

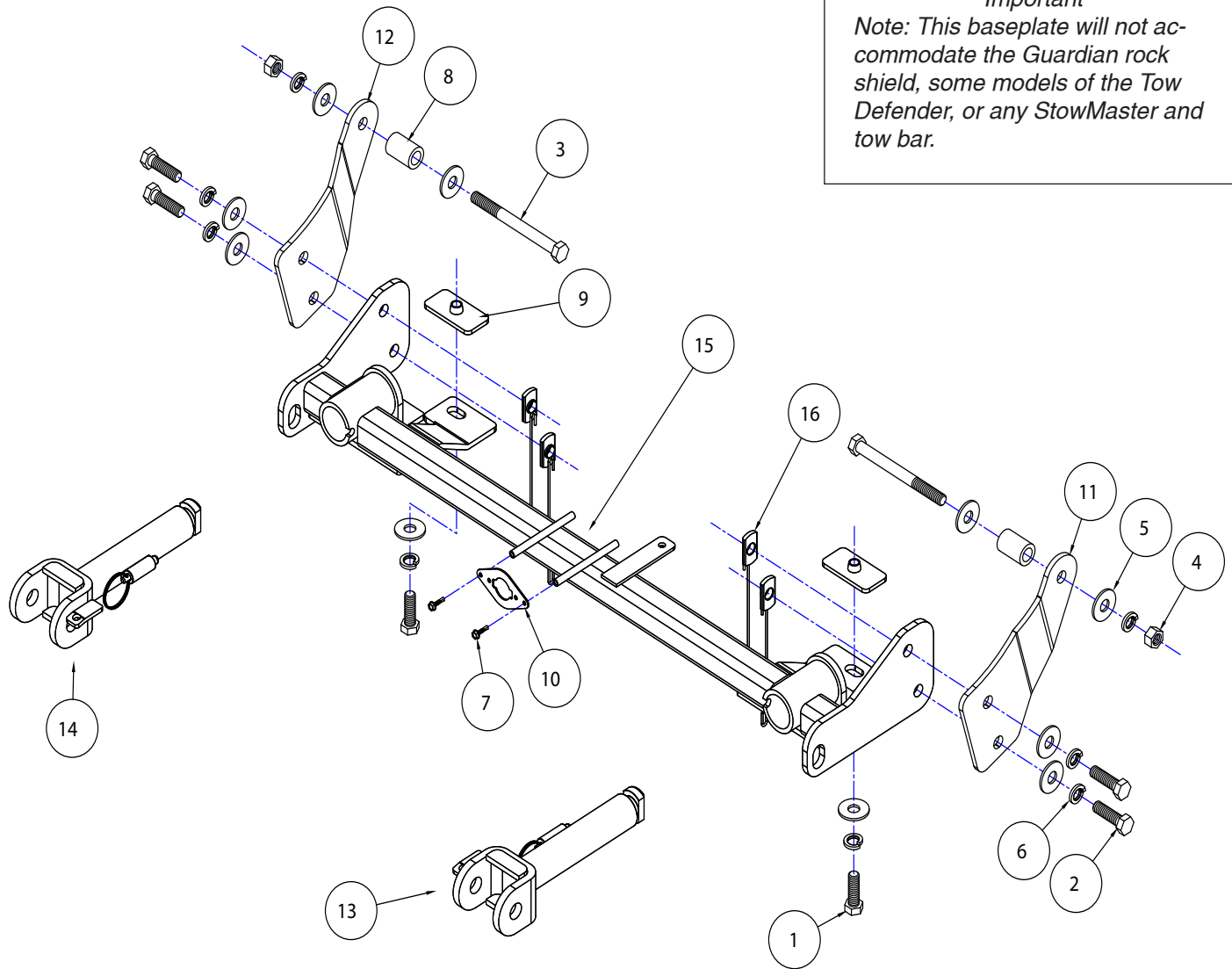


# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 521448-5**

11/20/20  
KS

ROADMASTER, Inc. 6110 NE 127th Ave. Vancouver, WA 98682 360-896-0407 fax 360-735-9300 www.roadmasterinc.com



*Important*  
*Note: This baseplate will not accommodate the Guardian rock shield, some models of the Tow Defender, or any StowMaster and tow bar.*

