

A-PIMA752-A 2025 RAM 1500 DT

Contact InterMotive for additional applications

Introduction

The PIMA752 Module is intended to provide 2025 Ram 1500DT with Surveillance Mode (SMM) and Switch controls (ISM) when installed as part of the PIMB752 kit.

ISM (Switch control) allows for 4 outputs to be controlled via the Cruise Control buttons. The operating modes for the outputs are:

- Latching (toggle on—toggle off)
- Momentary
- Timed (1-1,800 seconds)

SMM (Surveillance Mode) using the vehicles rear park assist system, rear cross path detection system, and rear backup camera to inform an officer if anyone is behind the vehicle. When SMM is active, these OEM systems will be turned on. If any of the sensors are tripped, SMM will lock all of the doors, the front windows will roll up, the reverse lights will turn on, the tail lights will flash On/Off, and a chime will sound.

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.

It is important to avoid placing the module where it could encounter strong magnetic fields from high current cabling connected to motors, solenoids, etc. Also avoid radio frequency energy from antenna's or inverters next to the module. Finally, avoid high voltage spikes in vehicle wiring by always using diode clamped relays when installing upfitter circuits.

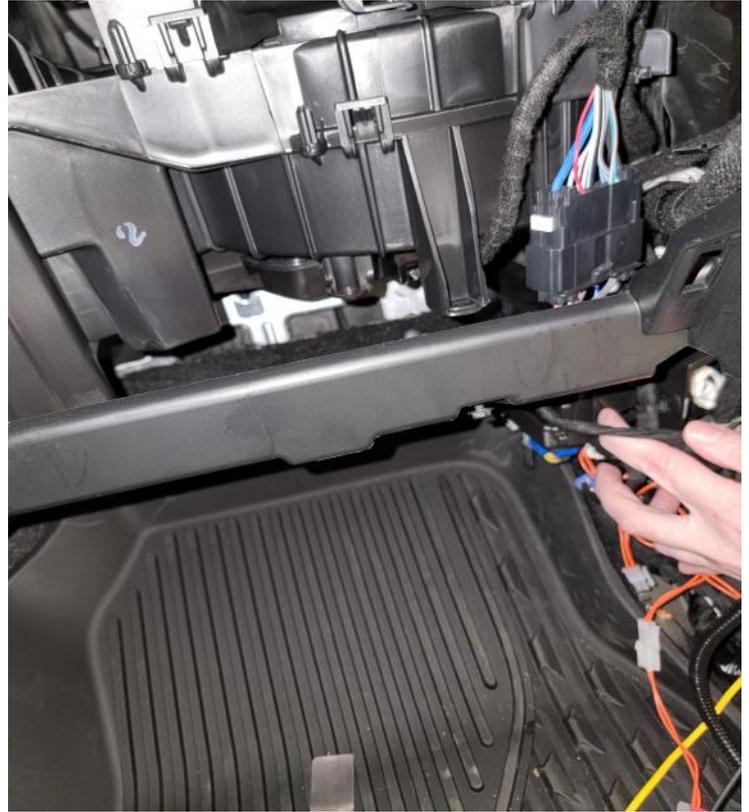
A-PIMA752-A Module

The A-PIMA752-A module is installed as an add-on to the PIMB752. Locate the module in an area away from any 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 will be to mount the module.

