

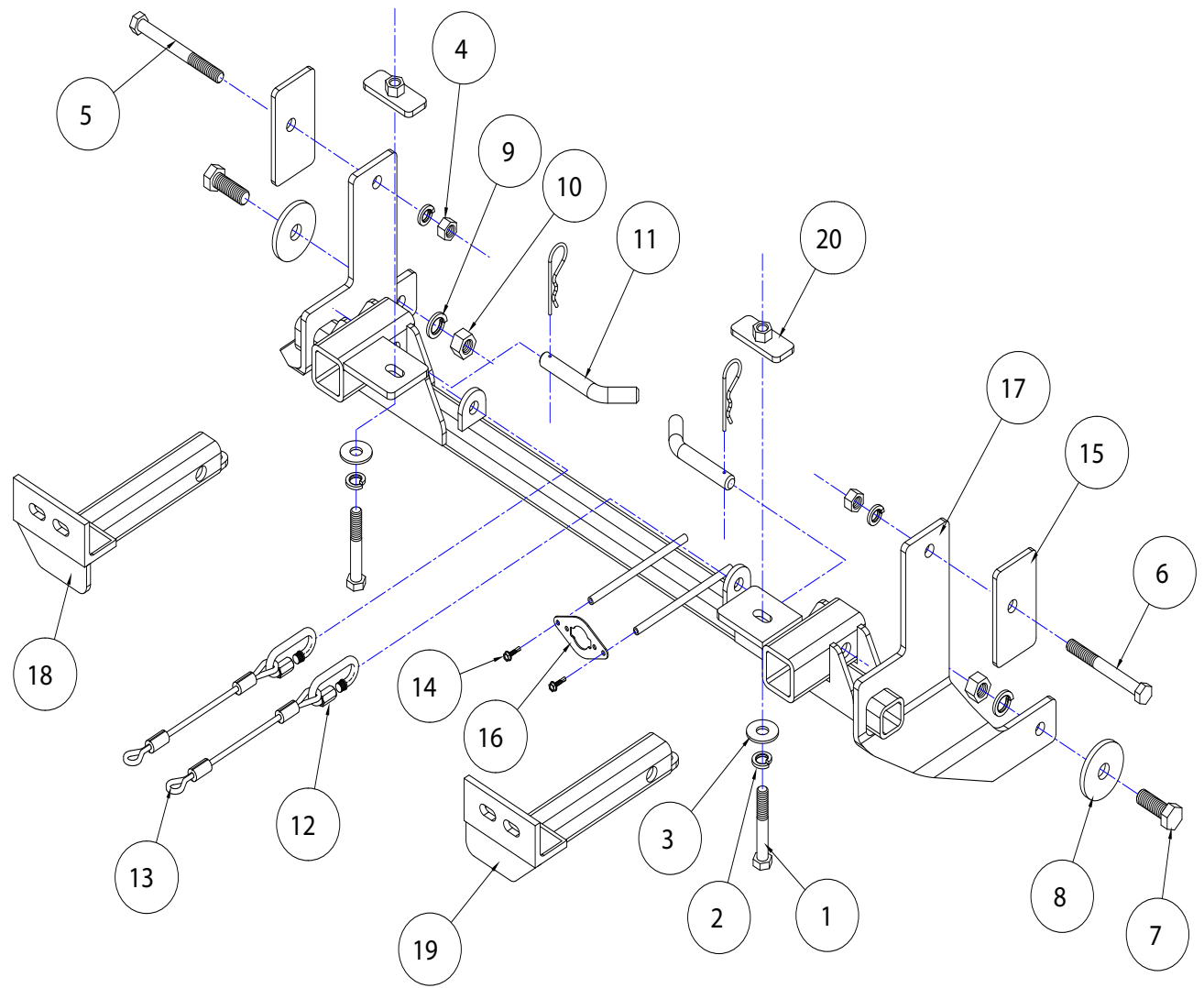


# BASEPLATE KIT INSTALLATION INSTRUCTIONS

**KIT# 1165-1**

06/08/18  
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	2	1/2" x 3 1/2" BOLT	350103-00
2	4	1/2" LOCK WASHER	350309-00
3	2	1/2" FLAT WASHER	350308-00
4	2	1/2" NUT	350258-00
5	1	1/2" x 4" BOLT	350105-00
6	1	1/2" x 4 1/2" BOLT	350106-00
7	2	5/8" x 1 3/4" BOLT	350149-00
8	2	5/8" PLATE WASHER	350352-00
9	2	5/8" LOCK WASHER	350313-00
10	2	5/8" NUT	350262-00
11	2	DRAW PIN/SPRING PIN	357035-00
12	2	CONNECTORS	200008-00
13	2	10" SAFETY CABLES	500646-10
14	2	#10 x 3/4" SELF DRILLING SCREW	350247-35
15	2	2 1/2" x 4 1/2" BACKING PLATE	A-000725
16	1	WIRE PLUG PLATE	A-003801
17	1	MAIN BRACE WELDMENT	C-000389
18	1	PASSENGER SIDE ARM WELDMENT	C-000390
19	1	DRIVER SIDE ARM WELDMENT	C-000391
20	2	1 1/4" x 3" BACKING PLATE WELDMENT	C-000402



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This bracket kit is one of our XL series, which allows the visible front portion of the bracket to be easily removed from the front of the vehicle. The kit consists of the main receiver brace, front braces and a hardware pack. The main receiver brace mounts behind the front bumper fascia to the frame and side of the radiator support on each side. The front braces insert into the receivers on each side.

Start by laying the kit out according to the illustration. This will give you a visual idea of how the kit installs and also confirm that the kit components are 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.



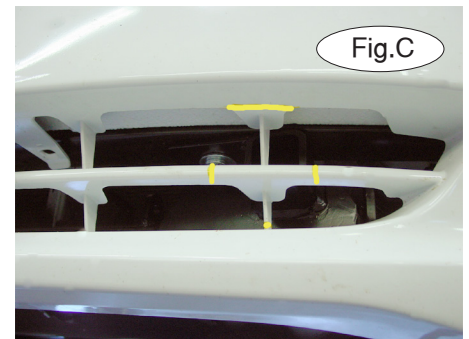
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- Important:** please use all supplied bolts and parts and read all instructions carefully before beginning this installation. The majority of questions you may have can be answered within the text, and proper installation will ensure safe and secure travel. Now, begin the installation by removing the center plastic fastener and two rubber head Phillips screws in the top of the fascia. Move to the side fender well fascia junction and remove a 10mm (head) screw on each side. Remove two plastic fasteners located under the steel bumper core then one more plastic fastener and two 10mm screws in the bottom of the splash panels on each side. Pull the sides of the fascia out to disengage the fasteners then forward to remove and set aside. Now, remove the energy absorption foam from the steel bumper core.