ITEM	QTY	NAME	PART #
1.....	2.....	1/2" x 1 1/2" BOLT.....	350095-00
2.....	4.....	1/2" x 1 3/4" BOLT.....	350096-00
3.....	2.....	1/2" x 5 1/2" BOLT.....	350108-00
4.....	2.....	1/2" NUT.....	350258-00
5.....	10.....	1/2" FLAT WASHER.....	350308-00
6.....	8.....	1/2" LOCK WASHER.....	350309-00
7.....	2.....	#10 x 3/4" SELF DRILLING SCREW.....	350247-35
8.....	2.....	1" O.D. x 1 1/2" TUBE SPACER.....	A002898
9.....	2.....	1 1/2" x 3" THREADED BACKING PLATE.....	A003079
10.....	1.....	WIRE PLUG PLATE.....	A003801
11.....	1.....	DRIVER SIDE MOUNTING PLATE.....	B002160
12.....	1.....	PASSENGER SIDE MOUNTING PLATE.....	B002161
13.....	1.....	DRIVER SIDE/PASSENGER SIDE ARM.....	C002383
14.....	1.....	PASSENGER SIDE/DRIVER SIDE ARM.....	C002383
15.....	1.....	MAIN RECEIVER.....	C002725
16.....	4.....	1/2" TAB WELDNUT WITH 6" ROD.....	C002870



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This is one of our direct-connect series, which allows the visible front portion of the baseplate to be easily removed from the front of the vehicle (Fig.A and Fig.B). This kit consists of a main receiver brace, two removable front braces, and a hardware pack.

The main receiver brace mounts to the frame. The removable front braces install in the main receiver brace.

Before starting the installation, lay out the kit components in order, as they will be used. This will give you a visual idea of how the components work, and will also confirm that everything is present and accounted for.



**IMPORTANT:** All baseplates **must** be assembled with all the bolts left loose for final adjustment and positioning (before tightening) unless otherwise instructed. All bolts **must** be torqued for proper strength. If more than one bolt is used per fastening point, the diagram may only show one. Use flat washers over all slotted holes and lock washers on all fasteners.

## WARNING

Failure to heed these warnings or follow the installation instructions may result in a voided warranty, loss of towed vehicle, personal injury or death.

- Do not weld or modify this baseplate or its components. Welding or modification will void the warranty.
- Do not use this document as a basis to design/fabricate a baseplate, as it may not show all parts or structural components.
- We strongly recommend professional installation.
- If the towed vehicle has been in an accident, it must be properly repaired before attaching the baseplate. Do not install the baseplate if any structural frame damage is found.
- The installer must use all bolts and parts supplied. If running changes were made by the vehicle manufacturer after this kit was designed, some bolts or other fasteners may no longer be the correct size. It is the installer's responsibility to verify this kit is securely fastened to the vehicle.
- Use Loctite® Red on all bolts used to secure this baseplate. Torque all bolts to the specifications found at the end of these instructions. Do not over-torque the bolts or failure may occur.
- The installer must inspect the baseplate to ensure adequate clearance, particularly around hoses, air conditioner lines, radiators, etc. or non-warranty failure may result.
- Roadmaster manufactures many styles of baseplates. If your baseplate has removable arms, they must be removed before driving the vehicle, unless the arms can be pinned or padlocked in place. If not secured, the arms could vibrate out.
- Some motorhome chassis have such a tight turning radius that you can damage your motorhome, towed vehicle, tow bar or baseplate while turning sharply. Before getting on the road, test your turning radius in an empty parking lot. Turning too sharply could result in non-warranty damage to your towing system, motorhome and/or towed vehicle.
- Do not back up with the towed vehicle attached or non-warranty damage will occur to your towing system or vehicles.
- The safety cables must connect the towing vehicle to the towed vehicle frame to frame, with the cables crossed, with enough slack for sharp turns. See cable instructions for proper routing. Failure to do so will result in non-warranty damage and/or the loss of the towed vehicle.
- This kit is designed for use with ROADMASTER tow bars and ROADMASTER adapters only. Using this kit with other brands, without an approved ROADMASTER adapter, may result in non-warranty damage or injury.
- Receiver extensions and out-of-level towing situations of 3 inches or more. This can cause the system to swing much higher and lower, causing excessive strain on the tow bar, baseplate and frame. That can cause the towing system to fail, causing property damage, personal injury or even death. If you must use a receiver extension or drop hitch to tow, it will reduce your receiver's weight capacity by 1/3 to avoid damaging your system. Never use more than one extension and/or drop hitch, as this will void your warranty.
- Every 3,000 miles, the owner must inspect all mounting points for cracks or fatigue, and check the fasteners for proper torque, according to the bolt torque requirements chart on the last page of these instructions.
- The owner must follow the vehicle manufacturer's instructions to prepare the vehicle for towing. Failure to do so may cause severe damage to the vehicle.
- This baseplate is only warranted for the original installation. Installing a used baseplate on another vehicle is not recommended and will void the warranty.

