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A-GTWY506 Fast Idle, Shift Interlock, I/O 2011-2016 Ford F250-F550 2017-2019 Ford F250-F550 (B-GTWY506*) 2016-2017 Ford F650/750**



*Uses the Ford 24-pin Data Link Harness
**Transmission must have Park position

Introduction

The Gateway 506 is a wheelchair lift safety interlock which will only work with the ignition on. It will enable the lift when certain vehicle safety conditions are met, and will lock the transmission shifter in Park when the lift door is open and/or the Park Brake is applied. The Gateway 506 may also have the Fast Idle option. The Advanced Fast Idle System (AFIS) elevates engine idle speed in response to a number of triggers in order to assist electrical or mechanical systems on the vehicle.

The GTWY506 **must** secure the vehicle in one of three ways: 1) Activate a Shift Lock Solenoid that will physically prevent shifting out of Park, 2) use the Range Inhibit output to prevent the transmission from engaging in a drive gear, or 3) activate a Park Brake Lock Solenoid that will prevent the air Park Brake from being released once applied. The GTWY506 **must not** use an air dump solenoid that could apply the vehicle's air brakes when activated.

Gateway 506 Add-On Options

In addition to Interlock and Fast Idle features, InterMotive offers the following options:

- Gateway with Brakemax: Automatically puts vehicle in Tow Haul mode at start up.
- Gateway with Park Crank Only Module (PCOM): Allows the vehicle to be started in Park only.
- Gateway with Door Ajar: Monitors an additional door other than lift door.

Installation Instructions

Disconnect the vehicle's battery before proceeding with installation.



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.

Gateway 506 Module

Remove the lower dash panel below the steering column and find a suitable location to mount the module. Verify this location is in an area away from 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 the installation is to mount the module. When installing the harnesses, leave several inches of take-out in order to remove the module if necessary.

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Data Link Harness (6-pin connector)

- 1. Locate the vehicle's OBDII Data Link Connector, located below the lower left dash panel.
- 2. Remove the mounting screws for the OBDII connector. Plug the Red connector from the GTWY506 Data Link Harness into the vehicle's OBDII connector. Ensure the connection is fully seated and secure with the supplied wire tie.
- 3. Mount the Black pass through connector from the GTWY506 Data Link Harness in the former location of the vehicle's OBDII connector.
- 4. Secure the GTWY506 Data Link harness so that it does not hang below the lower dash panel.
- 5. Plug the free end of the Data Link harness into the mating 6-pin connector "DLC" on the GTWY506 module.



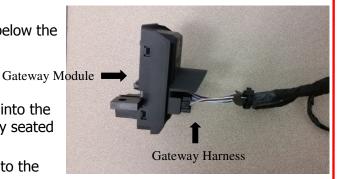


Ford 24-pin Data Link Harness (6-pin connector)

- 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 PRPC Gateway harness so that it does not hang below the lower dash panel.

LED Display Panel

- 1. Locate a suitable position on the dashboard within view of the driver for mounting the LED Display Panel. The length of the display harness is 40". This is the maximum distance the display can be mounted from the GTWY506 module.
- 2. Drill a 5/8" hole in the dashboard where the center of the display will be located. Use caution not to damage anything behind the dashboard.
- 3. Attach the 4 Pin LED display harness to the GTWY506 Module's 4-pin connector. (Note: on vehicles with Merlin systems, a "Y" harness is provided which also connects to the MIM401-A1 module. See MIM401-A1 instructions).
- 4. Run the free end of the display harness under the dash and out through the 5/8" hole.
- 5. Attach the end of the display harness to the LED Display Panel.
- 6. Ensure panel is level, and secure using the supplied screws.







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Control Outputs, Input, and Lift Inhibit Connections - 12-pin I/O connector (optional)

The GTWY506 provides three ground side configurable outputs and one configurable input/output. The outputs can provide vehicle information such as Vehicle Speed, Park, Park Brake, etc., and are configured per customer requirements at InterMotive prior to shipping. These outputs can be used to control upfitter circuits and can sink up to 1/2 amp. The input pin can be connected to a ground side switch to activate Fast Idle or Shift Lock. Grounding the Lift Inhibit Pin 2 input will prevent GTWY506 from supplying power on Vehicle Secure/Lift Power Output pin (4 pin connector). In addition to the above, there is also a dedicated Shift Lock ground activated input on pin 11 which can be connected to an emergency door switch or other equipment. **Note**: The PCOM option requires one of these outputs to provide Park.