- Hold the main receiver brace to the bottom of the steel bumper core and inside of the frame with the lower mounting holes positioned between the front tie down holes. Bolt through the bottom mount and front tie down braces with 5/8"x 1 3/4" bolts, plate washers, lock washers and nuts.
- Using the receiver brace as a drill template, drill two 17/32" holes through the bottom two walls of the C- channel bumper core. *Note:* existing small holes should be present, just enlarge and drill through the next wall.
- Bolt through the receiver brace and the c-channel with two 1/2" x 3 1/2" bolts, flat washers, lock washers, and 1/4" x 1 1/4" x 3" threaded backing plates.
- Working on one side at a time, locate an existing hole in the outside of the frame 1 1/8" behind the bumper core mounting flange and enlarge to 17/32". Drill straight through the frame at this point and through the matching mounting hole in the receiver brace positioned directly behind the front hole.
- Position a 1/4" x 2 1/2" x 4 1/2" backing plate on the outside of the frame behind the frame flange over the hole you just drilled, bolt through with a 1/2" x 4" bolt, lock washer and nut on the passenger side and a 1/2" x 4 1/2" bolt, lock washer and nut on the driver side.
- Repeat the two preceding steps for the remaining side.
- Torque all mounting bolts to the torque specifications below.
- Reinstall the shock absorption foam and fascia, reversing steps 1 and 2. *Note:* on later models, trimming of the fascia is required (Fig.C).
- Insert the front braces into the receiver tubes and secure with 5/8" draw pins and spring pins. *Note:* access the draw pins and spring pins through the top of the fascia behind the grille. The safety cables are also attached by reaching behind the grille and attaching to the receiver brace cross bar with the included cable connectors. A wiring mount is also supplied for your convenience.
- Install the tow bar according to the manufacturer's instructions and torque all mounting bolts to the specifications below.
- Attach one end of the 10" safety cables to front holes on the receiver cross bar on each side of the receiver brace with the included cable connectors. Connect the other end to the tow vehicle's safety cables and the tow bar.



## 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.