April 15, 2014 Lit. No. B64055, Rev. 04 JBLIZZARD SNOWPLOWS B32221 Undercarriage Kit 2005 - 11 **Dodge Dakota** Parts List & Installation Instructions **A**CAUTION Read this document before installing the snowplow. **A**CAUTION See your BLIZZARD® outlet/Web site for specific vehicle application recommendations before installation. The Undercarriage Selection Guide has specific vehicle and

snowplow requirements.

SAFETY DEFINITIONS

A WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious personal injury.

A CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert

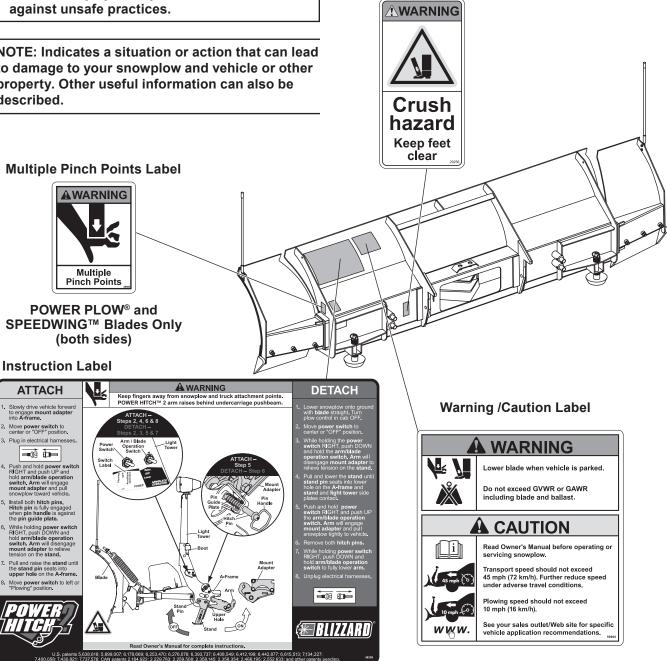
NOTE: Indicates a situation or action that can lead to damage to your snowplow and vehicle or other property. Other useful information can also be described.

WARNING/CAUTION & INSTRUCTION LABELS

Become familiar with and inform users about the warning and instruction labels on the back of the blade.

Crush Hazard Label

NOTE: If labels are missing or cannot be read, see your sales outlet.



SAFETY PRECAUTIONS

Improper installation and operation could cause personal injury and/or equipment and property damage. Read and understand labels and the Owner's Manual before installing, operating or making adjustments.

Lower blade when vehicle is parked. Temperature changes could change hydraulic pressure, causing the blade to drop unexpectedly or damaging hydraulic components. Failure to do this could result in serious personal injury.

A WARNING

The driver shall keep bystanders clear of the blade when it is being raised, lowered or angled. Do not stand between the vehicle and the blade or within 8 feet of a moving blade. A moving or falling blade could cause personal injury.

WARNING

Keep hands and feet clear of the blade and A-frame when mounting or removing the snowplow. Moving or falling assemblies could cause personal injury.

A WARNING

Do not exceed GVWR or GAWR including the blade and ballast. The rating label is found on the driver-side vehicle door cornerpost.

A WARNING

To prevent accidental movement of the blade, always turn the control OFF whenever the snowplow is not in use. The power indicator light will turn OFF.

A WARNING

Remove blade assembly before placing vehicle on hoist.

A CAUTION

Refer to the Undercarriage Selection Guide for minimum vehicle recommendations and ballast requirements.

PERSONAL SAFETY

- Remove ignition key and put the vehicle in park or in gear to prevent others from starting the vehicle during installation or service.
- Wear only snug-fitting clothing while working on your vehicle or snowplow.
- Do not wear jewelry or a necktie, and secure long hair.
- Wear safety goggles to protect your eyes from battery acid, gasoline, dirt and dust.
- Avoid touching hot surfaces such as the engine, radiator, hoses and exhaust pipes.
- Always have a fire extinguisher rated BC handy, for flammable liquids and electrical fires.

FIRE AND EXPLOSION

A WARNING

Gasoline is highly flammable and gasoline vapor is explosive. Never smoke while working on vehicle. Keep all open flames away from gasoline tank and lines. Wipe up any spilled gasoline immediately.

