

Falcon ***ALL TERRAIN***TM

non-binding tow bar

U.S. patent numbers 6,619,686, 6,957,824 and 7,029,021

Owner's Manual & Installation Instructions

Extend your warranty
for an additional year –
FREE!
for
See inside front cover
for details.

***Entire contents of manual
must be read by owner***



Time Tested • Time Proven

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WELCOME TO THE ROADMASTER FAMILY!

This manual has been prepared to acquaint you with the installation, operation, care and maintenance of your tow bar and to provide you with important safety information.

Read your owner's manual cover to cover. Understand how to install and operate your tow bar, and carefully follow the instructions and safety precautions.

Your tow bar has a one-year limited warranty. To qualify for your warranty, register online at www.roadmasterinc.com/wreg, or fill out and return the enclosed product registration card within 30 days of purchase. **As a bonus, we'll extend your warranty to a total of two years at no additional cost, if we receive your registration** (either online or mailed) **within 30 days of purchase.**

We thank you for your patronage and greatly appreciate your discerning taste.

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Save this manual

Save this manual for future reference. It contains important sections relative to safety, use, maintenance, parts replacement and other information. Therefore, make sure this manual is always with you when you're towing. You may download or print a copy of the most current manual at www.roadmasterinc.com (under 'Support').

WARNING

Read all instructions before installing the tow bar, or before towing a vehicle. Failure to understand how to properly install or operate the tow bar could result in property damage, personal injury or even death.



Your tow bar serial number...

...is located on a label on the inside of the passenger's side tow bar arm. You will need this number when you fill out your product registration card.

Write down the serial number in the space below and retain for future reference.

Serial number: _____

All illustrations and specifications contained herein are based on the latest information available at the time of publication. ROADMASTER, Inc. reserves the right to make changes, at any time, without notice, in material, specifications and models, or to discontinue models.

IMPORTANT NOTICE!

Safety Definitions

This manual contains 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 symbols:

WARNING

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

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in property damage, or minor or moderate personal injury.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTE

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

INSTALLER'S SAFETY CHECKLIST

- **Show the owner how to properly operate the tow bar.** Familiarize yourself with the features of the tow bar. Demonstrate them to the owner and ask the owner to connect and disconnect the tow bar and other components of the towing system, until the owner is comfortable with its operation.

- **Advise the owner to always use safety cables when towing.** The safety cables must connect the towed vehicle to the towing vehicle, frame to frame.

The weight capacity of the safety cables must meet or exceed the towed weight, or the safety cables will fail.

- **The tow bar must be attached to a baseplate which is bolted to the towed vehicle's frame or unibody.** In order to be towed, virtually all vehicles require a tow bar baseplate that is connected to the frame, unibody or chassis and extends beyond the bumper.

- **Read the instructions thoroughly before installing the 'quick-disconnect' ('QD') system and its compo-**

nents. The tow bar will be attached to the QD system. If the QD system is not properly aligned, centered and positioned on the towed vehicle, the tow bar will not be centered on the towed vehicle, which may cause excessive tire wear and other consequential, non-warranty damage.

- **The installer must NOT use the tow bar as a ground for welding.** Connecting a ground to the 'A-frame' of the tow bar will cause current to flow through the locking spring, which will detemper the spring and destroy the locking mechanism.

- **Under no circumstances should the tow bar be welded to the vehicle,** nor should any of the pre-punched mounting holes be altered. Any welding or altering of the tow bar will void the owner's warranty.



WARNING

Failure to follow these instructions may cause property damage, personal injury or even death.

SAFE TOWING PRACTICES

CAUTION

Do not back up the motorhome with the towed vehicle attached.

Backing up with the towed vehicle attached will cause the towed vehicle to "jackknife," which will damage the tow bar, the baseplate, the receiver hitch, the towed vehicle's front end and/or the rear of the motorhome. Backing up with the towed vehicle attached is the primary cause of tow bar damage and will void the warranty.

- **Be sure the vehicle can be towed** before taking it on the road. Some vehicles must be equipped with a transmission lube pump, an axle disconnect, driveline disconnect or free-wheeling hubs before they can be towed. Failure to properly equip the vehicle will cause severe damage to the transmission.

Check the vehicle manufacturer's instructions for the proper procedure(s) to prepare the vehicle for towing.

- **The tow bar must be within the 'Safe Zone'** – no more than three inches above or below level. Towing with an out-of-level tow bar will cause significant wear and tear on the tow bar and baseplate, and on the towed vehicle's suspension and frame. (See the section titled "Stay within the 'Safe Zone'" for further information.)

- **The steering wheel must be unlocked and free to turn when towing.** Failure to do so can cause severe tire and equipment damage. Check the manufacturer's instructions for the proper towing procedure(s).

- **The towed vehicle and all its contents cannot exceed 6,000 pounds.** The Falcon All Terrain tow bar is rated at a maximum of 6,000 pounds carrying capacity; therefore the towed vehicle and all its contents cannot exceed 6,000 pounds. In addition, the receiver hitch, the safety cables and all supplementary towing equipment

must be rated at no less than the weight of the towed vehicle and all its contents.

- **The tow bar must be secured with lynch pins (or optional padlocks) before towing.** Unless the tow bar is secured to both vehicles with all appropriate pins (or padlocks), the towed vehicle will detach.

- **Inspect the system before towing** – check the mounts, brackets, fasteners, bolts, wiring, the safety cables and all other components each time before towing. Additionally, check the baseplate every 3,000 miles – inspect for any fractures or cracks in the steel or any visible damage. Do not tow if the baseplate is damaged.

Additionally, check the torque on all bolts. (To find the torque ratings, refer to the installation instructions for the baseplate and the tow bar.)

- **This tow bar is designed for use on paved roads only.** ROADMASTER does not recommend off-road towing, nor does ROADMASTER warrant the tow bar for off-road use.

- **Never tow a vehicle with one of a comparable weight.** The towed vehicle's weight should never exceed 40 percent of the towing vehicle's weight.

Towing a vehicle with one of similar weight will cause the towed vehicle to override the towing vehicle, resulting in "jackknifing," "leapfrogging" or "fishtailing." Serious damage to both vehicles, as well as the towing system, could result.

- **Always stand to one side and as close to the motorhome as possible when releasing the tow bar locking mechanisms.** Never stand between the adjustable arms, or put any part of your body between the adjustable arms when releasing the tow bar – always stand to one side.

Because the towed vehicle may jerk forward when the

continued on next page

Safe towing practices

continued from preceding page

locking mechanisms are released, face the towed vehicle and stand as close to the back of the motorhome as possible before releasing the locking mechanisms, to keep from being hit by the towed vehicle.

- **Do not drill a second hole in the shank of any tow bar or hitch accessory.** If the hole in the shank does not align to the hole in the hitch receiver: 1) purchase a hitch accessory of the appropriate length; or 2) call ROADMASTER technical support.

