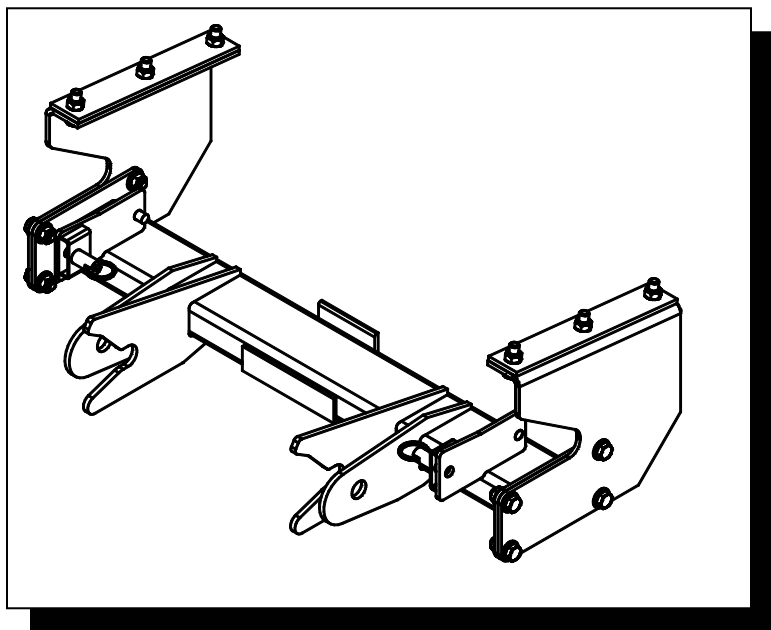


BLIZZARD® **SNOWPLOWS**

UNDERCARRIAGE INSTALLATION INSTRUCTIONS



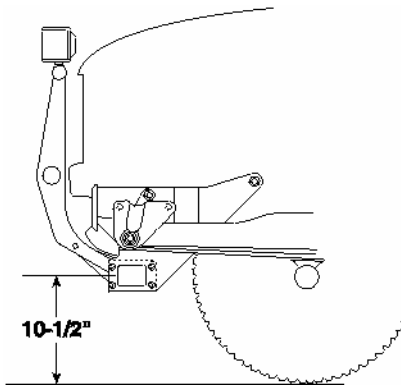
UNDERCARRIAGE **32207**

HARDWARE KIT **61557**

FOR MODELS:

JEEP LIBERTY (2004-2005)

INSTALLATION INSTRUCTIONS



The recommended push beam height for this undercarriage assembly is 10-1/2" from the center of the push beam to level ground. DO NOT exceed 12-1/2" 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.

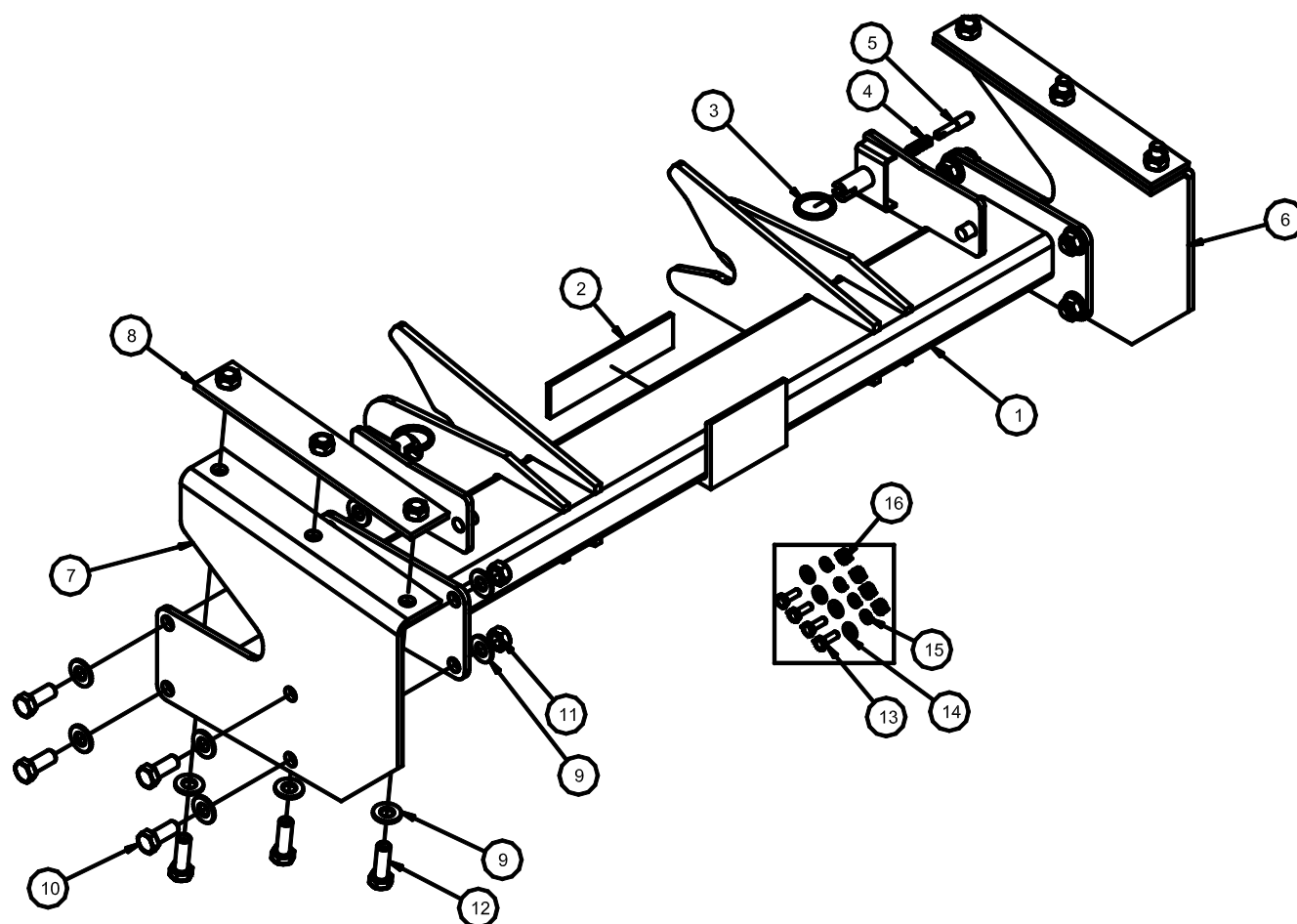
Most newer trucks are equipped with driver and passenger's side air bags. DO NOT remove, disable, or reposition any sensory equipment related to the safe operation of the air bags.