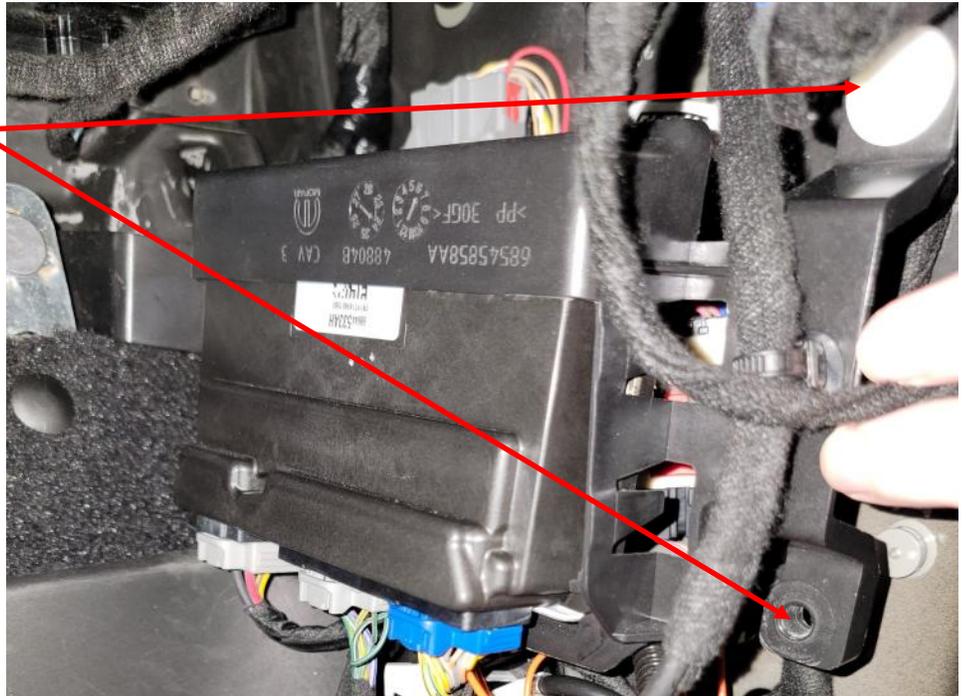
2025 Ram 1500 (DT)

The Dodge Ram 1500 DT has three vehicle connections, two in the passenger foot well and one behind the radio.

- Remove the passenger side dash lower trim panel below the glove box
- Remove the glove box.

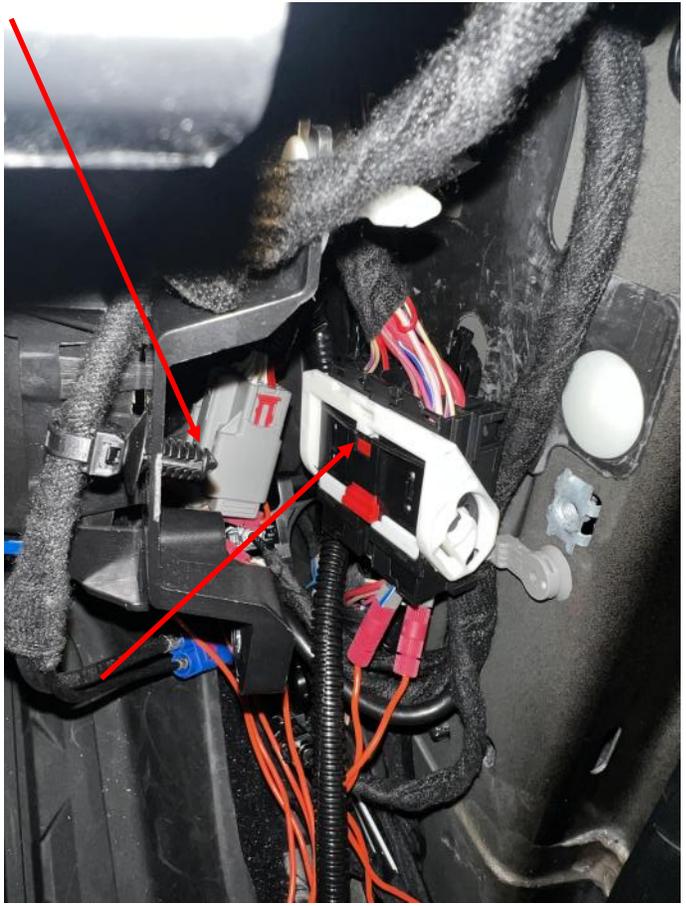


- Remove the front passenger side door sill trim panel.
- Unscrew the bolt on the bottom right of the bracket and pull the top right corner to release the white pin.

