

# Instructions



## Pre Trip Module H-PTM508-A Pre Trip Module

2026 Ford Transit  
2023-2026 Ford F250-F600

## System Overview

### Introduction

The PTM508 controls exterior lights for Pre-Trip Inspection. The lamp test mode cycles the high beams, turn signals, brake lights, and reverse lights on and off so the user can verify exterior lights are working. The PTM508 does not have the ability to control the Parking lights and Low Beams. (the user must manually turn the lights on)

## 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.



### **H-PTM508-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

## 2023+ Ford F250-F600

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:

Harness Part # 840-00307



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.



# Instructions

## Installation Instructions (Continued)

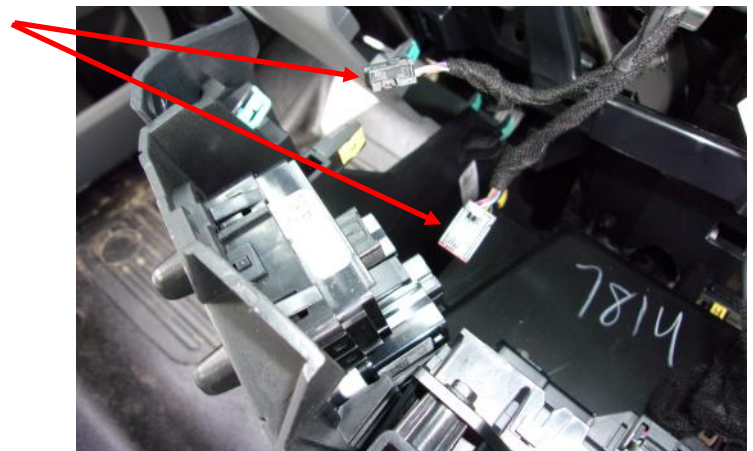
3. Remove the 4 bolts (Size: 7mm) located at the top of the center stack.



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.



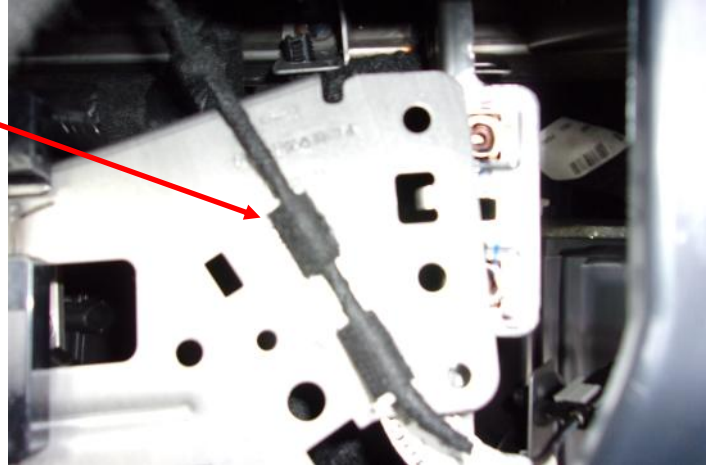
5. Disconnect the 2 connectors behind the center stack.



# Instructions

## Installation Instructions (Continued)

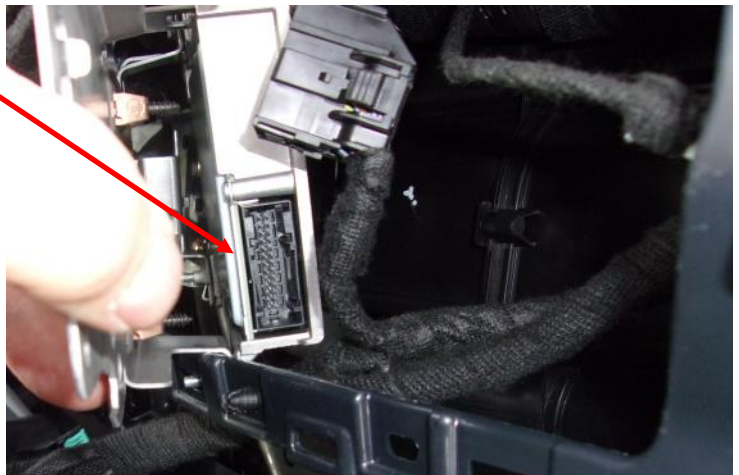
6. Detach the push-mount cable tie from the bracket and position the cable out of the way.



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.



# Instructions

## Installation Instructions (Continued)

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 module.