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.

1. Disconnect lamp harnesses, if applicable.
2. Remove the grill assembly and bumper. *NOTE: The bumper is mounted to the frame with plastic push rivets, on the top, and plastic klik-lock rivets, on the bottom. The top rivets should be saved for reuse and the bottom rivets will need to be replaced with hardware provided. The plastic air dam will need to be permanently removed or notched to accommodate the undercarriage.*
3. Remove both frame rail end caps. Save original hardware for reuse.
4. Position each hanger plate (**Ref 6 & 7**) underneath the truck frame rail and against the front flange at the end of the frame and clamp it in place. *NOTE: The 90 degree bend should face inward.*
5. Mount the pushbeam (**Ref 1**) square with the bottom of each hanger plate using bolts (**Ref 10**), washers (**Ref 9**) and nuts (**Ref 11**). Torque the pushbeam hardware according to specifications.
6. With this assembly in place, mark the hole locations, for each hanger plate, on the bottom of the truck frame. Remove the undercarriage and drill pilot holes through the marked locations. Bore each pilot hole to a 9/16" diameter. *NOTE: Use caution when drilling into the frame, hydraulic and/or electrical lines may be located on the interior of the frame.*
7. Position each nutplate (**Ref 8**) through the end of the frame and align it with the holes in the frame. Secure hanger plates with bolts (**Ref 12**) and washers (**Ref 9**) through each of the holes. *NOTE: Use a hydraulic floor jack to hold the pushbeam in place.* Finger tighten the fasteners until all undercarriage parts are in place.
8. Level the pushbeam with the floor and tighten the hanger plate hardware according to torque specifications
9. Replace the frame rail end caps, bumper and grill assembly and notched plastic air dam. *NOTE: Bottom bumper klik-lock rivets will need to be replaced by bolts (**Ref 13**), washers (**Ref 14 & 15**) and nuts (**Ref 16**).* Reconnect lamp harnesses, if applicable.
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
-	32207	1	Asm, Undercarriage	INCLUDES 1-16
-	61557	1	Kit, Hardware UC	INCLUDES 8-16
1	32086	1	Weldment, Push Beam 2 X 4 X 33.19"	
2	63162	1	Decal, Push Beam 1-1/2" x 6-1/2"	
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	32208	1	Plate, Hanger Passenger's Side	
7	32209	1	Plate, Hanger Driver's Side	
8	32211	2	Nut Plate Weldment, 1/2-13 Top lock	
9	61026	22	Washer, 1/2" SAE Hardened	
10	61057	8	Screw, 1/2-13 x 1-1/4 HHCS GR8 YZ	
11	61020	8	Nut, 1/2-13 Top Lock Z	
12	61055	6	Screw, 1/2-13 x 1-1/2 HHCS GR8 YZ	
13	61037	4	Screw, 1/4-20 x 3/4 HHCS GR8 YZ	
14	61039	4	Washer, 1/4" SAE Hardened	
15	61558	4	Washer, 1/4" Split Lock	
16	61143	4	Nut, 1/4-20 Hex	

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 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
2004-2005 JEEP LIBERTY	HB5	DUAL ROUND COMPOSITE HALOGEN	9007, H9007	B62222

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

Grade Identification Markings: Metric Class 8.8 Bolt				Grade Identification Markings: Metric Class 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