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. 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 on a metal label on 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: __________________________

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 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.
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 mounting bracket, 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 approximately level with the ball hitch on the motorhome. Towing with the tow bar at an upward or downward slope puts undue strain on the tow bar bracket and the ball mount. Driving over sharp inclines or declines could force the coupler off the hitch ball.

If it is necessary to raise or lower the hitch, two optional accessories are available: an adjustable ball hitch, part number 880; and roller hitch drops, in 4” through 10” drops (part numbers 051-4 through 051-10).

• 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).

• Always use safety cables when towing. The safety cables must connect the towed vehicle to the towing vehicle, frame to frame.

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.

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

• The StowMaster All Terrain tow bar is rated at a maximum of 6,000 pounds carrying capacity; therefore the weight of the towed vehicle and all its contents cannot exceed 6,000 pounds. In addition, the hitch ball, 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 linch 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.

• 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.

• Inspect the system before towing – check the mounts, brackets, bolts, fasteners, wiring, the safety cables and all other system components each time before towing. Check the coupler ball clamp and ball socket (Figure 1) for fractures or cracks in the steel.

If any component is damaged, replace it before towing.

Check the nut at the bottom of the threaded hitch ball shank (Figure 2) to ensure that it is tightened to the manufacturer's torque specifications. Inspect the nut and the bottom of the threaded hitch ball shank (Figure 2) for signs of wear caused when the motorhome ‘bottoms out.’ If the nut is damaged, replace it; if the threaded shank is damaged, replace the hitch ball and shank.

Additionally, check the tow bar bracket every 3,000 miles – inspect for any fractures or cracks in the steel, or any visible damage. Do not tow if the tow bar bracket is damaged.

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

• 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 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.

• 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 continued on next page
Safe towing practices
continued from preceding page
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 hitch ball must be two inches in diameter. If the
hitch ball diameter is smaller than two inches, the coupler
may disengage during towing.

Also, the diameter of the threaded hitch ball shank
(Figure 2) must match the diameter of the hole in the
ball mount hitch. If the threaded shank is too small, tow-
ing vibrations could cause the hitch ball to unthread and
separate from the ball mount hitch.

- 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 prop-
erty damage, personal injury or even death.

INSTALLER’S SAFETY CHECKLIST

The following safety checklist is provided to the installer
with the instructions for installing the StowMaster All Ter-
rain tow bar. It is repeated here for your information.

As a precaution, verify that all safety requirements have
been followed before towing the vehicle.

- The installer must be sure that the vehicle is suit-
able or adaptable for towing. Some vehicles must be
equipped with a transmission lube pump, an axle discon-
nect, 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 manufacturer’s instructions for the proper
procedure(s) to prepare the vehicle for towing.

- 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 exces-
sive tire wear and other consequential, non-warranty dam-
age.

- Stress to the owner that the tow bar must be ap-
proximately level with the ball hitch on the motorhome.
Towing with the tow bar at an upward or downward slope
puts undue strain on the tow bar mounting bracket and the
ball mount. Driving over sharp inclines or declines could
force the coupler off the hitch ball.

- 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 StowMaster All Terrain tow bar is rated at a maxi-
mum of 6,000 pounds carrying capacity; therefore the
weight of the towed vehicle and all its contents can-
not exceed 6,000 pounds. In addition, the hitch ball, 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.

- Caution the owner to use a hitch ball with a two-
inch diameter. If the hitch ball diameter is smaller than
two inches, the coupler may disengage during towing.

In addition, the diameter of the threaded hitch ball
shank must match the diameter of the hole size in the ball
mount hitch. If the threaded hitch ball shank is too small,
towing vibrations could cause the hitch ball to unthread and
separate from the ball mount hitch.

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

- The tow bar must be mounted upright, with the cou-
lper facing out. See Figure 3. Never mount the tow bar
with the coupler facing any other way — the tow bar arms
and other components will be severely damaged during

- Caution the owner to secure the tow bar with linch
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.

- 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
continued on next page

Figure 3

coupler faces out
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 mounting bracket.

Note: the quick-disconnect system is not used with ROADMASTER ‘MS,’ ‘MX’ or ‘EZ5’ series mounting brackets. If the towed vehicle has MS, MX or EZ5 brackets, 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 brackets.

