

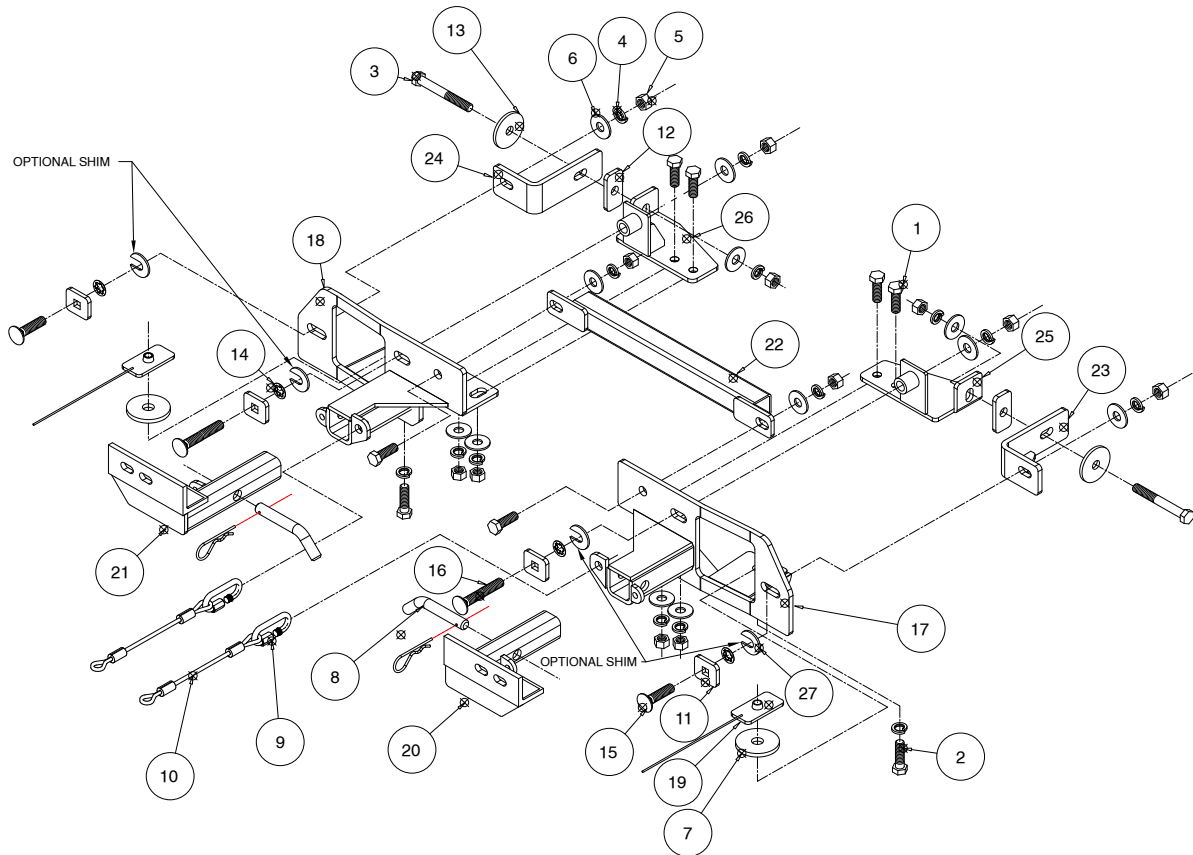


# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 477-5**

03/30/22  
KS

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



| ITEM    | QTY     | NAME                                                  | PART #    |
|---------|---------|-------------------------------------------------------|-----------|
| 1.....  | 6.....  | 1/2" x 1 1/2" BOLT .....                              | 350095-00 |
| 2.....  | 2.....  | 1/2" x 1 3/4" BOLT .....                              | 350096-00 |
| 3.....  | 2.....  | 1/2" x 4 1/2" BOLT .....                              | 350106-00 |
| 4.....  | 14..... | 1/2" LOCK WASHER.....                                 | 350309-00 |
| 5.....  | 12..... | 1/2" HEX NUT.....                                     | 350258-00 |
| 6.....  | 12..... | 1/2" FLAT WASHER .....                                | 350308-20 |
| 7.....  | 2.....  | 5/8" PLATE WASHER .....                               | 350352-00 |
| 8.....  | 2.....  | 5/8" DRAW PIN, W/ SPRING PIN .....                    | 357035-00 |
| 9.....  | 2.....  | QUICK LINK .....                                      | 200008-00 |
| 10..... | 2.....  | 10" SAFETY CABLE .....                                | 650646-10 |
| 11..... | 4.....  | 1/4" x 1 1/2" x 2" BACKING PLATE .....                | A000039   |
| 12..... | 2.....  | 1/4" x 1 1/4" x 2 1/2" BACKING PLATE .....            | A000228   |
| 13..... | 2.....  | 3/16" PLATE x 2 1/4" .....                            | A003086   |
| 14..... | 4.....  | PUSH NUT BOLT RETAINER .....                          | 350200-00 |
| 15..... | 2.....  | 1/2" x 3" CARRIAGE BOLT .....                         | 350123-00 |
| 16..... | 2.....  | 1/2" x 4" CARRIAGE BOLT .....                         | 350124-00 |
| 17..... | 1.....  | DRIVER SIDE RECEIVER .....                            | C000108   |
| 18..... | 1.....  | PASSENGER SIDE RECEIVER .....                         | C000109   |
| 19..... | 2.....  | 3/16" x 1 1/2" x 3" THREADED BACKING PLATE W/ROD..... | C001301   |
