

SNO-WAY®

SNOW & ICE CONTROL EQUIPMENT

ASSEMBLY & INSTALLATION INSTRUCTIONS

VEHICLE MOUNT KIT 99100879
FOR
26 PLOW SERIES ONLY

TO FIT

1994-2002 Dodge RAM BR1500 4x4



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1. THINK SAFETY, ALWAYS WEAR SAFETY GLASSES WHEN PERFORMING THE OPERATIONS PRESCRIBED IN THESE INSTRUCTIONS
2. READ ALL INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING INSTALLATION
3. BEFORE BEGINNING WORK MAKE SURE TO SET PARKING BRAKE AND CHOCK WHEELS



MINIMUM VEHICLE RECOMMENDATIONS

Heavy Duty Alternator
 Heavy Duty Battery
 Air-Adjustable Suspension Kit
 Manufacturers Snowplow Package

ASSEMBLY TOOLS NEEDED

Drill Bits 1/4" - 1/2", 21/32" & 5/8"
 Impact Sockets 7/16" - 1-3/8", 18mm
 Wrenches 7/16" - 1-3/8", 18mm
 Torque Wrench
 Center Punch and Hammer
 Clamping Device ("C" or bar type)
 Rat Tail Pry Bar
 Hacksaw
 Torx Bits VT25, VT27

NOTE: On some vehicles it may be necessary to use a form of load booster to decrease the vehicle's front suspension sag with the snow plow in place. This can be accomplished with the use of supplementary air bags, booster springs, or similar load boosting devices. Since there are different load boosting devices available, it will up to the customer/end user to decide and purchase the product to suit the application, and not the responsibility of Sno-Way International, Inc.

INSTALLATION NOTES

1. Unless otherwise specified, mount all Vehicle Mount Kit Components to vehicle before tightening any hardware.
2. It is recommended that **LOCTITE®**, or similar thread locking product, be used on ALL mounting hardware (i.e. Nuts, Cap Screws, Bolts, etc.).
3. Vehicle should be parked on a level surface with a normal vehicle load on the FRONT suspension.
4. Items in parentheses () refer to quantity required for this step. Items in parentheses with a pound sign (#) indicate the part number as found in the parts list on the last page of this document.
 Example: (2) 5/8"-11 x 4-1/2" Cap Screws (#7).
5. It maybe necessary to relocate license plate holder. Check state and local laws for placement, if needed.

(#16), (4) 1/2" Flat Washers (#10), and (2) 1/2" Nylock Nuts (#11). Flat Washers are used on both the Nut and Bolt sides. For later 1997 and newer vehicles, the hole will not be used.

NOTE: The following vehicles will require a Shim Plate (#6) between the rear holes of the left and right hand brackets and the vehicle frame:

- Vehicles of less than 8800 lbs. GVWR.
- Vehicles of 8800 lbs. GVWR or greater, manufactured before April 1996.
- 4 x 2 vehicles.

MOUNTING INSTRUCTIONS

NOTE: The air dam may need to be cut for the Vehicle Mount Kit and Vehicle Center member to be installed.

1. On one side, remove the two front bumper bolts and the stud plate from the bumper. In the top front hole, insert a 1/2" bolt (not supplied) and tighten securely with a standard nut. One of the existing vehicle bumper bolts will replace the 1/2" bolt after the Vehicle Mount Kit is installed.
 Repeat this procedure for the other side.
2. Install the Front Mtg Weldments LH (#3) and RH (#2): Attach the Front Mtg Weldments (#2 and #3) to the outside of each side of the frame rails, re-installing the bumper support brackets with (2) 1/2"-13 x 1-1/2" Cap Screws (#7), (4) 1/2" Flat Washers (#10), and (2) 1/2" Nylock Nuts (#11). The Flat Washers are used on both the bolt and nut side. Through the center slot, use the previously removed bumper bracket bolts to attach. On vehicles for early 1997 and prior, secure the remaining hole with (2) 1/2" x 4-1/2" Cap Screws

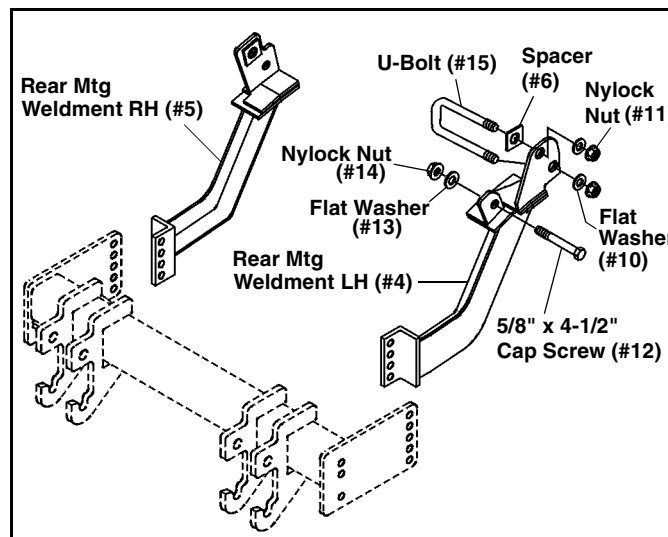


Figure 1

NOTE: Installation of Item #4 in some applications may be difficult, so extra time and drilling may be needed.

