

Instructions



H-WTSI508-A Work Truck Shift Interlock 2023 Ford F250-F600 Contact InterMotive for additional vehicle applications.

System Overview

The WTSI508-A is a Work Truck Shift Interlock which can prevent a vehicle from shifting out of Park when various equipment is not properly stowed. Any number of switches on stabilizers, booms, cranes, equipment doors, and so on may be used to lock the vehicle's transmission shifter in Park to ensure the vehicle is not inadvertently driven in an unsafe condition.

Installation Instructions

Disconnect vehicle battery before proceeding with installation.



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

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 and solenoids when installing upfitter circuits.

CAUTION

All electronic products are susceptible to damage from Electrostatic Discharge or ESD. Ground yourself before handling or working with the module and harnessing by first touching chassis ground, such as the barrel of the cigarette lighter.

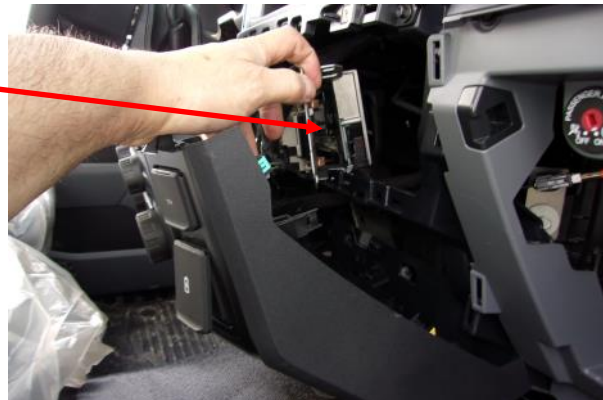


WTSI508 Module

Remove the lower dash panel below the steering column area and find a suitable location to mount the WTSI508 module. Locate the module in an area away from any external heat sources (engine heat, heater ducts, etc.). Do not mount the module until all wire harnesses are routed and secure. The last step of installation is to mount the module.

Data Link Harness Installation

The Ford Super Duty has an OEM Gateway module located on the other side of the SYNC 4 module, which is behind the center console. Follow the steps below to access it:



Instructions

Installation Instructions (continued)

1. Remove the RH instrument panel trim using a trim removal tool. The trim starts at the ignition switch and ends at the silver clip. The glove compartment can be opened to better access the back side of the trim.



2. Using a trim removal tool, pop out the upper right corner of the lower steering column close out panel. Position it away from the center stack.



3. Remove the 4 bolts (Size: 7mm) located at the top of the center stack.



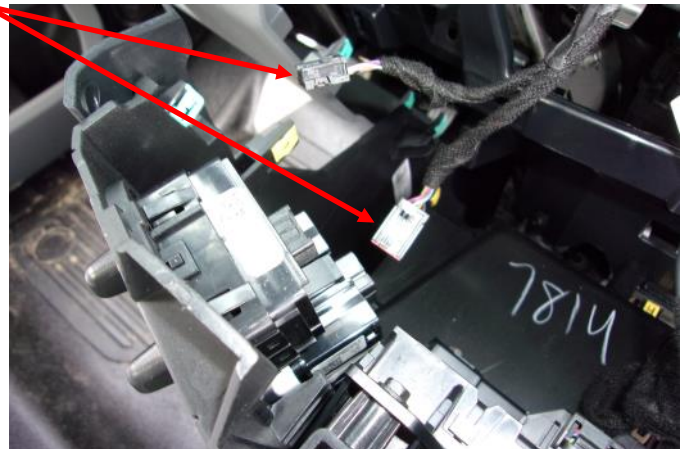
Instructions

Installation Instructions (continued)

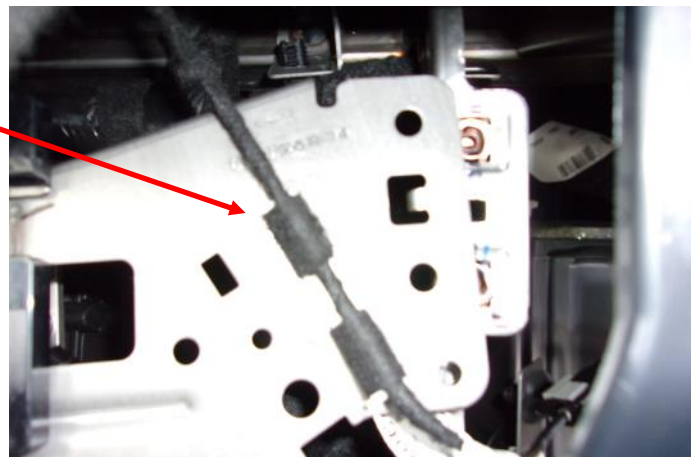
4. Release the clips on both sides of the center stack using a trim removal tool. Position the center stack away from the mounting points.



