

The Churchill

Attachment Bracket Assembly Installation Instructions



Merritt Manufacturing

Table of Contents

| | |
|---|----|
| Important Notes | 3 |
| Heavy Duty Tether Anchor Parts List and Materials Needed | 4 |
| Heavy Duty Tether Anchor Installation | 5 |
| Attachment Bracket Assembly Parts List | 10 |
| Attachment Bracket Assembly Installation | 12 |
| Limited Warranty | 14 |

Important Notes

NOTE: The Churchill is designed for use in vehicles equipped with lower anchors. In general, vehicles that are 2003 and newer do have the lower anchors. The Attachment Bracket Assembly is designed for use in older vehicles that are not equipped with lower anchors. Please refer to your vehicle owners manual to determine if your vehicle is equipped with lower anchors.

NOTE: Only use this Attachment Bracket Assembly with the Churchill.

NOTE: This instruction booklet describes the steps necessary to install the Attachment Bracket Assembly in vehicles that are not equipped with lower anchors.

NOTE: To use this product, you must have access to the seat bite from behind the selected vehicle seat (See arrow, Figure A).



Heavy Duty Tether Anchor Parts List and Materials Needed

Part's List



Materials Needed

- 3/8" Drill with 7/16" Drill Bit
- 5/8" Wrench
- 11/16" Wrench
- "Blue" or "red" LOCTITE

Heavy Duty Tether Anchor Installation

NOTE: We strongly recommend that the heavy duty tether anchor installation steps on pages 5-9 are performed by a mechanic at an adaptive mobility shop, conversion van facility, or comparable establishment.

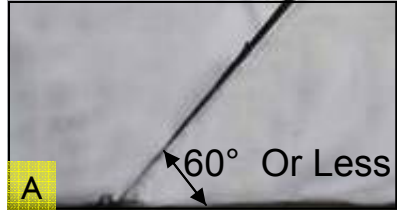
1. Determine the seating position in which you will install the Churchill.
2. Verify that you have access to the seat bite from behind the selected vehicle seat in which to insert the attachment bracket (See Arrow, Figure A).



3. Inspect the area behind the selected vehicle seat to determine the appropriate anchor location according to the following parameters:
 - The hole must be drilled through a plate in the floor that is structurally sound.
 - The anchor cannot be placed within 1 ½" of any other holes.
 - The anchor should be placed central to the installed Churchill, and shall not deviate from its centerline by more than 15 degrees.

Heavy Duty Tether Anchor Installation, Cont.

- The angle shown in Figure A, between the attachment bracket webbing and the floor of the vehicle, must be 60 degrees or less.



4. After deciding where to place the tether anchor, mark the appropriate spot for the hole to be drilled.
5. Inspect the underside of the vehicle to verify that there are no vehicle components (transmission lines, brake lines, gas tank, etc.) in the way of the hole to be drilled.



6. Drill a 7/16" hole completely through the floor board as shown in Figures B and C.



Heavy Duty Tether Anchor Installation, Cont.

7. Apply a thin layer of “blue” LOCTITE to the bolt’s threads (Figure D) to prevent loosening of the bolt from vibration. “Red” LOCTITE may be used instead, but will cause the assembly to be very difficult to remove.
8. Place the small (15/16” OD) washer and tether anchor bracket over the 7/16” bolt as shown in Figure E.
9. From inside the vehicle’s interior (or trunk if applicable), insert the bolt, with washer and bracket, (Figure F) through the hole drilled in Step 6.



Heavy Duty Tether Anchor Installation, Cont.

NOTE: For Steps 10-13, an additional person (located inside the vehicle) must hold a 5/8" wrench securely over the head of the bolt (Figure G).

10. From underneath the vehicle place the large (2 3/8" OD) washer over the shaft of the bolt (Figure H).

11. Screw the nut onto the shaft as far as possible by hand (Figure H).

12. Continue to screw the nut onto the shaft using an 11/16" wrench (Figure I) until just before the washer "seats" against the surface of the vehicle.