Drilling a second hole will weaken the steel. The shank may break during towing, which will cause the towed vehicle to separate.

- **Always use safety cables when towing.** The safety cables must connect the towed vehicle to the towing vehicle frame to frame.

Use only 6,000 pound or heavier rated safety cables. Additionally, check to ensure that the safety cables are the proper length. Refer to the sections titled "How to use safety cables" and "Proper installation of safety cables" for further information.

- **Check the motorhome turning radius.** Some motorhome chassis have such a tight turning radius that you can damage your motorhome, towed vehicle or tow bar while turning too sharply. Before getting on the road with your towed vehicle, you should test your turning radius in an empty parking lot.

With the towed vehicle attached, have someone watch as you slowly turn sharply to see whether you have this potential problem. If you do, note how far you can safely turn the motorhome's steering wheel and be sure not to turn it further when towing. Damage that results from turning too sharply is not covered by warranty.

- **Never use the tow bar to tow more than one vehicle.** In some states it is legal to have one vehicle towing more than just one vehicle (for example, a truck which is towing a trailer which is towing a boat). However, when using a tow bar, never tow more than one vehicle or non-warranty damage or injury may result.

- **The tow bar stinger fits motorhome hitch receivers with two-inch inner diameters.** If the motorhome hitch receiver is a larger size, attach a two-inch adaptor sleeve (not supplied) to the hitch receiver.

Damage to the tow bar stinger or other components of the tow bar, abnormal wear patterns on the towed vehicle's tires, as well as other, consequential damage may result if an adaptor sleeve is not used.

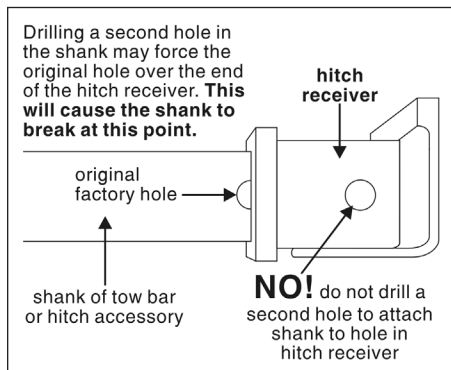
- **Keep the tow bar clean and well-lubricated.** As is the case with most precision equipment, frequent cleaning and care results in better performance and longevity. Refer to the section titled "Care and cleaning" for further

information.



WARNING

Failure to follow these instructions may cause property damage, personal injury or even death.



INSTALLING THE 'QUICK-DISCONNECT' SYSTEM

This ROADMASTER tow bar is equipped with an exclusive "quick-disconnect" (or, "QD") system. Before connecting the tow bar to the vehicle, first install the components of the QD system to the baseplate.

Note: the quick-disconnect system is not used with ROADMASTER 'MS,' 'MX' or EZ5 baseplates. If the towed vehicle has MS, MX or EZ5 baseplate, proceed to the next section – "Connecting the tow bar." The quick-disconnect system should be reserved, however, for subsequent vehicles which may not have these baseplates.

1. First, attach the quick-disconnects ("QDs," parts "A" and "B" in Figure 1) to the tow bar baseplate. Attach the QDs so that the vertical pin on each is pointing up, as shown in Figure 1.

Attach part "A" on the passenger side, and part "B" on the driver's side. Use the supplied $\frac{1}{2}$ " x $1\frac{3}{4}$ " bolts, the two safety plates (parts "C"), and the flat washers, lock washers and nuts, as shown in Figure 1.

Both QDs have an extra hole – "D" in Figure 1 – for safety cable attachment. Mount parts "A" and "B" so that the "D" holes are to the outside.

Do not tighten any of the bolts – leave them loose for now – they will be tightened later.

⚠ WARNING

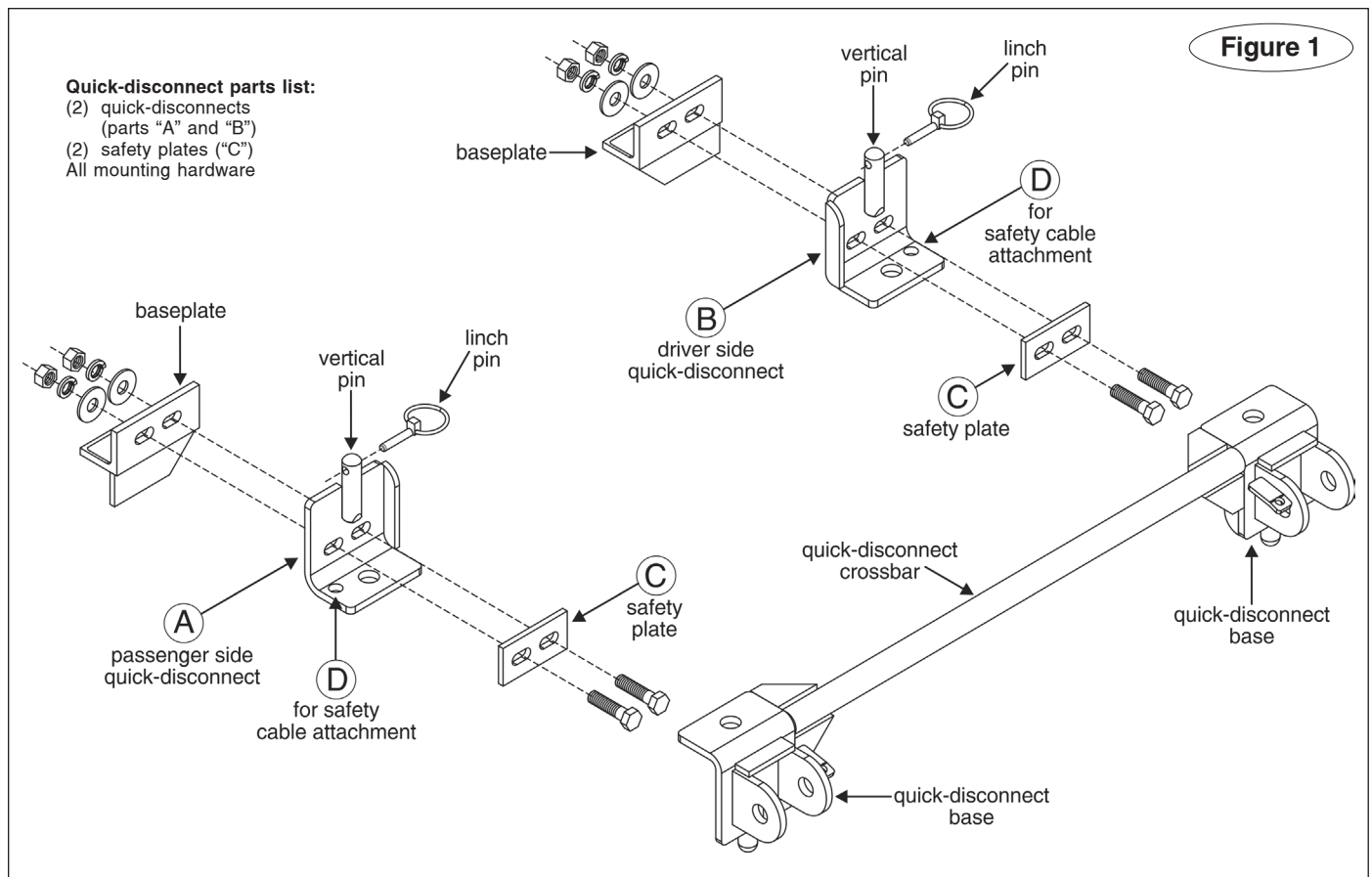
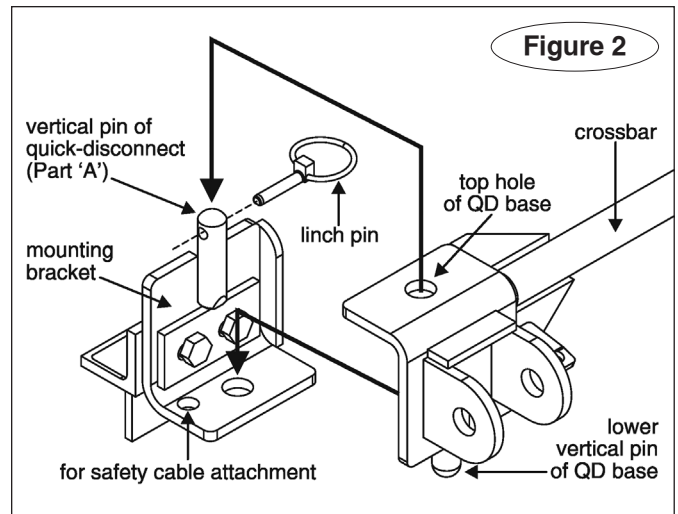
Use all mounting hardware and both safety plates. If all supplied materials are not used, the quick-disconnects, the quick-disconnect bases or other components may vibrate loose, which may cause property

