

ITM-T20NPB & ITM-T20NPB-ADL

2020+ Ford Transit Lift Interlock No Park Brake



Ford Interlock system for monitoring platform lift door and up to four auxiliary doors.

Technical Description

InPower's Models ITM-T20NPB\ITM-T20NPB-ADL interlock systems provide the required FMVSS 403/404 interlock functions for public-use platform lifts installed in Ford Transit chassis. The system consists of a combined driver's display and control module as well as an easy to install plug and play chassis wiring harness.

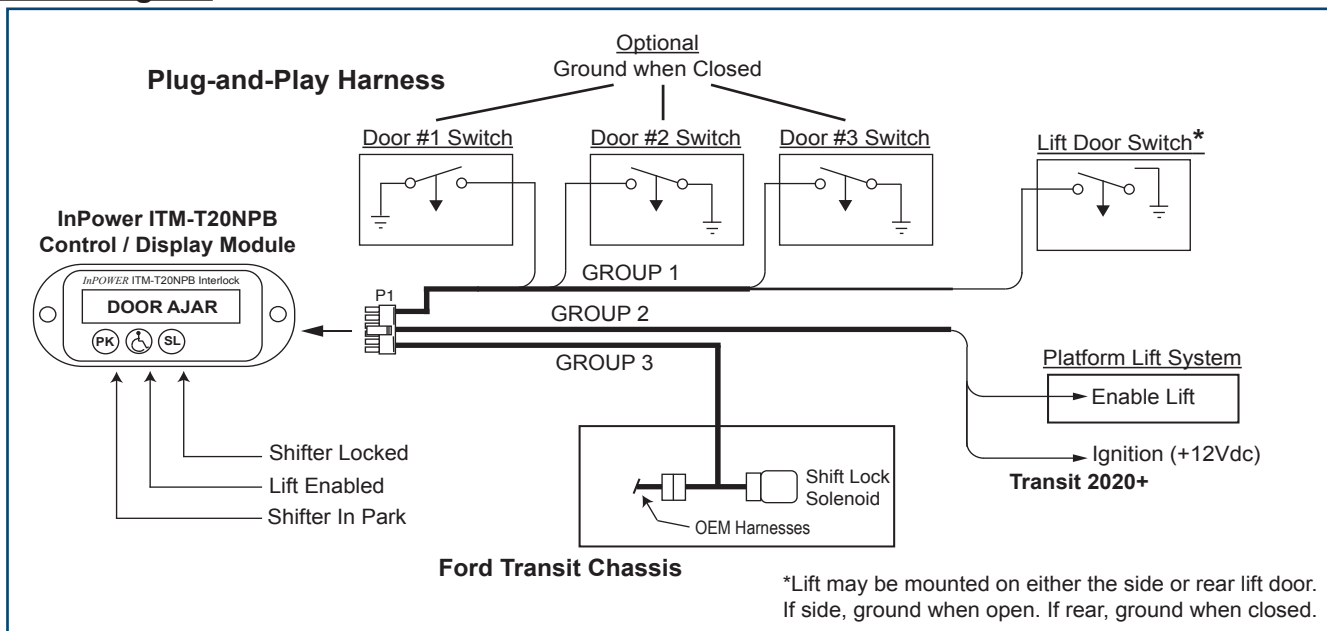
The wiring harness includes a set of blunt cut wires for connecting to the platform lift system door switches and 12 volt power and T-cables for interfacing with the Ford shift lock solenoid and park signal. The interlock's Lift Enable output is rated at +12 volts @ 1.8 amps, and it is compatible with current production platform lifts manufactured by Braun, Ricon, and Maxon.

The driver display includes a two-inch flashing Door Ajar indicator as well as indicators for Park, Shifter Locked and Lift Enabled. The interlock monitors the lift door and up to four auxiliary doors. With the standard ITM-T20NPB model, if any of these doors are not fully closed, the display's Door Ajar indicator will flash. Only the lift door input will set the shift lock. With the ITM-T20NPB-ADL, if any door is not fully closed, the Door Ajar indicator will flash and the shift lock will set.

Key Features

- Supports +2020 Ford Transit Chassis
- Combined Driver Display and Control Module
- Works for both rear and side doors
- Does **not** use the ABS controlled Park Brake
- Status / Diagnostic Indicators
- Monitors up to Four Door Switches plus Lift Door
- Plug-and-Play Wiring Harness
- Direct Interface to Platform Lift Systems

System Diagram



ITM-T20NPB and ITM-T20NPB-ADL

Ford Platform Lift Interlock (No Park Brake)

Specifications

Module Inputs

Power Input:	Ignition +12V is obtained blunt cut wire (Red-Pin 6)
Ground Input:	Ground is obtained from the Shifter T-Harness (Pin 11)
Rear Lift Door* In:	From lift door closed switch. Ground when door is Closed. (Blunt-cut Violet)
Side Lift Door* In:	From lift door closed switch. Ground when door is open/ajar. (Blunt-cut Tan)
Side Door* In:	From side door closed switch. Ground when door is open/ajar. (Blunt-cut Orange)
Door #1 or Rear Door* In:	From Door #1 closed switch. Ground when door is closed. (Blunt-cut Blue)
Door #2 In:	From Door #2 closed switch. Ground when door is closed. (Blunt-cut Blue)
Door #3 In:	From Door #3 closed switch. Ground when door is closed. (Blunt-cut Blue)

* Lift may be installed on either the side door or the rear door. When installed in the side door, use the Tan wire for the lift door and one of the Blue wires for the rear door. When installed in the rear door, use the Violet wire for the lift door and the Orange wire for the side door.

Module Output

Lift Enable:	+12 volts @ 1.8 amps to allow platform switch operation. (Blunt-cut Yellow)
System Total Power:	2 amps @ 13.6V

Mechanical

Dimensions:	3.50 W x 1.50 H x 0.56 D inches
Weight:	0.15 lbs
Operating Temperature:	-40° C to +85° C

Please see owner's manual OM-229 for the ITM-T20NPB and ITM-T20NPB-ADL for detailed cable information.

Notice:

This device is in compliance with **FMVSS403** Paragraph S6.10.2.2:

“S6.10.2.2 Operation of the platform lift from the stowed position until forward or rearward mobility of the vehicle is inhibited, by means of placing the transmission in PARK or placing the transmission in NEUTRAL and actuation the PARKING BRAKE or VEHICLE SERVICE BRAKES by means other than the operator depressing the service brake pedal. Verification with this requirement is made throughout the lift operations specified in S7.9.2 and S7.9.3.”

Mechanical Drawing