1. First, attach the quick-disconnects (“QDs,” parts “A” and “B” in Figure 4) to the tow bar mounting brackets. Attach the QDs so that the vertical pin on each is pointing up, as shown in Figure 4.

   Attach part “A” on the passenger side, and part “B” on the driver side. Use the supplied ½” x 1¾” bolts, the two safety plates (parts “C”), and the flat washers, lock washers and nuts, as shown in Figure 4.

   Note that both QDs have an extra hole – “D” in Figure 4 – for safety cable attachment. Mount parts “A” and “B” so that the “D” holes are to the outside.

2. Now, test-fit the crossbar — lower the crossbar (Figure 5) to the tow bar mounting brackets. Do not tighten any of the bolts – leave them loose for now – they will be tightened later.

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

   ![Figure 5](continued on next page)
Installing the ‘quick-disconnect’ system

continued from preceding page

5) 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 5), and the vertical pins at the bottom of the crossbar should fit through the lower holes on the quick-disconnects (Figure 5).

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 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 mounting brackets. 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 crossbar slides on and off easily, torque the four bolts to 75 ft./lbs.

Again, test-fit the crossbar over the QDs, to verify that the crossbar slides on and off easily. If it does not, adjust the QDs again.

5. Both linch pins must be inserted through the upper holes in the vertical pins in parts “A” and “B,” as shown in Figure 5.

Both linch pins must be locked. The rings (Figure 6) are spring-loaded – they must be snapped over the pins, as shown in Figure 6, with the curved side of the linch pins touching the rings, in order to keep the QD bases secure.

WARNING

Towing vibrations will force the linch pins out unless they are properly locked in place over the vertical pins on both quick-disconnects. Refer to Figure 6. Failure to properly attach and lock both linch 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.

2. Drive the towed 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 one hand, press down on the passenger side release handle (the Freedom Latch™, Figure 7). With your other hand, hold the coupler and slide it toward the passenger side to disconnect the tow bar from the storage tab collar (Figure 8).

4. Swing the tow bar up, in a counterclockwise direction (Figure 9), until the bar is vertical. Then slide the driver’s side arm to the extreme right side of the stainless steel slider bar (Figure 10).

CAUTION

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

5. Lower the tow bar to position the coupler over the continued on next page
Connecting the tow bar
from preceding page

hitch ball. Slide the tow bar arms forward or backward, as needed, to maneuver the coupler over the hitch ball. If one of the tow bar arms does not slide forward or backward, lift the release handle (Figure 7) to unlock it.

6. With the coupler over the hitch ball, raise the coupler locking lever (Figure 11) until the tab 'ear' (Figure 11) just clears the tab hole (Figure 11), and pull straight back toward the towed vehicle.

Now, lower the coupler over the hitch ball so that it completely covers it, and slide the coupler locking lever (Figure 11) forward until it locks on the ball.

Note: an optional coupler lock (part number 305) is available for added protection against accidental coupler disconnect.

Be certain the coupler is properly locked onto the hitch ball. The tab ear will slide back into the tab hole when the mechanism is fully engaged.

⚠️ WARNING
If the coupler is not properly locked onto the hitch ball, as described above, it will release during towing.

7. Attach the safety cables (See “How to use safety cables” and “Proper installation of safety cables.”) and plug in the electrical wiring cord, according to the supplier’s instructions.

Before towing the vehicle, make 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 procedures or requirement(s) for the vehicle to be towed.

⚠️ WARNING
Do not tow the vehicle until the tow bar is properly 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
If the motorhome hitch receiver has an extension,
continued on next page

The tow bar will separate from the motorhome, which may cause property damage, personal injury or even death.
Connecting the tow bar
continued from preceding page

**WARNING**

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, brackets and frame, which can cause the towing system to fail, causing property damage, personal injury or even death.

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

4. Pull back on the coupler locking lever (Figure 11) to release the coupler, and lift the coupler off the ball.

   **Note:** if it is difficult to lift the coupler, the towed vehicle’s weight may be pressing against it. Release the pressure by pushing down on one or both of the release handles (the Freedom Latches™, Figure 7) to unlock them.

