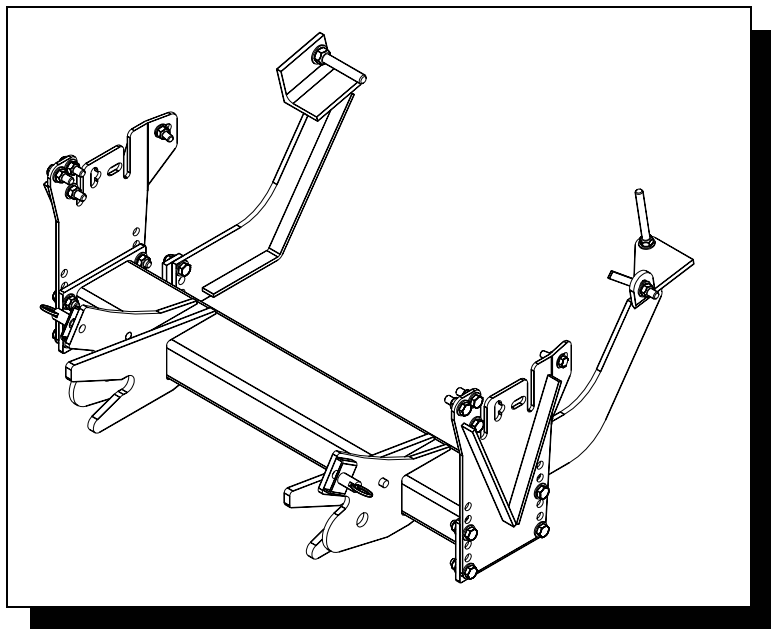




UNDERCARRIAGE INSTALLATION INSTRUCTIONS



UNDERCARRIAGE **32013**

HARDWARE KIT **61078**

FOR MODELS:

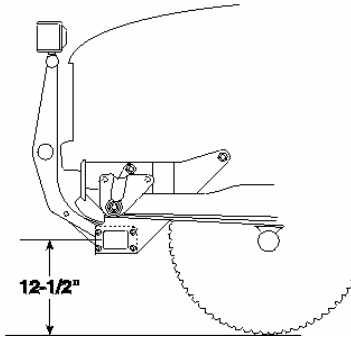
DODGE RAM 2500/3500 PICKUP (1994-2002)

DODGE RAM 2500/3500 SPORT (1999-2002)

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.

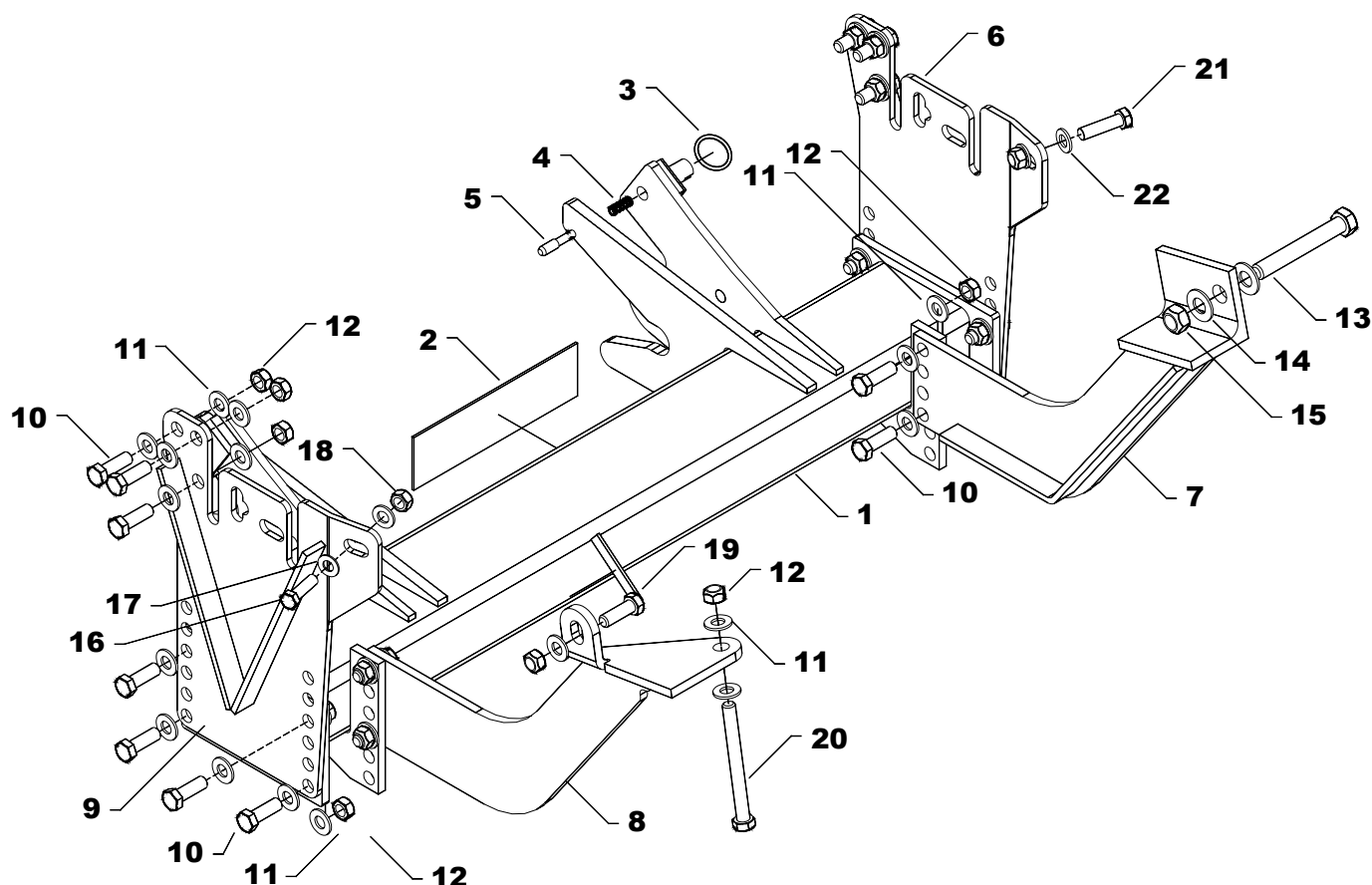
FAILURE TO COMPLY WITH THE ABOVE WARNINGS MAY RESULT IN SERIOUS INJURY OR DEATH.



