

Instructions



LockBoss A-WTDL751-A Work Truck Door Lock Module 2025 2500-5500 RAM Trucks

System Overview

Introduction

The A-WTDL751-A is an alarm system that will honk the OEM horn and flash the OEM front and rear turn signals whenever the vehicle transmission is in Park, the doors are locked, and one of the upfitter door switches are tripped. If the doors are unlocked, the system will not trigger the alarm. A “silence” button is also available to shut off the alarm if the end user accidentally sets off the alarm and is not near the OEM key fob. The LED button will flash once per second when the alarm is armed and will light solid when the alarm is active.

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.



A-WTDL751-A 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 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.

Instructions

Plug and Play Harness (A-WTDL751-A)

1. Locate the vehicle OBDII Data Link Connector. It's a Black 16-pin connector around the area above the drivers left foot.
2. Take note of the connector orientation. Use a flat screwdriver to remove the OEM OBDII connector. There are tabs on the sides of the connector that allow it to snap into place. Press the tabs and push the connector up and out of its bracket. The WTDL kit includes a Data Link Main Harness (840-00408, see picture). Plug the red connector from the WTDL Data Link Main Harness into the vehicle's OBDII connector. Ensure the connection is fully seated and secured with the supplied wire tie.
3. Mount the White connector from the 840-00408 WTDL Data Link Main Harness in the former location of the vehicle's OBDII connector, in the same orientation, by snapping it into place.
4. Plug the free end of the Data Link Main Harness into the mating 6-pin connector on the A-WTDL751-A module.
5. Locate the Black 30w connector shown in the picture. It is located above and to the left of the Brake Pedal.
6. Plug the mating connectors of the 840-00408 harness into the OEM connectors.



Instructions

S-H84GX Button Harness Installation

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. Remove the lock nut and feed the harness through the hole. Mount the push button by reinstalling the lock nut.



WTDL751 Main Harness (840-00409)

1. One side of the harness will have 2 connectors with female pins and the other side has 1 connector with male pins. Connect the 2 connectors with female pins into the mating connectors on the WTDL751 module.
2. Plug the connector with male pins into the mating connector on the S-H84GX Button harness.
3. Connect the Blue wire to the upfitter door switch that provides a ground signal when the door is opened. This input should be diode protected (not supplied by InterMotive) if the door switch is connected to more than the WTDL module.



A-WTDL751-A Module

Ensure all the harnesses are properly connected and routed, and are not hanging below the dash area. Mount the A-WTDL751-A module as described on page one. Secure using screws or doubled sided tape.

Reconnect vehicle battery

Instructions

Post Installation Operational Test

1. Turn the ignition ON to wake up and initialize the WTDL751 module.
2. With the vehicle transmission in Park, lock the doors using fob or door switch. Open one of the service body doors. The horn will sound and the lights should flash. Press the silence button or press the unlock button on the key fob or door switch to turn off the alarm. If the reset switch is pressed, press the unlock button on the key fob or door switch to rearm the alarm.

Diagnostics

The module LEDs can be used to obtain diagnostic information for the system.

VIN Acquisition:

During VIN acquisition, scrolling LEDs indicate an error occurred in acquiring the VIN. The LEDs will scroll in ascending order (LED1, LED2, LED3, ...) and then briefly light one of the LEDs to provide additional data as to why the VIN was rejected.

LED	Reason For VIN Rejection
1	Invalid Make
2	Invalid Model
3	Invalid Engine
4	Invalid Model Year
Status	No VIN Received

Diagnostics Mode:

The WTDL enters diagnostics mode by pressing the red “test” button. While in diagnostics mode, the LEDs will turn off and on indicating the module state. The diagnostics function in a page format, with the page number blinked out on the status LED and the other LEDs functioning as defined below. Pressing the “test” button additional times will move through the pages, with the module entering normal operation if pressed on the final page.

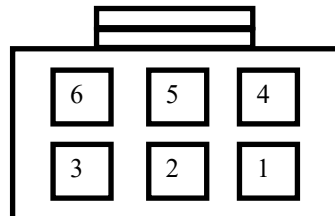
	Page 1: Main Logic	Page 2: Passive Data 1	Page 3: Passive Data 2
LED1	TR=PARK	Trans Range valid	Key Position Valid
LED2	Input 1 Active	All Doors Locked valid	Not Used
LED3	Alarm Armed	All Doors Unlocked valid	Not Used
LED4	Alarm Triggered	Driver Door Unlocked valid	Not Used

Instructions

Pinout Description:

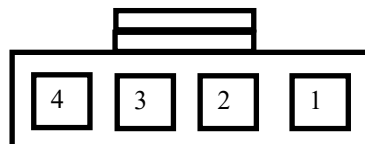
J1 — 6 pin Connector

- Pin 1: Red Wire — 12V Battery Source
- Pin 2: Not Used
- Pin 3: Blue/White Wire — CAN High
- Pin 4: Gray Wire — Ground
- Pin 5: Not Used
- Pin 6: Purple/White wire — CAN Low



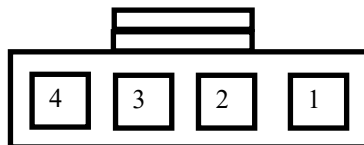
J2 — 4 pin Connector (White)

