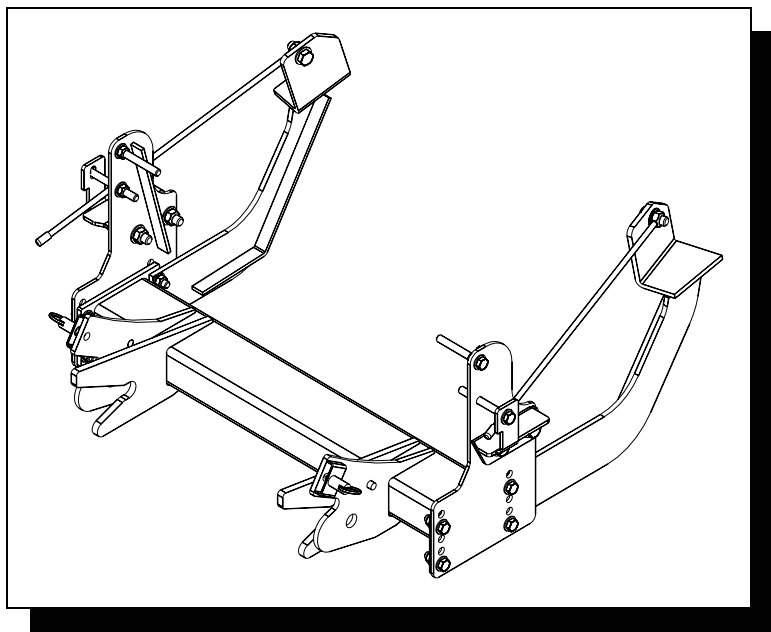


BLIZZARD® **SNOWPLOWS**

UNDERCARRIAGE INSTALLATION INSTRUCTIONS



UNDERCARRIAGE **32057**

HARDWARE KIT **61339**

FOR MODELS:

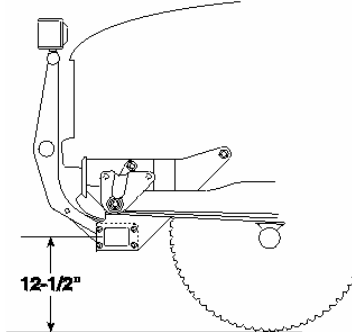
DODGE RAM 2500 PICKUP (2003-2005)

DODGE RAM 3500 PICKUP (2003-2005)

INSTALLATION INSTRUCTIONS



A label identifying the undercarriage assembly part number and push beam part number is applied to the rear of the push beam.



The recommended push beam height for this undercarriage assembly is 12-1/2" from the center of the push beam to level ground. DO NOT exceed 14-1/2" in height for this undercarriage.

WARNING: Always perform vehicle undercarriage installations with the keys removed from the vehicle's ignition. Properly tag the ignition switch to alert others work is being performed on the vehicle.

Most newer trucks are equipped with driver and passenger's side air bags. DO NOT remove, disable, or reposition any sensory equipment related to the safe operation of the air bags.