3. Position the Rear Mtg Weldment LH (#4) to align the mounting holes:
 - Front hole: An existing hole for a 5/8" Cap Screw will be present. On some vehicles, the power steering pump mounting bolt can be used. On other vehicles a small existing hole will be present. If the smaller hole is present, use the hole in the bracket as a template to drill out the hole in the vehicle frame to 21/32".
 - Rear holes: One of the two rear holes should align with the 1" hole in the vehicle frame rail. On some models there is no 1" hole to accommodate the 1/2" U-Bolt (#15). If this happens, use the rear holes Rear Mtg Weldment as a template to drill a 5/8" hole in the vehicle frame.
4. Secure (1) Rear Mtg Weldment (#4) to the vehicle frame with (1) 1/2" U-Bolt (#15). Loop the 1/2" U-Bolt through the 1" holes in the outer face of the vehicle frame. (Hint: To insure the bolt doesn't fall into the frame, hold it in place with a rubber band.) Position the two back holes of the Rear Mtg Weldment over the U-bolt and secure with (2) 1/2" Flat Washers (#10) and (2) 1/2" Nylock Nuts (#11). Hold the Rear Mtg Weldment to the bottom of the vehicle frame and push towards the rear of the vehicle. Finger tighten the bolts. Secure the front hole with (1) 5/8"-14 x 4-1/2" Cap Screw (#12), (1) 5/8" Flat Washer (#13) and (1) 5/8" Nylock Nut (#14).
5. Position the Rear Mtg Weldment (#5) to check the mounting alignment (see Step 3 if holes need to be drilled). Loop the 1/2" U-Bolt (#15) through the 1" holes in the outer face of the frame. (Again, secure with a rubber band to insure the U-Bolt doesn't fall into the frame.) Position the Rear Mtg Weldment (#5) over the U-Bolt and secure with (2) 1/2" Flat Washers (#10) and (2) 1/2" Nylock Nuts (#11).
6. Attach the Vehicle Center Member (#1) to the front set of vertical holes in the Front Mtg Weldments LH and RH (#2 and #3), using (4) 1/2"-13 x 1-1/2" Cap Screws (#7), (2) 1/2" Lock Washers (#9) and (2) 1/2" Nylock Nuts (#11). Attach the Vehicle Center Member to the Front Mtg Weldments LH and RH and to the Rear Mtg Weldments LH and RH through the rear set of vertical holes using (4) 1/2"-13 x 2" Cap Screws (#8) and (4) 1/2" Nylock Nuts (#11).
7. Using the torque specification chart provided, torque all cap screws.
8. Replace the 1/2" bolts installed in step 2 with the existing bumper bolts. Tighten to manufacturers specifications.