A 12 pin mating connector and seven terminals (two extra) are provided. To use any of these outputs, properly crimp a connector terminal provided to the installer supplied wire using the correct crimping tool (Molex Part# 11-01-0197), and insert into the correct connector pin housing. The pin MUST be properly oriented for it to fully seat and click into place. The largest wire that can be used with these terminals is 16 AWG. Plug this connector into the GTWY506 module's 12-pin connector.

Shift Lock Control Input

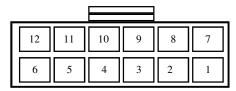
Grounding Pin # 11 on the 12 Pin connector will lock the transmission shifter if the vehicle is in Park. This can be used to prevent the vehicle from driving when equipment has not been properly stowed or an emergency door is open, etc.. This can be connected to any number of grounding switches (connected in parallel) which can effectively "lock the vehicle down".

12-pin Input Output connector pin out definition

- Pin #1 Not Used
- Pin #2 Inhibit input ground to Inhibit Lift
- Pin #3 I/O 2 Configured output
- Pin #4 I/O 3 Configured output
- Pin #5 Green Door Ajar Input Ground Signal (Door Ajar Panel Option)
- Pin #6 Not Used
- Pin #7 Not Used
- Pin #8 White Tow Haul Switch Input (BrakeMax Option)
- Pin #9 I/O 1 Configured output
- Pin #10 I/O 4 Configured I/O Pin
- Pin #11 Dedicated Shift Lock input ground to activate Shift Lock
- Pin #12 Not Used



12 Pin I/O Connector

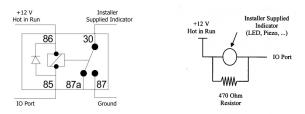


Back of Connector

Control Outputs, Input, and Lift Inhibit Connections - 12-pin I/O connector (continued)

Note: When using the I/O port outputs to drive installer supplied low current devices, such as LED's or Piezo buzzers, a small amount of current leakage may cause the low current device to activate when the pin is inactive. This is indicated by the LED turning on dimly or the Piezo buzzer sounding faintly when the output is inactive (Conditions not met).

To correct this, install a 470 Ohm 1W resistor across the low current device (**Digikey Part # 470WCT-ND**). Or, drive a relay with the I/O output to switch ground to the low current device (**Digikey Part # PB682-ND**).



Lift Connector 4-pin

This 12 inch harness contains the ignition power, lift power/vehicle secure, and lift door circuits. The mating harness is to be fabricated by the installer. The recommended mating connector is Molex Part # 0050841040. The recommended mating terminals are Molex Part Number 0002081003. The recommended terminal extractor tool is Molex Part Number 0011010168. The recommended hand crimp tool is Molex Part Number 0638116800.

- Ignition Circuit Connect the Yellow wire Pin 2 of the white 4-pin connector to an 8A (or less) fused source which provides 12V when the key is on. This circuit provides the power for the Vehicle Secure output below.
- 2. Lift Power/Vehicle Secure Circuit Connect the Orange wire Pin 1 of the white 4-pin connector to the Vehicle Secure input on the lift. This circuit must only activate the vehicle secure input on the lift and must not draw more than 8.0 amps max. (see lift manufacturers installation instructions). **Note:** Do not power any other loads (i.e.: lights, motors, etc.) from this circuit that could cause the total current draw to exceed 8.0 amps.
- 3. Lift Door Circuit Locate the lift door switch circuit. Connect the Gray wire, Pin 4 of the white 4-pin connector to this circuit . **Note**: The door switch must provide a ground when the lift door is open. A switch that provides power with the door is open will not operate correctly.
- 4. Plug the White 4-pin connector from the Lift Harness into the GTWY506 module connector marked "PWR RLY".

GTWY506 Additional Options Installation Instructions

GTWY 506-F - Gateway with Fast Idle. See Fast Idle Post Installation Testing instructions.

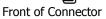
GTWY 506-M - Gateway with Merlin. See LED Display Panel instructions.

