

WTSI606-A Work Truck Shift Interlock 2010 -2012 Chevy/GMC Light Duty Trucks Contact InterMotive for specific applications

Introduction

The WTSI606-A module is a safety device which can prevent driving a vehicle in an unsafe condition, such as when outriggers, cranes, or booms have not been properly stowed. It will lock the transmission in Park when any number of equipment switches indicate it is not safe to drive. Plug and Play harnesses are provided for power and interfacing the OEM vehicle.



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 when installing upfitter circuits.

Installation Instructions

Disconnect vehicle battery before proceeding with installation.



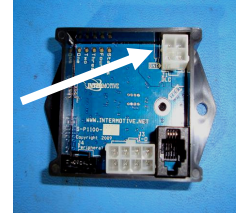
WARNING
Disconnect the battery to
prevent setting a check engine
light.

WTSI606 Module

Remove the lower dash panel below the steering column area and find a suitable location to mount the module so that the Diagnostic LED's can be viewed with the lower dash panel removed. Locate the module in an area away from any high external heat sources (engine heat, heater ducts, etc.). Do not actually mount the module until all wire harnesses are routed and secure. The last step of the installation is to mount the module.

Data Link Harness Installation

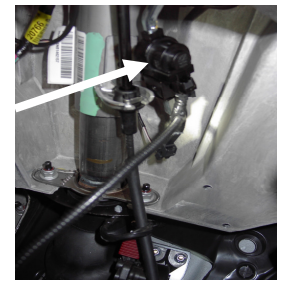
1. Locate the vehicle's OBDII Data Link Connector, mounted below the lower left dash panel.
2. Remove the mounting screws for the OBDII connector. Plug the red connector from the WTSI606-A Data Link Harness into the vehicle's OBDII connector. Ensure the connection is fully seated and secure with the supplied wire tie.
3. Mount the Black pass through connector from the WTSI606-A Data Link Harness in the former location of the vehicle's OBDII connector using the OEM mounting screws.
4. Secure the WTSI606-A 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 4-pin connector on the WTSI606-A module.



Shift Lock Solenoid Harness

Note: The OEM shift lock connector may or may not have the green locking tab

1. Locate the OEM shift lock solenoid on the right side of the steering column.
2. Remove the OEM 2-pin black connector.
3. Install the provided Plug and Play matching InterMotive T- harness between the two OEM connectors.
4. Verify the green locking tabs are in the locked position.

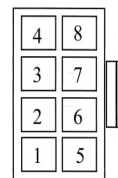


Control Signals - 8-pin connector

The WTSI606-A provides a ground side Shift Lock Trigger input gray wire on pin 8 of the 8 pin connector. This can be connected to any number of equipment switches, such as outriggers, booms, cranes, tool box doors, etc. Each switch should ground this gray wire when it is unsafe or inappropriate to drive the vehicle. Grounding this gray wire will lock the transmission shifter (if in Park), which will prevent the vehicle from being driven.

1. Extend the gray wire by soldering and heat shrinking and running it to the vehicle's equipment switches.
2. Plug the 8 pin connector of the WTSI606-A harness into the module.

- Pin #1 — N/C
- Pin #2 — N/C
- Pin #3 — N/C
- Pin #4 — N/C
- Pin #5 — N/C
- Pin #6 — N/C
- Pin #7 — BLUE (Shift Lock Output) Plug & Play Harness
- Pin #8 — GRAY (Shift Lock Trigger Input—Gnd)



WTSI606 Module Mounting

Ensure all the harnesses are properly connected and routed, and are not hanging below the dash area. Mount the WTSI606 module as described on page one and secure using screws or doubled sided tape.

Reconnect the vehicle battery

Post Installation / Check List

The following checks must be made after installation of the system, to ensure correct and safe operation. If any of the checks do not pass, do not deliver the vehicle. Recheck all connections as per the installation instructions.

Begin the checklist with the vehicle in the following state:

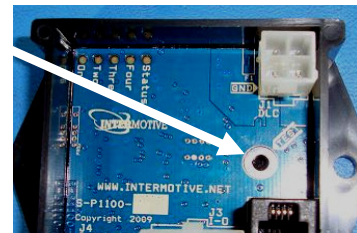
- Shift Lock Trigger input disabled (gray wire not grounded).
 - Transmission in Park
 - Ignition off (Key off)
1. Turn ignition key on (to "run"), press on the Service Brake, and verify the vehicle will shift out of Park. Shift back into Park.
 2. Apply the Shift Lock Trigger by grounding the gray wire, and verify the vehicle will NOT shift out of Park. Do not place the vehicle in service if it does not pass this test. If it does not pass this test, proceed to diagnostic section below.

Lift Interlock Diagnostic Mode Testing

Enabling Diagnostic Mode allows a visual indication of system status and is a good troubleshooting tool when used in conjunction with the above tests. The module is fully functional in this special test mode. Enter Diagnostic Mode as follows:

1. Place transmission in Park and turn ignition switch to "run".
 2. Touch a grounded wire to the Test Pad on the module. LED's on the module will prove out, then become status indicators.
- LED 1 will be on when Shifter is locked in Park.
 - LED 2 will be on when transmission is in Park.
 - LED 4 will be on when Shift Lock Trigger (gray wire) is Enabled (grounded).

