

	<b>Model ITM-123 Platform Lift Interlock 2009 Ford E-Series</b>
--	---

**A. Product Description**

This product is intended for installation in 2009 Ford E-Series chassis with FMVSS 403 compliant, public use (commercial) platform lifts manufactured by The Braun Corporation, Ricon Corporation or Maxon Mobility. If another type of lift is to be used, contact the lift manufacturer to determine its compatibility. The ITM123 interlock system consists of a control module, remote driver's LED display, and a chassis wiring harnesses. The control module is a solid state, non-microprocessor-based control device. It contains two connectors for interfacing to the remote LED display and chassis wiring harness. It also contains 2 extra door inputs to monitor the status of the Driver's door and Passenger door. These 2 door inputs will flash the DOOR AJAR indicator on the Remote Display Panel but will not enable the Lift. The chassis harness contains two "plug and play" tee-cables that connect to the parking brake switch and shift lock solenoid that are both located under the dash. The wiring harness contains a set of 18 inch blunt-cut wires for interface to the platform lift system, the door switches, and 12 volt power.

**B. Interlock System Operation**

The interlock system is powered from the Interlock Power Switch and the Ignition Switch when they are both in the On position. The following is the interlock system sequence of operation:

- Step 1* - With the interlock powered on, place the transmission in the Park.
- Step 2* - Set the parking brake.
- Step 3* - Open the lift door. When opened, the transmission 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 Door Ajar indicator on the remote driver's display will flash.
- 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 completed 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 vehicle can be taken out of Park and driven.

**Notes:**

1. Any time the interlock system is powered (e.g., Ignition switch on), the shift lock will be activated when the parking brake is set OR when the lift door is opened.
2. The Door Ajar indicator on the driver's LED display will flash when the lift door, driver's door or passenger door is open/ajar (not fully closed).
3. The lift door switch is used by the interlock systems logic as well as to activate the Door Ajar indicator. The driver's door and passenger door switches are only used to activate the Door Ajar indicator.

Continued...

	<b>Model ITM-123 Platform Lift Interlock 2009 Ford E-Series</b>
--	---

**A. Product Description**

This product is intended for installation in 2009 Ford E-Series chassis with FMVSS 403 compliant, public use (commercial) platform lifts manufactured by The Braun Corporation, Ricon Corporation or Maxon Mobility. If another type of lift is to be used, contact the lift manufacturer to determine its compatibility. The ITM123 interlock system consists of a control module, remote driver's LED display, and a chassis wiring harnesses. The control module is a solid state, non-microprocessor-based control device. It contains two connectors for interfacing to the remote LED display and chassis wiring harness. It also contains 2 extra door inputs to monitor the status of the Driver's door and Passenger door. These 2 door inputs will flash the DOOR AJAR indicator on the Remote Display Panel but will not enable the Lift. The chassis harness contains two "plug and play" tee-cables that connect to the parking brake switch and shift lock solenoid that are both located under the dash. The wiring harness contains a set of 18 inch blunt-cut wires for interface to the platform lift system, the door switches, and 12 volt power.

**B. Interlock System Operation**

The interlock system is powered from the Interlock Power Switch and the Ignition Switch when they are both in the On position. The following is the interlock system sequence of operation:

- Step 1* - With the interlock powered on, place the transmission in the Park.
- Step 2* - Set the parking brake.
- Step 3* - Open the lift door. When opened, the transmission 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 Door Ajar indicator on the remote driver's display will flash.
- 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 completed 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 vehicle can be taken out of Park and driven.

**Notes:**

1. Any time the interlock system is powered (e.g., Ignition switch on), the shift lock will be activated when the parking brake is set OR when the lift door is opened.
2. The Door Ajar indicator on the driver's LED display will flash when the lift door, driver's door or passenger door is open/ajar (not fully closed).
3. The lift door switch is used by the interlock systems logic as well as to activate the Door Ajar indicator. The driver's door and passenger door switches are only used to activate the Door Ajar indicator.

Continued...

