

WTSI606-A Work Truck Shift Interlock 2010 -2011 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.



Installation Instructions

Be sure the vehicle's battery is disconnected before proceeding with installation.



WARNING

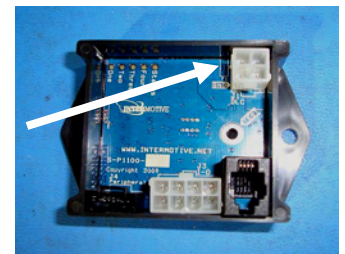
Disconnect the battery to prevent setting a check engine light.

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.

Remove the lower dash panel below the steering column area and find a suitable location to mount the module. Find an area where it can be mounted (with screws, double sided tape, or wire ties) which is away from high heat sources. High temperatures can typically be caused by engine heat or hot air from heater ducts. Do not actually mount the module until all wire harnesses are routed and secure (last step of the installation is to mount the module). Leaving some extra "take out" wire will allow removing the module later for viewing the diagnostic LEDs on the printed circuit board.

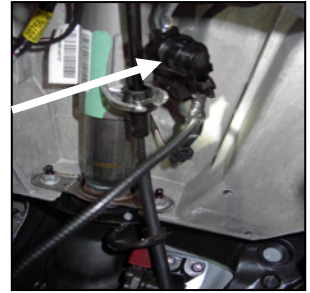
Data Link Harness Installation

- Locate the vehicle's OBDII Data Link Connector. It will be mounted below the lower left dash panel.
- 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.
- 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.
- Secure the WTSI606-A Data Link harness so that it does not hang below the lower dash panel.
- Plug the free end of the Data Link harness into the mating 4-pin connector on the WTSI606-A module.



Shift Lock Solenoid Harness Installation

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



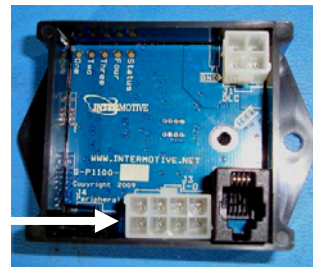
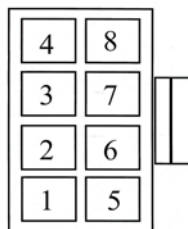
The OEM shift lock connector may or may not have the green locking tab.

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. Extend this gray wire by soldering and heat shrinking and running it to the vehicle's equipment switches.
- The WTSI606-A also provides a blue wire as part of the Shift Lock Plug and Play harness which you connected in a previous step.
- Plug the 8 pin connector of the WTSI606-A harness into the module.
- Mount the module using 2-sided foam tape, screws or wire ties.

Refer to the last page of these instructions which shows the WTSI606-A CAD drawing.

- 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)



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.

Reconnect the battery to enable system testing

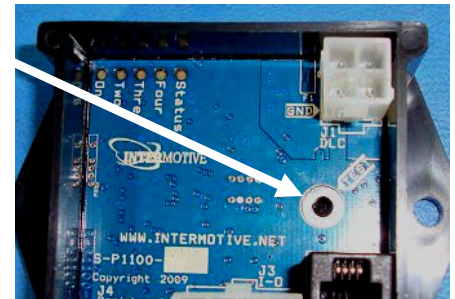
Begin the checklist with the vehicle in the following state:

- 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 you can shift out of Park. Shift back into Park.
 2. Apply the Shift Lock Trigger by grounding the gray wire, and verify you can 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 which may be used in conjunction with the above tests. The module is fully functional in this special test mode. Enter Diagnostic Mode as follows:

- Place transmission in Park and turn ignition switch to "run".
- 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 should be on when Shifter is **Locked** in Park.
- LED 2 should be on when transmission is in Park.
- LED 4 should be on when Shift Lock Trigger (gray wire) is Enabled (grounded).
- Exit Diagnostic Mode by cycling the key.



Operating Instructions

The WTSI606-A will lock the shifter in the Park position when outriggers, cranes, booms, etc. have not been properly stowed. This is done to ensure that the vehicle cannot be driven when conditions are unsafe. If you can not shift out of Park, be sure that you have the key in the "on" position, your foot is pressing the Service Brake, and that all equipment is properly stowed.

