

Installation Instructions for *FORD FOCUS*



Tools & Materials Needed:

1. Utility Knife
2. Wire Crimper
3. Torx™ Wrenches
4. Hex Nut Drivers
5. Drill and Bits
6. Phillips Head Screw Driver
7. Crank Spring Removal Tool
(Special Tool, available at most
Auto Parts Stores) – or –
8. Flat Screw Drivers (2)
9. *Add-A-Circuit*™ fuse adapter
10. Silicon Sealant (Clear or Black)



Procedure: (Approximate time to complete installation: 3 - 4 hours)

A. Removing the Door Panel Coverings

1. For ease of installation, do both sides at the same time.
2. Roll the windows to approximately 1/2 open, and so the crank handle is in the Down Position. With either the Crank Spring Removal Tool, or a flat Screwdriver, remove the spring, located in a slot on the back of the crank.
3. Remove the cover plate for the remote-control mirror, which is held in place by 3 spring clips. Remove by gently pulling the front corner of the cover out, and then slide the cover back.
4. Remove the door Pull-handle cover, by inserting a screwdriver into the access hole on the bottom of the handle, and using the screwdriver as a lever, pop off the handle cover.
5. Remove the button covering a retaining screw in the interior door latch backing plate.
6. Remove the 8 Torx™ retaining screws around the perimeter of the door panel, and the single Torx™ retaining screw in the interior door latch.
7. Remove the 2 hex bolts in the door handle.
8. Gently lift the panel upwards, to disengage the window weather-strip molding.
9. Remove the Door Latch Trim Panel, be sure to unplug the Power Lock Switch, and remember how the wire was run.
10. Remove the interior door latch, by gently pulling out on the front corner, which is held in by a plastic compression spring.
11. Remove the Foam Arm Rest bolster, by unclipping the 4 plastic compression clips and the clip fasteners..
12. Remove the 4 Door Speaker screws, and disconnect the speaker.
13. Gently remove the *closed cell* Foam Cover from the doorframe, by pulling out, while cutting the rubber cement around the cover. Remove all but the front edge of the cover. This cover tears very easily, so use extreme care.

B. Removing the Manual Window Regulator

1. Temporarily re-attach the crank handle, and roll the window so that clamps (6, 7) on window are accessible through the voids in the door frame.
2. Loosen the glass clamp nuts (or bolts).
3. Roll the window all the way up, and lock in place by inserting a screwdriver into the small access hole at the top of the doorframe.
4. Remove the 4 Hex bolts (1, 2, 3) Before removing the last bolt (4), take up the weight of the glass, and remove the last bolt. Gently let the glass rest on the screwdriver.
5. Remove the manual regulator and tracks.

C. Installing the Electric Window Regulator

1. Align and install the Hex bolts (1, 2, 3, 4, and nut 5)
2. Loosen the glass clamp nuts (or bolts).
3. Gently let the glass rest in the Clamps.
4. Lightly tighten the glass clamp nuts (or bolts).