## InPower Model ITM-123 Ford Interlock System

### C. Troubleshooting Tips

1. Obtain the appropriate service/maintenance manual from the platform lift manufacturer (.e.g., Braun, Ricon or Maxon).
2. Obtain the InPower ITM123 interlock system owners manual, document OM-73. This can be supplied by the vehicle manufacturer that installed the lift and interlock, or from InPower's web site, [www.InPowerLLC.com](http://www.InPowerLLC.com).
3. If you experience a problem with the platform lift system, first isolate the problem to the platform lift or the interlock system.
4. If the interlock system operates properly but fails to release the shift lock at the end of the cycle (can't shift out of PARK), the likely cause is an incorrect operation of the lift door switch. These inputs to the interlock can be tested by using the diagnostic LEDs on the ITM123 Remote Display Panel (see Owners manual OM-73 for details).

### D. Reference Information

#### Ford Motor Company

Truck Body Builder Advisory Service  
Product Development Center, MD 410  
PO Box 2053  
Dearborn, MI 48121-2053  
1-877-840-4338  
[www.fleet.ford.com/truckbbas/index.htm](http://www.fleet.ford.com/truckbbas/index.htm)  
[bbasqa@ford.com](mailto:bbasqa@ford.com)

#### The Braun Corporation

631 West 11th Street  
Winamac, IN 46966  
(574) 946-6153  
(800) 946-6158  
[www.braunlift.com](http://www.braunlift.com)

#### Ricon Corporation

7900 Nelson Road  
Panorama City, CA 91402  
(818) 267-3038  
(800) 322-2884  
[www.riconcorp.com](http://www.riconcorp.com)

#### Maxon Lift Corp.

11921 Slauson Avenue  
Sante Fe Springs, CA 90670  
(562) 464-0099  
(800) 227-4116  
[www.maxonlift.com](http://www.maxonlift.com)

#### InPower Reference:

InPower LLC  
3555 Africa Road  
Galena, Ohio 43021 U.S.A.  
Tel: 740-548-0965  
Fax: 740-548-2302  
Web site: [www.InPowerLLC.com](http://www.InPowerLLC.com)

#### Warranty:

InPower LLC warrants its products to be free from defects in material and workmanship under normal use, care and maintenance for a period of two years from data of shipment. Please contact InPower for a copy of our warranty policy and our returns policy.

For full ITM123 interlock system product information see Owners Manual, Document number OM-73.

## InPower Model ITM-123 Ford Interlock System

### C. Troubleshooting Tips

1. Obtain the appropriate service/maintenance manual from the platform lift manufacturer (.e.g., Braun, Ricon or Maxon).
2. Obtain the InPower ITM123 interlock system owners manual, document OM-73. This can be supplied by the vehicle manufacturer that installed the lift and interlock, or from InPower's web site, [www.InPowerLLC.com](http://www.InPowerLLC.com).
3. If you experience a problem with the platform lift system, first isolate the problem to the platform lift or the interlock system.
4. If the interlock system operates properly but fails to release the shift lock at the end of the cycle (can't shift out of PARK), the likely cause is an incorrect operation of the lift door switch. These inputs to the interlock can be tested by using the diagnostic LEDs on the ITM123 Remote Display Panel (see Owners manual OM-73 for details).

### D. Reference Information

#### Ford Motor Company

Truck Body Builder Advisory Service  
Product Development Center, MD 410  
PO Box 2053  
Dearborn, MI 48121-2053  
1-877-840-4338  
[www.fleet.ford.com/truckbbas/index.htm](http://www.fleet.ford.com/truckbbas/index.htm)  
[bbasqa@ford.com](mailto:bbasqa@ford.com)

#### The Braun Corporation

631 West 11th Street  
Winamac, IN 46966  
(574) 946-6153  
(800) 946-6158  
[www.braunlift.com](http://www.braunlift.com)

#### Ricon Corporation

7900 Nelson Road  
Panorama City, CA 91402  
(818) 267-3038  
(800) 322-2884  
[www.riconcorp.com](http://www.riconcorp.com)

#### Maxon Lift Corp.

11921 Slauson Avenue  
Sante Fe Springs, CA 90670  
(562) 464-0099  
(800) 227-4116  
[www.maxonlift.com](http://www.maxonlift.com)

#### InPower Reference:

InPower LLC  
3555 Africa Road  
Galena, Ohio 43021 U.S.A.  
Tel: 740-548-0965  
Fax: 740-548-2302  
Web site: [www.InPowerLLC.com](http://www.InPowerLLC.com)

#### Warranty:

InPower LLC warrants its products to be free from defects in material and workmanship under normal use, care and maintenance for a period of two years from data of shipment. Please contact InPower for a copy of our warranty policy and our returns policy.

For full ITM123 interlock system product information see Owners Manual, Document number OM-73.