

Bolt-In Seat Base Installation Instructions

Mechanical Installation Part #1.

- 1.) Before removing the factory seat and pedestal from the vehicle, run the seat to it's full forward and downward (if applicable) position. Take measurements from the dash and/or steering wheel to the front of the seat cushion; these measurements are where the seat will be re-positioned to. Remove factory seat and pedestal from vehicle as one unit.
- 2.) On the B & D transfer seat base using the bolts provided, mount the switch box to the top plate by rotating the switch box to make sure the cable loop stands away from the base and it's legs (if applicable).
- 3.) Remove the Horizontal Adjustable Stop that is clamped to the slide gear bar. It is installed in this position for shipping purposes. This Stop MAY be re-used upon final installation of the seat base.
- 4.) The B & D seat mounting system consists of 4 bars at the front of the base and 2 bars at the rear. Remove the factory seat and slides from the factory pedestal. Install the factory seat and slides onto the B & D rear 2 mounting bars first; then install front of seat onto the B & D front 4 mounting bars.
- 5.) Determine if the seat belt receptacle is Integrated into the OEM seat, or mounted on the factory pedestal.
 - If the seat belt receptacle is Integrated into the OEM seat, LEAVE IT THERE !! DO NOT RE-LOCATE IT !!
(Remove seat belt bracket from top plate & discard : it is not needed for this seat configuration)
 - If the seat belt receptacle is mounted on the factory pedestal, remove the receptacle and attach it to the supplied seat belt bracket already installed on the top plate. Adjust the seat belt bracket so the seat belt receptacle just clears the side of the OEM seat; this may require cutting and/or drilling additional holes in the bracket.
- 6.) Place the B & D transfer seat base, with the OEM seat installed on top of it, into vehicle.

Electrical Installation.

- 1.) Remove the negative terminal from the vehicle battery.
- 2.) In the vehicle engine compartment, attach the ring terminal of the Power Supply Wiring Harness Assembly to the “+” battery terminal. 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.

- 3.) 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. Run the wire to the general vicinity of the seat base wiring harness.
- 4.) The B & D transfer seat base gets it's electrical system “ground” from the bolts that go through the floor. Since the seat base is not permanently attached at this time, install a temporary ground wire to the seat base.
- 5.) Temporarily install the power wire to the transfer seat base wiring harness.
- 6.) Re-install the negative terminal on the vehicle battery.

Mechanical Installation Part #2.

- 1.) Run the transfer seat base to the full-forward position. Adjust and position the transfer seat base so the front of the seat is the same distance from the dash as the seat and pedestal were originally located. The seat back needs to be in it's full-upright position, not reclined. Then, run the OEM seat to the full-rearward & full-up position.
- 2.) Run the transfer seat base to the full-back position, and if applicable, as far 'up' as possible.
- 3.) Using a pair of small needle-nose Vise-Grips (release handle 'up' to clear center plate), clamp the top plate to the Lock Bar. Swivel the seat (by power) to the side by pushing rearward on the rear-most toggle switch on the switch box, 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 transfer seat base towards the center of the vehicle for clearance.
- 4.) Swivel the seat forward as far as it will go by pushing forward on the rear-most toggle switch on the switch box; continue activating toggle switch until seat base completely stops turning; the seat base is now against it's Positive Stop. Run the transfer seat base to full-down and full-forward positions.
- 5.) Remove Vise-Grips and MANUALLY swivel the OEM seat to align the seat straight to the centerline of the steering wheel and square to the dash. Note here : during the welding assembly process at B&D, the top plate & the lock bar may have 'stuck' together from the welding arc passing through the parts; some force may be required to 'unstuck'.
- 6.) Run the OEM seat forward on it's sliders (apply temporary power & ground to the OEM seat if applicable). Drill a ¼” diameter hole through the lock bar and top plate at rear of seat. Fasten with ¼”-20 UNC Grade 5 bolt and nut.
- 7.) Double check measurement from seat to dash. Install one ½” spacer between the floor & seat base at all 4 corners.
- 8.) Important Installation Note : Seat base rails must be level from front to rear and side to side; installing rails other than this will cause binding and jamming of transfer seat base.
- 9.) 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 the supplied Installation Bolt Kit (4 - ¾”-16UNC x 2” Grade 5 Hex Head Bolt, 4 - ¾”-16UNC Hex Nut, 4 - 7/16” Flat Washer, 4 - ½” Fender Washer, and 4 - ¾” Lock Washer).

