

## **PRO-FIT Linear Fuel Doors** **Ford Focus – Installation Instructions**

### Tools you will need:

- Ratchet set
- Flathead screwdriver
- Drill and drill bits (for electric locking fuel door only)
- Small file
- Degreaser
- Clear Rags

### Parts list (items not to scale):



1) Fuel door with pull cable attached (pull cable is on electric locking fuel door only)	2) Wiring harnesses (long and short) with actuator (electric locking fuel door only)	3) L-bracket (x 4)	4) Washer (x 4)
5) Nylock nut (x 4)	6) Long hex bolt (x 4)	7) Short hex bolt (x 6)	8) Fuse taps (3 sizes – electric locking fuel door only)
9) Fuse (electric locking fuel door only)	10) Switch (electric locking fuel door only)	11) Sticky pads (electric locking fuel door only)	12) Tie wraps (electric locking fuel door only)
13) Gas cap	14) Wrenches	15) Black strip caulk (not pictured)	

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#### **Prep**

WARNING: Do not perform this install near a flame source due to the risk of fire or explosion from gas fumes.

Use a jack to lift rear of vehicle. Remove the passenger side rear tire. Remove the wheel well cover to expose the fuel filler neck behind the quarterpanel.

Note: For manual locking or manual non-locking fuel doors, do steps 1-4 only. For electric locking fuel doors, do all steps.

#### **Step 1 – Remove stock fuel door**

Remove the stock fuel door and plastic surround. The stock fuel door and plastic surround are a single unit. To remove, reach up behind the quarterpanel and release the tab at the top of the plastic surround. You may need to use a screwdriver to release the tab. Pull the stock fuel door and plastic surround straight out from the front.

#### **Step 2 – Bend tabs**

Bend the four tabs around the quarterpanel hole slightly inward using the back of a screwdriver handle or other blunt object. This is to allow clearance for the back of the fuel door ring (Fig. 1, black arrows).

#### **Step 3 – Shift fuel filler neck**

In order for the fuel door linear mechanism to function correctly, it must clear the metal collar surrounding the fuel filler neck (Fig. 5, arrow shows contact between the linear mechanism and collar). The fuel filler neck must be shifted to the left (towards the rear of the car) to make room (Fig. 1, white arrow).

Loosen the 2 bolts holding the fuel filler neck to the body (Fig. 2 and 3, arrows) and shift the entire fuel filler neck towards the rear of the vehicle. Retighten.

Check clearance by test fitting fuel door (Fig. 4). If there is still a clearance problem (Fig. 5), repeat the loosen bolts/shift neck/tighten bolts procedure. If necessary, elongate the holes on the brackets holding the fuel filler neck with a small drill or round file (Fig. 2 and 3, arrows).

#### **Step 4 – Attach fuel door**

Remove stock gas cap. **WARNING – Do not perform the install near a flame source. Ensure adequate ventilation of gas fumes.** Stuff opening with a small rag to prevent small items from falling into the gas tank. Insert the 4 long hex bolts into the ring as shown (Fig. 6, black arrows). Attach the L-brackets to the bolts from behind the fuel door ring. Fig. 7 shows the proper L-bracket orientation for the top left hex bolt.

Attach a washer and nylock nut. Tighten using the supplied wrenches as shown (Fig. 8).

Insert the short hex bolts into the remaining ring holes.

Insert the replacement gas cap. Note that this gas cap has a trap door in the middle to allow fueling up without removing the cap.

#### **Step 5 – Mount and attach actuator**

Position the pull cable so that it goes up and over the wheel well towards the front of the car (Fig. 9, arrow). Mount the end of the pull cable into the slot on the end of the actuator bracket (Fig. 10). Remove the screw on the end of the actuator. Thread the screw through the eyelet at the end of the pull cable, then screw back in. Note that the screw is not tightened completely. Find a flat spot on the car body to mount the actuator (Fig. 9, arrow) with the screw-end of the actuator facing up. Clean the area thoroughly with alcohol or other degreaser, then peel the backing and

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attach the actuator, pressing firmly.

**Step 6 – Route wiring harness into passenger compartment**

Place the sticky pads along the bottom of the vehicle on the passenger side, making sure to space them evenly and in a straight line. Clean the area with alcohol before attaching the sticky pads. The wiring harness will enter the passenger compartment near the feet of a person sitting in the front passenger seat.

Thread a tie wrap through the slits on the sticky pad, lay the wiring harness over the pad, then loop the tie wrap around the harness and tighten.

Remove passenger side door sill trim and kick panel. Pull back carpet in front of the passenger seat.

Locate the small plastic cap underneath the vehicle, in the front area for the front passenger seat (Fig. 10, arrow). Drill a hole through this cap and route the wiring harness up through the cap, making sure to pull all of the slack (Fig. 11). Seal the opening with the supplied black caulk.

Route wiring harness up through the kick panel area and behind the glove box.

Connect the black wire to a ground source, like the car body.

**Step 7A (Optional) – wiring into stock alarm remote**

If you have the stock alarm remote, you can use the trunk release button to trigger your fuel door instead of your trunk lid. If you wish to use the supplied switch, jump to Step 7B.

To use the remote: (1) Remove the glove box by unscrewing the 2 screws along the bottom edge. (2) Remove the kick panel. (3) Locate the computer box behind the kick panel. (4) Splice the fuel door wiring harness red wire to the GREEN wire with a WHITE STRIPE. (5) Open your trunk/hatch and remove the plastic panel near the latch. (6) Disconnect the trunk latch connector. From now on, use your key to open the trunk. Jump to Step 11.