13. Use a torque wrench to tighten the nut to a value between 35 and 50 ft-lbs.

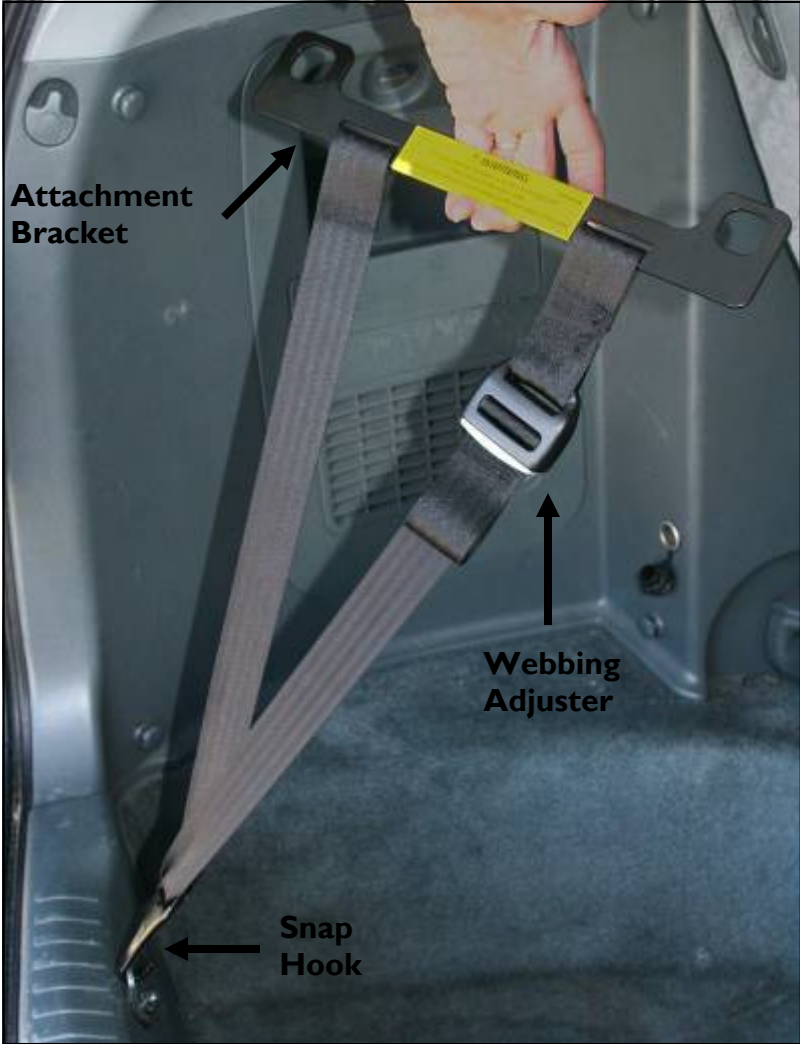


Heavy Duty Tether Anchor Installation, Cont.

14. Use appropriate caulking, or similar sealant, to seal around the head of the bolt and bracket, as well as around the nut and washer underneath the mounting plate, to prevent exhaust fumes from entering the vehicle.

Warning: If the heavy duty tether anchor is ever removed, then the hole must be plugged and sealed to prevent exhaust fumes from entering the vehicle.

Attachment Bracket Assembly Parts List



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Attachment Bracket Assembly Installation

1. Connect the snap hook on the attachment bracket assembly to the tether anchor that was installed according to the steps on the previous pages (Figure A).



2. Grasp the attachment bracket (Figure B) and (without twisting the webbing) insert it through the vehicle seat bite to the front of the seat (Figures C and D, opposite page).



Attachment Bracket Assembly Installation, Cont.

3. Connect each of the Churchill's lower anchor snap hooks to its corresponding hole in the attachment bracket (Figure D).



4. From the back of the vehicle seat, grasp the webbing loop (Figure E) and pull until the Churchill is installed snugly against the vehicle seatback (Figures F and G).



5. Continue installing the Churchill as described in the "Instructions for Use Manual".



6. To uninstall the attachment bracket assembly, simply remove the Churchill per the Churchill's "Instructions for Use" manual, pull the attachment bracket through to the back side of the vehicle seat, and disconnect the snap hook from the tether anchor.



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Limited Warranty, Continued

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The Churchill

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Attachment Bracket Assembly Installation Instructions
Revision 0; March, 2010