IDLE610/611

Idle Lock™ Anti-Theft

2009 - 2018* Chevy Express/GMC Savana (IDLE610)

2019 Chevy Medium Duty Truck (IDLE611)

2019 - 2023 Chevy Express/GMC Savana (IDLE611)

Contact InterMotive for additional vehicle applications.

*** In 2017-2018, the ignition switches on Chevy Express and GMC Savana's began changing to an updated switch (Navistar). Instructions for determining which switch is installed on the vehicle are available on pages 2 and 3. If the vehicle has the updated switch (Navistar), the IDLE611 will be the appropriate kit for the installation. If it has the earlier ignition switch (GM), the IDLE610 will be appropriate.**

(Not for push-to-start ignition)

Introduction

Idle-Lock is an anti-theft system that allows the engine to idle with the key removed from the ignition and the

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.

IDLE610/611 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

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 connectors together 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.

Ignition Switch Connectors

Note: Before ordering a plug and play connector, it will be necessary to determine which ignition switch is installed on the vehicle. This can be determined by looking at the first 3 digits of the VIN. If the second VIN character is an "**H**" or the first three digits of the VIN are "**7GZ**", the vehicle is an incomplete vehicle manufactured by **Navistar**. All other combinations of the first three VIN characters will signify that the vehicle has been manufactured by **General Motors**.

GM Ignition Switch Connector

Navistar Ignition Switch Connector

The procedure for installing the plug and play connectors are the same for the Navistar and GM ignition switches.

1. Remove the lower steering column trim cover. Locate the Ignition Switch connector and disconnect it from the switch.

Ignition Switch Connectors (Continued)

2. Remove the OEM 6 pin connector from the ignition switch and connect it to the female connector of the IDLE610/611 harness. Connect the male Idle-Lock connector to the OEM ignition switch.

3. Plug the 12-pin and 4-pin connectors into the IDLE610/611 module.

Shift Lock

Idle-Lock will lock the shifter if the system is active (engine idling with key removed) or if the Shift Lock Request Input is grounded. Idle-Lock locks the shifter over CAN.

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 switch 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 key is in the ignition and the switch turned to the run position. **InterMotive strongly recommends installing this switch.**

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.

Horn/Alarm Output (Active Low)

Pin 3, Orange wire of the 12 pin connector is the Horn/Alarm Output. This output (500mA max current) can control the OEM horn relay or an installer supplied alarm.

CAN Horn Control Enable/Disable Programming Sequence

By default Idle-Lock will control the OEM horn via CAN. If desired, this feature can be disabled with the following procedure:

1. With module installed and engine off, turn the key to Run.
2. Transmission must be in park at this point.
3. Set the Park Brake.
4. Put the module in test mode by applying a ground wire to the "TEST" pad on the module. While in test mode, several of the LEDs on the module will start to flash.
5. Shift transmission to drive.
6. Press the service brake five times within 10 seconds.

Once the above sequence is executed, LED 5 on the module will flash six times. If LED 5 does not flash, then the sequence was not recognized and should be re-attempted after waiting 10 seconds.

Note: To re-enable CAN horn control, repeat the steps above. When the sequence is correctly executed, LED 5 will flash three times. If LED 5 does not flash, then the sequence was not recognized and should be re-attempted after waiting 10 seconds.

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.

I/O Wiring, Features, and Descriptions: (continued)

IDLE610/611 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.

IDLE610/611 Harness (4 Pin connector and 12 Pin connector)

1. Plug the IDLE610/611 12 Pin connector into the mating 12 pin connector on the IDLE610/611 module.
2. Plug the IDLE610/611 4 Pin connector into the mating 4 pin connector on the IDLE610/611 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 keep the shifter locked.

Test 4. Verify that weapon rack and trunk release switches are disabled at the proper times (if wired).

Test 5. Insert key and turn to RUN. The vehicle should be able to shift out of Park and the trunk and weapons rack release switches should operate normally.