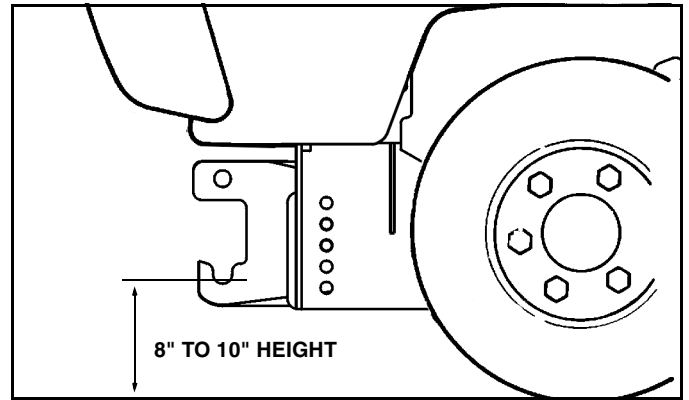


Figure 2

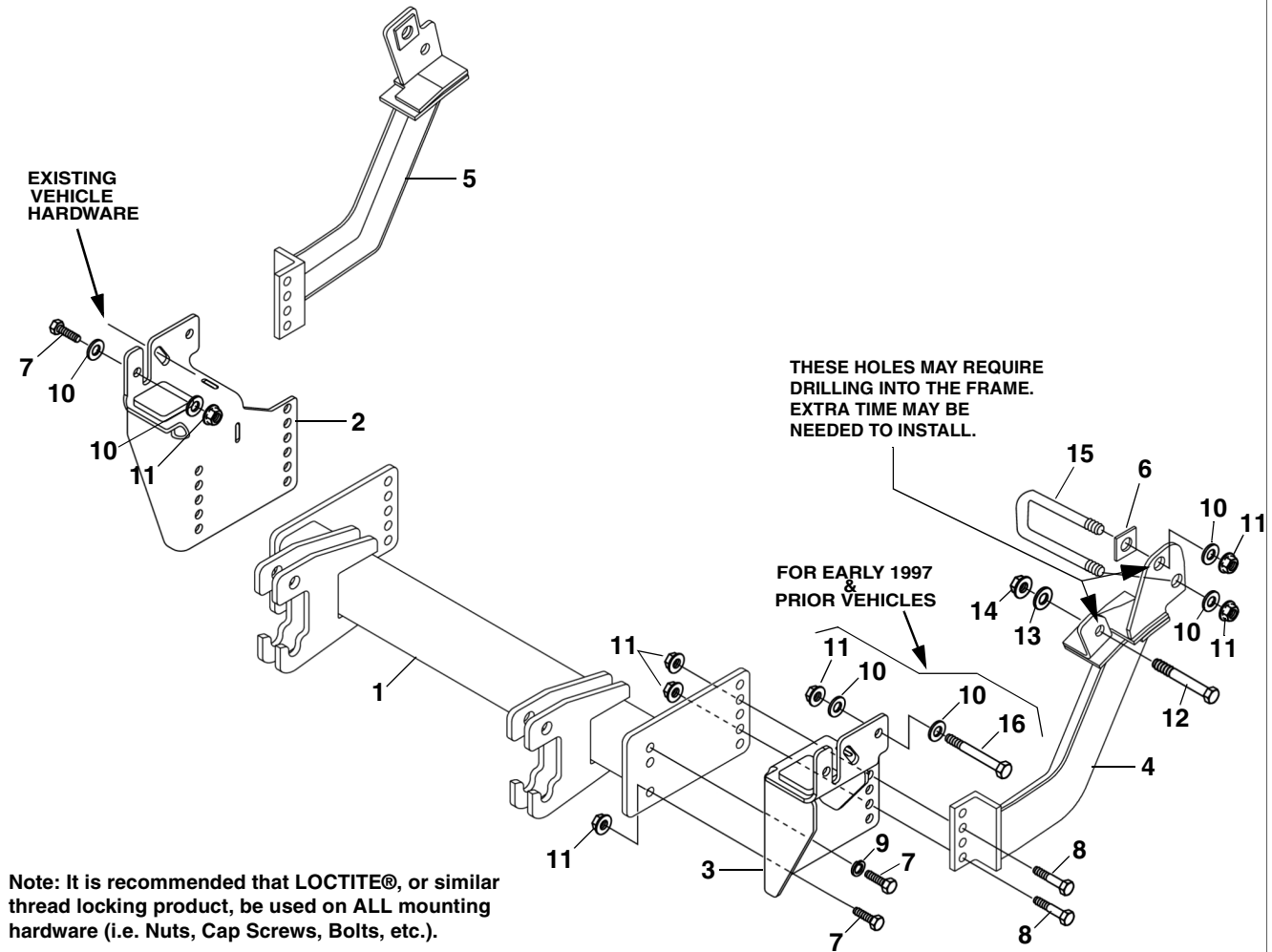
IMPORTANT: Height from the bottom of the lower pin slots on the Vehicle Mounting Kit to the ground should be between 8" and 10" to insure proper operation. On some vehicles it may be necessary to use a form of load booster (See note page 1, Minimum Vehicle Recommendations).

TORQUE SPECIFICATIONS FOR STANDARD MACHINE HARDWARE					
Bolt Size	GR.2 Dry	GR.5 Dry	GR.8 Dry	Metric Size	GR.8.8 Dry
1/4"	66*	9	12	M8	17
5/16"	11	17	25	M10	35
3/8"	20	30	45	M12	60
7/16"	32	50	70	M14	95
1/2"	50	75	110	M16	155
5/8"	100	150	220		
3/4"	175	260	380		
7/8"	170	430	600		
1"	250	640	900		

Note: These torque values are to be used for all hardware. Unless otherwise specified, all torque values must meet this specification.
 Note: All torque values are in Ft.-Lbs unless otherwise stated
 Note: *In-Lbs

REMEMBER After 5 to 10 hours of snowplow usage, re-torque all Cap Screws!

PARTS LIST



Note: It is recommended that LOCTITE®, or similar thread locking product, be used on ALL mounting hardware (i.e. Nuts, Cap Screws, Bolts, etc.).

ITEM	PART NO.	DESCRIPTION	QTY.
1	99100890	Vehicle Center Member (96108560)	1
2	96111721*	Front Mtg Weldment, RH.....	1
3	96111720*	Front Mtg Weldment, LH	1
4	96109116*	Rear Mtg Weldment, LH.....	1
5	96109117*	Rear Mtg Weldment, RH	1
6	96102702*	Plate, Shim	2
7	98009010	Hex Head Cap Screw, 1/2"-13 x 1-1/2"	6
8	98100094	Hex Head Cap Screw, 1/2"-13 x 2".....	4
9	98009012	Lock Washer, 1/2"	2
10	98009011	Flat Washer, 1/2"	12
11	98009013	Nylock Nut, 1/2"	14
12	98009111	Hex Head Cap Screw, 5/8"-11 x 4-1/2"	1
13	98009039	Flat Washer, 5/8".....	1
14	98009038	Nylock Nut, 5/8".....	1
15	98100271	U-Bolt, 1/2"	2
16	98009055	Hex Head Cap Screw, 1/2"-13 x 4-1/2"	2

* Not Available As a Service Part

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