   **Note:** if you must park on an uphill incline, you may find that you cannot release the coupler even with the tow bar arms released. The weight of the towed vehicle trying to roll back (Figure 12) is binding the coupler in place.

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**WARNING**

Allow the towed vehicle to idle forward just enough to take the tension of this weight off the coupler. Then hold the vehicle in position by first applying the emergency-brake, then shifting into park.

Once the tension is off, pull back on the coupler locking lever to release the coupler.

5. Lift the coupler up, until the tow bar is completely vertical. Lift up on the release handle on the driver’s side arm, and allow the arm to compress.

   Slide the driver’s side arm to the extreme left side of the stainless steel slider bar. Lower the coupler down until the coupler rests on the driver’s side.

6. To secure the tow bar on the towed vehicle, lift the release handle (Figure 7) on the passenger side arm and move the coupler to the right, until the storage tab lock (Figure 8) slides through the storage tab collar (Figure 8), as shown in Figure 13.

7. To remove the tow bar, remove the two linch pins (Figures 5 and 6) at the top of both quick-disconnects, and lift the tow bar up and away.

   (ROADMASTER recommends replacing at least one linch pin with a padlock – part number 301 or 302 – to prevent accidental release or theft.)

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**CAUTION**

Unless the storage tab lock is in place (as shown in Figure 13) before the tow bar is removed, the base of the tow bar may fall, which may cause severe personal injury.
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 be rated at 6,000 pounds weight capacity (the maximum capacity of the StowMaster All-Terrain tow bar). The weight of the towed vehicle and all its contents cannot exceed 6,000 pounds.
- The safety cables must connect the towing vehicle to the towed vehicle, frame to frame.
- 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.
- 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 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 14 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 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

For all towing systems...

Use the built-in cable guides and cross the safety cables under the hitch receiver, as shown in Figure 14.

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 or other devices are not.

Option 1

If the tow bar mounting bracket is similar to the one shown in Figure 14 and the safety cables are long enough, connect the snap hook (or quick link) to the safety cable anchor built into the mounting bracket.

Note: the snap hooks can be attached at either the towed vehicle or the motorhome.

Option 2

Some ROADMASTER tow bar mounting brackets with removable arms, such as the one in Figure 15, 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 safety cable to the mounting bracket.

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.

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.

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 15. Otherwise, in the event of a towing system failure, the towed vehicle will detach, which 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 Voom RV (part number 9911) – it does an exceptional job of breaking down road film, dirt and grease.

Clean the interior of the coupler, and wipe away the old grease, dirt and debris.

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

Now that you have a clean, dry tow bar, use a dry silicone aerosol, such as LubeMaster (part number 747), to lubricate the tow bar – spray a liberal amount of silicone into all moving components, including the driver’s side collar.

Flex the tow bar components to work the lubricant in.

To lubricate the locking mechanisms, first clean the moving parts with a water-soluble cleaner, wipe away the excess until the mechanisms are clean and dry, then spray silicone lubricant inside (Figure 17). After the lubricant has dried, move the release handles up and down to work the lubricant in.

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.

Clean all moving components, paying special attention to the inner arms and the slider bar – with both tow bar arms lowered and extended, spray a liberal amount of cleaner on the inner arms and the end of each outer arm (Figure 16).

Raise the tow bar, until it is horizontal to the ground. Raise each release handle up, and retract and extend each tow bar arm several times. As the arm closes, the cleaner will lift dirt and debris from the interior of the outer arm. Wipe the dirt and debris off and repeat, if necessary, until each arm is clean.

Next, with both tow bar arms horizontal to the ground, spray cleaner across the stainless steel slider bar (Figure 16) and into the collar on the driver’s side arm. Then slide the driver’s side arm back and forth, across the slider bar. The cleaner will lift dirt and debris off the slider bar and collar. Wipe the dirt and debris off and repeat, if necessary, until the slider bar and collar are clean.

Clean the interior of the coupler, and wipe away the old grease, dirt and debris.

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

Now that you have a clean, dry tow bar, use a dry silicone aerosol, such as LubeMaster (part number 747), to lubricate the tow bar – spray a liberal amount of silicone into all moving components, including the driver’s side collar.

Flex the tow bar components to work the lubricant in.