| 20..... | 1.....  | DRIVER SIDE ARM .....                                 | C001314   |
| 21..... | 1.....  | PASSENGER SIDE ARM.....                               | C001315   |
| 22..... | 1.....  | CROSS BAR WELDMENT.....                               | C001461   |
| 23..... | 1.....  | DRIVER OUTSIDE BRACE .....                            | C002621   |
| 24..... | 1.....  | PASSENGER OUTSIDE BRACE.....                          | C002622   |
| 25..... | 1.....  | DRIVER INSIDE BRACE .....                             | C002623   |
| 26..... | 1.....  | PASSENGER INSIDE BRACE.....                           | C002624   |
| 27..... | 4.....  | SHIM.....                                             | A004510   |



# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 477-5**

03/30/22  
KS

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

This is one of our XL series brackets, which allows the visible front portion of the bracket to be easily removed from the front of the vehicle (Fig.A and Fig.B). The bracket consists of a main receiver brace, two side braces, cross bar, two removable front bracket arms and a hardware pack.

The main receiver brace mounts to the frame, side braces and cross bar. 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.



# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 477-5**

03/30/22  
KS

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

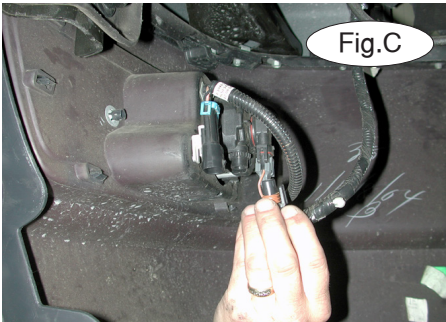


Fig.C

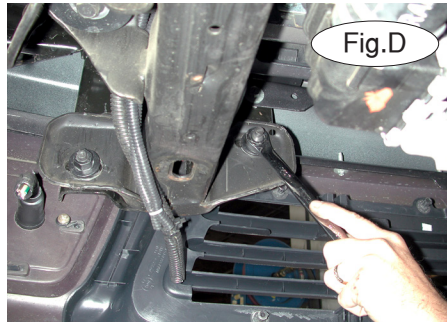


Fig.D

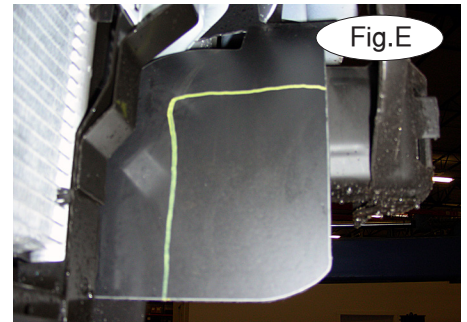


Fig.E

**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.

1. Start by disconnecting the fog lights, if the vehicle is so equipped (Fig.C).
2. Now, remove four 18mm (head) nuts that attach the bumper to the frame (Fig.D). There are two nuts on each side.
3. Remove the bumper and set it aside for now.
4. If the vehicle is equipped with air deflectors, they must be trimmed to allow clearance for the side braces. Use the yellow lines in Figure E as a guide for trimming.