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 bumper support arms.
2. Position each hanger plate (**Ref 6 & 9**) on the outside of the truck frame rail. Secure with bolts (**Ref 10**), washers (**Ref 11**) and nuts (**Ref 12**). Finger tighten the fasteners until all undercarriage parts are in place.
3. Attach the bumper support arms to the rear hanger plate mount using bolts (**Ref 16**), washers (**Ref 17**) and nuts (**Ref 18**). *NOTE: On some model vehicles, this mount location uses the original vehicle fender clip to secure the bolt. You can use the above metric hardware at this location, or use bolts (**Ref 22**) and washers (**Ref 21**).*
4. Install the passenger side support arm (**Ref 7**) to the truck frame rail in front of the engine crossmember (bottom hole). Secure the support arm with bolt (**Ref 13**), washers (**Ref 14**) and nut (**Ref 15**).
5. Install the drivers' side support arm (**Ref 8**) to the truck frame rail and crossmember located under the steering shaft. Secure with bolt (**Ref 20**), washers (**Ref 11**) and nut (**Ref 12**) from the underside of the crossmember.
6. Install tab bolt (**Ref 19**) through the drivers' side support arm and the inside of the truck frame rail. Secure with washer (**Ref 11**) and nut (**Ref 12**). *NOTE: Use the access hole and a rigid wire to position the tab bolt inside the frame. The welded tab will prevent the bolt from turning while tightening and nut and washer.*
7. Mount the push beam (**Ref 1**) square with the bottom of each hanger plate using bolts (**Ref 10**), washers (**Ref 11**) and nuts (**Ref 12**). Tighten the pushbeam hardware to torque specifications.
8. Level the pushbeam with the floor and attach support arms to brackets at the rear of the pushbeam. Secure with bolts (**Ref 10**), washers (**Ref 11**) and nuts (**Ref 12**). Tighten all hardware to torque specifications.
9. Replace bumper and bumper support arms.
10. 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.
11. 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
-	32013	1	Asm, Undercarriage	INCLUDES 1-22
-	61078	1	Kit, Hardware Dodge UC	INCLUDES 10-22
1	32005	1	Weldment, Push Beam 3 X 5 X 36.25	
2	63161	1	Decal, Push Beam 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	32143	1	Plate, Hanger Pass.	
7	32014	1	Support Arm, Push Beam Pass.	
8	32017	1	Support Arm, Push Beam Driver	
9	32142	1	Plate, Hanger Driver	
10	61055	18	Screw, 1/2-13 x 1-1/2 HHCS GR8 YZ	
11	61026	39	Washer, 1/2" USS Hardened	
12	61020	20	Nut, 1/2-13 Top Lock Z	
13	61065	1	Screw, 5/8-11 x 4-1/2" HHCS GR8 YZ	
14	61064	2	Washer, 5/8" SAE Hardened	
15	61063	1	Nut, 5/8"-11 Top Lock Z	
16	61068	2	Screw, M12-1.75 x 45 HHCS GR8.8 Z	
17	61070	4	Washer, M12-1.75 Flat	
18	61271	2	Nut, M12-1.75 Top Lock Z	
19	61151	1	Screw, 1/2-13 x 1-1/2" HHCS GR8 YZ w/ welded tab	
20	61075	1	Screw, 1/2-13 x 5" HHCS GR8 YZ	
21	61162	2	Washer, 7/16" SAE Hardened	
22	61459	2	Screw, 7/16-14 x 1-1/2" HHCS GR8 YZ	

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
1994-2002 DODGE RAM 2500/3500 PICKUP	HB1	DUAL RECTANGULAR COMPOSITE HALOGEN	9004, H9004	62221
1999-2002 DODGE RAM 2500/3500 SPORT	HB1/HB5	QUAD COMPOSITE HALOGEN BULB	9004, H9004 9007, H9007	62226

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

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