



# SKID PLATE INSTALLATION INSTRUCTIONS

**KIT# E34/M30**

85-4682-00  
02-11

ROADMASTER, Inc.

6110 NE 127th Ave.

Vancouver, WA 98682

1-800-669-9690 ext.117

www.roadmasterinc.com



## Front Mounting Point

Part #	Qty
Skid Plate .....	1
5/16" x 1" Bolts .....	5
5/16" Lock Washers .....	5
5/16" Flat Washers .....	5
5/16" Nuts.....	5

## Rear Mounting Point

Part #	Qty
1/2" x 1-1/4" Bolts.....	2
1/2" Lock Washers.....	2
1" x 1/4" Pipe Spacers.....	2
3/16" x 1" x 2" Threaded Backing Plates w/wire..	2
RACESKIDS STICKER.....	1

## IMPORTANT

This product is designed to help prevent damage to the undercarriage of the vehicle. Although this product will significantly reduce the amount of vehicle damage, it will not eliminate all damage, under all circumstances. Correspondingly, ROADMASTER expressly disallows any and all claims related to damage incurred to the vehicle.



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1. Bend the two supplied 3/16" x 1" x 2" threaded backing plates with wire so that they match the bends shown in Figure 1 as much as possible.
2. Now, on each side, place a backing plate with wire into the largest of the two holes in the frame and align the threaded backing plate directly above the smaller of the two holes (Fig.2).



3. On each side, place one of the supplied 1" x 1/4" pipe spacers between the skid plate and the frame. Place one of the supplied 1/2" lock washers over a 1/2" x 1/4" bolt and thread it up through the skid plate, pipe spacer and into the threaded backing plate. Now, use two clamps to secure the skid plate to the radiator support (Fig.3).
4. Tighten the rear bolts to 56 ft./lbs.
5. Using the five pre-existing holes in the skid plate as a template, drill 5/16" holes up through the radiator support (Fig.4). *Note:* use a piece of metal as a buffer between the drill bit and the engine components.





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Fig.5



Fig.6

6. Place one of the supplied 5/16" lock washers over a 5/16" x 1" bolt, and bolt up through the skid plate and the radiator support. Finish with a 5/16" flat washer and nut. Repeat this process for the remaining four holes (Fig.5).
7. Use a pair of pliers to break the wires off the two threaded backing plates (Fig.6).

## BOLT TORQUE REQUIREMENTS

Note: the torque values represented below are intended as general guidelines. Torque requirements for specific applications may vary. Roadmaster does not warrant this information to be accurate for all applications and disclaims all liability for any claims or damages which may result from its use.

### STANDARD BOLTS

Thread Size	Grade	Torque
5/16.....	5.....	13 ft./lb.
3/8.....	5.....	23 ft./lb.
7/16.....	5.....	37 ft./lb.
1/2.....	5.....	56 ft./lb.
5/8.....	5.....	150 ft./lb.

### METRIC BOLTS

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

### METRIC BOLTS

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

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