**Step 7B – Mount the supplied switch**

Pull the glove box down by pressing the side walls of the glove box inward while opening.

Find a convenient spot for the fuel door switch, then drill a hole to mount the switch. Use a small flat file to shape the opening.

Attach the red wire on the long wiring harness to a terminal on either end of the switch. Attach the red wire on the short wiring harness to the center terminal on the switch. One end terminal is not used (Fig. 12).

**Step 8 – Route the short wiring harness to the fuse box**

Route the short wiring harness behind the center console, under the steering column, and to the fuse box, located to the left of the steering column.

**Step 9 – Tap into a fuse**

Remove the fuse panel cover to expose the fuses. The fuse layout is shown on the back of the fuse panel cover. Look for a fuse with a constant 12VDC fuse (for example, fuse F34 20A horn). Pull this fuse out and attach a fuse tap (Fig 13). Reinstall fuse and attach red wire from the short wiring harness to the fuse tap (Fig. 14).

**Step 10 – Test switch**

With the fuel door open, press the switch and listen for the actuator “click” which indicates that the switch is properly wired. Otherwise, check your connections to make sure that the switch has a constant 12VDC supply.

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Replace the fuse panel cover, door sill trim and kick panel.

**Step 11 – Test fuel door**

First make sure that the pull cable is not kinked and is connected to the actuator mounting bracket, with the eyelet attached to the actuator screw. Close the fuel door and trigger the door open. If the fuel door fails to open, manually pull on eyelet attached to the actuator until it opens. The fuel door should open and close smoothly. If not, check for clearance between the linear mechanism and the collar of the fuel filler neck.

**All done!**

Replace the wheel well cover and wheel and enjoy your new Pro-Fit Linear Fuel Door!

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**FIGURES**

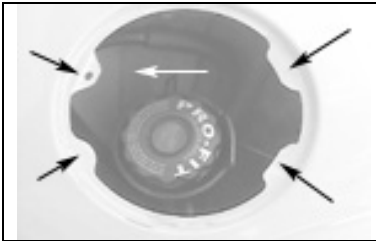


Fig. 1



Fig. 2

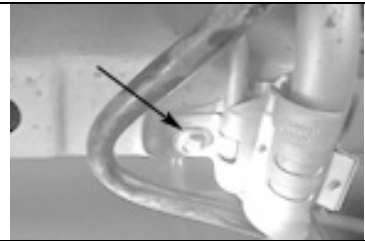


Fig. 3



Fig. 4

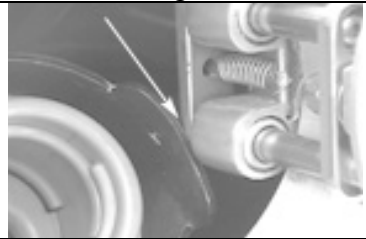


Fig. 5



Fig. 6

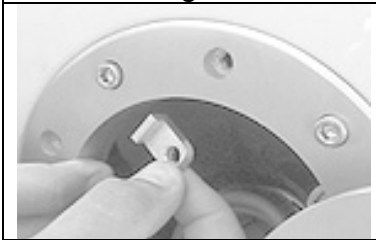


Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11

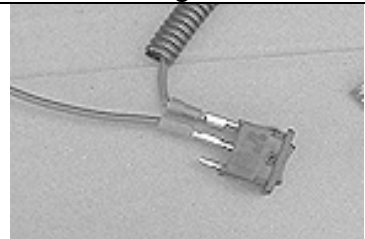


Fig. 12

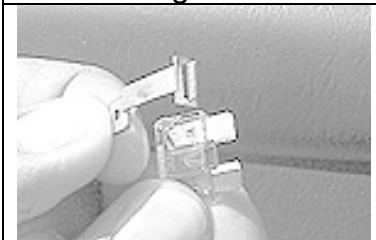
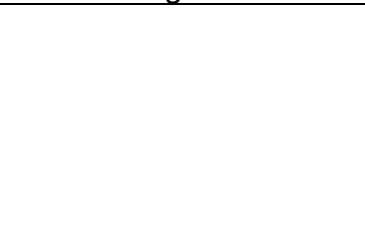


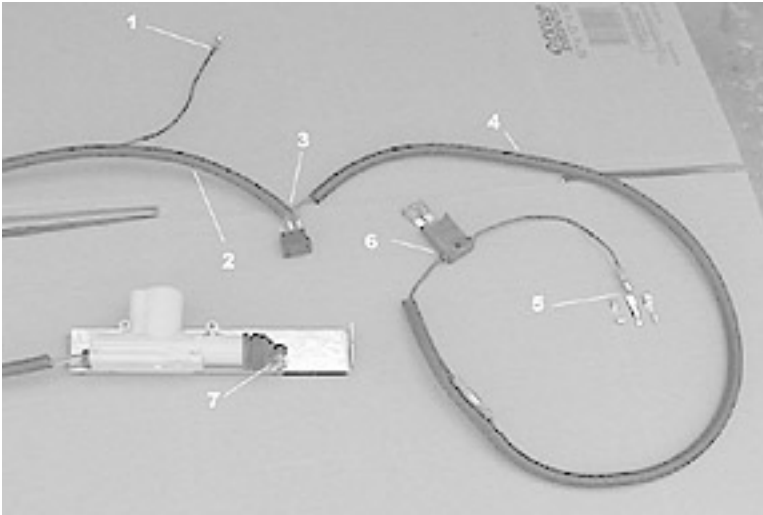
Fig. 13



Fig. 14



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Wiring Diagram

1. Ground wire
2. Wiring harness (long)
3. Switch
4. Wiring harness (short)
5. Fuse tap
6. Fuse and holder
7. Actuator