

# **B & D INDEPENDENCE INSTALLATION INSTRUCTIONS**

## **MODEL 041 POWER SEAT BASE FORD ECONOLINE FACT. PWR. SEAT**

### **Mechanical Installation Part #1**

- 1.) Before removing factory seat and base from vehicle, run the seat as far forward as possible. Take measurements from the dash to the front of the seat cushion. Remove factory seat and base from vehicle as one unit.
- 2.) Remove, **AND DISCARD, the Adjustable Shipping Stop** from the Power Seat Base; it was installed on the slide gear bar for shipping purposes **ONLY** and is not to be re-used ( damage will occur to slide motor if re-used as a Horizontal Adjustable Stop ). Set Power Seat Base on table. Unplug swivel motor wires; let switch box and swivel motor wires hang off to right side of Power Seat Base.
- 3.) Remove factory seat from factory base. Apply temporary power & ground to the factory seat. Trim both side panels to clear Power Seat Base while swiveling, and to clear switch box mounting bracket.
- 4.) A slot needs to be cut into the right vertical flange of the factory power seat mechanism; the right vertical flange is made out of aluminum. Drill a hole as shown on the back of this page, and then saw-cut up to the hole. This slot is where the 16/2 grey duplex wire for the swivel motor will be routed.
- 5.) Install factory seat onto B & D base at this time. Attach with supplied hardware on right side, and OEM nuts for seat studs on left side.
- 6.) Attach Double 90° Switch Box Mounting Bracket to the right vertical flange of the factory power seat mechanism. Do this by removing the 2 remaining M10 bolts on the right vertical flange; these 2 remaining bolts hold an OEM drive screw guide to the vertical flange. Attach the Double 90° Switch Box Mounting Bracket to the outside of the vertical flange by re-installing the 2 removed M10 bolts. When tightening the two M10 bolts, be sure to push up on the OEM drive screw guide so the bottom of the OEM drive screw guide is flush with the bottom of the vertical flange. Rotate switch box to make sure cable loop stands away from the base and its legs.
- 7.) Route the swivel motor wires as follows: back of the switch box to the slot in the vertical flange from Step #4 above, rearward to the top side of the right rear seat mounting bracket, double wire-tie motor wires to right rear seat mounting bracket ( make sure the wires are routed completely away from the OEM drive screw ), loop across the rear of the Top Plate Assembly, wire-tie to #10-32 UNF swivel motor mounting bolt, and plug into swivel motor.
- 8.) Set B & D Power Seat Base and factory power seat, as 1 unit, in vehicle. Slide base as far forward as possible without touching the Module on the floor.
- 9.) Adjust and position the B & D transfer base so the front of the seat is the same distance from the dash as the factory seat and base were located. The seat back needs to be positioned in its full-upright position, not reclined.
- 10.) Apply temporary Power and Ground to the Power Seat Base; run the Power Seat Base to its full rearward position. Do not raise or swivel the base at this time.

### **Electrical Installation**

- 1.) In the vehicle engine compartment, remove “+” battery cable from battery. Attach the ring terminal of the Power Supply Wiring Harness Assembly to the battery terminal and re-install “+” battery cable. Route and secure the red 10 Ga. wire with the fuse holder to the vehicle chassis. **Important Installation Note: Do Not Route The Red 10 Ga. Wire Near Heat Sources Or Moving Objects Either Under The Hood Or Under The Dash.**
- 2.) In the vehicle engine compartment, locate a wiring grommet on the firewall that leads to behind the dash. Insert the end of the red 10 Ga. wire (without a wiring terminal), of the supplied Power Supply Wiring Harness Assembly, through the grommet to behind the dash.
- 3.) Route the red 10 Ga. wire from behind the dash to the driver side of the vehicle, and across to the Coil Cable at the end of the slide gear bar. Crimp the supplied yellow insulated female spade connector to the end of the red 10 Ga. wire; connect to the Coil Cable. May want to cover red 10 Ga. wire from under the dash to base with convoluted tubing, and make sure wire is routed out of the way of feet.

(Continue on reverse)

# B & D INDEPENDENCE INSTALLATION INSTRUCTIONS

## MODEL 041 POWER SEAT BASE FORD ECONOLINE FACT. PWR. SEAT

### Mechanical Installation Part #2

- 1.) Adjust the factory seat to its center position; either by power or manually. Manually swivel the seat to point straight forward in the vehicle. While running the seat base forward from the full-back position, check for clearance on the following items:
  - The side of the seat to the "B" pillar behind the driver door (1/4" to 1/2" clearance).
  - Slide Motor Plate Assembly & Bottom Plate to the Module on the floor. (1/4" to 1/2" clearance)
- 2.) Run the base to its full rearward position.
- 3.) Manually swivel the seat ( NOT BY POWER ) and check the distance between the back of the seat and the side of the van; the seat back should not hit the side of the van with the seat back in it's full-upright position. If the seat back hits the side of the vehicle with the seat swiveled, move the rear of the seat base towards the center of the vehicle for clearance. Also run the base to its full UP position and re-check clearances.
- 6.) Check undercarriage of vehicle, in vicinity of mounting bolts for seat base, for fuel lines, wiring, etc.... before drilling. Drill and mount seat base to floor using supplied : 1/2" spacers between floor and base, and the Installation Bolt Kit ( 4 - 3/8"-16UNC x 2" Grade 5 Hex Head Bolt, 4 - 3/8"-16UNC Hex Nut, 4 - 7/16" Flat Washer, 4 - 1/2" Fender Washer, 4 - 3/8" Lock Washer ). **Important Installation Note:** Seat base rails must be level from front to rear and side to side; locating rails other than the above specified will cause binding and jamming of seat base.
- 4.) Swivel seat to full-forward position; run seat base to full-down and full forward positions. Align the seat straight to the centerline of the steering wheel and square to the dash. Double-check that the swivel gear has not moved; make sure swivel gear is against its positive stop. Run the base rearward to clear the steering wheel and raise base as far as it will go. Drill 1/4" diameter hole through the swivel lock bar hole UP through the center plate at rear of seat. Fasten with supplied 1/4"-20 UNC Grade 5 bolt and nut.
- 7.) Have driver position the seat in desired forward position. If this desired forward position is not against the stop bolts in the slide rails, appropriate length spacer blocks need to be manufactured and installed in the slide rails.
- 8.) Extend and route all OEM wires that attach to the OEM seat from the vehicle.

### Correct Driving Position.

**The recommended driving position of the seat base while the vehicle is in motion is the FULLY FORWARD POSITION AGAINST THE HORIZONTAL STOP BOLTS IN THE SLIDE RAILS.**

3/8" Drill

Switch Box Bracket  
Attaches Here

Rear

Front

Saw Cuts