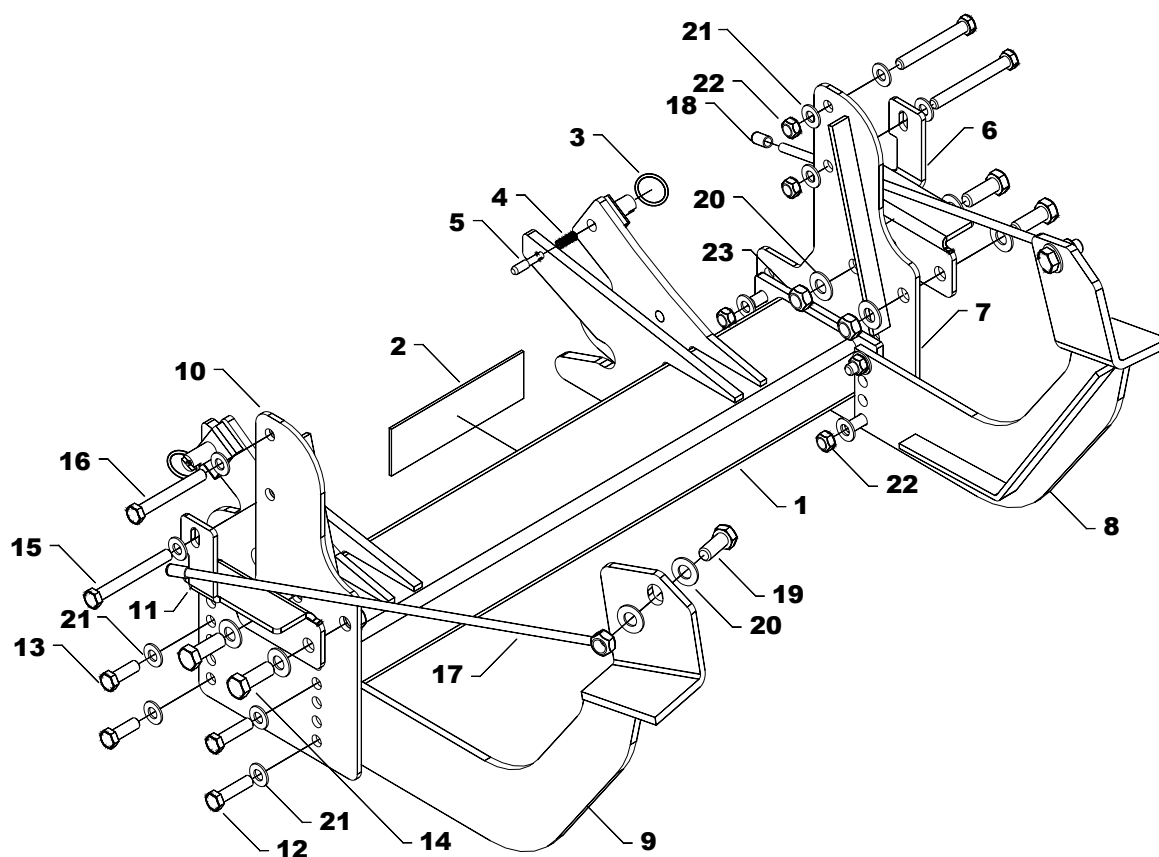
ALWAYS follow the vehicle manufacturer's recommendations for installing snowplowing equipment.

FAILURE TO COMPLY WITH THE ABOVE WARNINGS MAY RESULT IN SERIOUS INJURY OR DEATH.

CAUTION: If your vehicle is equipped with oversize tires, they may come into contact with the undercarriage hanger plates when turning the vehicle. Adjust steering stops if possible.