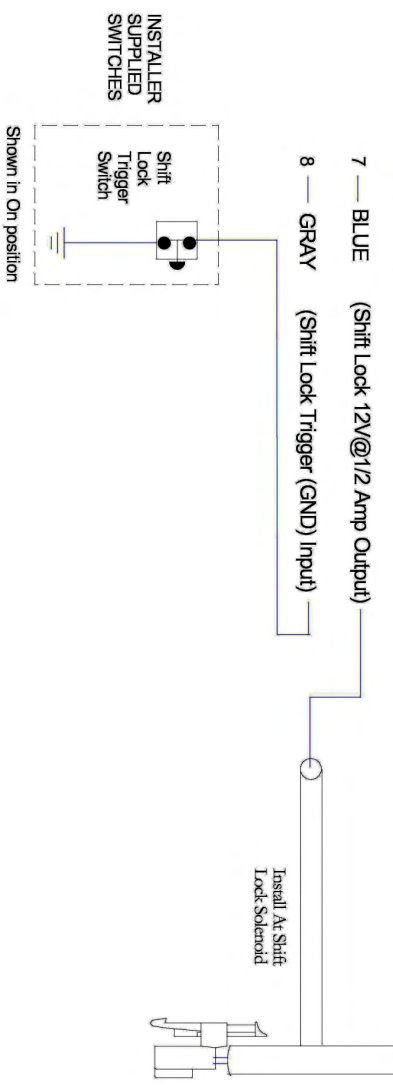
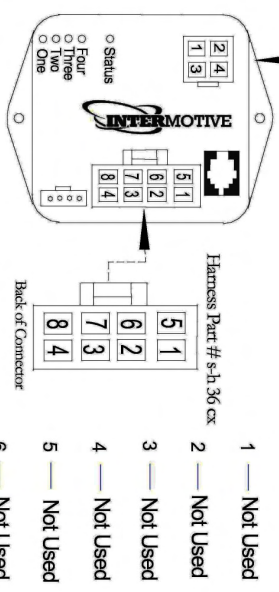
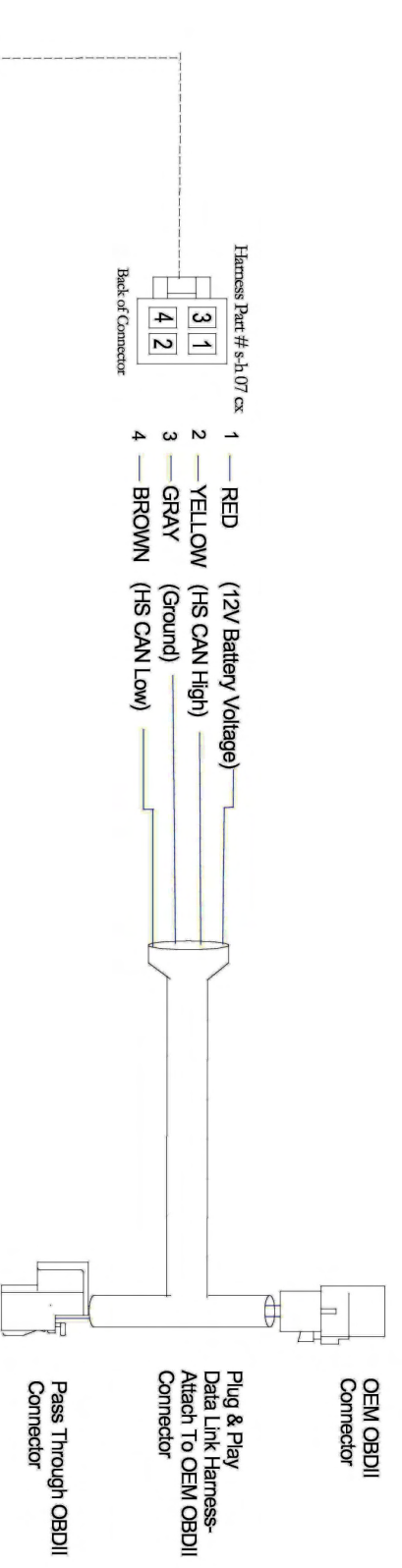
If you still can NOT shift out of Park with all equipment stowed, there may be an equipment switch which is stuck or broken, or the module's gray wire may be shorted to ground somewhere.

Call InterMotive Tech Support if needed. 530 823-1048,

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Submit product registration at www.intermotive.net

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 @ (530) 823-1048. WTSI606-A-01-CAD