

The Roosevelt

**Heavy Duty Tether Anchor
Installation Instructions**



Merritt Manufacturing

Part's List



Materials Needed

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

NOTE: This heavy duty tether anchor kit is designed to be installed in motor vehicles for which a (automotive dealer provided) tether anchor is not available. When using this heavy duty tether anchor with the Roosevelt, only one anchor point is necessary; even for children weighing between 80 and 115 lbs. It is important to carefully adhere to the following installation steps.

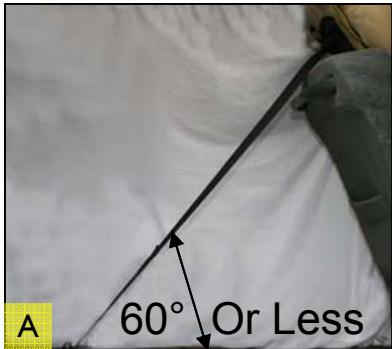
NOTE: We strongly recommend that the following installation steps are performed by a mechanic at an adaptive mobility shop, conversion van facility, or comparable establishment.

1. Determine the seating position in which you will install the Roosevelt.

NOTE: If the rear parcel shelf is not structurally sound, then it will be necessary to mount the tether anchor in the floor of the trunk, with an 1 1/2" (or greater) diameter hole drilled through the parcel shelf to allow passage of the tether strap.

2. 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 or rear parcel shelf 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 Roosevelt, and shall not deviate from its centerline by more than 15 degrees.

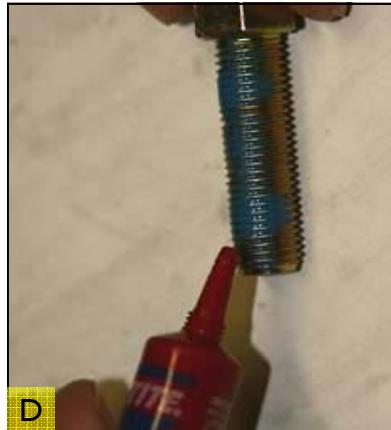
- The angle shown in Figure A, between the taut tether webbing and the floor of the vehicle, must be 60 degrees or less.



3. After deciding where to place the tether anchor, mark the appropriate spot for the hole to be drilled.
4. 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.
5. Drill a 7/16" hole completely through the floor board (or rear parcel shelf in sedans) as shown in Figures B and C.



6. 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.



7. Place the small (15/16" OD) washer and tether anchor bracket over the 7/16" bolt as shown in Figure E.



8. 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 5.



NOTE: For Steps 9-12, an additional person (located inside the vehicle) must hold a 5/8" wrench securely over the head of the bolt (Figure G).

9. From underneath the vehicle (or from inside the trunk, if the tether is being installed on a rear parcel shelf) place the large (2 3/8" OD) washer over the shaft of the bolt (Figure H).
10. Screw the nut onto the shaft as far as possible by hand (Figure H).
11. 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.
12. Use a torque wrench to tighten the nut to a value between 35 and 50 ft-lbs.



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13. 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.

NOTE: 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.

14. Attach the Roosevelt's tether to the heavy duty tether anchor and tighten the tether strap as shown in the Roosevelt's "Instructions for Use" manual.

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