- Pin 1: Blue wire — Connect to upfitter door switch that provides a GND signal when the door is open. This input should be diode protected if other systems are also connected to the door switch.
- Pin 2: Orange wire — Silence Switch Enable
- Pin 3: Not Used
- Pin 4: Not Used



J5 — 4 pin Connector (Black)

- Pin 1: Gray wire — Ground
- Pin 2: Not Used
- Pin 3: Not Used
- Pin 4: Red Wire — Switch LED Enable



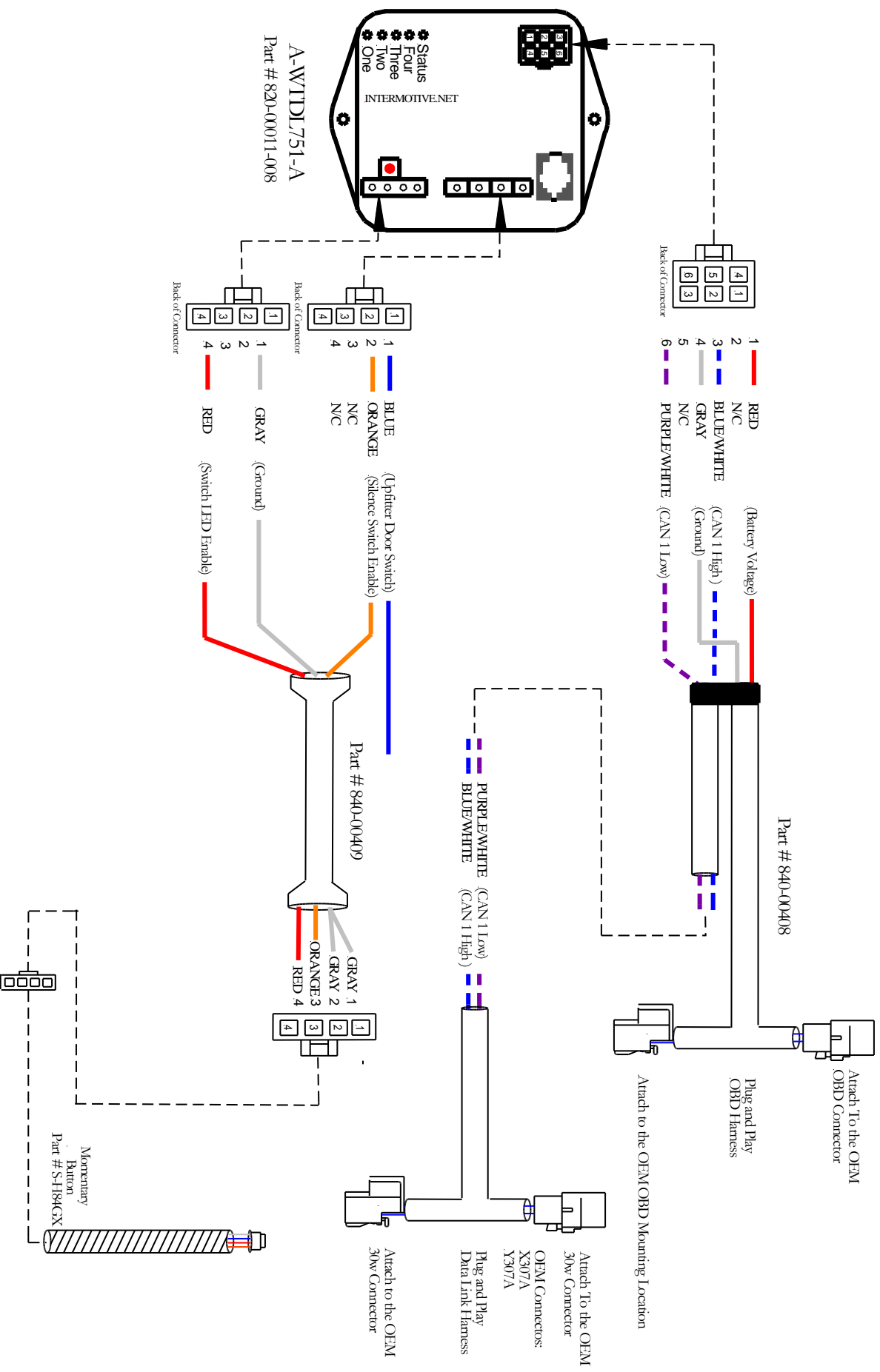
Instructions

Leave in vehicle
LockBoss
Operating Instructions A-WTDL751-A
2025 2500-5500 RAM Trucks

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1. Pressing fob lock or the door lock button will arm the WTDL751 module.
2. If a service body cabinet door is opened (or already opened) when doors are locked, alarm will sound.
3. To disable alarm, press fob unlock or the door unlock button.
4. To rearm the alarm, press fob lock or the door lock button.

If the A-WTDL751-A fails any step in the System Operating instructions, please review the instructions.
If necessary, call InterMotive Technical Support at (530) 823-1048.



Submit product registration at www.intermotive.net

If the A-WTDL751-A 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.