IDLE6xx
Idle Lock™ Anti-Theft

2015 - 2016 Chevy Tahoe (IDLE601)
2015 - 2016 Chevy Silverado (IDLE601)
2016 Chevy Suburban (IDLE601)
2017 - 2020 Chevy Tahoe (IDLE654)
2017 - 2018 Chevy Silverado/Sierra (IDLE654)
2019 - 2022 Chevy Silverado/Sierra (IDLE654 or IDLE655*)
2017 Chevy Suburban (IDLE654)

Contact InterMotive for additional vehicle applications.

* In 2019 (midyear) a change was made to the ignition switch wiring. Use the chart below to determine if an IDLE654 or IDLE655 kit will be appropriate for the vehicle the system will be installed on.

(Not for push-to-start ignition)

Vehicle	5th Character of VIN	Applicable Product
2019 Silverado Old Body Style	'C' or 'K'	IDLE654
2019 Sierra Old Body Style	'1' or '2'	IDLE654
2019 Silverado New Body Style	'W' or 'Y'	IDLE655
2019 Sierra New Body Style	'8' or '9'	IDLE655

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. 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.

IDLE6XX Module

Find a location to mount the module. 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 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 Harness

The ignition switch must be accessed in order to connect the Idle-Lock ignition harness. The IDLE601, IDLE654, and IDLE655 have different Ignition Switch harnesses.

IDLE601 - S-H87JX
IDLE654 - S-H87MX
IDLE655 - 840-00044

- Remove two T27 torx screws from lower dash panel. Solid arrows in image indicate screw locations.
- Firmly grasp right side of lower dash panel and pull towards the rear of the vehicle to release clips. Dashed arrows in image indicate approximate clip locations. The left side of the lower dash panel will still be connected to vehicle.

- Remove steering column tilt lever by pulling away from steering column.

- Image shows steering column after steering column tilt lever has been removed.

- Remove lower half of steering column cover. There are several clips. To release, apply inward pressure on top half of cover and pull down on lower half of cover.

- Locate ignition switch connector. Use image for reference.

- Remove the OEM 6 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.

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 **10 second delay**. This output remains active until the key is back in the run position.

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

Idle-Lock Active Output

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.

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.

IDLE6XX 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.

IDLE6XX Harness (4 Pin connector and 12 Pin connector)

1. Plug the IDLE6XX 12 Pin connector into the mating 12 pin connector on the IDLE6XX module.
2. Plug the IDLE6XX 4 Pin connector into the mating 4 pin connector on the IDLE6XX 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.

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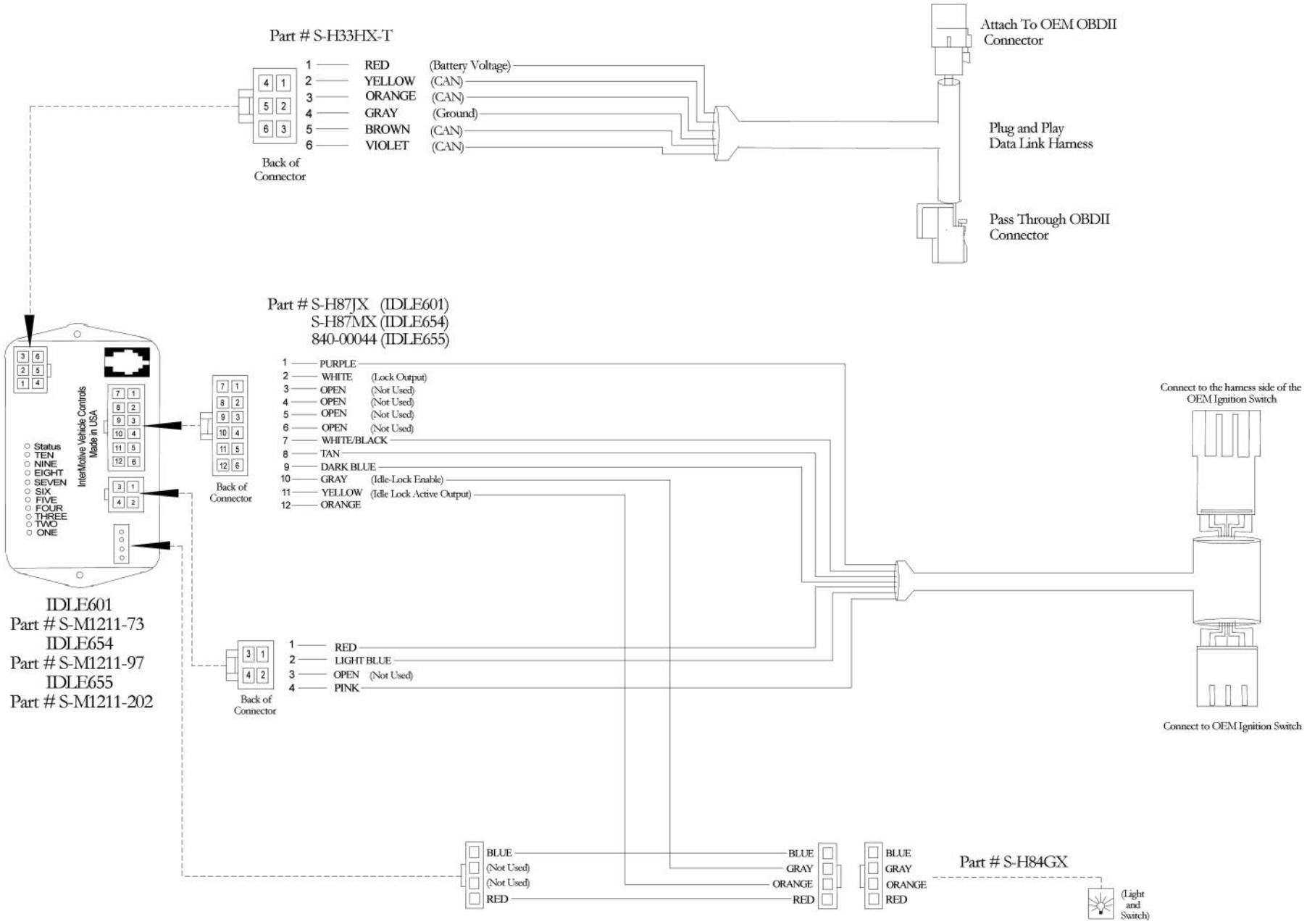
Idle-Lock is an anti-theft system that keeps an unattended vehicle's engine idling with the key removed and shifter locked in Park. Idle-Lock is instantly disabled when the key is inserted and turned to Run.

- 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 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.