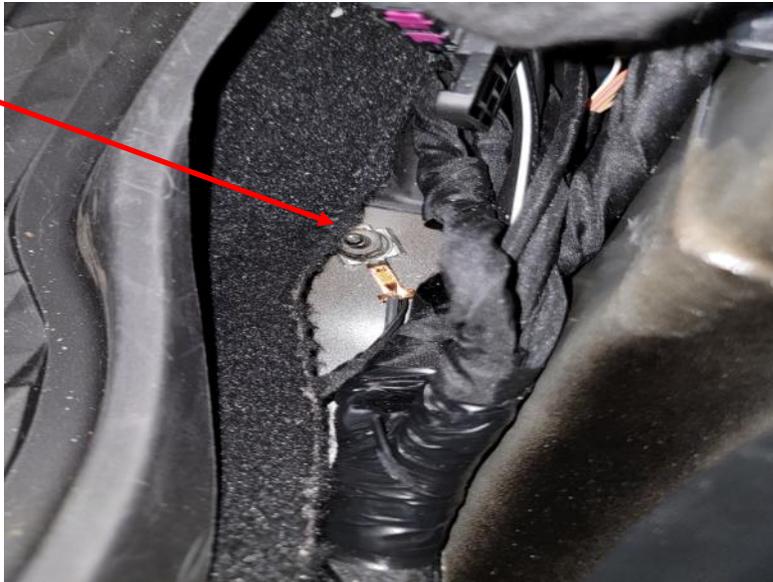


2025 Ram 1500 (DT) Continued

- Locate the gray connector behind the module and bracket. Plug the mating ends of the harness into the factory connectors.
- Locate the black connector behind the module and bracket. Plug the mating ends of the harness into the factory connectors.



- Connect the ring terminal on the black wire from the 840-00376 harness to a bare metal connection on the chassis. One possible location is a stud below the gray connector (mentioned above) under the carpet.



2025 Ram 1500 (DT) Continued

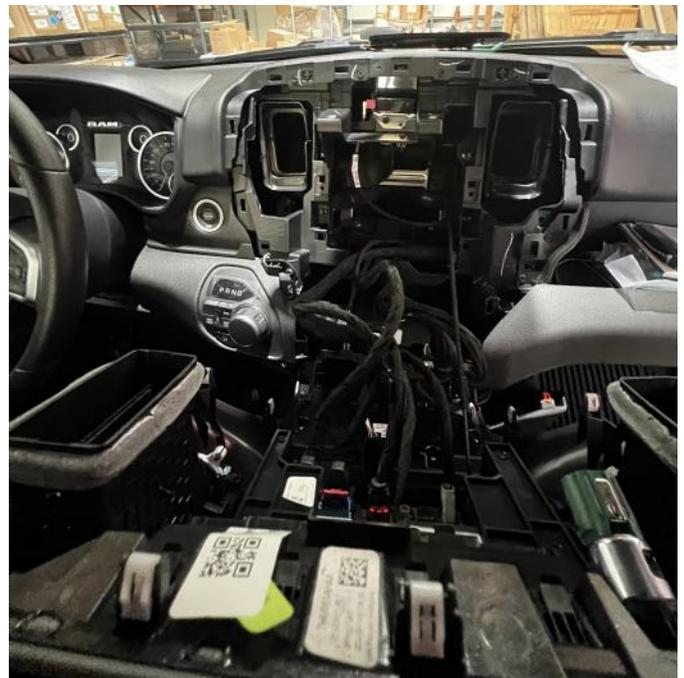
Data Link Harness Installation

The Blue connector is located behind the radio.

- On top of the radio there are 2 screws that need to be removed.



- Remove the center stack bezel using a plastic trim tool by pulling outward. There are only clips holding it in.