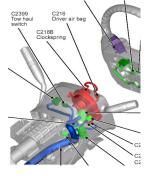
GTWY506 Additional Options Installation Instructions (continued)

GTWY506-B - Gateway with BrakeMax. (2011-2016: 6.2L and 6.7L only)

- 1. Locate the OEM Black 5-pin tow-haul switch connector (C2399) located on top of the steering column. Locate Pin #2. **2011-2016:** Brown/Yellow, **2017:** Brown/Green
- Attach the GTWY506 12 Pin connector Pin #8 White wire to the OEM Black 5-pin tow-haul switch connector Pin #2 2011-2016: Brown/Yellow, 2017: Brown/Green. Solder and heat shrink or tape the connection point.
- 3. Route the wire harness and connect the 12 pin connector Pin #8.







OEM connection for Brake - Max option.

GTWY506-D - Door Ajar Display Panel

Optional second door input. The green wire is included with the panel. Insert the terminated end of the Green wire into Pin #5 of the GTWY506 12 pin connector. Attach the other end of the Green wire to the second door switch (usually passenger door) which provides a ground when the door is open. This will cause the "Door Ajar" display to flash when only the passenger door is open.

GTWY506-C - Gateway with Park Crank Only Module (PCOM)

PCOM Ignition Switch Connectors

- 1. Remove the under dash panel and the steering column shroud.
- 2. Locate the OEM 7-pin connector attached to the ignition switch under the steering column.
- 3. Locate the Blue-White wire pin #7. This wire is located on the bottom of the connector.
- 4. Cut the Blue-White wire between the harness and the connector.
- 5. Attach the harness side of the Blue-White wire to the Yellow wire from the PCOM Module using solder and the supplied heat shrink tubing.
- 6. Attach the connector side of the Blue-White wire to the Red wire from the PCOM Module using solder and the supplied heat shrink tubing.
- 7. Attach the PCOM Black Park Input wire to the GTWY506-C I/O port that provides a ground signal when in Park. The actual pin# depends on the customers configuration of GTWY506-C.
- 8. Secure the PCOM501B module, ensuring there is not strain on the wires.





GTWY506 Module Mounting

Ensure all harnesses are properly connected and routed and are not hanging below the dash area. Mount the module as described on page one and secure using supplied screws or double sided tape.

Reconnect Vehicle Battery

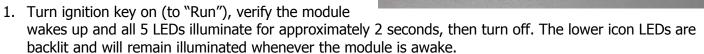
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Post Installation / Check List

The following checks must be made after installation of the system, to ensure correct and safe operation of the lift. If any of the checks do not pass, do not deliver the vehicle. Recheck all connections as per the installation instructions.

Begin the checklist with the vehicle in the following state:

- Lift stowed
- Lift Door Closed
- Park Brake set (PB)
- Transmission in Park (P)
- Ignition off (Key off). Wait until the module goes into "Sleep" mode which takes approximately 40 seconds.



Active LEDs

Backlit LEDs

INTERMOTIV

Vehicle Secure Lift Door Park Brake Park Shift Lock

- 2. Verify that the Park LED, the Park Brake LED, and the Shift Lock LED remain illuminated.
- 3. Attempt to deploy the Lift. The Lift must not deploy with the Lift Door closed.
- 4. With key on, Lift Door open, Park Brake set and transmission in Park, all 5 LEDs will be illuminated. Attempt to deploy the Lift. Verify lift deploys, then stow the lift. **Note**: If the Lift does not operate, check the GTWY506 LIFT connector. Pin 4 should have 12V (Lift power input), and pin 2 should have 12V (Lift Power/Vehicle Secure output).
- 5. With key on, Lift Door open, transmission in Park, release Park Brake. Verify that the Park Brake (PB) LED goes out
- 6. Attempt to deploy the Lift. The Lift should <u>not</u> deploy.
- 7. With key on, Lift Door closed, Park Brake set, attempt to shift transmission out of Park. Verify transmission will not shift out of Park.
- 8. With key on, Lift Door open, Park Brake released, attempt to shift transmission out of Park. Verify transmission will not shift out of Park.
- 9. With key on, Lift Door closed, Park Brake released and the Service Brake applied, attempt to shift transmission out of Park. The transmission shift lever will now shift out of Park.

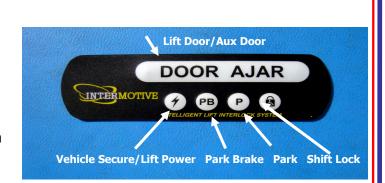
Door Ajar LED Panel

Perform the same checks as above.

When an additional door (Aux Door), is open, the Door Ajar

LED will blink on the display panel until the door is closed.

If the **Lift Door** is open, the Door Ajar LED will stay on steady, taking priority over the additional door input.