damage, personal injury or even death.

2. Now, test-fit the crossbar – lower the crossbar (Figure 2) over the quick-disconnects. The vertical pins at the top of both QDs should fit through the top holes at the ends of the crossbar (Figure 2), and the vertical pins at the bottom of the crossbar should fit through the lower holes on the quick-disconnects (Figure 2).

3. The quick-disconnects must be positioned so that the tow bar is centered on the front of the vehicle.

If necessary, adjust the quick-disconnects by moving
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Installing the 'quick-disconnect' system

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them to the left or the right, until the tow bar is centered to the front of the vehicle.

CAUTION

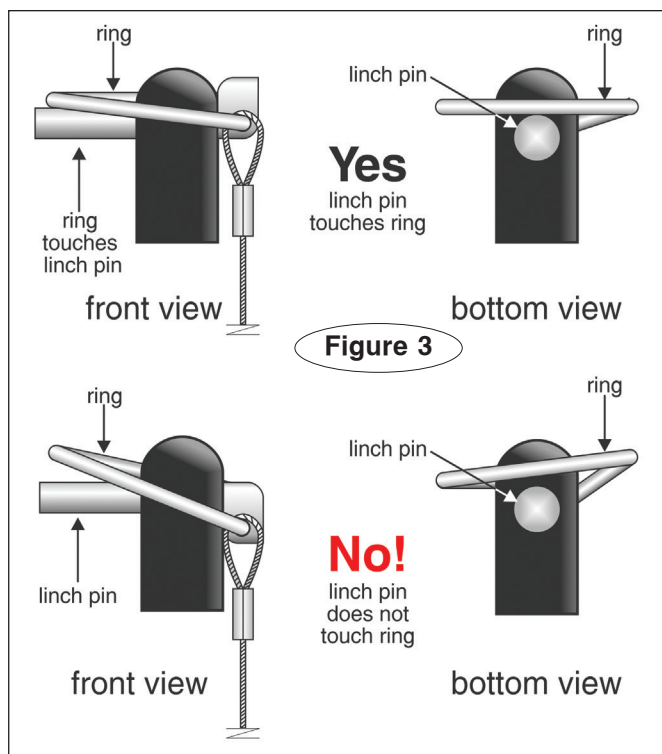
The quick-disconnects must be centered on the baseplate. If they are attached too far to the left or the right, the tow bar will not be centered on the towed vehicle, which will cause excessive tire wear and other consequential, non-warranty damage.

4. Once the tow bar slides on and off easily, torque the four bolts to 75 ft./lbs. Again, test-fit the QD crossbar over the QDs, to verify that it slides on and off easily. If not, adjust the QDs again.

5. Insert the lynch pins (Figure 3) through the upper holes in the vertical pins on both QDs. All lynch pins must be locked. The rings are spring-loaded – they must be snapped over the pin, with the pin touching the ring, in order to keep the tow bar secure. If a pin does not touch the ring, rotate the pin around the ring.

⚠ WARNING

Towing vibrations will force the lynch pins out unless they are properly locked in place over the vertical pins on both quick-disconnects. Refer to Figure 3.



Failure to properly attach and lock all lynch pins will result in the loss of the towed vehicle, which may cause property damage, personal injury or even death.

CONNECTING THE TOW BAR

CAUTION

Use caution when handling the tow bar – if your hands, fingers or any part of your body are caught between moving components, they can be pinched, cut or otherwise injured.

1. Follow the preceding section in this manual – “Installing the ‘quick-disconnect’ system” – to attach the tow bar quick-disconnects (“QDs”) and the QD bases.

Note: the quick-disconnect system is not used with

ROADMASTER ‘MS’ or ‘MX’ series baseplates. Instead, the tow bar is connected directly to the baseplate with the base pins and lynch pins.

The QD system is also not used with EZ5 baseplates.

With these exceptions, the instructions below apply.

2. Drive the vehicle within three or three-and-a-half feet of the motorhome hitch receiver. The vehicle does not have to be perfectly centered to the hitch receiver, just close. Then, put the vehicle in gear (park), set the emergency brake and chock one of the wheels.

3. With the tow bar in the folded position (Figure 4), insert the stinger into the motorhome hitch receiver and attach the stinger to the hitch receiver with the hitch pin and clip (Figure 4).

