

Platform Lift Interlock System



Vehicle interlock system for commercial type FMVSS 403 platform lifts installed on Ford E-Series vehicles.

The InPower ITM-116 interlock system provides the required FMVSS 403 platform lift interlocks for Ford E-Series vehicles. The ITM-116 interlock consists of a compact control module, a "plug and play" chassis interface cable, a system wiring harness, and a remote driver's LED status display. The control module is a non-microprocessor design that uses robust solid state logic devices to provide an extremely high level of reliability. A set of diagnostic LED indicators are located on the control module that allows for system troubleshooting without the need for test equipment (e.g., visual detection of a faulty lift door switch or lift stowed sensor).

An engine fast idle function is provided that will allow the operator to select a fixed fast idle of 1200 rpm or an automatic mode that will elevate the engine speed if the battery voltage drops to a low level (12.5 volts). The fast idle will only operate if required safety enablers are set (park brake set, shifter in Park, etc.).

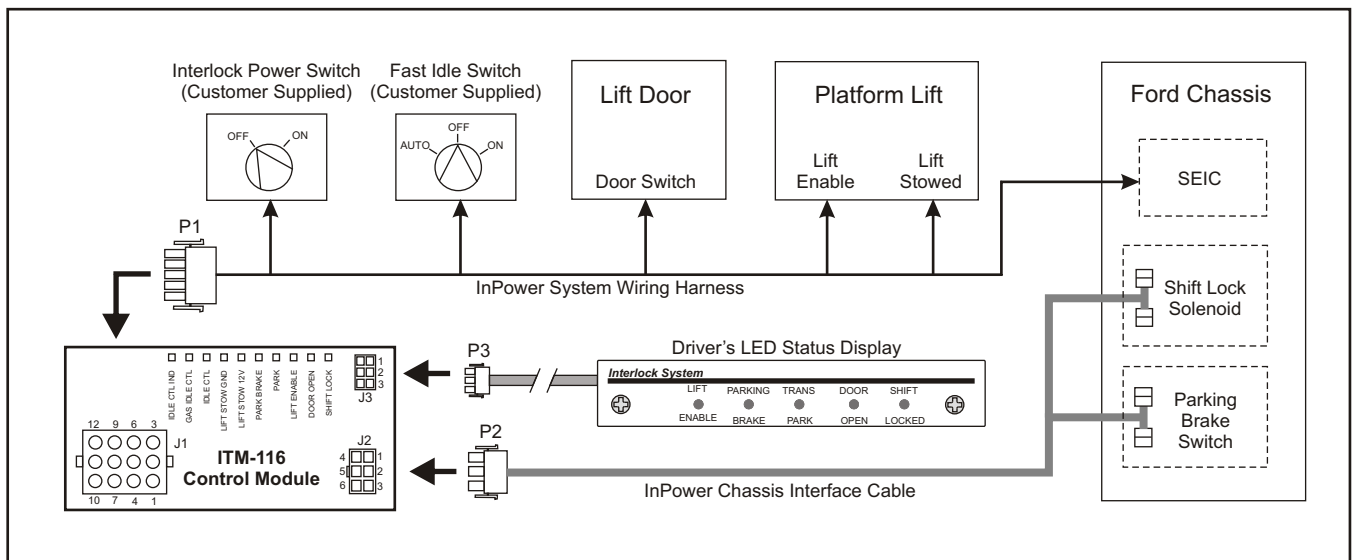
Key Features

- Designed for 2005-2007 Ford E-Series Vehicles
- Driver's LED Status Display
- Complies with FMVSS 403
- 100% Solid State Construction
- Direct Interface to Braun, Ricon & Maxon Lifts
- "Plug and Play" Chassis Interface Harness
- Multi-Mode Engine Fast Idle Operation
- System Diagnostic LED Indicators
- Small Size for Under Dash Installation

The interlock system sequence of operation is as follows:

- Step 1 - With interlock powered on, place the transmission in Park.
- Step 2 - Set the parking brake.
- Step 3 - Open the lift door. When opened, the shift lock will be set to prevent the transmission from being taken out of Park, and the Lift Enable will be set to allow operation of the platform lift. The Lift Door Open light, if installed, will operate.
- Step 4 - The platform lift may now be operated (Refer to the platform lift operating instructions). Note - During the Lift Enable sequence, if the parking brake is released the Lift Enable will be deactivated, preventing lift operation.
- Step 5 - When the lift cycle is complete return the lift to its fully stowed position.
- Step 6 - Close the lift door.
- Step 7 - Release the parking brake. When released, the shift lock will be automatically released.
- Step 8 - The cycle is now complete and the shifter can be taken out of Park.