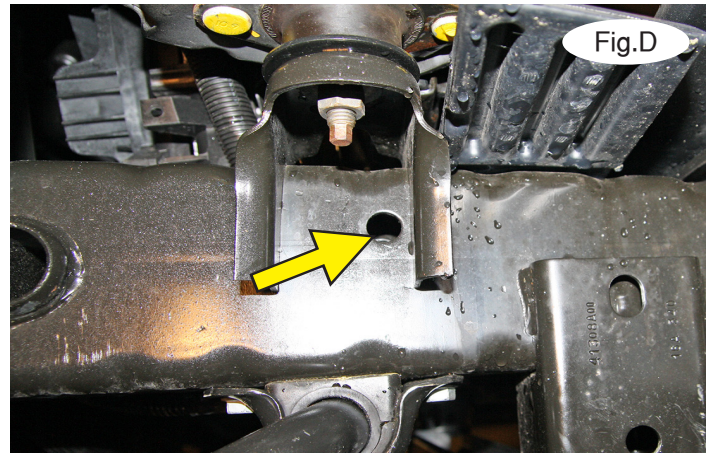
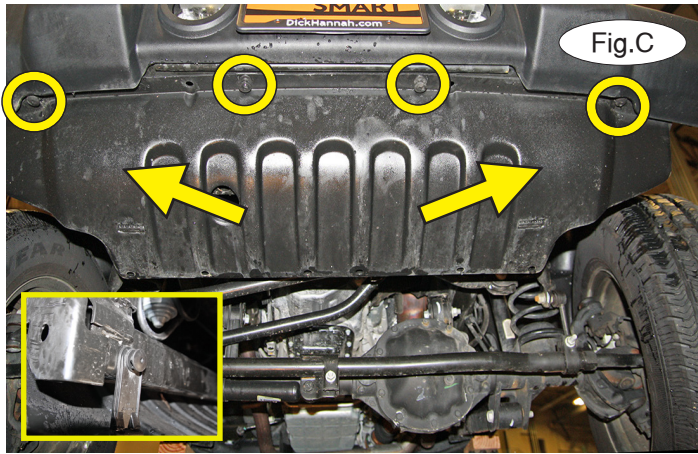


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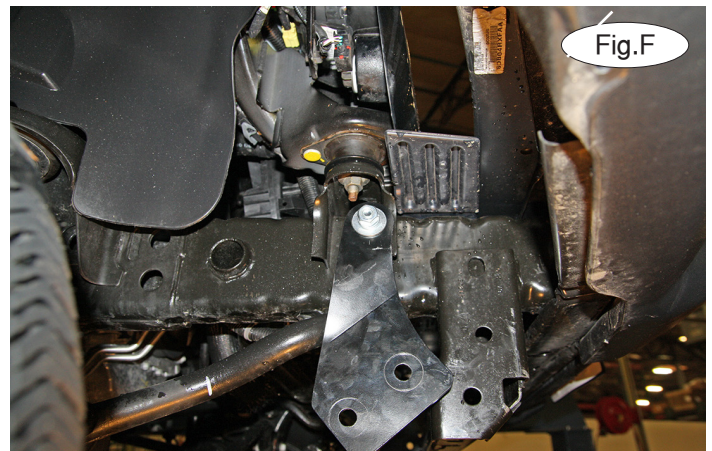
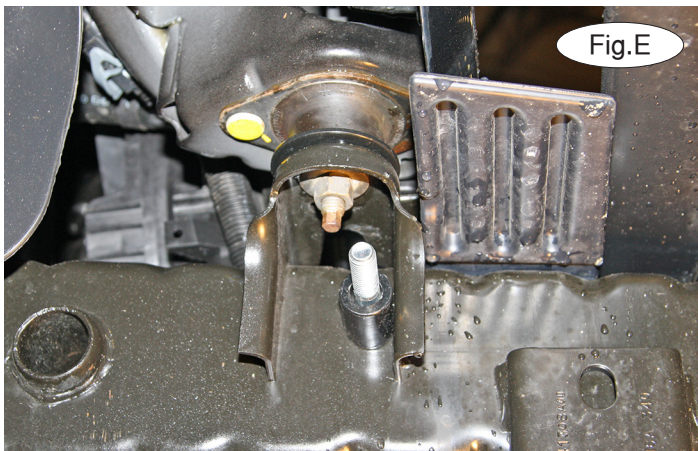
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1. **Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation by removing six plastic fasteners attaching the rock guard to the fascia (Fig.C). *Note:* two of the fasteners are located behind and slightly above the air dam mount hinges. Their approximate locations are indicated with the arrows and shown in Figure C – inset.