CAUTION

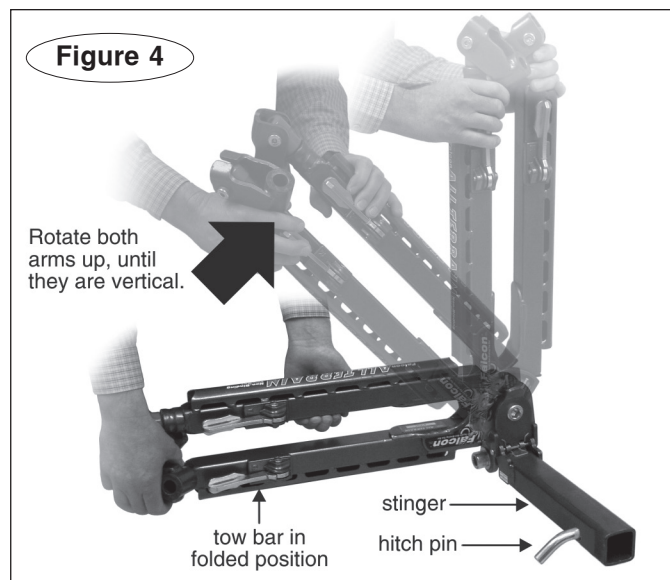
Attach the tow bar so that the locking mechanisms and the release latch are pointing up. Components of the tow bar may be damaged if the tow bar is attached with the release latch and the locking mechanisms pointing down.

4. Hold both tow bar arms firmly and rotate them up, so that they are vertical, as shown in Figure 4.

⚠ WARNING

Never release the tow bar arms when they are in the vertical position. The arms can fall and cause severe

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Connecting the tow bar

continued from preceding page

personal injury.

5. Push the release latch (Figure 5) forward, to bring both arms down to a horizontal position.

Standing to one side, swing both arms away from you. Then, align the holes in the outermost arm with the holes in one of the tabs on the quick-disconnect base (Figure 6).

Attach the tow bar arm to the quick-disconnect base with one of the included base pins (Figure 6). Attach the arm so that the head of the shoulder bolt (Figure 6) is facing up. Lock the base pin with a linch pin (Figure 6) or optional padlock – part number 301 (one padlock) or 302 (two padlocks).

The linch pin must be locked. The ring (Figure 3) is spring-loaded – it must be snapped over the pin, as shown in Figure 3, with the curved side of the linch pin touching the ring, in order to keep the base pin secure.

WARNING

Both tow bar arms must be attached to the quick-disconnect bases and locked with a linch pin. Towing vibrations will force the linch pins out unless they are properly locked in place over the base pins on both quick-disconnect bases.

Failure to properly install and lock both base pins will result in the loss of the towed vehicle, which may cause property damage, personal injury or even death.

6. Now, swing the other arm to the opposite side and connect it in the same manner.

7. Attach the safety cables and plug in the electrical wiring cord, according to the supplier's instructions.

Before towing the vehicle, be sure the steering is unlocked, the transmission is in the proper setting and the emergency brake is released. Remove the wheel chock.

Check the manufacturer's specifications, the owner's manual, or talk to the installer for the proper towing procedure(s) or requirement(s) for the vehicle to be towed.

WARNING

Do not tow the vehicle until the tow bar is attached with all pins or padlocks. Unless the tow bar is secured to both vehicles with all appropriate pins or padlocks, the vehicle will detach, which may cause property damage, personal injury or even death.

When you drive away, steer briefly to the left and then to the right, to extend, self-center and lock the tow bar.

Always stop at this time. Check the tow bar to ensure that both arms are locked before assuming highway speed. Additionally, check the other components of your towing

system, to ensure that they are fully engaged.

WARNING

Both tow bar arms must be locked before towing. If they are not, the momentum of the towed vehicle will apply excessive force to the tow bar arms and other components of the towing system, which may cause the towing system to fail, resulting in property damage, personal injury or even death.

WARNING

Do not tow a vehicle using a tow bar baseplate, safety cables or a hitch receiver rated less than the actual weight of the towed vehicle.

If the baseplate, safety cables, hitch receiver or any supplementary towing equipment is not rated at the weight of the towed vehicle and all its contents, it may fail during towing, causing property damage, personal injury or even death.

WARNING

If the motorhome hitch receiver has an extension, do not tow if the tow bar is more than three inches out of level.

Receiver extensions cause the towing system to swing much higher and lower than towing systems without extensions. This enlarged arc of motion creates excessive strain on the tow bar, baseplate and frame, which can cause the towing system to fail, causing property damage, personal injury or even death.

Figure 5

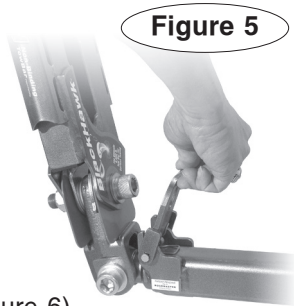
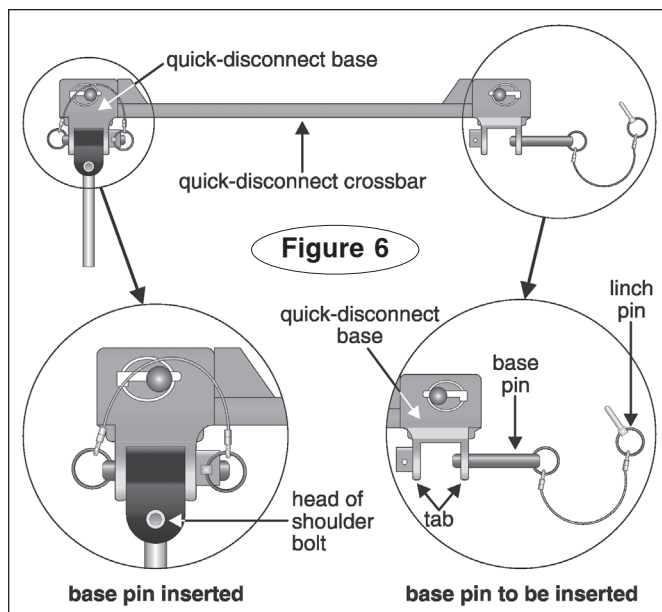


Figure 6



DISCONNECTING THE TOW BAR

1. Disconnecting the tow bar is essentially the reverse of connecting it. First, always try to park on level ground, with the towed vehicle in line with the motorhome. This will eliminate most of the tension between the vehicles, allowing for an easier disconnect.

2. Disconnect the electrical wiring harness, safety cables and any other towing system accessories.

3. Lift the release handles on each tow bar arm (Figure 8) to release the locking mechanisms.

(Usually, one of the handles will require more pressure to release. This is the arm that has the majority of the tension between the two vehicles.)

WARNING

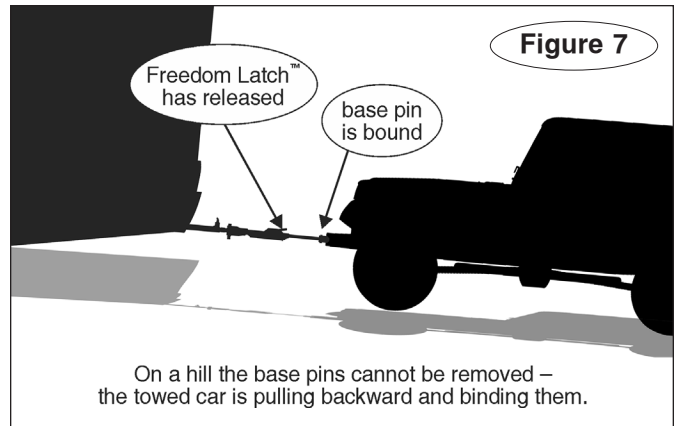
Always put the towed vehicle in gear (park), set the emergency brake and chock one of the wheels after lifting the release handles, and before removing the base pins. Failure to do so may result in a 'runaway' vehicle or may crush you between the towed vehicle and the motorhome, causing property damage, personal injury or even death.

