

# ITM-PM-UVL

## Under Vehicle Lift Interlock

# RAM ProMaster Smart Interlock Controller With Display



### Key Features

- Supports RAM ProMaster (gas Engine) 2022+
- Plug and Play Installation for Under Vehicle Lifts
- Monitors STOWED Signal from Lift and sets Shift Lock during lift operation.
- Lift Door (Rear or Side) is selectable.
- T-Cables provided for shift Interlock Data Connections
- No Door Wiring Required. All chassis conditions come from the data bus interface.
- Unit has Integral Status/LED Diagnostic Indicators
- Dashboard Display with Indication of "LIFT NOT STOWED".
- Compatible with Braun, Ricon, and Maxon Lifts
- Complies with FMVSS 403/404 regulations

### ITM ProMaster Interlock System for Lift Control

#### Technical Description

InPower's ITM-PM-UVL interlock system provides the required FMVSS-403/404 interlock functions for public use platform lifts on ProMaster Vans with gas engine. The ITM-PM-UVL System consists of an interlock control module, a Remote Display, and easy-to-install Plug and Play cables.

The wiring harness includes connections for:

Lift Interface:

Stow GND - Active Low for GND True Lifts - (Violet)

Stow 12V - Active High for 12Vdc True Lifts - (Tan)

12V Enable to the lift (Yellow)

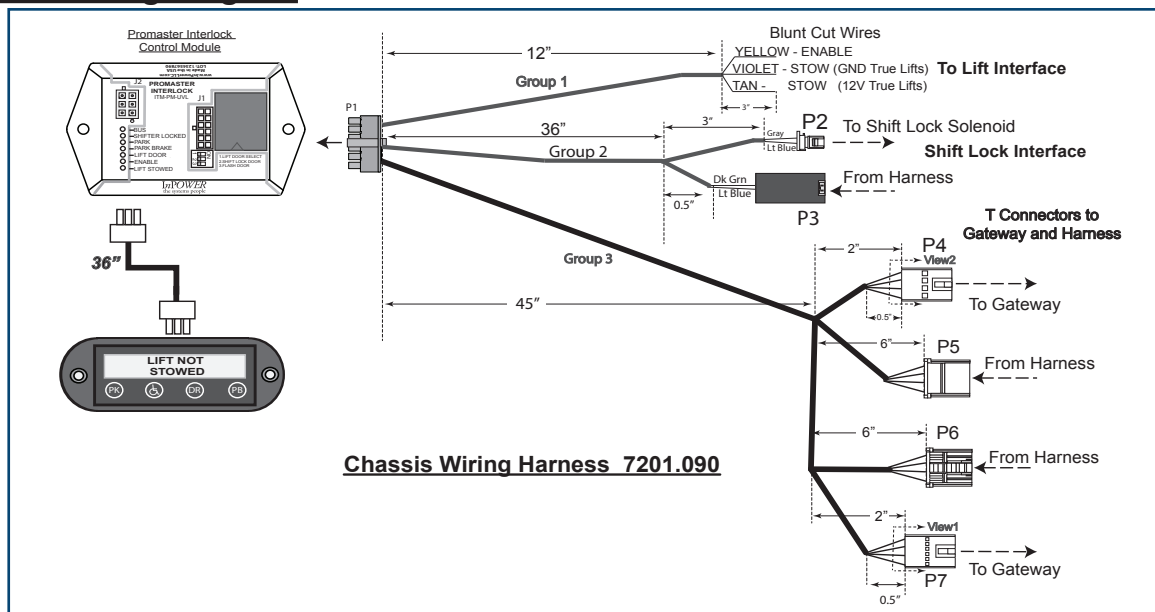
"T" cable for Shift Lock Solenoid (36")

"T" cable for the Data Gateway (45")

This system gathers the chassis conditions directly from the vehicle to enable/disable the interlock. When the ignition is ON with the vehicle in Park and the Park Brake Set, then the lift will be enabled if the Lift Door is open. When the Ignition is OFF, the vehicle is in Park with Park brake set, and the Lift Door is opened, then the lift will be enabled for 10 minutes. If after the time expires and the lift door is still opened and the lift is deployed, simply wake up the vehicle by opening another door (or any other interaction with the vehicle chassis).

The control module has one 12 pin primary connector and seven diagnostic status LED's (Bus, Shifter Locked, Park, Park Brake, Lift Door, Enable (wheelchair icon), Lift Stowed) to aid in system troubleshooting. The interlock system provides +12V @ 1.8 amp to enable the platform lift to be operated.

### System Wiring Diagram



# ITM-PM-UVL

## Under Vehicle Lift Interlock

# RAM ProMaster Smart Interlock Controller With Display

### Specifications

#### Module Inputs

Power Input:	+8Vdc to 16 Vdc @ 5 amps
Either: Lift Stow GND True <i>Group1</i> :	Ground when Lift is Stowed (Violet) Use for Ground True Stow Signal Lifts
<b>OR</b>	
Lift Stow +12V True <i>Group1</i> :	+12V when Lift is Stowed (Tan) Use for +12Vdc True Stow Signal Lifts
Gateway T-Harness <i>Group3</i> :	Data Interface for Vehicle Status of Park Brake, Shifter, Brake, Ign, Etc.

#### Module Output

Lift Enable <i>Group1</i> :	+12V @ 1.8 amp to allow platform operation. (Yellow)
ShiftLock T-Harness <i>Group2</i> :	Shift Lock Solenoid for locking the vehicle in Park for Lift Operation.

#### Mechanical

	Interlock Module	Interlock Display
Dimensions:	4.41"L X 2.62"W X 1.213" H	3.44"L X 1.44"W X 0.59"H (with 0.39" connector)
Weight:	0.19 lbs	
Operating Temperature:	-40 degree C to +85" C	

### Ordering Information

ITM-PM-UVL Standard RAM ProMaster Lift Interlock with Display

### Mechanical Drawing