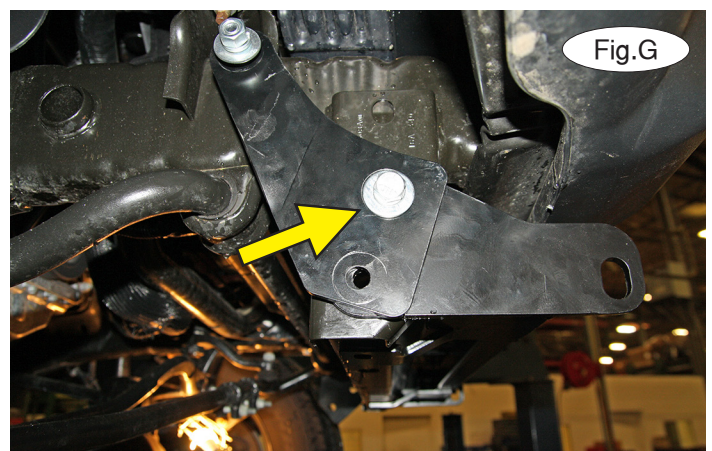
2. Working on the passenger side only, locate the existing hole on the inside and outside of the frame rail (Fig.D – outside). *Note:* due to manufacturing variances, the hole in the outside of the frame rail may not exist. If this is the case, use a 1/2" drill bit to drill straight through the inside hole.



3. Use one of the supplied 1/2" x 5 1/2" bolts and a 1/2" flat washer to bolt from the inside of the frame toward the outside. Then, place one of the supplied 1" x 1 1/2" x .188 wall pipe spacers over the bolt (Fig.E).

Using the drawing on page 1 as a reference, locate the side-specific brace and place it over the bolt and finish with a 1/2" washer, lock washer and nut (Fig.F). Leave it finger-tight for now.

4. Place the main receiver brace around the frame on each side, aligning the holes in the brace with the holes in the side and bottom of the subframe. Then, bolt through the uppermost hole, the main receiver brace and side-specific brace using the supplied 1/2" x 1 3/4" bolt, 1/2" flat washer and 1/2" lock washer. Place a 1/2" tabbed weld nut with rod in the frame and over the bolt (Fig.G).



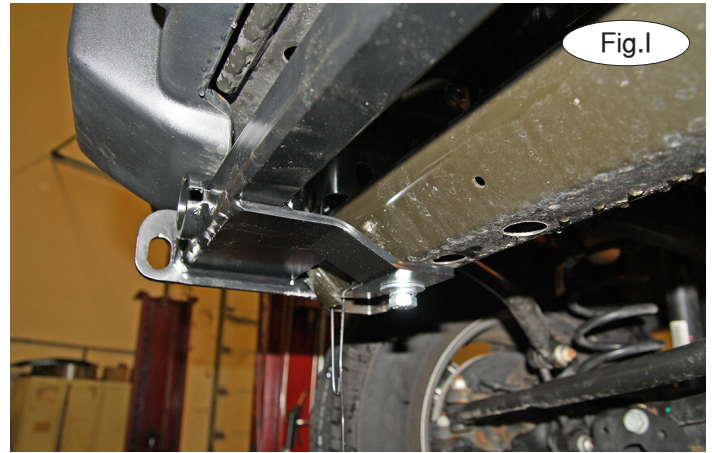
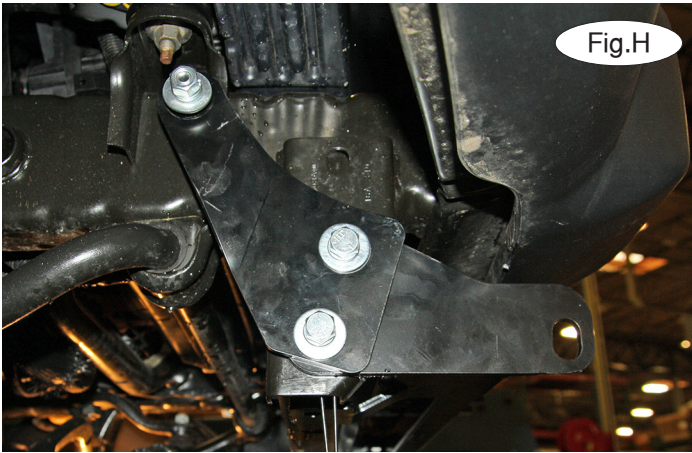