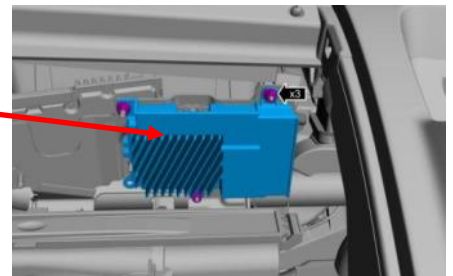
11. After the Datalink Harness is installed, reverse the installation procedure to reassemble.

# Instructions

## Installation Instructions (2026 Ford Transit)

Harness Part # 840-00307

1. Locate the vehicles Gateway Module. It will be mounted behind the glove compartment.
2. Press the tabs inward on the sides of the glove compartment and fully lower it.
3. Remove the cubby panel to the right of the glove box.
4. Remove the 26-pin connector from the side of the Gateway module and plug into the mating connector on the InterMotive harness. The release tab is on top of the connector. An angled tool can be useful to help push the release tab.
5. Optional: Remove the 3 nuts securing the Gateway module to the vehicle. This is recommended if it proves too difficult to get to the Gateway connector.
6. Plug the male 26-pin connector from the InterMotive harness into the Gateway module.
7. Reinstall the Gateway module and the glove compartment.
8. Run the 6-pin connector of the datalink harness to the mounting location of the module.



# Instructions

## PTM508 Connector Definition

### 4-Pin PTM Input Pin-Out Definition (J2)

Connector J2 contains the PTM's 2 discrete wire inputs. One is active low and the other is active high. The active low inputs have their own internal pull up resistors so they can be left floating when not used or not active.

The 2 input pins on connector J2 are defined as follows: (supplied cable harness S-H119DX)

- Pin #1 - Green/White - momentary low true input to enable PTM mode.
- Pin #2 - Red/White - momentary +12V to enable PTM mode.
- Pin #3 - Not Connected
- Pin #4 - Not Connected

Connect the inputs to the vehicle equipment as indicated. **\*NOTE:** Do NOT connect both Pin 1 and Pin 5. (only one method of activation can be used) Choose the method for the vehicle and connect only the input needed to the appropriate momentary switch.

## H-PTM508-A Module

Ensure all the harnesses are properly connected and routed, and are not hanging below the dash area. Mount the H-PTM508-A module as described on page one. Secure using screws or doubled sided tape.

**Reconnect vehicle battery**

# Instructions

## Post Installation System Operation Test

Perform the following tests before actually mounting the module to allow easy viewing of the diagnostic LED's, if necessary.

1. Place the ignition in the Run position.
2. Place transmission in Park and apply the Parking Brake.
3. Turn the headlight switch to Low Beams
4. Momentarily apply a ground signal to 4w minifit jr pin #1 (green/white) to enable Pre-Trip mode or momentarily apply a +12V signal to 4w minifit jr pin #2 (red/white) to enable Pre-Trip mode.
5. When Pre-Trip is engaged, the module will cycle the exterior lights. **Note:** This will cycle for about 5 mins and shut off automatically.
6. Release Parking Brake and confirm Pre-Trip is disabled.
7. Apply Parking Brake and repeat step 5 to confirm that Pre-Trip mode can once again be enabled.

If the PTM508 fails any of the above tests, check harnesses and review instructions, or check diagnostics below. If necessary, call InterMotive Technical Support at (530) 823-1048.

## Diagnostics

Diagnostic mode is entered by pressing the Red button switch. There are 3 pages of diagnostics and each page is determined by the number of flashes of the Status LED. The module provides diagnostic LEDs which illuminate according to the following table below.

To exit this mode, press the Red button one more time after opening the 4th page of diagnostics.

STATUS LED	Page 1	Page 2	Page 3
LED_1	PTM Status	PB Applied	CAN msg rxd
LED_2	PTM Status	TR=PARK	CAN msg rxd
LED_3	PTM Status	Active High Trigger	CAN msg rxd
LED_4	PTM Status	Active Low Trigger	Not used

If the H-PTM508-A fails any step in the Post Installation review the installation instructions and check all connections.

**Reinstall the lower dash panel**

# Instructions

**Leave in vehicle**  
**Pre Trip Module**  
**Operating Instructions H-PTM508-A**  
**2023-2026 Ford F250-F600**  
**2026 Ford Transit**

## System Operation

The Pre-Trip Inspection Module cycles the exterior lights in order to assist the customer to verify all lights are working.

Lamp Test mode may be initiated by either a momentary ground or a momentary power input.