4. Put the towed vehicle in gear (park), set the emergency brake and chock one of the wheels.

5. Remove the base pins and store the tow bar on the motorhome by reversing the connection procedure (under "Connecting the tow bar").

Note: if you must park on an uphill incline, you may find that you cannot remove the base pins even with the tow bar arms released. The weight of the towed vehicle trying to roll back (Figure 7) is binding the pins in place.

Allow the towed vehicle to idle forward just enough to take the tension of this weight off the pins. Then hold the



vehicle in position by first applying the emergency brake, then shifting into park.

Once the tension is off, lift the release handles again and the pins will slide out easily.

ROADMASTER recommends replacing at least one of the linch pins with a padlock (part number 301, 302 or 308) to prevent accidental release or theft.

CAUTION

The tow bar can be stored on the motorhome with the arms rotated to the left or the right. To avoid the possibility of damage to the bushings, rotate the arms away from the engine exhaust.

The bushings at the end of the tow bar arms can be warped by heat from the exhaust. If the bushings are warped, the tow bar arms will not slide easily, or they may not slide at all – it may be difficult to connect or disconnect the tow bar until the bushings are replaced.

HOW TO USE SAFETY CABLES

Safety cables are an integral part of your towing system. They are a secondary safety device, required by law in many states. This section and the following section will acquaint you with how to use them properly.

- The safety cables must connect the towing vehicle to the towed vehicle, frame to frame.

- Choose safety cables based on the weight of the towed vehicle. **The weight capacity of the safety cables must meet or exceed the towed weight, or the safety cables will fail.** Refer to page one for further information.

- Pull the safety cables so that all the slack is at the motorhome. **Make sure there is enough slack in the cables at the motorhome to allow for sharp turns** – if there is not enough slack, the towing system will be severely damaged when the motorhome turns a sharp corner.

- The safety cables must be the correct length...
 - Make sure the cables are not too short – if you use a receiver hitch extension or other equipment that extends the distance between the towed vehicle and the motorhome, the standard cables may be too short. If the

cables are too short, the towing system will be severely damaged when the motorhome turns a sharp corner.

(Safety cable extensions in a wide variety of lengths are available from ROADMASTER.)

- Make sure the cables are not too long – the cables should not hang down to the extent they may catch on obstructions or drag on the ground. This much slack could cause damage to the towing system, the towed vehicle or the motorhome.

If the cables are too long, wrap the excess cable around the tow bar to take up the slack. **Make sure there is enough slack in the cables at the motorhome to allow for sharp turns.**

Damage caused by using safety cables of an incorrect length is not covered under warranty.

- Always cross the cables under the hitch receiver, as shown in Figure 8 under "Proper installation of safety cables." In the unlikely event the tow bar separates from the motorhome, crossing the cables will help prevent the tow bar from dragging on the ground, which can cause

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How to use safety cables

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the tow bar to “pole vault” the towed vehicle.

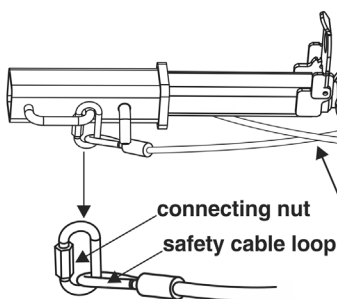
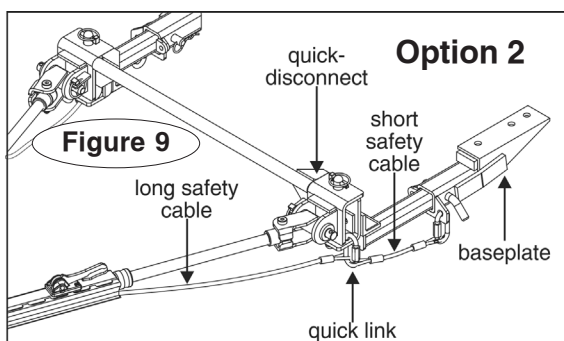
- Some ROADMASTER tow bar mounting kits with removable arms use two safety cables on each side. If two sets of safety cables are required, both must be used. This is required by law. Refer to “Proper installation of safety cables” for further information.



WARNING

Failure to follow these instructions may cause property damage, personal injury or even death.

PROPER INSTALLATION OF SAFETY CABLES



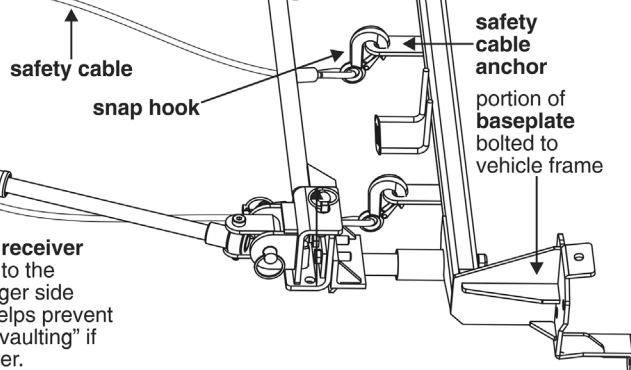
Use **quick links** for easy attachment and removal of the safety cables.

Cross the safety cables under the hitch receiver and stinger (Attach the ends of one cable to the driver's side of the tow bar and the passenger side of the motorhome, and vice versa.). This helps prevent the tow bar from hitting the road and “pole vaulting” if the tow bar separates from the hitch receiver.

Option 1 (Safety cable anchor is not present on all baseplates.)

Figure 8

Use the built-in **cable guides** to help prevent damage to the safety cables and electrical cord and for a clean, uncluttered appearance.



For all towing systems...

Use the built-in **cable guides** and cross the safety cables under the hitch receiver, as shown in Figure 8.

Unscrew the **connecting nuts** on each **quick link** to connect the **safety cable loops**. Finger-tighten the nuts firmly, until the loop is completely closed, to secure the attachment. Do not substitute carabiners or other devices for the quick links – the quick links are designed to hold the weight of a towed vehicle; carabiners are not.

Option 1

If the tow bar baseplate is similar to the one shown in Figure 8 and the safety cables are long enough, connect the snap hook (or quick link) to the safety cable anchor built into the baseplate.