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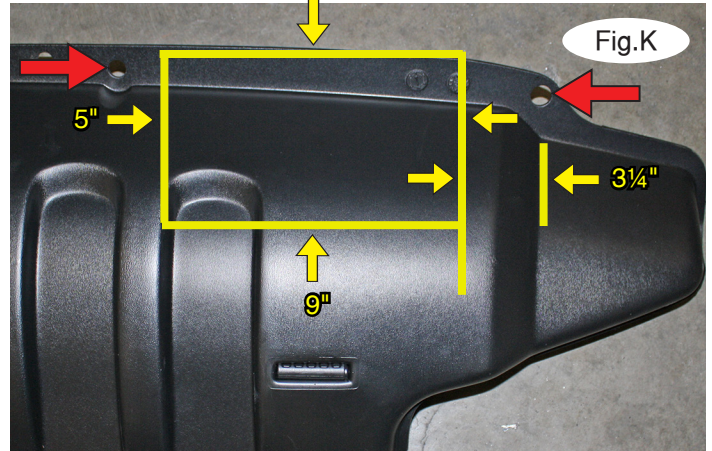
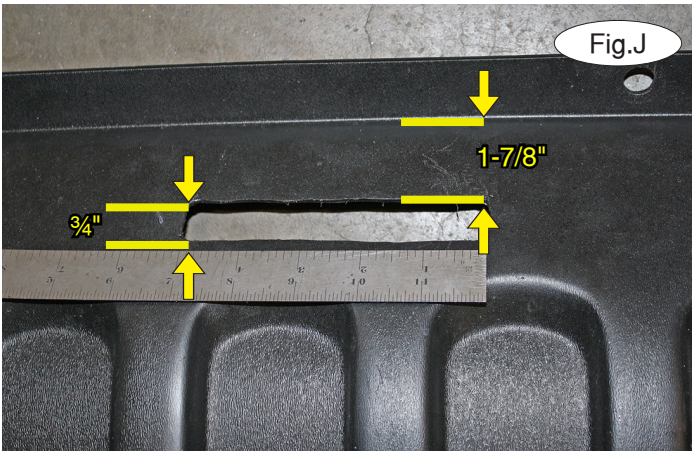
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5. Repeat step 4 for the bottom hole (Fig.H).
6. Bolt up through the bottom mount of the main receiver brace and into the frame support using the supplied  $\frac{1}{2}$ " x  $1\frac{1}{2}$ " bolt. Reach inside the frame and place a  $\frac{1}{2}$ " x 3" nutted backing plate over the bolt and tighten.
7. Repeat steps 2 through 6 for the driver's side. Then, tighten all bolts to the bolt torque specifications found at the end of these instructions. *Note:* use Loctite® Red on all nuts and bolts.
8. On each side, use a pair of pliers to remove or bend the wires on the backing plates back out of the way.



9. Trim the center of the rock guard as shown in Figure J to allow clearance for the wiring plug rods. Measure down  $1\frac{7}{8}$ " from the top edge and trim a  $\frac{3}{4}$ " x 5" slot.
10. On each side, trim the rock guard as shown in Figure K. Measure over  $3\frac{1}{4}$ " from the first fastener, and then mark and trim a section that measures 9" wide by 5" tall, ensuring that you leave the two mounts attached (Fig.K – red arrows). Then, reinstall the rock guard, reversing step 1.