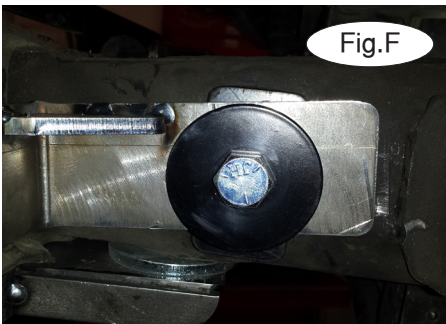


Fig.F

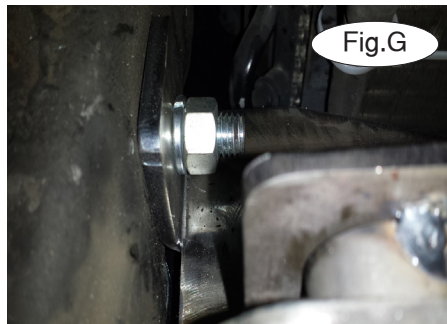


Fig.G

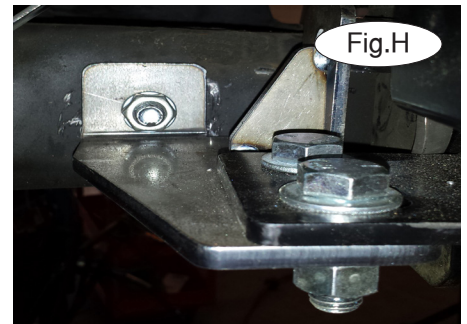


Fig.H

5. Starting on the driver's side, bolt the L brace (with the gusset on top) to the outside of the frame rail using the supplied  $\frac{1}{2}$ " x  $4\frac{1}{2}$ " bolt and  $\frac{1}{2}$ " plate washer (Fig.F). To the inside of the frame rail, place the inside brace over the  $\frac{1}{2}$ " x  $4\frac{1}{2}$ " bolt and then finish with a  $\frac{1}{2}$ " lock washer and nut (Fig.G).
6. Set the main receiver brace over the end of the frame rail. Bolt the main receiver brace to the side brace using the supplied  $\frac{1}{2}$ " x  $1\frac{1}{2}$ " bolts, flat washers, lock washers and nuts (Fig.H).

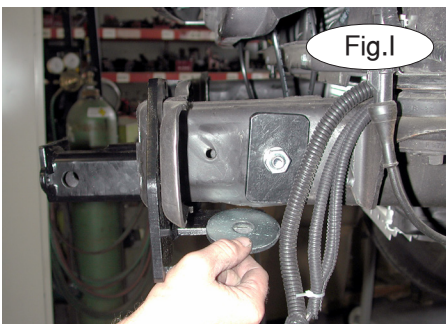


Fig.I

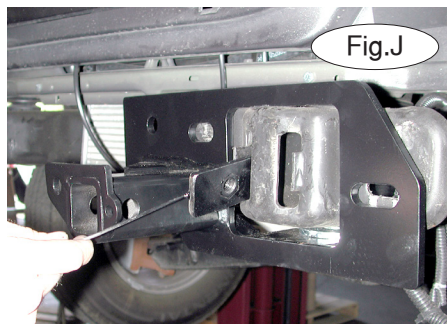


Fig.J

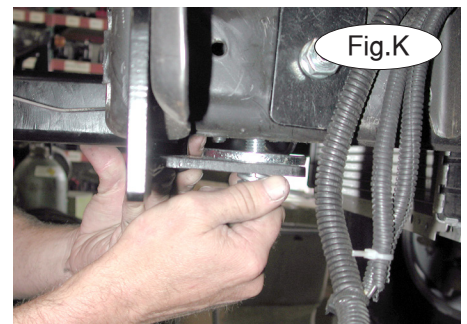


Fig.K

7. Now, insert the  $\frac{5}{8}$ " plate washer between the main receiver brace and the frame rail (Fig.I).
8. Using the wire extension, insert a  $1\frac{1}{2}$ " x 3" nipped backing plate through the opening in the front of the frame rail (Fig.J). Position the nipped backing plate over the existing hole in the bottom of the frame rail.
9. Using a  $\frac{1}{2}$ " x  $1\frac{3}{4}$ " bolt and lock washer, bolt through the main receiver brace, plate washer, frame rail and into the nipped backing plate (Fig.K). After the main receiver brace is bolted in place, use a pair of pliers to twist off the wire connected to the nipped backing plate.
10. Repeat steps 5 through 9 for the other side.