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.

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Post Installation (continued)

Fast Idle

The Fast Idle option has several "auto triggers" that will increase engine RPM. These include low battery voltage, air conditioner on, engine cold, and external switch input on pin #10 of the 12 Pin connector (I/O 4).

- 1. Press the Service Brake for 1 second. Fast idle will temporarily disengage anytime the brake pedal is pushed, but will automatically reengage after approximately 2 seconds once the Service Brake pedal is released.
- 2. Exit Fast Idle mode by pressing the Service Brake and the Yellow Manual ENGAGE button together. Fast Idle will cancel and the Green LED will turn off. This will disable Fast Idle until the key or transmission range is cycled.
- 3. Shut down the engine and verify that all LED's turn off, which may take a few minutes. Do not activate any vehicle controls during this time (windows, mirrors, doors, etc.).

Setting Fast Idle RPM Speeds (900 RPM - 2000 RPM)*

The GTWY506 has two separate configurable RPM settings (heater boost and the default setting). The heater boost is triggered on engine start-up and aids in warming up the engine quickly. The default setting is triggered by low battery voltage, air conditioner On, or external switch inputs. The two settings are changed by doing the following procedure:

Heater Boost Configuration (Auto Triggers Enabled)

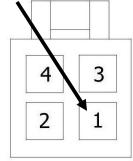
- 1. Momentarily short the two "test" pads together **TWO** times. The Status LED on the module will flash a 2-2 code (two short flashes, a pause, and two more short flashes).
- 2. The vehicle RPM will increase to the currently configured setting.
- 3. To raise the RPM by 50, momentarily ground pin 1 on the 4-pin connector until the desired RPM is set.
- 4. Short the "test" pads **TWO** more times until no LED's are lit on the module.

JZ AUX JZ AUX S-P1200DLC S-P1200DLC

Default Configuration

- Momentarily short the two "test" pads together <u>THREE</u> times. The status LED on the module will flash a 3-3 code (three short flashes, a pause, and three more short flashes).
- 2. The vehicle RPM will increase to the currently configured setting.
- 3. To raise the RPM by 50, momentarily ground pin 1 on the 4-pin connector until the desired RPM is set.
- 4. Short the "test" pads **ONE** more time until no LED's are lit on the module.

NOTE: The maximum RPM setting for the 2014 6.8L Diesel engine is 1600 RPM.



Back of Connector

Post Installation (continued)

BrakeMax (optional)

The BrakeMax option automatically engages Tow Haul mode when the vehicle is started.

- 1. Set the Park Brake and start the engine.
- 2. Verify that the "Tow/Haul" light illuminates on the shifter handle.
- 3. Press the Tow-Haul button. Verify Tow-Haul light is no longer illuminated. Mode is now deactivated
- 4. Turn off and restart vehicle. Verify tow-haul mode automatically reengaged.

Park Crank Only (optional)

The PCOM option only allows the vehicle to be started with transmission in Park

1. Verify the starter will crank only when the transmission is in the "Park" position.

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.

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LEAVE IN VEHICLE Operating Instructions GTWY506 Fast Idle, Shift Interlock, I/O 2011-2016 Ford F250-F550 2017-2019 Ford F250-F550 (B-GTWY506) 2016-2017 Ford F650/750* *Transmission must have Park position

Gateway 506

The Gateway 506 initializes when the vehicle ignition is on. During initialization, the LED display panel connected to the Gateway 506 performs a prove-out for 2 seconds. After the initialization, the Gateway 506 obtains various vehicle data over the OBDII connector/network and all control logic is performed. When the Gateway 506 has been running and the vehicle ignition is turned to the off or accessory position, the module goes into a very low current consumption "sleep" mode. This may take up to 5 minutes.

In order to not interfere with possible scan tool communication, GTWY506 will refrain from transmitting CAN messages for 10 seconds if scan tool CAN communication is detected. If during these 10 seconds another scan tool message is received, an additional 10 seconds will be added to the end of the first 10 second timeout. When no scan tool messages have been detected for at least 10 seconds, GTWY506 will resume operation.

Advanced Fast Idle

The Advanced Fast-Idle System (AFIS) option of the Gateway 506 includes Charge-Protect as well as fully-automatic and manual engage modes. Charge-Protect is a feature that maintains vehicle charging system voltage by increasing and controlling vehicle idle speed when necessary. Whenever charging system voltage falls below a minimum voltage (determined by each bus manufacturer), this AFIS feature will increase idle speed and maintain fast idle until the user cycles the shifter, a safety condition is violated or the user manually disengages fast idle. The fully-automatic and manual engage modes also require that all safety conditions are met.