Exit Diagnostic Mode by cycling the key.



Submit product registration at www.intermotive.net

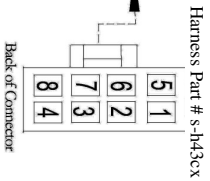
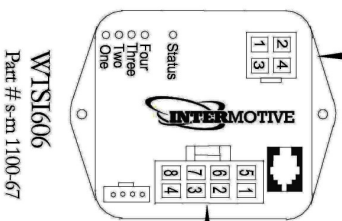
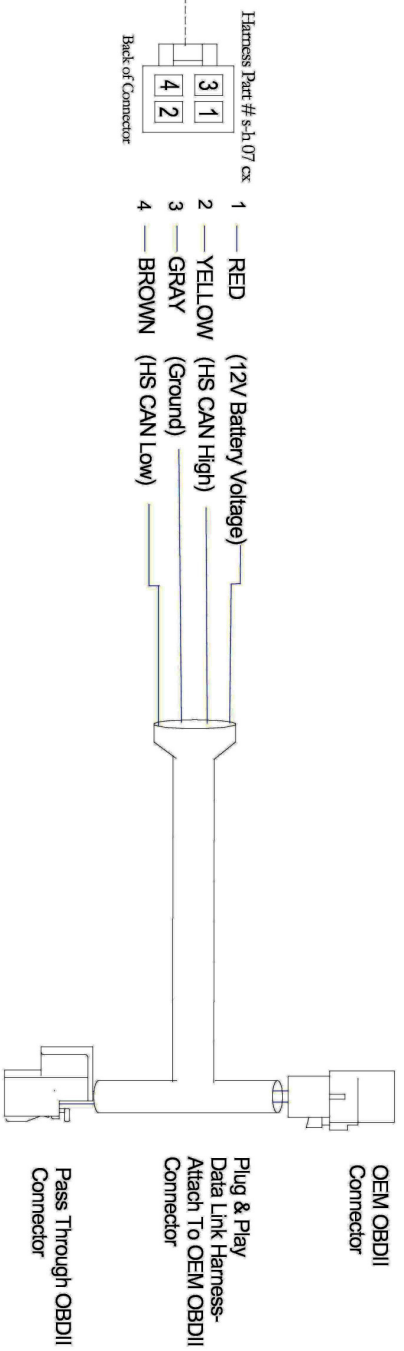


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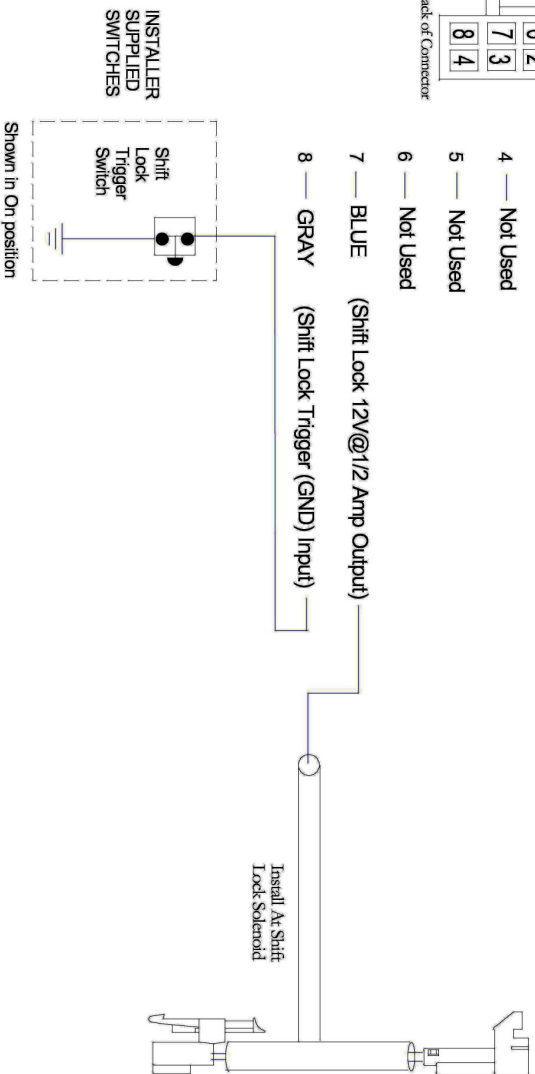
Leave in vehicle
WTSI606-A Work Truck Shift Interlock Operating Instructions
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The WTSI606-A will lock the shifter in the Park position when outriggers, cranes, booms, etc. have not been properly stowed. This will ensure the vehicle cannot be driven when conditions are unsafe. If the vehicle will not shift out of Park, ensure the key in the "on" position, the Service Brake is pressed, and all equipment is properly stowed.

If the vehicle still does NOT shift out of Park with all equipment stowed, there may be an equipment switch stuck or broken, or the module's gray wire may be shorted to ground. Call InterMotive Tech Support if needed at (530) 823-1048.



- 1 — Not Used
- 2 — Not Used
- 3 — Not Used
- 4 — Not Used
- 5 — Not Used
- 6 — Not Used
- 7 — BLUE (Shift Lock 12V@1/2 Amp Output)
- 8 — GRAY (Shift Lock Trigger (GND) Input)



If the WTSI606-A 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.