Note: the snap hooks can be attached at either the towed vehicle or the motorhome. But if you attach them at the towed vehicle you can quickly store the safety cables,

as well as the power cord, underneath the tow bar cover (optional, part number 055-3). When you disconnect the tow bar to store it at the back of the motorhome, disconnect the cables and cord at the towed vehicle; leave them connected at the motorhome. Then fold the cables and cord up with the tow bar.

Use this method only when traveling. For extended storage, see page 9.

Option 2

Some ROADMASTER tow bar baseplates with removable arms, such as the one in Figure 9, use both a long safety cable and a short safety cable on each side.

Each **long safety cable** runs from the towing vehicle to a **quick link** attaching it to one of the **quick-disconnects**. This quick link is also an attachment point for one of the **short safety cables**; another quick link attaches the short

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Proper installation of safety cables

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safety cable to the **baseplate**.

WARNING

The safety cables must be carefully routed so that they cannot become pinched, frayed, scraped or otherwise damaged, and so they will not drag when going over dips or low spots. Do not use the cables if they show any signs of wear or damage – immediately discontinue towing and replace the cables.

Failure to follow these instructions will result in cable failure, which may cause property damage, personal injury or even death.

WARNING

If the quick links are not completely tightened, with the loop closed, the safety cables may detach. In the event of a towing system failure, the towed vehicle will detach, which may cause property damage, personal injury or even death.

WARNING

If your towing system requires two sets of safety cables, always use both the long and the short safety cables. Connect them as shown in Figure 9. Otherwise, in the event of a towing system failure, the towed vehicle will detach, which may cause property damage, personal injury or even death.

STAY WITHIN THE ‘SAFE ZONE’

Towing with a motorhome-mounted tow bar which has an upward or downward slope puts undue strain on the entire towing system. For that reason, **do not tow if the tow bar is not within the ‘Safe Zone’ – no more than three inches above or below level.**

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 baseplate, significant wear and tear on the vehicle’s suspension and frame and the eventual failure of the towing system.

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

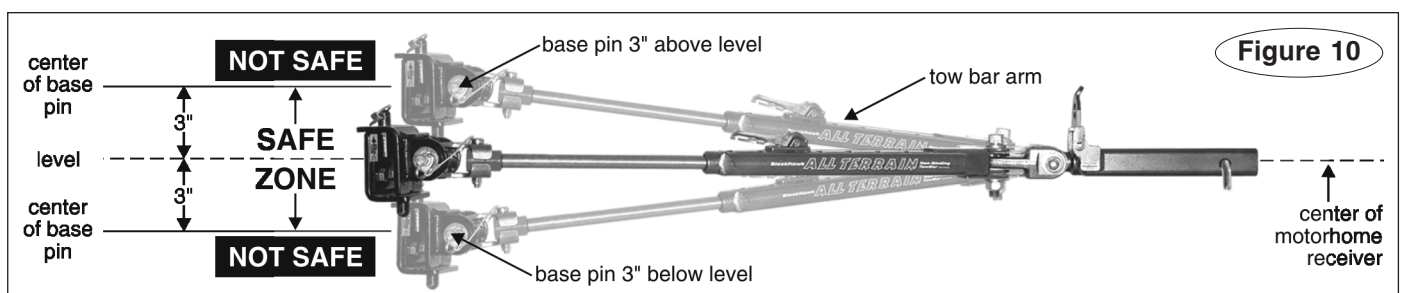
Compare these two measurements. To be within the Safe Zone, they cannot be more than three inches apart if the base pin is above or below the motorhome hitch receiver. See Figure 10.

If the tow bar is not within the Safe Zone, you must purchase a hitch accessory to raise or lower the hitch receiver. ROADMASTER has two accessories available – Hi-Low Hitches and Dual Hitch Receivers – which will raise or lower the hitch receiver from two to 10 inches, depending on the model.

Towing with the tow bar more than three inches above or below level will void the ROADMASTER warranty.

WARNING

Failure to follow these instructions may cause property damage, personal injury or even death.



CARE AND CLEANING

As is the case with most precision equipment, frequent cleaning and care results in better performance and longevity. Use the following guidelines to keep your tow bar clean and well-lubricated.

Always clean the tow bar before lubricating. Use a water-soluble cleaner such as ROADMASTER Tow Bar Cleaner (part number 9932).

Clean all moving parts, paying special attention to the tow bar arms and the locking mechanisms. No matter what part is being cleaned, the method is the same – 1) spray a liberal amount of cleaner over it; 2) flex the component back and forth to work out any accumulated dirt; 3) wipe it down; and 4) repeat until clean.

To clean one of the tow bar arms – with the tow bar on the motorhome, remove the black cap at the end of the tow bar arm. (It may be necessary to move the tow bar arm to the left or right to gain clearance.)

Note: the inside of the cap is beveled on three sides, and straight on one side. It must be reinserted into the tow bar arm with the straight side parallel to the notch at the end of the tow bar arm. See Figure 11.

Next, raise the arm and spray cleaner at the top of the inner/outer arm assembly (Figure 12). Move the inner arm (Figure 12) up and down to flush out dirt from the bottom of the assembly. Wipe the dirt off and repeat until the arm is clean. Repeat for the other arm.

CAUTION

Do not use petroleum-based products to clean or lubricate the tow bar. Petroleum will attract dirt and dust, which will impede the operation of the sliding arms and/or other components. Certain petroleum products may also corrode non-metallic components.

Damage caused by using a petroleum-based product to clean or lubricate the tow bar is not covered under warranty.

After cleaning the tow bar, wipe any remaining cleaner away.

To clean one of the locking mechanisms, first spray cleaner into the mechanism, then raise the tow bar arm. Move the release handle (Figure 8) up and down to flush out dirt from the bottom of the assembly.

Close the arm. This will bring the internal locking components close to the opening that was covered by the

black cap.

Spray cleaner through the opening and over the locking mechanism, then use a wire brush to remove any dirt. Repeat until the locking mechanism is clean. Allow the mechanism to air dry.

Repeat for the other locking mechanism.

Now that you have a clean, dry tow bar, use a dry silicone lubricant, such as LubeMaster (part number 747), to lubricate the tow bar – spray a liberal amount of the silicone into all moving parts. Flex the tow bar components, to work the lubricant in. LubeMaster sprays on wet, then dries in seconds, so it won't attract dirt or debris.

(Using a silicone lubricant on the base pins will make them easier to pull out, and also creates an oxygen barrier which helps prevent corrosion.)

Spray silicone lubricant inside both of the locking mechanisms. After the lubricant has dried, move the release handles up and down to work the lubricant in.

