

IBP Installation Instructions for HO Bostrom ABTS Seats

WARNING

Failure to read and follow these instructions could cause serious injury or death.

What is the IBP and how does it work?

In the event of a rollover, the IBP deploys at certain static seating positions. The IBP deploys, retracting the cable and buckle, removing slack from the belt.

The IBP is only effective when you wear your seat belt. **ALWAYS WEAR YOUR SEAT BELT.**

Important Facts

PLEASE READ THIS ENTIRE GUIDE BEFORE INSTALLING THE IBP.

- The IBP is to be used in a specific vehicle application and seating position.
- Always use and follow vehicle manufacturer's installation guide. This installation guide should only be used in addition to the vehicle manufacturer's guide.
- Use only SAE Grade 5 or 8, 7/16-20 UNF-2A fasteners. Use self-locking nuts only.

IBP Installation

1. **DO NOT PUNCTURE OR DRILL INTO THE IBP.**
2. **DO NOT ATTACH OR STORE ANYTHING ON TOP OF THE UNIT.**
Foreign objects could interfere with operation of the device.
3. **DO NOT APPLY HEAT.** Unit contains sensitive pyrotechnics. Extreme heat could cause damage to the unit.
4. Always disconnect vehicle batteries and remove vehicle key before accessing electrical connection.
5. **DO NOT SERVICE UNIT.** Take unit to authorized dealer for replacement.
6. The unit is designed to activate once. After the system activated or if it is damaged, the unit must be replaced by an authorized dealer.

Unpacking the IBP

1. Remove unit from main carton. There are up to 6 units per carton. See **Figure 1**.
2. If parts need to be returned, they must be returned in the original packaging.

Product Identification

1. Locate the product identification label. This is located on the top surface of the unit. See **Figure 2**.
2. Verify your unit is the proper system for your configuration by making sure the part number on the label matches the part number ordered for this installation.
3. If you feel you do not have the correct unit for your vehicle, contact IMMI at **866-765-5835**.

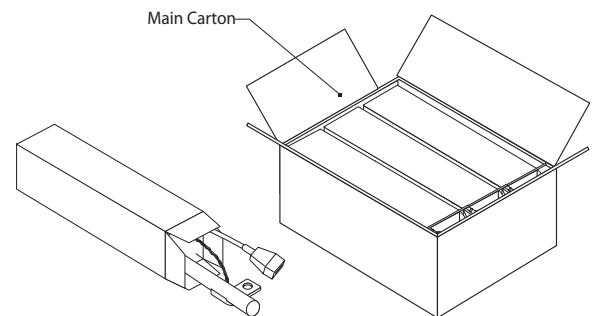


Figure 1



Figure 2

Mounting IBP to Vehicle

ALWAYS DISCONNECT VEHICLE BATTERIES AND TURN OFF VEHICLE SWITCH BEFORE PERFORMING INSTALLATION WORK.

1. The IBP is designed to be used with either ABTS seats or non-ABTS seats. The IBPs may be mounted onto the rear wall for jump seat applications.
2. Use only pre-drilled mounting holes.
3. Metal to metal contact is mandatory on all mounting points. If using backwall mounting, spacing bushers are required.
4. Determine which seat you have from the types described below and proceed as directed for that seat.

• H.O. Bostrom Sierra ABTS with 5" Adjust

- Prior to seat installation, place the IBP (A31802-028) under the rear seat mounting studs. See **Figure 3**. Make sure to use the $\frac{3}{4}$ " O.D. spacer between the slide mechanism and the IBP mounting bracket on left hand side.
- Proceed with installing the seat according to the OEM installation procedure.
- Proceed to Step 5.

• H.O. Bostrom Sierra ABTS with 5" Adjust and 8" Height Adjust

- Remove the two 10mm nuts that secure the slide mechanism to the height adjuster.
- Place the IBP (A31802-028) over the studs and reinstall the two 10mm nuts with the supplied $\frac{7}{16}$ " flat washers.
- Torque the two 10mm nuts to 36-41 ft/lbs. See **Figure 4**.
- Proceed to Step 5.

• H.O. Bostrom Sierra EX8 LH

- Adjust the seat to the rearmost adjust position.
- Remove the $\frac{7}{16}$ " retractor mounting bolt. See **Figure 5**.
- Remove the two $\frac{5}{16}$ " bolts from the support bracket.
- Remove the $\frac{7}{16}$ " bolt and spacer from the lower RH side of the seat.
- Place the IBP (A31802-027 Driver) to the seat and align the mounting holes to the locations of the bolts removed in the previous steps.
- Install the two $\frac{5}{16}$ " bolts back into the support bracket.

