

## HZF516

### 2020 Ford Transit

**Contact InterMotive for specific applications**



### Introduction

The HZF516 system activates the OEM hazard lights whenever the vehicle is in Park and the engine is running.

### 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 when installing upfitter circuits.

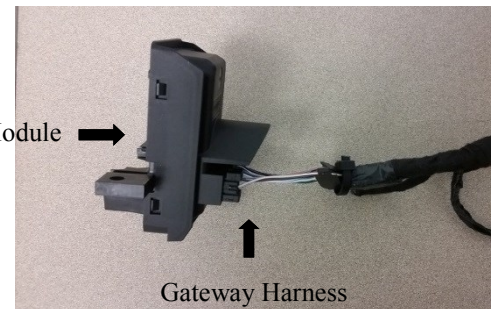
### HZF516 Module

Remove the lower dash panel below the steering column area and find a suitable location to mount the module. Locate the module in an area away from any high 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 of the installation is to mount the module.

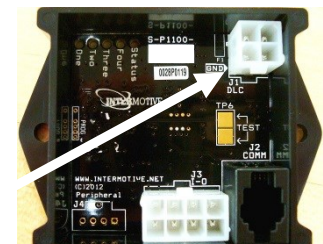
### Plug and Play Harness (4-pin connector)

1. Locate the vehicles Gateway Module. It will be mounted below the lower left dash panel.
2. Remove the harness behind the Gateway module by pressing the locking tab and pulling outward.
3. Plug the Female side of the InterMotive Gateway Harness into the back of the Gateway module. Ensure the connection is fully seated and secured by the locking tab.
4. Plug the Male side of the InterMotive Data Link Harness into the Gateway harness.
5. Secure the HZF516 Gateway harness so that it does not hang below the lower dash panel.
6. Plug the free end of the Data Link harness into the mating 4-pin connector on the HZF516 module.

Gateway Module →



↑  
Gateway Harness





## Post Installation

**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.**

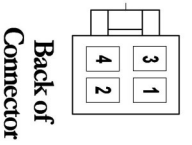
1. Start the vehicle.
2. Place the transmission in Park.
3. Verify the hazard lights are flashing.
4. Take the transmission out of Park and verify the hazard lights turn off.
5. Place transmission in Park and turn vehicle off.
6. Verify that the hazard lights are not flashing.

### Diagnosics

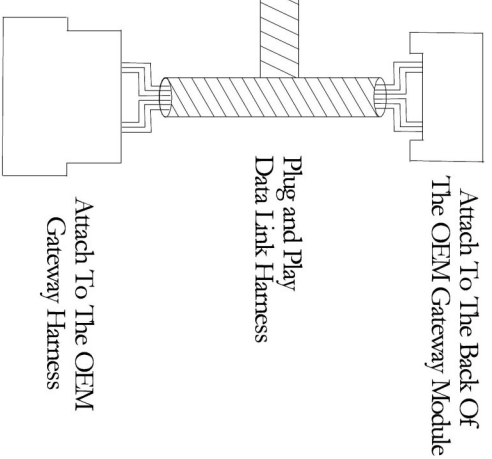
Diagnostic mode is entered by shorting the two "Test" pads together on the module while the Key is in Run. The module provides diagnostic LED's which illuminate according to the following table.

Settings	LED	ON	OFF
Engage Input	LED1	Active	Inactive
Park	LED2	TR = Park	Not in Park
Reverse	LED3	TR = Reverse	Not in Reverse
RPM	LED4	RPM > 300	RPM < 300

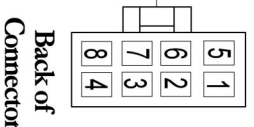
**Part # S-H107DX**



- 1 — RED (12V Battery Voltage)
- 2 — YELLOW (CAN High)
- 3 — GRAY (Ground)
- 4 — BROWN (CAN Low)



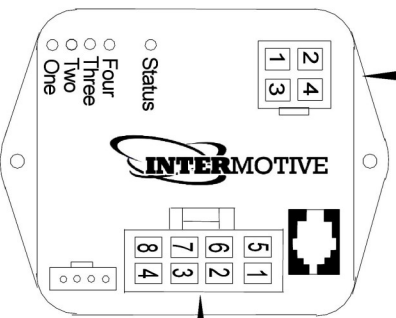
**Part # 840-00073**



- 1 — N/C
- 2 — ORANGE
- 3 — N/C
- 4 — N/C
- 5 — N/C
- 6 — N/C
- 7 — YELLOW
- 8 — ORANGE

..... Cut Wire Here and attach pin 8 side of wire to use Engage Input (High True)

..... HZFF516 Hazard Control (12V Output) .....



**HZFF516**  
**Part # 820-1100-016**

If the HZFF516 fails any step in the Post Installation Test, review the installation instructions and check all connections. If necessary, call InterMotive Technical Support at (530) 823-1048.