1. Remove the bumper and adjustable bumper mount plates from the truck frame rail. *NOTE: The fascia will need to be permanently removed or notched for reinstallation.* Discard mount plate hardware.
2. Install the support arms (**Ref 8 & 9**) to the truck frame rail. The passenger side will install behind the front stabilizer bar and the drivers' side will install behind the power steering gear box. Secure the rear hole with bolts (**Ref 19**), washers (**Ref 20**) and rod nut (**Ref 17**). *NOTE: The rod nut will allow you to position the nut through the frame rail. Use silicone to position the washer on the nut.* Finger tighten the fasteners until all undercarriage parts are in place.
3. Replace the adjustable bumper mount plates by aligning the slotted holes with those in the truck frame rail, frame spacer and hanger plates (**Ref 7 & 10**). Each hanger plate should be positioned on the inside of the frame rail. Attach components through the top mount hole with bolts (**Ref 16**), washers (**Ref 21**) and nuts (**Ref 22**). *NOTE: Each adjustable bumper mount plate must be positioned at its maximum height on the truck frame.*
4. Position the hanger plate support brackets (**Ref 6 & 11**) against the hanger plate and under the frame rail. Secure the top hole in the bracket through the hanger plates, frame spacer, and bottom hole of the bumper mount plates with bolts (**Ref 15**), washers (**Ref 21**) and nuts (**Ref 22**). *NOTE: If the vehicle is equipped with tow hooks, the tow hook bracket behind the bumper may need to be trimmed.*
5. Secure each support bracket to the hanger plates using bolts (**Ref 14**), washers (**Ref 20**) and nuts (**Ref 23**).
6. Mount the front holes of the pushbeam (**Ref 1**) square with the bottom of each hanger plate using bolts (**Ref 13**), washers (**Ref 21**) and nuts (**Ref 22**). Align the rear holes of the pushbeam with the rear holes on the hanger plates and with the holes in the support arms. Secure all three with bolts (**Ref 12**), washers (**Ref 21**) and nuts (**Ref 22**). *NOTE: The support arms mount on the inside of the pushbeam.* Torque the pushbeam hardware according to specifications.
7. Level the pushbeam with the floor and tighten the remaining hardware according to torque specifications
8. Replace the bumper and notched fascia.
9. Position the **Light Tower** into the mount pockets on the push beam. Each pocket has a lock pin that secures both light tower arms. Pull out and twist each ring handle to temporarily unlock the pins. Place the light tower into the pockets and relock the pins. Mount each **Plow Headlight** to the light tower with the hardware kit provided.
10. Plug the connectors from the snowplow headlights into the connectors on the vehicle wire harness. Adjust both lights with the plow in the raised position.

UNDERCARRIAGE PARTS



REF	PN	QTY	DESCRIPTION	NOTES
-	32057	1	Asm, Undercarriage	INCLUDES 1-23
-	61339	1	Kit, Hardware UC	INCLUDES 12-23
1	32058	1	Weldment, Push Beam 3 X 5 X 34.09	
2	63161	1	Decal, Pushbeam 2-1/4" x 9-3/4"	
3	61309	2	Ring, Standard Split, 1.48" O.D	
4	61000	2	Spring, Draw Latch Lock Pin	
5	40079	2	Pin, 3/8" DIA. x 1-3/4" SS	
6	32060	1	Bracket, Hanger Plate Support Pass.	
7	32139	1	Weldment, Hanger Plate Pass.	
8	32067	1	Arm, Support Pass.	
9	32066	1	Arm, Support Drivers	
10	32138	1	Weldment, Hanger Plate Drivers.	
11	32061	1	Bracket, Hanger Plate Support Drivers.	
12	61018	4	Screw, 1/2-13 x 2 HHCS GR8 YZ	
13	61055	4	Screw, 1/2-13 x 1-1/2 HHCS GR8 YZ	
14	61060	4	Screw, 5/8-11 x 1-3/4 HHCS GR8 YZ	
15	61152	2	Screw, 1/2-13 x 4-1/2" HHCS GR8 YZ	
16	61306	2	Screw, 1/2-13 x 4 HHCS GR8 YZ	
17	32070	2	Rodnut, 5/8-11 x 22"	
18	61376	2	Cap, 3/8" I.D. x 1" Blk Vinyl	
19	61338	2	Screw, 5/8-11 x 1-1/2" HHCS GR8 YZ	
20	61064	12	Washer, 5/8" SAE Hardened	
21	61026	24	Washer, 1/2" SAE Hardened	
22	61020	12	Nut, 1/2-13 Top Lock Z	
23	61063	4	Nut, 5/8-11 Top Lock Z	

Note: The reference numbers listed identify parts shown in the illustration above. These numbers are specific to this illustration only. Always review the part number given for proper component identification. Blizzard Corporation reserves the right, under its Continuous Improvement Policy, to change construction or design details and furnish equipment when so altered without reference to illustrations or specifications.

HEADLIGHT CONVERSION HARNESS GUIDE

VEHICLE APPLICATION	HEADLIGHT CONNECTOR	HEADLIGHT DESCRIPTION	HEADLIGHT NUMBERS	CONVERSION HARNESS
2003-2004 DODGE RAM 2500 PICKUP 2003-2004 DODGE RAM 3500 PICKUP	HB1	DUAL RECTANGULAR COMPOSITE HALOGEN	9004, H9004	62221
2004-2005 DODGE RAM 2500 PICKUP 2004-2005 DODGE RAM 3500 PICKUP	HB5	DUAL ROUND COMPOSITE HALOGEN	9007QL	62222

Note: Headlight conversion harness kits are not included with undercarriages. All headlight conversion harness kits sold separately.