Do not tighten at this point.

- Install the $\frac{7}{16}$ " bolt and spacer on the lower RH side of the seat.

Do not tighten at this point.

- Install the retractor bolt back into the retractor.

Do not tighten at this point.

- Once all four bolts have been reinstalled, a) torque the $\frac{7}{16}$ " bolts to 35-45 ft/lbs and b) torque the two $\frac{5}{16}$ " bolts to 9-12 ft/lbs.
- Proceed to Step 5.

Figure 3

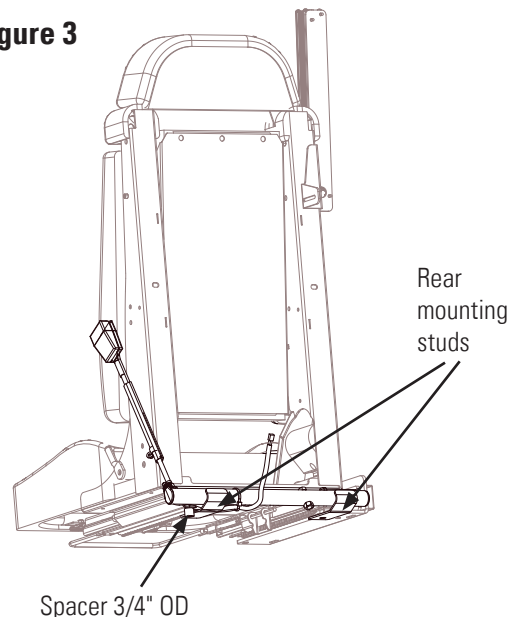


Figure 4

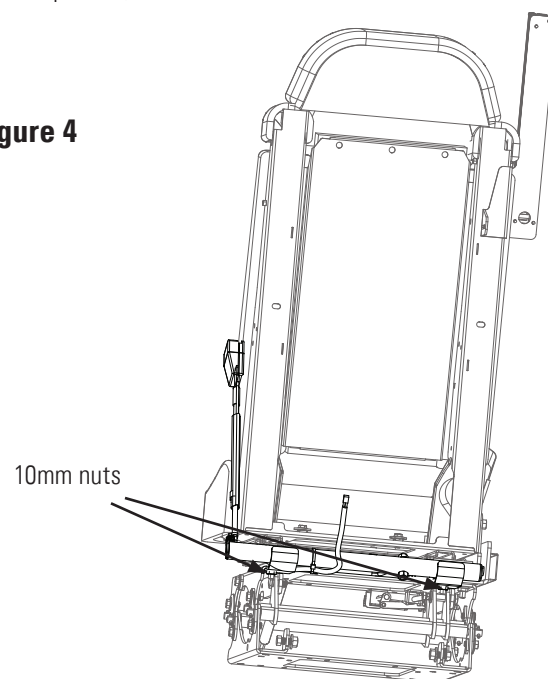
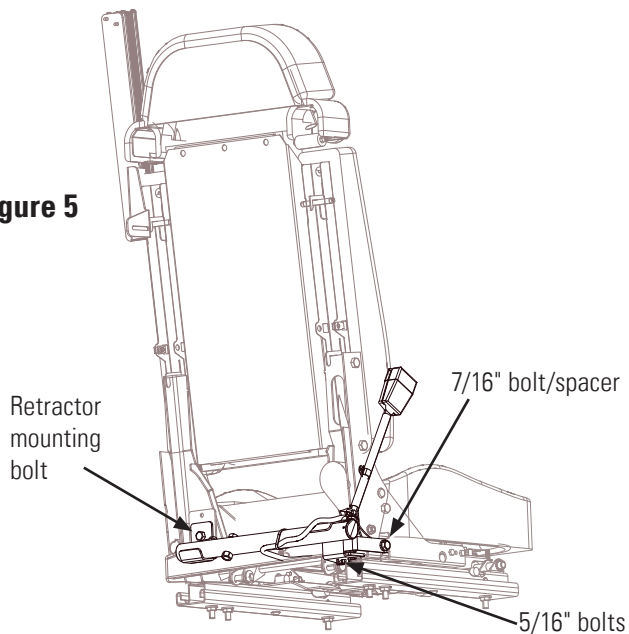


Figure 5



• H.O. Bostrom Sierra EX8 RH

- Adjust the seat to the rearmost adjust position
- Remove the 7/16" retractor mounting bolt. See **Figure 6**.
- Remove the two 5/16" bolts from the support bracket.
- Remove the 7/16" bolt and spacer from the lower LH side of the seat.
- Place the IBP (A31802-029 Officer) to the seat and align the mounting holes to the locations of the bolts removed in the previous steps.
- Install the two 5/16" bolts back into the support bracket.