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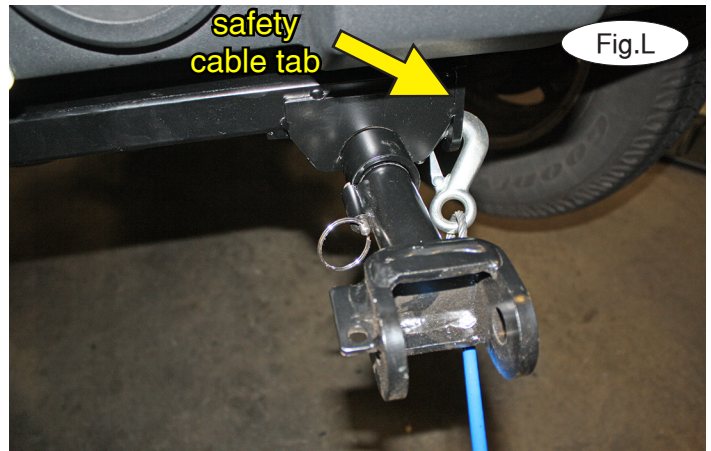
11. On each side, insert the removable baseplate arm into the front receiver 90 degrees from its final towing position, depressing the spring-loaded pin against the receiver. Now, twist back 90 degrees until the spring-loaded pin snaps into place in the notch on the receiver, locking the arm into place in its final towing position.

**Please note: it is the owner's responsibility to ensure the locking of the pins before towing. Otherwise, failure of the towing system will result.**

12. Install the tow bar to the mounting bracket according to the manufacturer's instructions.

### IMPORTANT!

**Safety cables are required by law. When towing, connect safety cables to the safety cable tab shown in Figure L. Make certain there is adequate slack in the cables to allow a full turning radius; otherwise, damage will result. If necessary, longer cables or cable extensions are available.**

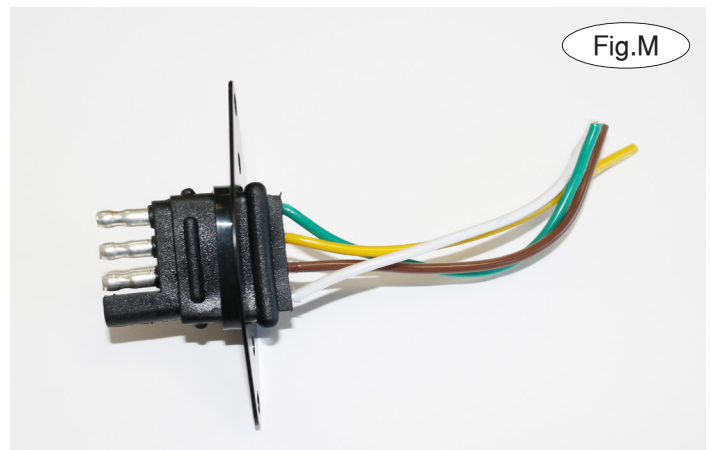


### Three options for attaching the wiring plug to the main receiver brace

**For six-wire plugs:** use the two supplied 3/4" self-tapping screws to attach the electrical plug directly to the rods on the front of the main receiver brace.

**For four-wire round plugs:** attach to the plug mounting plate and then use the two supplied 3/4" self-tapping screws to attach the mounting plate to the rods on the front of the main receiver brace.

**For four-wire flat plugs:** place the plug through the mounting plug plate, and then secure it using the supplied zip tie on the front of the plug (Fig.M). Use the two supplied 3/4" self-tapping screws to attach the mounting plate to the rods on the front of the main receiver brace.



### BOLT TORQUE REQUIREMENTS

Note: The torque values represented below are intended as general guidelines. Torque requirements for specific applications may vary. Roadmaster does not warrant this information to be accurate for all applications and disclaims all liability for any claims or damages which may result from its use.

#### STANDARD BOLTS

Thread Size	Grade	Torque
5/16-18	5	13 ft./lb.
3/8-16	5	23 ft./lb.
7/16-14	5	37 ft./lb.
1/2-13	5	57 ft./lb.
5/8-11	5	112 ft./lb.

#### METRIC BOLTS

Thread Size	Grade	Torque
6mm-1.0	8.8	6 ft./lb.
8mm-1.0	8.8	18 ft./lb.
8mm-1.25	8.8	16 ft./lb.
10mm-1.25	8.8	36 ft./lb.
10mm-1.5	8.8	31 ft./lb.

#### METRIC BOLTS

Thread Size	Grade	Torque
12mm-1.25	8.8	64 ft./lb.
12mm-1.5	8.8	60 ft./lb.
12mm-1.75	8.8	55 ft./lb.
14mm-2.0	8.8	88 ft./lb.