5. Disconnect the 2 connectors behind the center stack.



6. Detach the push-mount cable tie from the bracket and position the cable out of the way.



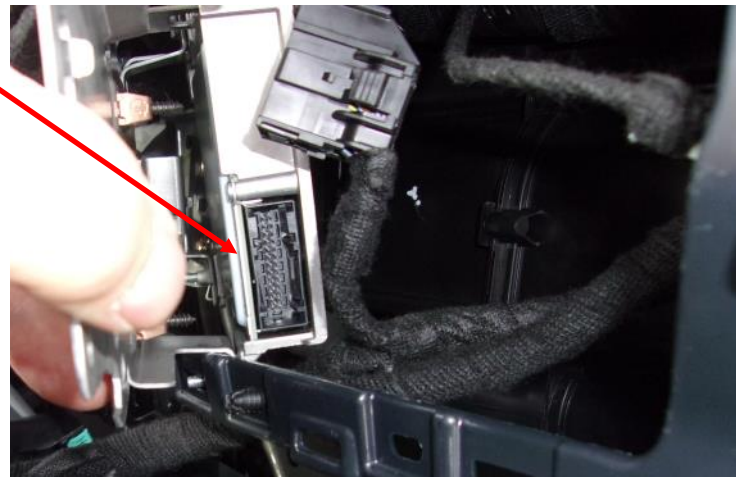
Instructions

Installation Instructions (continued)

7. Remove the 4 bolts (Size: 7mm) and position the bracket away from the mounting points to access the Gateway Module. The Gateway Module is located behind the bracket.



8. Disconnect the Gateway Connector by pressing down on the tab and pulling the connector away from the module.



9. Install the Datalink Harness between the Gateway Module and the disconnected Gateway Connector.



10. Run the 6-pin connector of the datalink harness to the mounting location of the WTSI508 module.

11. After the Datalink Harness is installed, reverse the installation procedure to reassemble.

Instructions

Shift Lock Harness

1. Remove the upper and lower steering column covers by removing the 3 screws in the lower column cover.



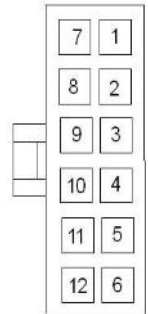
2. Locate the Shift Lock (4-pin) harness.
3. Unplug the Shift Lock connector.
4. Plug the OEM Shift Lock connector into the mating connector on the WTSI508 harness.
5. Plug the 4-pin connector on the WTSI508 harness into the mating connector on the OEM Shift Lock harness.



Instructions

Park output - An optional “Park” output Orange wire is provided (pin 3), which indicates when the vehicle is in Park, and it is safe to operate equipment. This can be used as a “ground enable” signal, which enables the equipment for operation. This output can sink 1/2A. Adding an external relay can boost this current if needed.

Shift Lock Control Input - Applying a ground to the Blue Shift Lock wire (pin #11) will lock the transmission shifter, if in Park. This can be used to prevent the vehicle from driving when equipment has not been properly stowed. This can be connected to any number of grounding switches (connected in parallel) which can effectively “lock the vehicle down” when equipment is not properly stowed.



Current flow from this Shift Lock input through the switch(es) is very low (microamps). For optimum reliability, use switches intended for low current use.

WTSI508 Module Mounting

Ensure all harnesses are properly connected and routed, and are not hanging below the dash area. Mount the WTSI508 module using screws or double sided tape and reinstall all removed panels.

