE504

2021 - 2023 Ford F150

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Idle-Lock is an anti-theft system that allows the engine to idle with the key removed from the ignition and the shifter locked in park. The system is activated by pressing a momentary enable switch and removing the key within three seconds. If the service brake is pressed while in Idle-Lock mode the horn will sound as an alarm.

- Idle-Lock is enabled by removing the key from the ignition within 3 seconds of asserting the Idle-Lock enable input. Transmission must be in Park and engine must be running.
- Inserting the key and turning it to Run restores normal operation. The Lock Output will turn off.



Submit product registration at www.Intermotive.net

If the G-IDLE504-A fails any step in the Post Installation Check List, review the installation instructions and check all connections.
 If necessary, call InterMotive Technical Support at (530) 823-1048.