TORQUE SPECIFICATIONS (For reference only)



Grade Identification Marking for J429-Grade 5 Bolt



Grade Identification Marking for J429-Grade 8 Bolt

Grade Identification Marking for J429-Grade 5 Bolt				Grade Identification Marking for J429-Grade 8 Bolt			
Nominal Thread Size	SAE J429 – Grade 5			Nominal Thread Size	SAE J429 – Grade 8		
	Clamp Loads (lbs)	Tightening Torque			Clamp Loads (lbs)	Tightening Torque	
		“Lubricated”	“Dry”			“Lubricated”	“Dry”
1/4-20	2,000	6 ft-lbs	8 ft-lbs	1/4-20	2,850	9 ft-lbs	12 ft-lbs
5/16-18	3,350	13 ft-lbs	18 ft-lbs	5/16-18	4,700	18 ft-lbs	25 ft-lbs
3/8-16	4,950	23 ft-lbs	31 ft-lbs	3/8-16	6,950	32 ft-lbs	44 ft-lbs
7/16-14	6,800	37 ft-lbs	50 ft-lbs	7/16-14	9,600	53 ft-lbs	70 ft-lbs
1/2-13	9,050	57 ft-lbs	75 ft-lbs	1/2-13	12,800	80 ft-lbs	107 ft-lbs
9/16-12	11,600	82 ft-lbs	109 ft-lbs	9/16-12	16,400	115 ft-lbs	154 ft-lbs
5/8-11	14,500	113 ft-lbs	151 ft-lbs	5/8-11	20,300	159 ft-lbs	211 ft-lbs
3/4-10	21,300	200 ft-lbs	266 ft-lbs	3/4-10	30,100	282 ft-lbs	376 ft-lbs
7/8-9	29,435	321 ft-lbs	430 ft-lbs	7/8-9	41,550	454 ft-lbs	606 ft-lbs
1-8	38,600	482 ft-lbs	640 ft-lbs	1-8	54,540	680 ft-lbs	900 ft-lbs



Grade Identification Marking for Metric-Grade 8.8 Bolt



Grade Identification Marking for Metric-Grade 10.9 Bolt

Diameter (mm)	Metric Class 8.8			Diameter (mm)	Metric Class 10.9		
	Clamp Loads (Pounds)	Tightening Torque			Clamp Loads (Pounds)	Tightening Torque	
		“Lubricated”	“Dry”			“Lubricated”	“Dry”
5	1,389	3 ft-lbs	5 ft-lbs	5	1,987	5 ft-lbs	7 ft-lbs
6	1,965	6 ft-lbs	8 ft-lbs	6	2,812	8 ft-lbs	11 ft-lbs
7	2,826	10 ft-lbs	13 ft-lbs	7	4,044	14 ft-lbs	19 ft-lbs
8	3,579	14 ft-lbs	19 ft-lbs	8	5,121	20 ft-lbs	27 ft-lbs
10	5,672	28 ft-lbs	37 ft-lbs	10	8,116	40 ft-lbs	53 ft-lbs
12	8,243	49 ft-lbs	65 ft-lbs	12	11,796	70 ft-lbs	92 ft-lbs
14	11,246	77 ft-lbs	103 ft-lbs	14	16,092	111 ft-lbs	148 ft-lbs
16	15,882	125 ft-lbs	167 ft-lbs	16	21,970	173 ft-lbs	231 ft-lbs
18	19,423	172 ft-lbs	229 ft-lbs	18	26,868	238 ft-lbs	317 ft-lbs
20	24,784	244 ft-lbs	325 ft-lbs	20	34,284	338 ft-lbs	450 ft-lbs