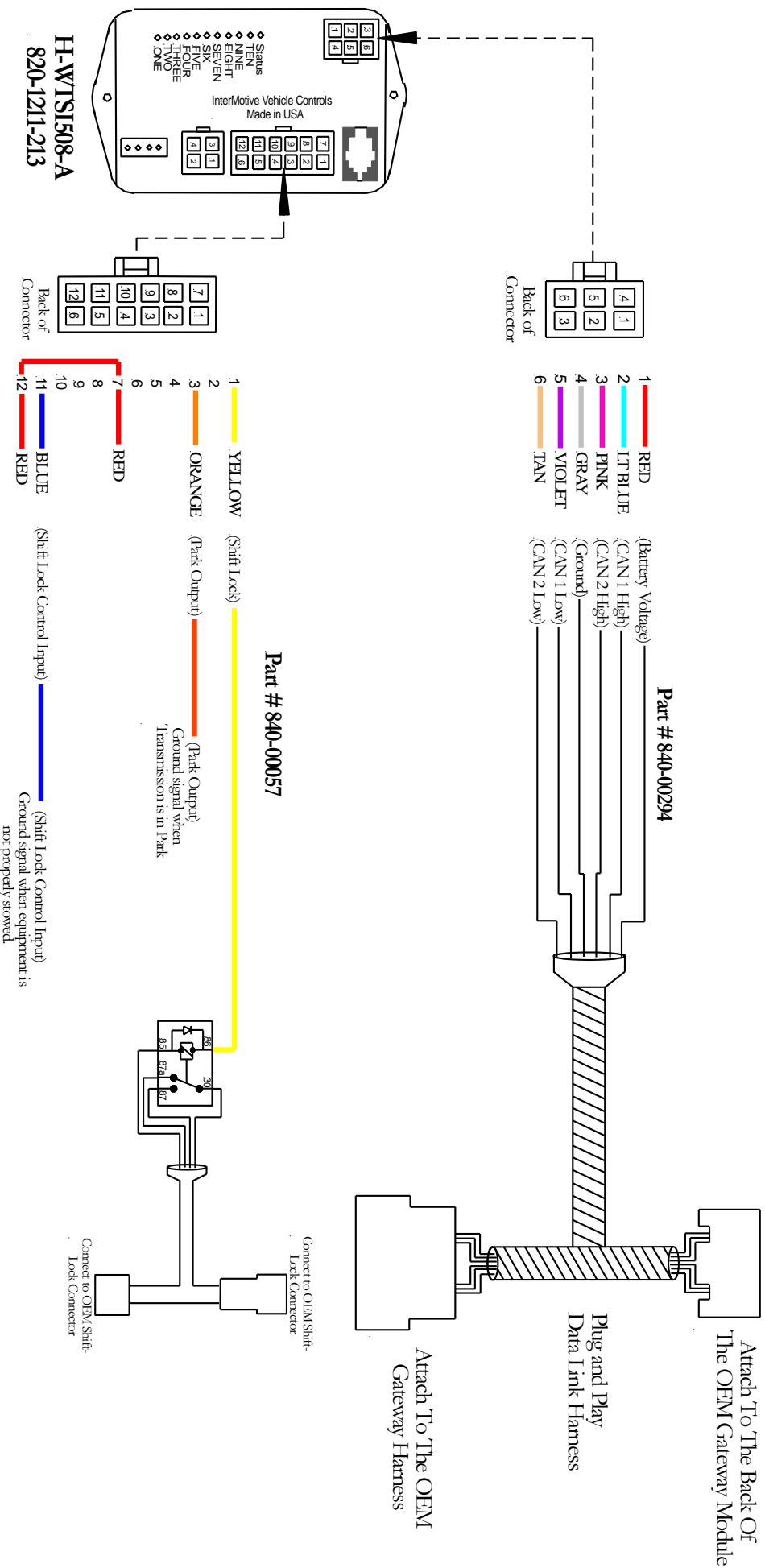
Post-Installation Test (Ignition on)

The OEM system will lock the shifter in Park until the Service Brake is applied. WTSI508-A will further keep the shifter locked even when Service Brake is applied when the shift lock input Blue wire has a ground signal applied (equipment not stowed). Test system operation as follows:

If the Orange wire Park output is used, confirm equipment is not enabled unless the vehicle is in Park.

1. Apply a Ground signal to the Shift Lock input Blue wire by un-stowing equipment (12 Pin Connector Pin #11 Blue wire).
2. Verify that the vehicle will *not* shift out of Park when depressing the Service Brake.
3. Stow equipment and confirm Shift Lock is released by applying Service Brake and shifting out of Park.

The WTSI508-A must pass this system test before the installation is complete.



Submit product registration at www.intermotive.net

If the WTSI508 fails any step in the Post Installation Check List, review the installation instructions and check all connections. If necessary, call InterMotive Technical Support at (530) 823-1048.