

C-IDLE704-A
Idle Lock™ Anti-Theft
2022 RAM ProMaster
Contact InterMotive for additional vehicle applications



Introduction

Idle-Lock is an anti-theft system that allows the engine to idle with the key fob removed from the vehicle and the shifter locked in park. The system is activated by exiting the vehicle with the key fob and closing all doors. If the service brake is pressed while in Idle-Lock mode, the vehicle will alarm. The system also provides a shift lock input that can be used as an interlock for the rear door.

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.

IDLE704 Module

Remove the lower dash panel below the steering column and find a suitable location to mount the 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.

Installation Instructions (continued)

Data Link Harness — 6 pin connector

The ProMaster has an OEM Gateway module located behind the glovebox. Follow the steps below to access it:

1. Open the glovebox door.
2. Locate the 2 release tabs on the inside of the glovebox (one on the left and one on the right) and drop the door into the full down position.
3. Locate the two fasteners securing the glovebox assembly to the vehicle and remove them.
4. Locate the 4 fasteners on the outside of the glovebox assembly and remove them.
5. Remove the glove box assembly.
6. The Gateway module is located behind the glove box assembly as shown in the picture.
7. Remove the 12-pin and 8-pin connectors from the Gateway module and plug in the 12-pin and 8-pin connectors from the Intermotive C-IDLE704-A Data Link harness. Plug the OEM 12-pin and 8-pin connectors into the mating connectors on the C-IDLE704-A Data Link harness.
8. Plug the free end of the 6-pin Data Link harness into the mating 6-pin connector on the C-IDLE704-A module. If absolutely necessary, plug the free end of the 6-pin Data Link harness into the mating 6-pin connector to the 4 foot extension harness (S-H94AX-04). Plug the other end of the extension harness into the mating 6-pin connector on the C-IDLE704-A module.



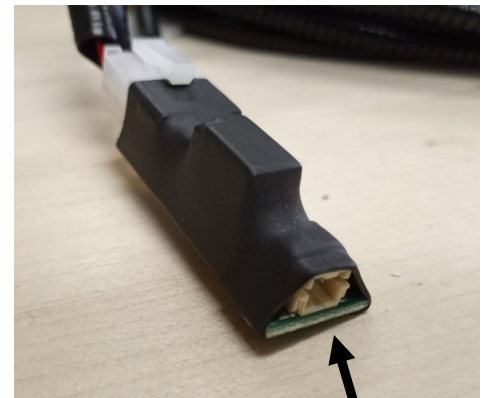
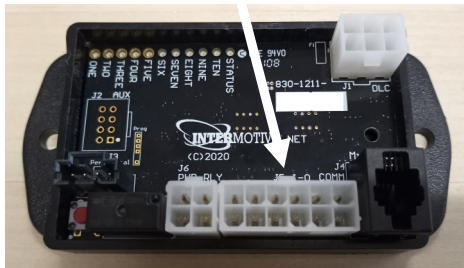
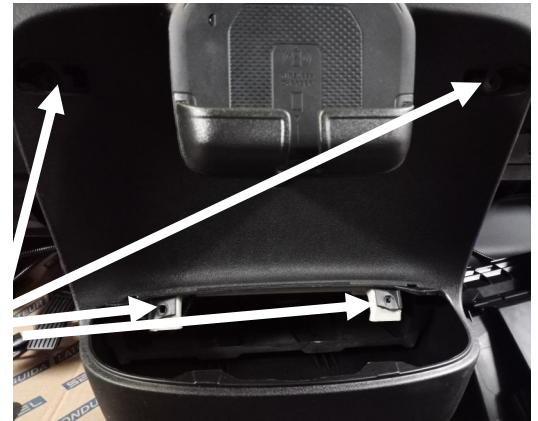
Power Resistor Installation

1. Locate the piece of exposed metal above the Gateway module from the instructions above.
2. Install the power resistor to the exposed metal using the included screws. It will be necessary to pre-drill the holes first using a #39 drill bit.



Shift Lock Solenoid T-Harness

1. Remove the four screws from the lower center panel below the shifter. It will be necessary to remove the cup holder to access the lower 2 screws.
2. Remove the lower center panel by firmly grasping the panel and pulling toward the rear of the vehicle.
3. The C-IDLE704-A kit provides a "T" Shift Lock harness which must be installed between the OEM harness and the shifter PCB. Locate the OEM 2-pin shift lock solenoid connector (located on the underside of the shifter). There is a layer of foam that will need to be repositioned to locate the connector and it may be necessary to cut an OEM zip tie. Pinch the connector tab, unplug it, and insert it into the C-IDLE704-A mating connector. Plug the C-IDLE704-A male connector into the OEM shift lock solenoid connector on the PCB.
4. Route the shift lock harness 12-pin connector over to where the module will be installed and plug the white 12-pin connector into the module.