Do not tighten at this point.

- Install the 7/16" bolt and spacer on the lower LH side of the seat.

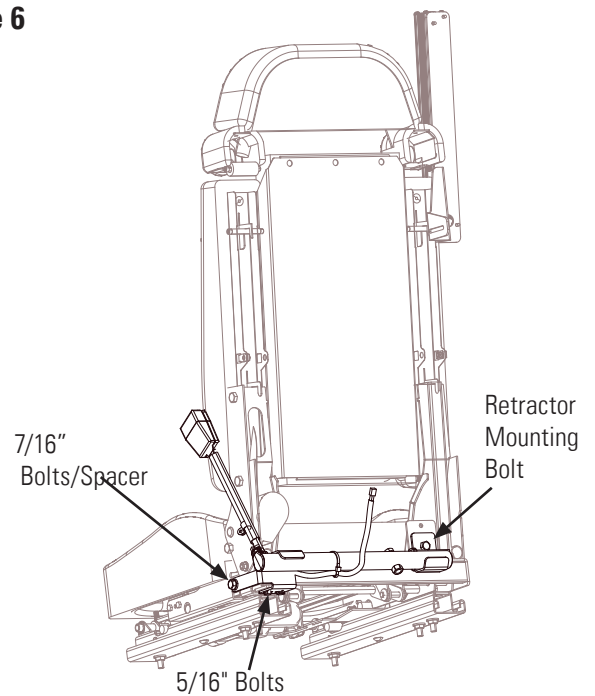
Do not tighten at this point.

- Install the retractor bolt back into the retractor.

Do not tighten at this point.

- Once all four bolts have been reinstalled, a) torque the 7/16" bolts to 35-45 ft/lbs and b) torque the two 5/16" bolts to 9-12 ft/lbs.
- Proceed to Step 5.

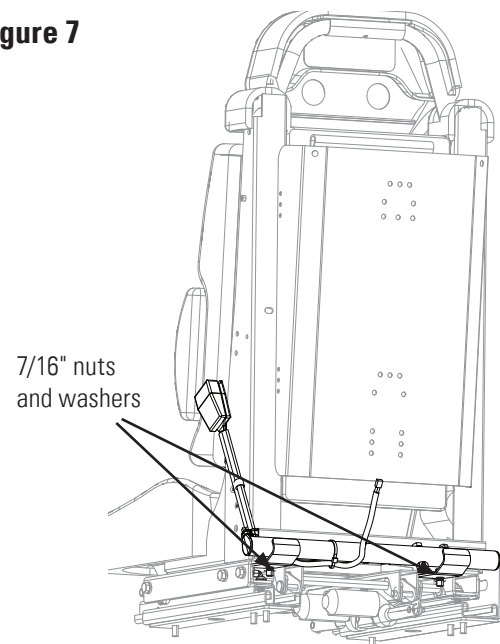
Figure 6



• H.O. Bostrom Tanker 450 EX6

- Loosen and remove the two 7/16" nuts, lock washers and flat washers that secure the upper seat module from the adjustable slide mechanism. See Figure 7.
- Place the IBP (A31802-030) on the two 7/16 bolts. Make sure wiring harness is free and not pinched under unit.
- re-install the two original 7/16" nuts and washers back on the 7/16" bolts. Tighten and torque to 35-45 ft/lbs.
- Proceed to Step 5.

Figure 7



5. DO NOT MAKE WIRING HARNESS CONNECTION TO UNIT AT THIS TIME.

- After IBPs are bolted into place, properly position cable buckles by using cable clamp supplied with IBP. See Figure 8. On certain ABTS seats, a small screw can be removed and used to secure cable clamp. If cable clamp cannot be used, then remove and discard clamp.

6. Electrical connection and test

- Ensure battery switch is OFF.
- Carefully plug IBP wiring harness to truck harness. Make sure connectors are snapped together.
- Verify that plug and connection are latched together.
- Verify no one is inside vehicle and all loose objects are clear of seat and surrounding area.
- Turn ignition key to the "on" position.
- From outside vehicle, connect battery negative cable and turn on battery switch (if equipped).

IMPORTANT FINAL SYSTEM INSPECTION

- Check ICP mounting on both sides of the seat.
- Check for proper buckle angle. Buckle's cable should not be kinked.

Figure 8