D. Wiring

1. Disconnect Positive Battery Terminal
2. Uncoil wiring harness, and position protective tubing (temporarily) over plug ends. This aids in running the wires.
3. For the Driver's door, remove oval rubber grommet from door and round grommet from doorjamb, next to hinges.
4. Cut oval shaped hole in rubber grommets, just smaller than the wire.
5. Run the fat end of the wiring harness (the end with the most plugs) from inside vehicle, through hole in left wall, next to fuse panel, in the following sequence:
 - a. Through left wall
 - b. Through left wall grommet (round)
 - c. Through thick door grommet (oval)
 - d. Through Door into door frame
 - e. Out of doorframe in oval hole next to window-crank hole.
6. Open the Glove Box, and empty contents.
7. Compress the sides of the glove box, to allow the Glove box to open further and hang down, enabling access behind glove box.
8. Run the thin end (the end with the fewest plugs) up under the dash, through the space just below the heater controls, in the main console.
9. Continue to run the cable behind the glove box to the right side access panel.
10. (Optional) For ease of access, you can temporarily **move** the vehicle computer system. **Do Not Disconnect the computer cables!** Simply open the plastic clip holding the computer in place, leaving it connected, and gently lay it aside.
11. For the passenger's door, remove oval rubber grommet from door and round grommet from doorjamb, next to hinges.
12. Cut oval shaped hole in rubber grommets, just smaller than the cable.
13. Run the thin end of the wiring harness (the end with the fewest plugs) from inside vehicle, through hole in right wall, next to vehicle computer, in the following sequence:
 - a. Through right wall
 - b. Through right wall grommet (round)
 - c. Through thick door grommet (oval)
 - d. Through Door into door frame
 - e. Out of doorframe in oval hole next to window-crank hole.
14. Replace the Rubber Grommets on both sides, with the protective tubing running between the door and the doorjamb.
15. (Optional) Seal protective tubing to rubber grommet with Silicon Sealant.
16. Attach solderless connectors to blue and black wires of motor plugs.
17. Attach motor plug to motor.
18. Insert connectors into plugs, **carefully follow wiring diagram.**
19. Plug switches into wire the harness plugs that you have just assembled. **Double- Check wiring diagram for correct installation.**
20. Attach Ground (Brown) wire to retaining screw in top left corner of Fuse Box.
11. Cut in-line fuse from power supply (red) wire, and strip (expose) 1/4" of insulation off of wire end. Crimp exposed wire into *Add-A-Circuit*TM fuse adapter.
12. Plug *Add-A-Circuit*TM fuse adapter into 25-amp window circuit (if activated) or into another ignition activated 25-amp fuse. Replace fuses per *Add-A-Circuit*TM fuse adapter instructions.
21. Replace positive battery cable
22. Turn on ignition, hold your breath!

23. Test window operation. Checking alignment of glass clamps. Once glass is aligned, tighten glass clamp nuts completely.
24. Make sure lights are off.
25. Splice window switch light wire to any interior lighted appliance or switch. (I used the cigarette lighter, because it was the simplest to identify.)
26. Unplug fuse adapter
27. Unplug switches.

E. Attaching Switches to Door Panels

1. Using templates provided, place templates over manual regulator crank-hole in Door panel (Be sure to orient the templates so that the switches have the white arrow is facing up).
2. For left door panel, trace outline of inside hole for driver's side switch template so that crank hole is completely covered. Carefully cut plastic door panel along traced line.
3. For right door panel, enlarge the crank-hole to accommodate the switch plug, horizontally, towards the back of the door panel. (The crank-hole should be extended to the rear of the car, just long enough for the plug to fit).
4. Use Templates to drill mounting holes, with 1/8" drill bit.
5. Mount the switches per the templates, with screws provided.

F. Replacing the Door Panel Coverings

1. For ease of installation, do both sides at the same time.
2. Gently replace the *closed cell* Foam Cover onto the doorframe. Remember to run the Interior door latch cable through the slot. This cover tears very easily, so use extreme care.
3. Re-connect the speaker and, replace the 4 speaker screws.
4. Replace the interior door latch, by gently pushing in on the front corner, which is held in by a plastic compression spring.
5. Replace the Foam Arm Rest bolster, by clipping the 4 plastic compression clips and clip the fasteners.
6. Replace the Door Latch Trim Panel, be sure to plug in the Power Lock Switch, and remember how the wire was run.
7. Plug window switch into door plug.
8. Gently hook the window weather-stripping on the top of the panel to the slot between the window and the door frame. Start at the front, and work backwards.
9. Replace the 2 hex bolts in the door handle.
10. Replace the 8 Torx™ retaining screws around the perimeter of the door panel, and the single Torx™ retaining screw in the interior door latch.
11. Replace the button covering the retaining screw in the interior door latch backing plate.
12. Replace the door Pull-handle cover, by popping on the handle cover.
13. Replace the cover plate for the remote-control mirror, which is held in place by 3 spring clips. Replace by gently hooking the back to clips into the slots, and then pushing the front corner of the cover in so the clip engages the slot.
14. Plug in the fuse Adapter.
15. Turn on ignition
16. Marvel at the smooth operation of your new Power Windows!