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Mechanical Installation Part #2 (continued).

- 10.) If the supplied 3/8"-16UNC x 2" Grade 5 bolts are not long enough, use longer bolts with Grade 5 hardness. (Grade 8 is not required)
- 11.) After the transfer seat base is completely installed to the vehicle's floor, cut the red 10 Ga. wire to length to reach the connector on the seat base wiring harness; then crimp the supplied yellow insulated female spade connector to the end of the red 10 Ga. wire. Permanently connect the red 10 Ga. wire to the seat base wiring harness.
- 12.) Have the driver position the transfer seat base in the desired forward position. Most of the time, the driver will want the seat base as far forward as possible to have the MAXIMUM horizontal travel possible from the transfer seat base (farther back from the gear bar mount equals that much LESS horizontal travel). If the driver desires the transfer seat base to be positioned back away from the gear bar mount, install and tighten the supplied Horizontal Adjustment Stop Block on the slide gear bar.

Correct Driving Position.

The recommended driving position of the seat base while the vehicle is in motion is :

- **FULLY FORWARD AGAINST THE HORIZONTAL STOP BLOCK, OR GEAR BAR MOUNT**
- **ANY VERTICALLY ADJUSTED POSITION (all the way up or down, or anywhere in between)**
- **SWIVELED STRAIGHT FORWARD AGAINST THE POSITIVE STOP**

Correct Operation of Toggle Switches on B & D Switch Box

To Transfer From the Steering Wheel to the Wheelchair or Scooter

- Push rearward on front toggle switch. Release when all the way back.
- Push rearward on middle toggle switch (if applicable) to raise transfer seat base to desired position.
- Push rearward on rear toggle switch to swivel the seat to point sideways.

To Transfer From the Wheelchair or Scooter to the Steering Wheel

- Push forward on rear toggle switch, until the seat stops, to swivel the seat to point straight ahead.
- Push forward on middle toggle switch (if applicable) to lower transfer seat base to desired position.
- Push forward on front toggle switch. Release when all the way forward.

Important Items to Note Here :

WHILE SWIVELED, DO NOT RAISE OR LOWER TRANSFER SEAT BASE !!!

WHILE SWIVELED, DO NOT MOVE TRANSFER SEAT BASE BACK & FORTH !!!

((Damage will occur to the transfer seat base, and is not covered by warranty))

OEM Wiring Harness Extension & Installation.

- 1.) B & D does NOT supply wiring harness extensions.
- 2.) B & D does NOT recommend connecting OEM factory power seats to the B & D electrical system.
- 3.) B & D recommends extending ALL wires going to the OEM seat. "Fault" lights may illuminate on the dash if wires are not re-connected.
- 4.) B & D recommends extending the OEM seat wiring harness, NOT the vehicle wiring harness. It is easier to replace a seat harness than a complete vehicle harness, if a mistake is made.
- 5.) The longest length of wire harness required is :
 - when the transfer seat base is in the FULL-REARWARD, FULL-UP, and NOT SWIVELED, **AND**
 - the OEM seat is all the way forward and raised up all the way (if factory power seat).
 - usually 36" or less.
- 6.) Suggested Ideal Routing of the OEM Harness Extension.
 - Run seat base as far rearward and as far up as possible in the vehicle.
 - Have the OEM seat all the way forward and raised up all the way.
 - Route from the center of the transfer seat base top plate towards the rear outboard corner of the top plate.
 - Attach harness at this location.
 - Choose a location somewhere along the side of the slide rails on the floor.
 - Hold harness extension there while operating transfer seat base to full down, full forward position.
 - Note the size of the 'loop' created by the harness extension.
 - "Experiment" by moving the location of the harness on the slide rails to find the smallest loop.
 - Secure harness.
 - Disconnect the vehicle's battery prior to re-connecting the harness extension to the vehicle harness.