Plug OEM 2-Pin connector here

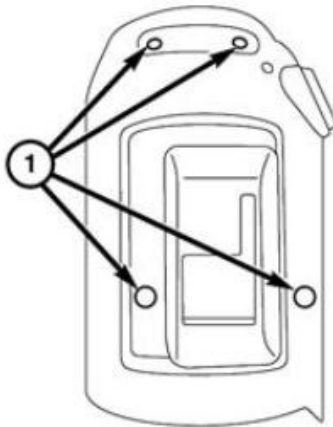
Ignition Switch Installation

The ignition switch must be accessed in order to connect the C-IDLE704-A ignition harness.

1. Remove the lower steering column opening cover (trim panel below steering wheel). 3 screws will need to be removed.

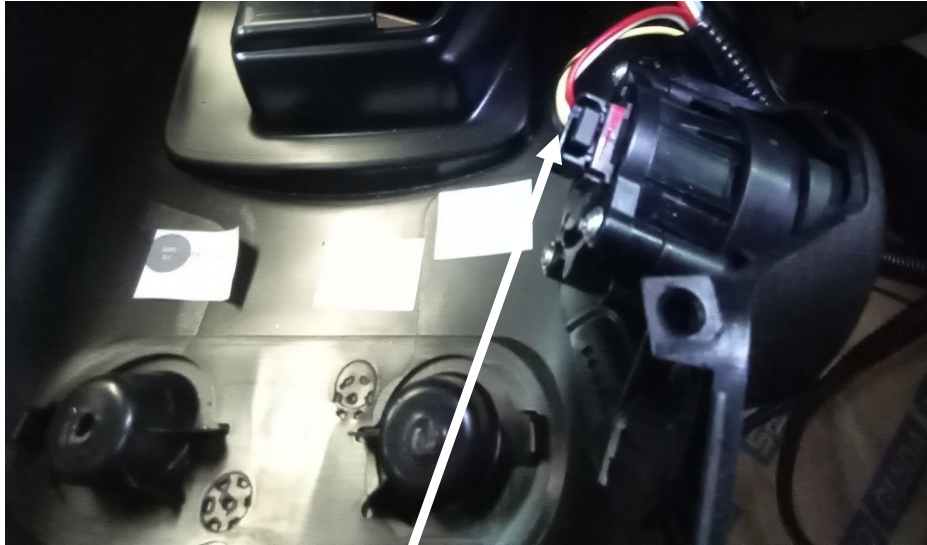


2. Remove the four screws attaching the lower shroud to the upper shroud.



Ignition Switch Installation (Continued)

3. Unclip the upper and lower shrouds from one another by applying hand pressure along the seams where the shrouds connect on the sides. Drop the lower shroud down to access the back of the Push-to-Start button.



4. Remove the OEM connector from the rear of the Push-to-Start button and plug it into the mating connector on the InterMotive harness. Plug the male connector from the InterMotive harness into the mating connector at the rear of the Push-to-Start button.

I/O Wiring, Features, and Descriptions

Shift Lock

Idle-Lock will lock the shifter if the system is active (engine idling with fob outside vehicle) or if the Shift Lock Request Input is grounded.

Shift Lock Request Input (Active Low)

Pin 3, Green-Black wire of the 4-pin connector is the Shift Lock Request Input. This input could be connected to the rear door switch to lock the shifter in park if the door is open.

Shift Lock Request Override Input (Active Low)

Pin 5, Pink wire of the 12 pin connector is the Shift Lock Request Override Input. This input should be connected to a momentary button that will override shift lock due to the Shift Lock Request Input. This input will allow the operator to temporarily override shift lock to shift the transmission out of park in the event of a bad door switch. It will only allow override if the fob is detected in the vehicle with engine running.

Idle-Lock Active LED

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

1. Drill a 12mm (0.492") 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.



IDLE704 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.

IDLE704 Harness (4 Pin connector and 12 Pin connector)

1. Plug the C-IDLE704-A 12-Pin connector into the mating 12-pin connector on the IDLE704 module.
2. Plug the C-IDLE704-A 4-Pin connector into the mating 4-pin connector on the IDLE704 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 exiting the vehicle with the fob and closing the door.

- The Amber LED will flash five times and then blink every two seconds.
- Idle-Lock is now active.

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

Test 4. Enter vehicle and close the door. The vehicle should now be able to shift out of Park.

- The system will deactivate (shut down engine) if anyone defeats the OEM shift lock mechanism and shifts the vehicle out of Park.

