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Hitch receiver adapters and extensions for the 048, 058 and 070 series of high-low hitch receiver adaptors and the 077 series of dual hitch receivers

Installation Instructions and User's Guide

All specifications are subject to change without notice.

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Installation instructions

1. Slide the end of the extension into the motorhome hitch receiver, align the holes and secure the extension to the receiver with a hitch pin and clip (not included).

WARNING

Use hitch pins with 5/8" diameters only. Hitch pins with smaller diameters will break during towing, which may cause the extension, and the towed vehicle with it, to separate from the motorhome.

2. Next, insert the tow bar stinger or ball hitch mount into the other end of the extension.

As before, secure the stinger or ball hitch mount to the extension with a hitch pin and clip.

Note: to prevent theft or accidental release, ROADMASTER recommends substituting a receiver hitch lock (part number 315) for at least one of the hitch pins and clips.

WARNING

Do not use more than one hitch receiver extension at any given time, for any towing application.

The extensions are not designed to be linked together. Multiple extensions will buckle or separate when towing, causing the towing system to fail.

Significant property damage, personal injury or even death can result if multiple extensions are used.

WARNING

Safety cables (or chains) must be used to bypass the extension and connect the towing vehicle to the towed vehicle frame to frame. This is required by law in many

IMPORTANT NOTICE!

Safety definitions

These instructions contain information that is very important to know and understand. This information is provided for safety and to prevent equipment problems. To help recognize this information, observe the following symbol:

WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in property damage, serious personal injury or even death.

Note

Refers to important information and is placed in italic type. It is recommended that you take special notice of these items.

states and provinces.

Additionally, if the extension is being added to a tow system with safety cables already in place, be certain that the safety cables are not too short.

Hitch extensions will extend the distance the safety cables must now reach. If the safety cables are too short, severe non-warranty damage will occur to the safety cables, tow bar or other components of the towing system.

Damage to the motorhome, and damage to or loss of the towed vehicle, may also occur.

After attaching the hitch receiver extension make certain there is enough slack in the safety cables at the motorhome to allow for sharp turns – position the towed vehicle at a 45 degree angle to the motorhome. Then measure along the outside contour of the tow bar from the safety cable connection point at the hitch receiver to the safety cable connection point at the towed vehicle.

If the safety cables are shorter than this distance, you must either: 1) add safety cable extensions (safety cable extensions in a wide variety of lengths are available from ROADMASTER); or 2) purchase longer safety cables.

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Towing and tongue weight capacities

The maximum towing capacity and tongue weight of 048, 058 and 070 series adaptors and the 077 dual hitch receivers is as follows:

	Maximum towing capacity	Maximum tongue weight
048/058 series.....	10,000 pounds	400 pounds
(part numbers 048-2 to 048-10 and 058-4 and 058-6)		
070 series.....	6,000 pounds	200 pounds
(part numbers 072, 070, 076)		
077 series.....	10,000 pounds	400 pounds
(part numbers 077-2 to 077-10, patent number 5,884,930)		

“Maximum towing capacity” is the maximum allowable weight of the fully loaded vehicle, including its contents.

“Maximum tongue weight” is the maximum allowable vertical load applied to the extension (including the weight of any accessory attached to the extension).

WARNING

Do not exceed the maximum towing capacity or the maximum tongue weight, or the hitch receiver extension will fail, which may cause the towed vehicle to separate from the motorhome.

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! WARNING

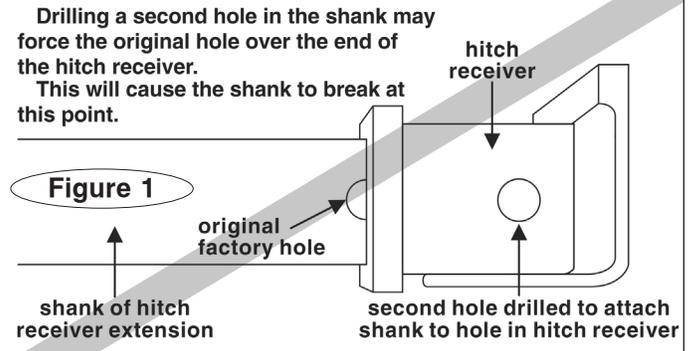
Do not use the hitch receiver extension if it drags going over dips, railroad tracks or other uneven road surfaces. The steel will be severely weakened by the force of the impact, which will cause the shank (Figure 1) to break.

Inspect the bottom of the extension after the initial use, and after each trip thereafter, to make certain that it has not come into contact with the road.

! WARNING

Do not drill a second hole in the shank of the hitch receiver, tow bar or hitch receiver extension. Drilling a second hole will weaken the steel. The shank may break during towing, which will cause the towed vehicle to separate. Refer to Figure 1.

If the pre-drilled holes do not align to the hole in the hitch receiver or the extension: 1) purchase a hitch accessory of the appropriate length; or 2) call ROADMASTER technical support.



Stay within the 'Safe Zone!'

The primary purpose of a hitch receiver adaptor or extension of the type discussed in these instructions is to bring the tow bar to level – into the 'Safe Zone.' Car-mounted tow bars must be approximately level; motorhome-mounted tow bars cannot be more than three inches above or below level.

Towing with a tow bar which is not within this range puts undue strain on the entire towing system. For that reason, do not tow if the tow bar is not within the Safe Zone.

To determine if the tow bar is within the Safe Zone – first, connect the motorhome and vehicle on level ground. Next, measure the distance from the center of the motorhome hitch receiver down to the ground. Then measure the distance from the center of one of the base pins (Figure 2) on one of the tow bar arms (Figure 2) down to the ground.

Compare these two measurements. For car-mounted tow bars, they must be approximately equal; for motorhome-mounted tow bars, they cannot be more than three inches apart if the base pin is above or below the motorhome hitch receiver, as shown in Figure 2.

Towing with a tow bar which is not within the Safe Zone will void the ROADMASTER warranty.

! WARNING

Towing a vehicle with a tow bar that is not within the Safe Zone will result in significant wear and tear on the tow bar and brackets, significant wear and tear on the vehicle's suspension and frame, and the eventual failure of the towing system.