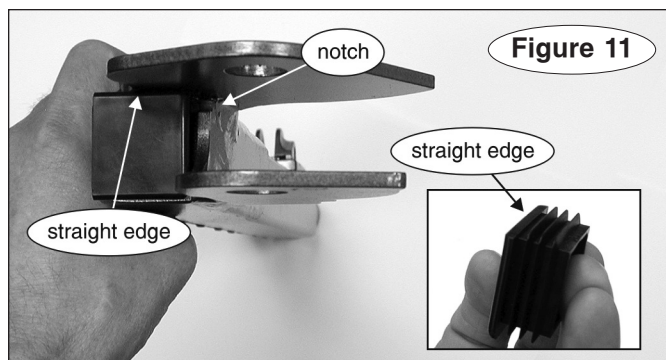
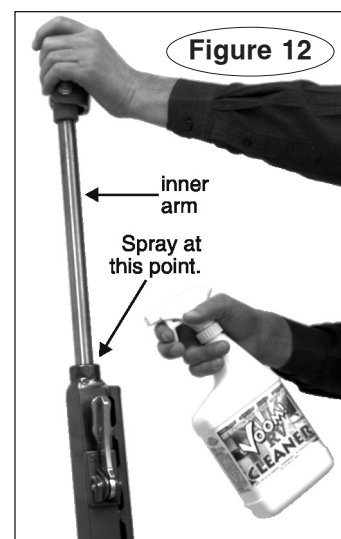
CAUTION

Always clean the locking mechanisms, as described above, before lubricating them. Silicone coats and covers in a thin layer. If it is not removed, it will reduce the clearance for the locking mechanisms, preventing proper operation.

Extended storage – before storing your Falcon All Terrain for an extended period of time, be sure to clean and lubricate it as above.

Store the tow bar in its cover (optional, part number 055-3), to protect it from the elements.

Note: to remove scratches and restore luster on the stainless steel arms, we suggest that you use extra fine (0000) steel wool, 3M "Scotch Brite" (fine pad) or a similar product.



LIMITED WARRANTY

1. WARRANTY

1a. WARRANTY OF CONFORMITY AT TIME OF SALE

ROADMASTER, Inc. warrants that at the time of sale of this product it will be free from defects in material and manufacture and will conform to ROADMASTER'S specifications for the product.

1b. CONDITIONAL ONE-YEAR WARRANTY

In addition to the preceding time-of-sale warranty, if the product registration card is completely and accurately filled out and mailed to ROADMASTER within thirty (30) days of purchase, ROADMASTER will provide an additional warranty that for a period of one year after sale the product will remain in good working order, PROVIDED THAT the product is installed and maintained in accordance with ROADMASTER'S instructions and is not subjected to: (a) alteration or unauthorized repairs or repairs by anyone other than ROADMASTER or a ROADMASTER-authorized service center, (b) misuse, abuse, commercial use, or improper maintenance, (c) Acts of God (including without limitation hurricanes, tornadoes, floods, or other severe weather or natural phenomena), (d) failures due to products not supplied by ROADMASTER, or (e) other treatments, uses, or installations for which the product was not intended. This warranty extends only to the first retail purchaser-consumer of the product and is not transferable.

EXTENDED WARRANTY PERIOD: If ROADMASTER receives the product registration card, completely and accurately filled out, within thirty (30) days of purchase, ROADMASTER will enlarge the one-year warranty period in the preceding paragraph to a period of two years.

2. DISCLAIMER OF OTHER WARRANTIES

The preceding warranties are the exclusive and sole express warranties given by ROADMASTER. They supersede any prior, contrary or additional representations, whether oral or written. No agent, representative, dealer or employee has the authority to alter or increase the obligations or limitations of this warranty. Any implied warranties, including the WARRANTY OF MERCHANTABILITY and any WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, are limited in duration to thirty days or the term of the applicable express warranty provided above, whichever is longer.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

3. EXCLUSIVE REMEDY FOR ANY NONCONFORMITIES

If during the applicable Warranty Period, the product does not conform to the preceding Warranties, notify ROADMASTER as provided below, and within a reasonable time ROADMASTER will provide, at its option, one of the following: (1) replacement components for any nonconforming or defective product or components or (2) the percentage of the purchase price for the nonconforming product equal to the percentage of the Warranty Period remaining when ROADMASTER is notified of the nonconformity. ROADMASTER will, at its option, (a) use new and/or reconditioned parts in performing warranty repairs and making replacement products, (b) use parts or products of original or improved design

in the repair or replacement. If ROADMASTER repairs or replaces a product, its warranty continues for the remaining portion of the original Warranty Period or 60 days from the date of the return shipment to the customer, whichever is greater. All replaced products and all parts removed from repaired products become the property of ROADMASTER. ROADMASTER will not provide, and will not be liable for, labor, costs of removal or reinstallation of components, disposal, shipping, freight, taxes, or other incidental charges.

THESE REMEDIES ARE THE EXCLUSIVE AND SOLE REMEDIES FOR ANY BREACH OF WARRANTY.

For any breach of warranty, the Owner must telephone ROADMASTER at 1-800-669-9690 within thirty (30) days after discovering the nonconformity. Do not return any product without first calling ROADMASTER and getting a return authorization number. Returned products must include the return authorization number and a copy of the original invoice, bill or other proof of the date of purchase. The date of purchase must coincide with the original warranty registration card on file. ROADMASTER will authorize (a) shipment of the product to ROADMASTER or (b) repair or replacement at the nearest warranty service center—in both cases with shipping at your expense. Do not purchase replacement parts or pay for repair labor—you will not be reimbursed. Compliance with the requirements of this paragraph is a condition to coverage under the Warranty: if these requirements are not complied with, ROADMASTER will have no obligation to provide any remedy for any breach of warranty.

4. DISCLAIMER OF INCIDENTAL AND CONSEQUENTIAL DAMAGES

IN NO EVENT SHALL ROADMASTER BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM NONDELIVERY OR FROM THE USE, MISUSE OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

5. APPLICABLE LAW

This Warranty will be interpreted, construed, and enforced in all respects in accordance with the laws of the State of Washington, without reference to its choice of law rules. The U.N. Convention on Contracts for the International Sale of Goods will not apply to this Warranty.

6. SEVERABILITY

If any provision of this warranty is found to be invalid or unenforceable, then the remainder shall have full force and effect, and the invalid provision shall be partially enforced to the maximum extent permitted by law to effectuate the purpose of the agreement.

7. ADDRESS FOR NOTICES TO ROADMASTER

ROADMASTER, Inc., 6110 NE 127th Ave, Vancouver, WA 98682

This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

Towed vehicle protection

Protect your towed vehicle's finish, headlights and windshield against damage with these two ROADMASTER products!



Made in the U.S.A.



Protect your towed vehicle and RV against dings and rock chips!

The Guardian is crafted from rotationally-molded, high-impact polyethylene to absorb the impact of rocks, gravel and road debris – instead of ricocheting it back at the motorhome.

The Guardian can be attached and removed in seconds, and fits all ROADMASTER tow bars equipped with quick-disconnects. (Note: MX, MS and EZ5 base-plates will not accommodate the Guardian.)

The Guardian can also be used with a tow dolly to help protect your towed vehicle by using the Guardian bracket (part number 2000-8).