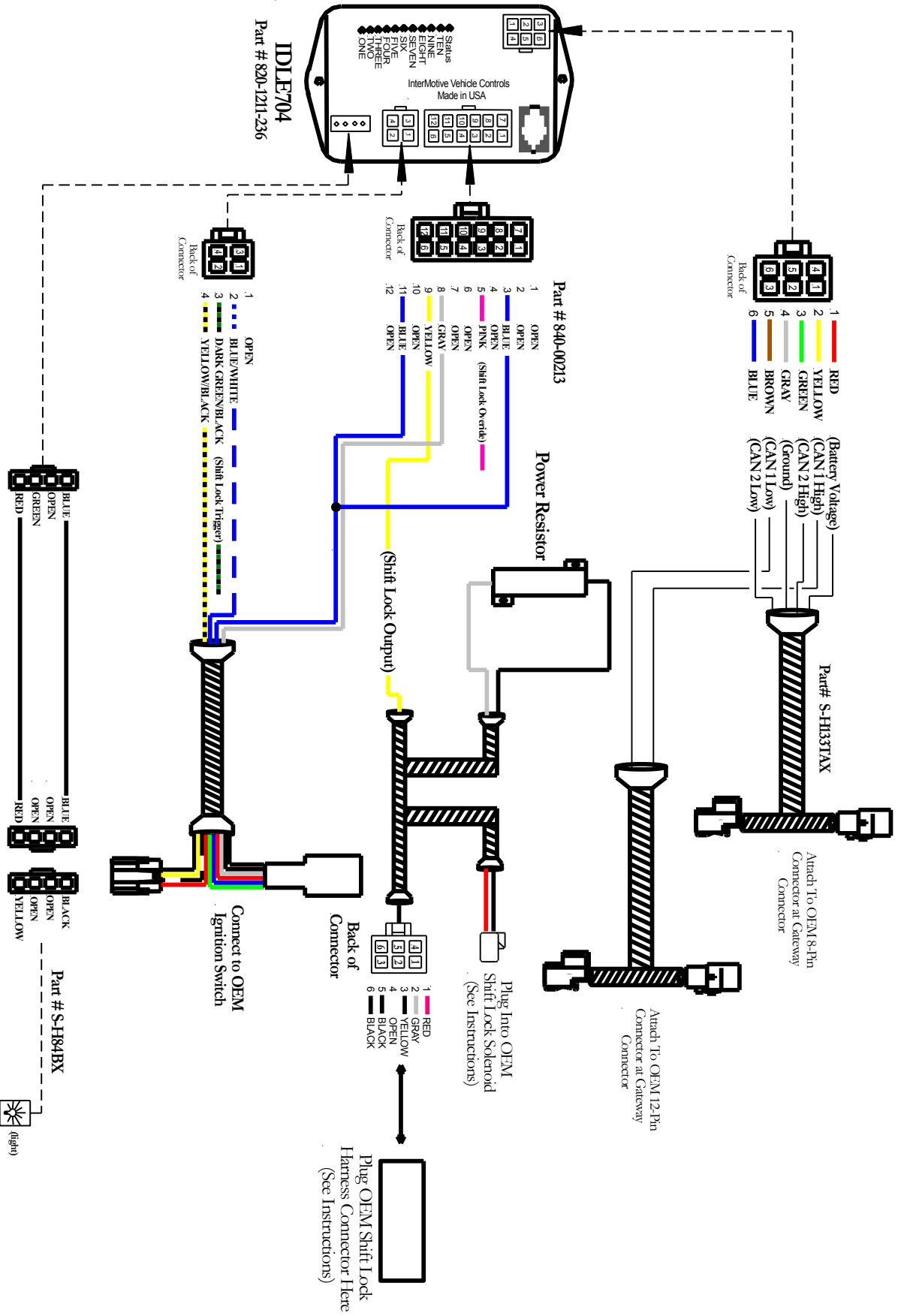
If the system fails any of the above tests, check the related wiring. If necessary, call InterMotive Technical Support at 530-823-1048. Do NOT release vehicle for service unless it has passed ALL of the above tests.

Leave in Vehicle Operating Instructions Idle Lock™ IDLE704 2022 RAM ProMaster



Idle-Lock is an anti-theft system that keeps an unattended vehicle locked down when engine is idling with the fob outside vehicle and shifter locked in Park. Idle-Lock is instantly disabled when the fob is detected back in the vehicle. This is done by entering the vehicle with the fob and making sure all doors are closed.

- Idle-Lock is enabled by exiting the vehicle with the fob and closing the door. It will also be enabled if any door has been open for 10 seconds and the fob is not detected inside the vehicle. Transmission must be in Park.
- To prevent unattended vehicle theft (Idle-Lock active), the engine will turn off if someone successfully defeats the OEM shift lock mechanism to shift the vehicle out of Park.
- Entering the vehicle with the fob and closing all doors restores normal operation.



Submit product registration at www.intermotive.net

If the Idle-Lock 704 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.