Safety conditions that must be met to engage or maintain Fast Idle operation Vehicle NOT moving
Service Brake NOT pressed
Vehicle Transmission in Park
RPM inside of safe operating range
Transmission Fluid Temperature below 250° F
Engine Coolant Temperature below 230° F

Control / Display Panel

The left side of the Control/Display Panel consists of one LED and a Manual Engage Switch. The green LED will illuminate when Fast Idle is in progress. The LED is also used for diagnostic code retrieval by an authorized service technician. The Manual ENGAGE button can be used to engage Fast Idle operation if all safety conditions are met.

Fast Idle Operation

Fast Idle may be initiated by either a manual or automatic Fast Idle trigger. The AFIS strategy can only command elevated idle when certain safety conditions are met (see above). Fast Idle operation will be terminated by a safety condition violation, a Merlin Multiplex Network Command, or an automatic trigger going away.

If a Fast Idle operation terminates due to a safety condition violation, automatic Fast Idle is unavailable until the transmission is cycled out of Park and back. Default Fast Idle RPM is 1500 for gas engines and 1200 for diesel.

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GTWY506 Operating Instructions (continued)

Manual Fast Idle Start Triggers

- LED panel manual ENGAGE button.
- Merlin Network Command (for vehicles equipped with Merlin Multiplex system).
- Fast Idle Input ground applied to 12 Pin I-O connector Pin 10 (if configured such as from an A/C unit).

Automatic Fast Idle Start Triggers

- Charge Protection Battery voltage drops below bus manufacturer set minimum voltage.
- Chassis A/C Boost OEM A/C clutch engaged with ambient temperature above 70° F. Note: shutting off A/C does not disable Fast Idle until transmission range cycled.
- Heater Boost Ambient air temperature below 70° F and Engine Coolant Temperature below.

Fast Idle Disengagement

- Safety Condition Violation.
- Merlin Multiplex Network Command.
- Heater Boost Engine Coolant Temperature > 120° F. Removes Heater Boost trigger.
- Fast Idle I/O 4 (pin 10) is no longer grounded.
- Transmission Fluid Temperature above 250° F. Overheating condition.
- Ambient Temperature below 70° F (Only in A/C Boost).

NOTE: Fast idle will temporarily stop anytime the brake pedal is depressed, but will automatically reengage after approximately 2 seconds once the brake pedal is released. Fast idle may be manually cancelled by depressing the service brake pedal while simultaneously pressing the manual engage switch.

Manual Operation

To manually engage Fast Idle, the manual ENGAGE button must be pressed for at least a quarter second and released. The Fast Idle operation will begin when the button is released, not when first pressed. Holding down the button for more than five seconds will initiate a diagnostic routine that displays stored status codes from previous operations. If the driver accidentally enters this routine, it can be exited by cycling the vehicle's ignition off and then back on. To exit Fast Idle operation, the driver can simply press the service brake while simultaneously pressing the ENGAGE button.

Note: When Fast Idle is engaged, the OEM PCM will try to maintain the RPM constant regardless of engine load. There may be some RPM variations observed as loads are increased/decreased.

Lift Operation

The GTWY506 Intelligent Lift Interlock System is a microprocessor based system for controlling wheelchair lift operation. Lift operation will only be allowed when all of the following conditions are met:

The vehicle is in Park.

The Park Brake is applied.

The vehicle ignition is on.

The lift door is open.

The Lift inhibit switch (if installed) is not activated.

GTWY506 will not allow the vehicle to be shifted out of Park if the lift door is open, or if the Park Brake is set. GTWY506 does not lock the shifter when the passenger door is open.

The shift lock can also be activated through the 12 Pin connector Pin #10, if the proper configuration is installed or through a command by the InterMotive Merlin Multiplex system, if equipped.

If the vehicle has Daytime Running Lights, they will be activated when the Park Brake applied and the Ignition is On.

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GTWY506 Operating Instructions (continued)

When the vehicle is first started, or if the key is turned to the "Run" position, the five upper LED's on the display panel will illuminate for 2 seconds as a prove out of the LED's. The lower Icon LED's are backlit and will remain illuminated whenever the Gateway 506 module is awake. The module will stay awake for several minutes after the ignition is turned off. After prove out, the operation of the LED panel is as follows (standard LED panel, left to right):

Fast Idle indicator - (Tachometer icon) Illuminates green when Fast Idle active.