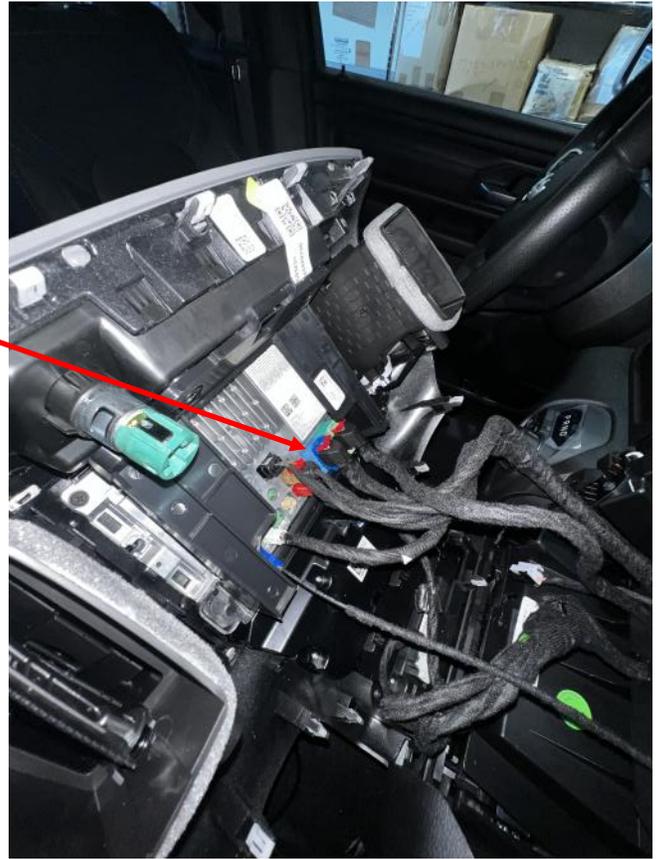


2025 Ram 1500 (DT) Continued

Data Link Harness Installation

The Blue connector is located behind the radio.

- Unplug the blue connector and connect the blue connector from the Intermotive harness.



- Route the blue connector through the gap to pointed out by the red arrow to get behind the radio.
- Plug the 6w molex with the RED tape into the PIMA752 Module
- Plug the 6w molex with the Blue tape into the BOM752 Module.



2025 Ram 1500 (DT) Continued

- Plug the 6w molex with the RED tape into the PIMA752 Module with the RED sticker



PIMA752 Module

J1 10-Pin Connector—Outputs

Each of these outputs are rated at 1/2A and are intended to drive relay coils or other low current loads

Pin #1 - White—Cruise Control Cancel +12V

Pin #2 - Yellow—Cruise Control Plus +12V

Pin #3 - Gray—Cruise Control Minus +12V

Pin #4 - Orange—Not Assigned

Pin #5 - Red—Vbat to Buzzer +12V

Pin #6 - Black—To Buzzer GND

Pin #7 - Blue—SMM Active GND

Pin #8 - Green—Cruise Control Reset +12V

Pin #9 - Violet—SMM Detect GND

Pin #10 - Not Connected



Surveillance Mode

Surveillance Mode can warn an officer if someone approaches the rear of the parked vehicle. It can close the windows, lock the doors, and chime when the sensors trip. Surveillance Mode when enabled, Surveillance Mode will turn on the backup camera and LCD display to provide the officer a view of the rear of his vehicle.

Surveillance Mode Enable Input

- Press the ACC decrease distance button on the steering wheel to enter Surveillance mode

Surveillance Mode Status Output

- The Blue wire (Pin 7 of the 10 pin connector) is at Ground when Surveillance Mode is active (enabled).
- The Violet wire (Pin 9 of the 10 pin connector) is at Ground when the rear sensors detect an object.



Surveillance Mode Operating Instructions :

To enter Surveillance Mode, all of the following preconditions must be met:

- Transmission must be in park.
- Vehicle speed must be zero.
- All doors must be closed.
- Service Brake must NOT be applied.
- Press the ACC decrease distance button on the steering wheel to enter Surveillance mode

The reverse camera display will turn on when surveillance mode is active/enabled.

If the backup sensors detect an object the module will lock all the doors, roll the passenger and driver window up and toggle the reverse and stop lights.

To exit Surveillance Mode any condition may be applied:

- Driver door is opened.
- Service Brake is pressed.
- Transmission cycled out of park.