System Diagram



ITM-116 Wheel Chair Lift Interlock

Specifications

Module Inputs

Power Input:	+8 to 16 Vdc @ 16 amps
Ground:	Supplied from shift lock solenoid Tee-cable
Shift Selector "Park" Position:	Ground in Park (From SEIC)
Lift Door Switch:	Ground when door is open/ajar
Lift Fully Stowed A:	+12 volts when lift in fully stowed position
Lift Fully Stowed B:	Ground when lift in fully stowed position
Parking Brake Switch:	Ground when parking brake applied
Safety Enablers Set:	Ground when all Ford chassis safety enablers are set (SEIC)

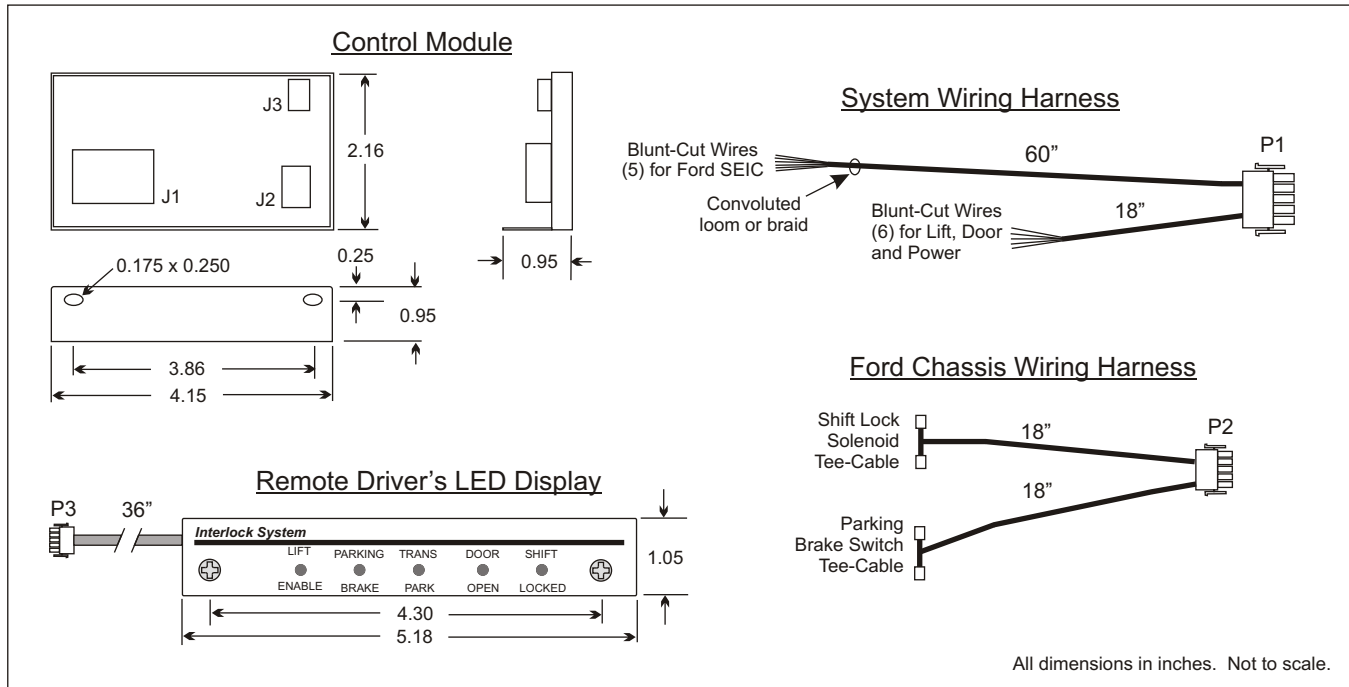
Module Outputs

Shift Lock Solenoid:	Normally closed solid state relay. Opens to lock in Park position
Enable Lift:	+12 Volts @ 8 amps to allow platform lift operation
Door Open Remote Lamp:	+12 Volts @ 8 amps when lift door is open/ajar
Idle Control:	Output to Ford SEIC
Gas Idle Control:	Output to Ford SEIC
RPM Output:	Output to Ford SEIC

Mechanical

Weight:	0.17 lbs.
Operating Temperature:	-40° C to +85° C
Dimensions:	2.16" H x 4.35" L x 0.95" D

Mechanical Drawing



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Specifications subject to change without notice.