To lubricate the locking mechanisms, first clean the moving parts with a water-soluble cleaner, wipe away the excess until the mechanisms are clean and dry, then spray silicone lubricant inside (Figure 17). 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.

Lubricate the coupler ball socket and ball clamp (Figure 1) with wheel bearing grease; lubricate all other moving components of the coupler with SAE 30 weight oil. (See “Atwood coupler information.”)

Extended storage – before storing your tow bar for an extended period of time, clean and lubricate it as directed above. Store the tow bar in its cover (optional, part number 052-2), to protect it from the elements.

Note: to remove scratches and restore luster on the inner arms, we suggest you use extra fine (0000) steel wool, 3M “Scotch Brite” (fine pad) or a similar product.
Following are the operation, latching and maintenance instructions from the coupler manufacturer, repeated here for your information. (References to trailer use do not apply to the StowMaster All-Terrain tow bar.)

**Operation**

⚠️ **Warning – Personal Injury**
- Safe towing practice requires the proper use of safety chains used in accordance with instructions provided by the trailer manufacturer.
- Check that the ball has been completely inserted into the coupler ball socket and the ball clamp (inside the coupler) is closed around the underside of the tow ball and the handle is in the closed position.
- The loaded weight of the trailer must never exceed the least capacity marked on the coupler, tow ball, hitch, trailer or vehicle.
- Check coupler, hitch and ball for damage or wear before each use. Assure all parts operate freely. Replace any component if worn or damaged.
- Failure to follow warnings and instructions could result in separation of tow vehicle and trailer which can result in death, personal injury and property damage.

⚠️ **Warning – Personal Injury**
- For proper tow vehicle and trailer hookup, towing performance and to prevent damage to hitch and trailer coupling, the tow vehicle and trailer are to be level with respect to flat ground after hitching up. If your trailer is not level, equipment is available to raise or lower the hitch ball.

**Caution – Product Damage**
- Use caution when backing or towing vehicle for hook-up, damage to coupler may result.
- Avoid sharp turns when towing or backing. Jackknifing could bend coupler or create extreme stress or fracture.

**Latching Instructions – Yoke Style Couplers**

⚠️ **Warning – Personal Injury**
- Always open latch handle before inserting ball.

1. To open, lift the latch handle and pull backward, raising the yoke and resting it on the nose of the coupler (Fig 9-A).
2. Place coupler on ball of same diameter as coupler and of same or greater capacity.
3. When ball is completely nested in ball socket, push latch handle forward until yoke drops over nose of coupler and the latch handle locking tips freely enter slots on top of coupler (Fig 9-B).
4. Extend jack to ground and lift car/trailer combination 2" - 4" to insure coupler is securely attached to tow ball. Retract jack completely before towing.
5. Insert padlock or bolt through lock hole in yoke for theft protection.

Note: these couplers are not adjustable for ball size.

**Maintenance**

1. Lubricate ball socket and ball clamp with wheel bearing grease. Clean and lubricate monthly.
2. Check towing hitch, ball and coupler for signs of wear before each trip. Replace coupler if damaged or worn.
3. Lubricate moving or sliding parts monthly with SAE 30 weight oil.
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 speci-
       fications 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 prod-
       uct 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 su-
persedede any prior, contrary or additional representations,
whether oral or written. No agent, representative, dealer
or employee has the authority to alter or increase the ob-
ligations or limitations of this warranty. Any implied warran-
ties, 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 reason-
able time ROADMASTER will provide, at its option, one of
the following: (1) replacement components for any non-
conforming 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 noncon-
formity. 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 War-
ranty Period or 60 days from the date of the return ship-
ment 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, ship-
ing, 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 war-
   ranty registration card on file. ROADMASTER will au-
   thorize (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 rem-
   edy 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 CONSE-
QUENTIAL DAMAGES, WHETHER RESULTING FROM
   NONDELIVERY OR FROM THE USE, MISUSE OR IN-
ABILITY 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 limita-
   tion may not apply to you.

5. APPLICABLE LAW
   This Warranty will be interpreted, construed, and en-
forced 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 Interna-
tional 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.
Please have your serial number handy when calling for repair parts, as not all versions of this tow bar use the same parts.