If you tow more than one vehicle, the second vehicle kit has all the mounting hardware necessary to swap the Guardian from one vehicle to another.



U.S. patent number
8,708,369



A bumper-to-bumper blanket of protection!

The Tow Defender's all-weather, heavy-duty screen deflects rocks, gravel and road debris down and away, protecting your towed vehicle's finish, headlights and windshield against chips and dings. The vinyl-coated mesh lets air through, keeping it low and over the road.

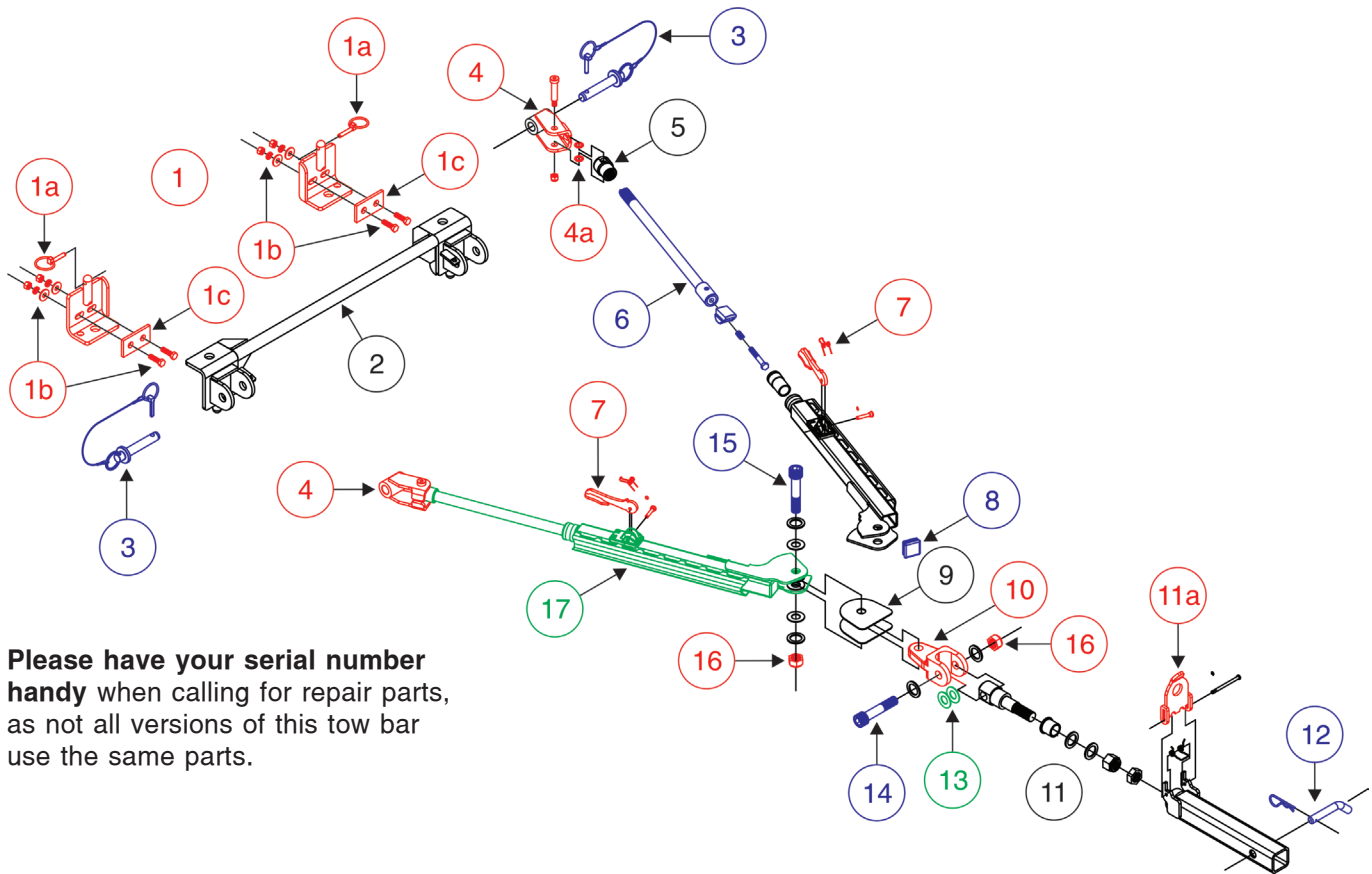
Fully extended, both Tow Defenders offer 20 square feet of protection, and are held in place with shock-absorbing gas struts. Once you've reached your destination, roll up the Tow Defender, snap the elastic straps around each end, and store it against the motorhome.

- Quick installation and release
- Lightweight and compact – weighs just 14.5 pounds, and rolls up to four inches in diameter
- Powder-coated steel supports and heavy-duty gas struts for maximum durability, support and cornering flexibility

For maximum protection, use a Tow Defender and a Guardian.

Motorhomes kick up rocks, gravel and road debris, but so does oncoming traffic. A Tow Defender/Guardian combination protects your towed vehicle's finish, headlights and windshield against damage from both lanes.

FALCON ALL TERRAIN COMPONENTS



Please have your serial number handy when calling for repair parts, as not all versions of this tow bar use the same parts.

description	part number	description	part number
1 quick-disconnects, car side set (color-coded red)	222	10 yoke (color-coded red) <i>Note: please specify color (black or gray)</i>	480001
1a linch pins (two)	910024	11 stinger assembly (color-coded black)...	910019-20
1b quick-disconnect bolt kit (includes two backing plates – item 1c)	910005-00	11a storage latch (color-coded red)	B001353
1c quick-disconnect backing plate (one) ..	222-20	12 hitch pin and clip (color-coded blue)	910027
2 quick-disconnect crossbar only (color-coded black)	067	13 ¾" nylon washer (one each; color-coded green)	350358-00
quick-disconnect crossbar assembly (color-coded red, black and blue; includes 1, 2 and 3)	910021-00	<i>Note: nine needed for complete tow bar nylon washer repair</i>	
3 base pin, cable and linch pin (two each; color-coded blue)	910029	14 ¾" bolt (one each; color-coded blue) ...	350184-50
4 collar assembly, complete (one each; color-coded red)	9200-6	15 ¾" bolt (one each; color-coded blue) ...	350199-00
4a ½" nylon washer (one)	350356-00	16 ¾" nut (one each; color-coded red).....	350267-01
5 round nut (color-coded black).....	650004-80	17 inner/outer arm assembly, complete (color-coded green) driver's side	910021-12
6 inner arm assembly (one; color-coded blue)	910021-65	passenger side	910021-22
7 All Terrain handle repair kit (two sets; color-coded red – includes two lock lever pins, two lever springs, two E-clips and two handles)	910003-45		
8 outer arm cap (color-coded blue)	200140-40		
9 finger guard (one; color-coded black) <i>Note: please specify color (black or red)</i>	A001237		