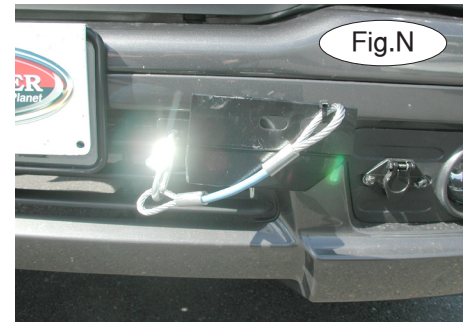
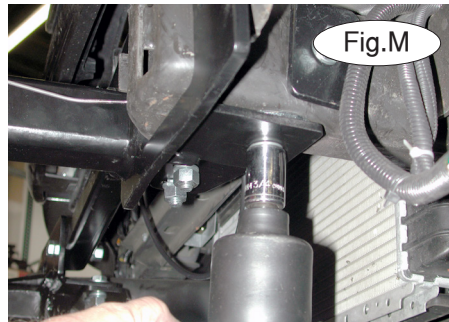
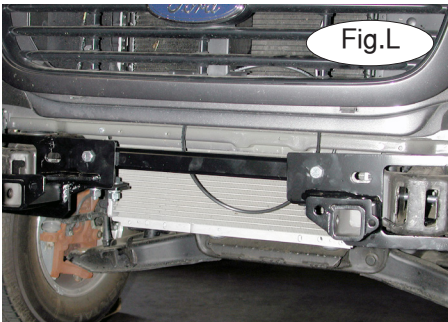


# BASEPLATE KIT INSTALLATION INSTRUCTIONS

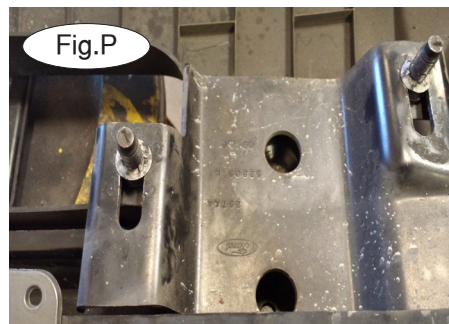
**KIT# 477-5**

03/30/22  
KS

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



- Now, bolt the cross brace into place using two 1/2" x 1 1/2" bolts, flat washers, lock washers and nuts (Fig.L).
- If the vehicle is equipped with an auxiliary transmission cooler, zip tie the transmission line to the radiator support to prevent it from rubbing against the main receiver brace.
- For **STX models only**: to allow for clearance of the removable front braces (Fig.N), a small section of the horizontal ribs on each side of the grille will need to be trimmed. Use the yellow marker lines in Figure O as a reference. For **standard** two wheel drive models, trimming is not required.
- Prepare the bumper for remounting by removing the existing four mounting bolts and substituting two 1/2" x 2 1/2" carriage bolts and 1/4" x 1 1/2" x 2" backing plates on the outside mounts and two 1/2" x 4" carriage bolts and 1/4" x 1 1/2" x 1 3/4" backing plates on the inside mounts. Secure the bolts in the bumper with the provided push nut bolt retainers (Fig.P).



- Replace the bumper and bolt it in place using 1/2" flat washers, lock washers and nuts. Slotted shim washers are provided to aid in bumper alignment. Normally, one or two washers may be needed between the bumper and the lower bumper mounting point.
- Tighten all bolts to the torque specifications listed at the end of these instructions, starting with the bracket bolts and then the bumper nuts.
- Fit the front bracket arms into the front receiver braces, and secure them in place with the supplied 5/8" draw pins and spring pins.
- Attach the 10" safety cables with the cable connectors (Q-Links) to the front of the receiver braces (Fig.Q).
- Attach the ends of the safety cables to the tow vehicle's safety cables and tow bar.
- Install the tow bar to the mounting bracket according to the manufacturer's instructions.

## 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.....   | 5..... | 13 ft./lb.  |
| 3/8.....    | 5..... | 23 ft./lb.  |
| 7/16.....   | 5..... | 37 ft./lb.  |
| 1/2.....    | 5..... | 56 ft./lb.  |
| 5/8.....    | 5..... | 150 ft./lb. |

### METRIC BOLTS

| Thread Size     | Grade     | Plated / Unplated     |
|-----------------|-----------|-----------------------|
| 8mm-1.0 .....   | 8.8 ..... | 20 ft./lb. 18 ft./lb. |
| 8mm-1.25 .....  | 8.8 ..... | 19 ft./lb. 18 ft./lb. |
| 10mm-1.25 ..... | 8.8 ..... | 38 ft./lb. 36 ft./lb. |
| 10mm-1.5 .....  | 8.8 ..... | 37 ft./lb. 35 ft./lb. |

### METRIC BOLTS

| Thread Size     | Grade     | Plated / Unplated      |
|-----------------|-----------|------------------------|
| 12mm-1.25 ..... | 8.8 ..... | 70 ft./lb. 65 ft./lb.  |
| 12mm-1.5 .....  | 8.8 ..... | 66 ft./lb. 61 ft./lb.  |
| 12mm-1.75 ..... | 8.8 ..... | 65 ft./lb. 60 ft./lb.  |
| 14mm-2.0 .....  | 8.8 ..... | 104 ft./lb. 97 ft./lb. |