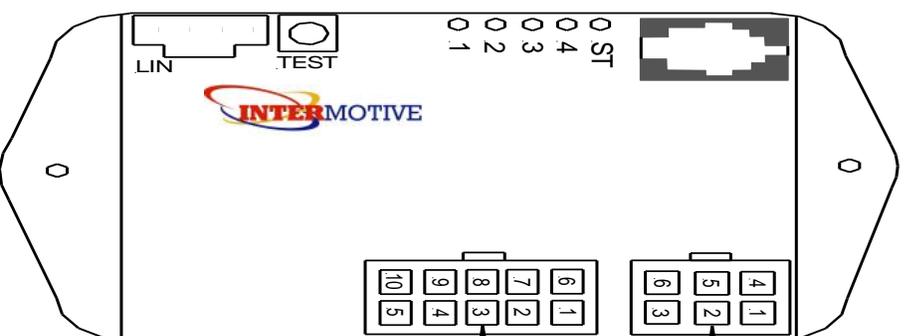
Post Installation / Check List

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 per the installation instructions.

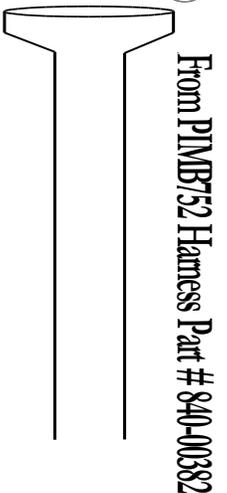
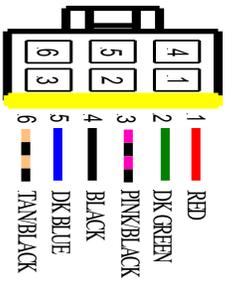
1. Turn the ignition on.
2. To test ISM functions, check outputs turn on with specified button. (As configured)
3. To test SMM functions, preferably test with two people so that one person can activate the rear sensors. **Always have the key fob in your pocket while testing to avoid being locked out of vehicle!**
4. Sit in the drivers seat with transmission in Park and doors closed. Do not apply the Service Brake.
5. Enable Surveillance Mode
6. Have another person trip the sensors by walking behind the vehicle.
7. Verify the windows roll up, the doors lock, the vehicle chimes.
8. Verify the tail lights flash on/off and the reverse lights are on.
9. To exit Surveillance Mode press the service brake.
10. Verify the doors unlock and the tail lights stop flashing and the reverse lights are off.

DO NOT PUT VEHICLE IN SERVICE IF IT DOES NOT PASS ALL OF THE ABOVE TESTS

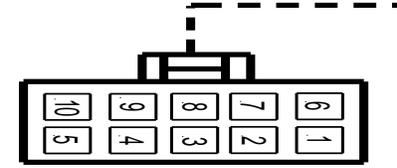
Contact InterMotive at 530-823-1048 for technical assistance



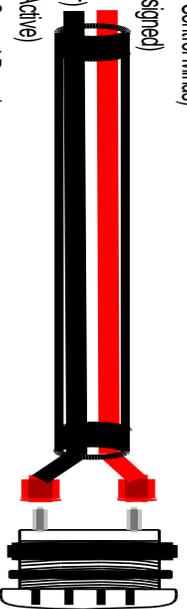
A-PIMA752-A
820-00012-009



Harness Part # 840-00384 (All outputs Active High)



- 1 -WHITE (Cruise Control Cancel)
- 2 -YELLOW (Cruise Control Plus)
- 3 -GRAY (Cruise Control Minus)
- 4 -ORANGE (Not Assigned)
- 5 -RED (VBat)
- 6 -BLACK (Buzzer)
- 7 -DK BLUE (SMM Active)
- 8 -DK GREEN (Cruise Control Reset)
- 9 -VIOLET (SMM Detect)
- 10 -NC



Submit product registration at www.intermotive.net

If the A-PIMA752-A fails any step in the Post Installation Test, review the installation instructions and check all connections.