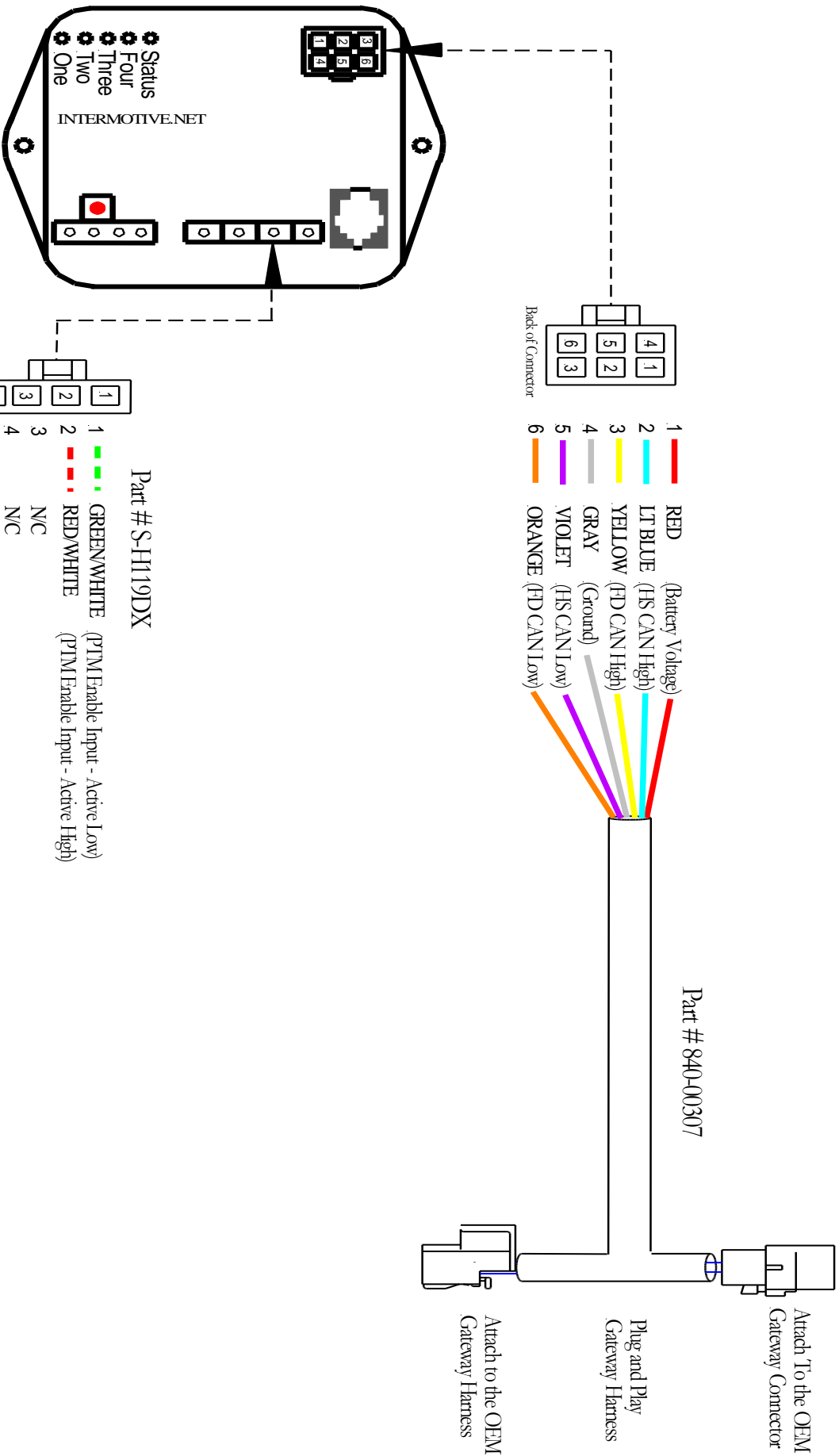
### Lamp Test Mode:

To enter Lamp Test Mode **all** of the following conditions must be met:

- Transmission in Park
- Apply Parking Brake
- Vehicle speed zero
- Headlights on and in low beam
- Momentarily ground the Green/White wire **or** apply 12v to the Red/White wire

To exit Lamp Test Mode any condition may be applied:

- Momentarily ground the Green/White wire **or** apply 12v to the Red/White wire
- Release Parking Brake
- Place Transmission out of Park



H-PTM508-A  
Part # 820-00011-008

**Submit product registration at [www.intermotive.net](http://www.intermotive.net)**

If the H-PTM508-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.