Vehicle Secure/Lift Enable – (Lightening Icon). Illuminates green if the lift is enabled. This means that all conditions for lift operation have been met and the lift has been supplied a Vehicle Secure signal.



Door Open - (Door icon) Illuminates in red when the lift door is open.

Park Brake – (PB icon) Illuminates in red when the parking brake is applied.

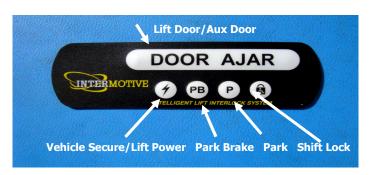
Park - (P icon) Illuminates in red when the vehicle transmission is in the park range.

Shift Lock - (Lock icon) Illuminates in Red when transmission shifter is locked in Park. This occurs when the lift door is open and/or the Park Brake is applied. It can also be illuminated from an external command through the I/O 4 input at Pin #10 of the 12 pin connector (proper configuration required). Also a command by the InterMotive Merlin Multiplex system, if equipped, will illuminate the shift lock LED. If illuminated, the driver will not be allowed to shift out of Park.

Door Ajar optional panel - (upper text: **Door Ajar**) Illuminates in red when the lift door is open, flashes in red when the passenger door is open. Solid red when both doors open.

Confirmation Signal – The vehicle lamps and radio will cycle briefly when the ignition is on and the lift door is initially closed. This is a confirmation signal sent from the Ford controller.





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GTWY506 Options Operating Instructions (continued)

BrakeMax

- When the vehicle is started, tow-haul mode is automatically engaged and the tow-haul light will be on.
- To deactivate tow-haul mode, press the tow-haul mode button.
- When vehicle is restarted, tow-haul mode will again be automatically reengaged.

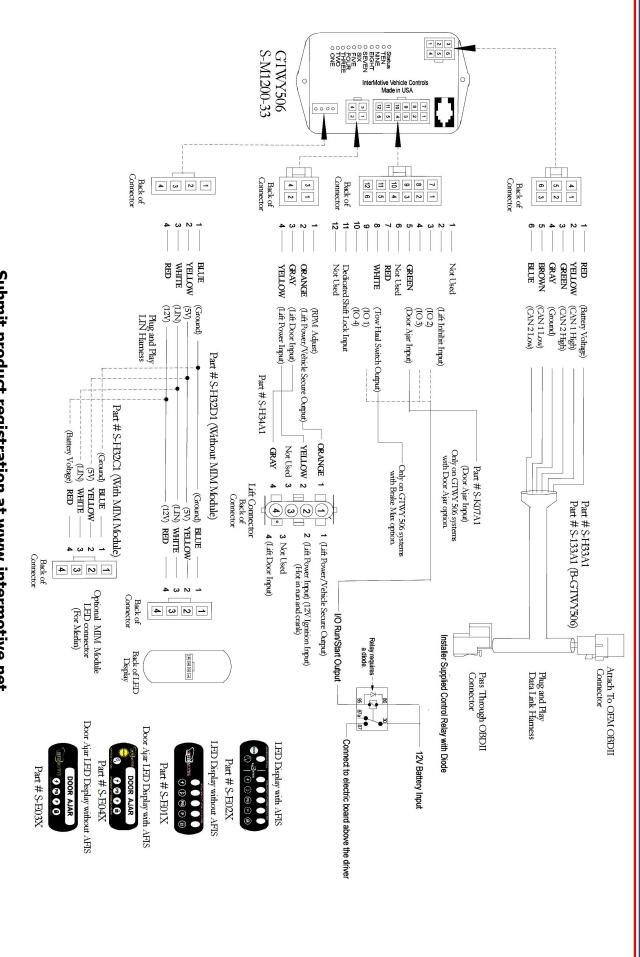
Park Crank Only Module (PCOM)

• Once installed, the starter will crank only when the transmission is in the "Park" position.

Door AJAR

• When an additional door is open, the Door Ajar LED will blink on the display panel until the door is closed.

If the GTWY506 fails any step in the System Operation, call InterMotive Technical Support at (530) 823-1048.



Submit product registration at www.intermotive.net

If the GTWY506 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.