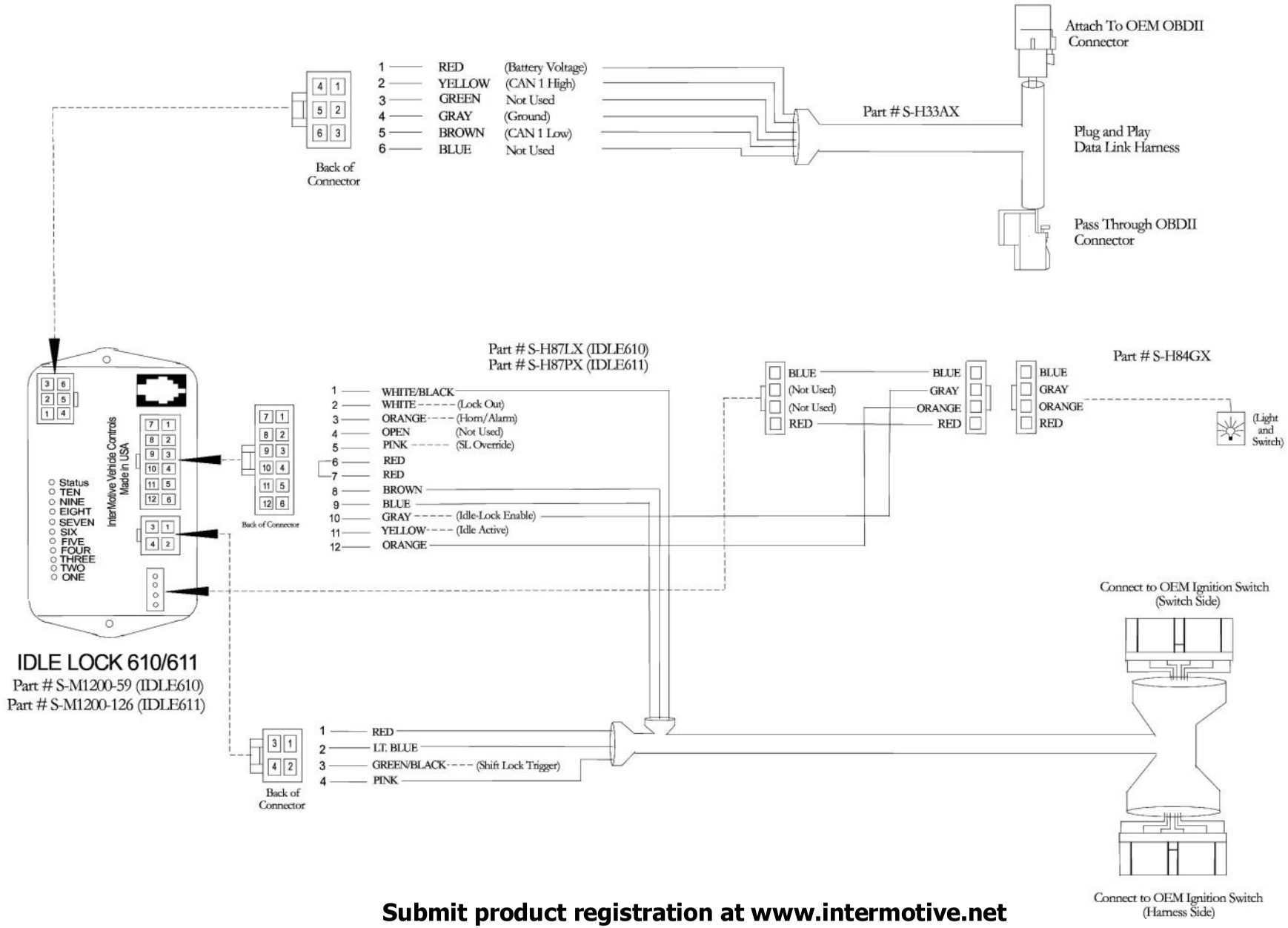
- The system will deactivate (shut down engine) if anyone defeats the OEM shift lock mechanism and shifts the vehicle out of Park.

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™ Anti-Theft
2009 - 2018* Chevy Express/GMC Savana (IDLE610)
2019 Chevy Medium Duty Truck (IDLE611)
2019 - 2023 Chevy Express/GMC Savana (IDLE611)

Idle-Lock is an anti-theft system that keeps an unattended vehicle's engine idling with the key removed and shifter 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 successfully defeats the OEM shift lock mechanism to shift the vehicle out of Park. 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 610/611 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.