Be careful when using gasoline. Do not use gasoline to clean parts. Store only in approved containers away from sources of heat or flame.

CELL PHONES

A driver's first responsibility is the safe operation of the vehicle. The most important thing you can do to prevent a crash is to avoid distractions and pay attention to the road. Wait until it is safe to operate Mobile Communication Equipment such as cell phones, text messaging devices, pagers or two-way radios.

VENTILATION

A WARNING

Vehicle exhaust contains lethal fumes. Breathing these fumes, even in low concentrations, can cause death. Never operate a vehicle in an enclosed area without venting exhaust to the outside.

NOISE

Airborne noise emission during use is below 70 dB(A) for the snowplow operator.

VIBRATION

Operating snowplow vibration does not exceed 2.5 m/s² to the hand-arm or 0.5 m/s² to the whole body.

TORQUE CHART

Read instructions before assembling. Fasteners should be finger tight until instructed to tighten according to the torque chart. Use standard methods and practices when attaching snowplow including proper personal protective safety equipment.



Grade Identification for J429–Grade 5 Bolt



Grade Identification for J429–Grade 8 Bolt

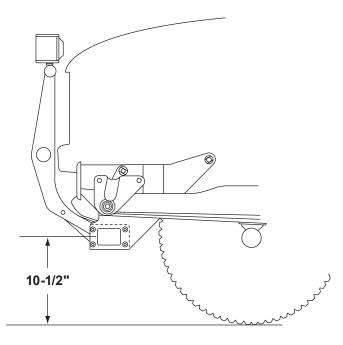
SAE J429 Grade 5 Torque Values				SAE J429 Grade 8 Torque Values				
Nominal	Clamp Loads	Tightening Torque		Nominal	Clamp Loads	Tightening Torque		
Thread Size	(lb)	"Lubricated"	"Dry"	Thread Size	(lb)	"Lubricated"	"Dry"	
1/4-20	2,000	6 ft-lb	8 ft-lb	1/4-20	2,850	9 ft-lb	12 ft-lb	
5/16-18	3,350	13 ft-lb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

8.8) Grade Identification for Metric–Grade 8.8 Bolt (10.9) Grade Identification for Metric–Grade 10.9 Bolt

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

PUSHBEAM HEIGHT

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



NOTE: For easier assembly and installation, vehicle and all snowplow components should be on a smooth, level, hard surface, such as concrete.

- 1. Remove the bumper. Remove skid plates and fog lights, if applicable.
- 2. Position each hanger plate (**Item 6 & 7**) on the bottom of each side of the frame between the body mounts and suspension.

NOTE: The area between these components is larger than the flat on the top of the hanger plate, and the hanger plate needs to be butted up against the body mount brackets for the light tower to clear the bumper.

The outside of the hanger plate should be positioned up alongside the side of the frame. The top flat on the hanger plate should be flush with the bottom of the frame.

A CAUTION

Use caution not to pinch, cut or drill through any wires or hoses running along the frame rails.

3. Once in position, mark the holes in the frame with the hanger plate as a template in the center of the flat on the bottom of the frame. Drill holes for the 5/8" cap screws with a 11/16" bit.

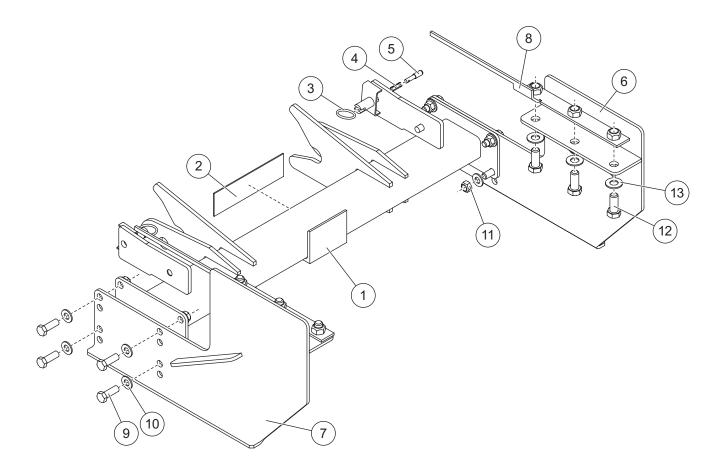
4. Thread the nutplate (**Item 8**) into the front openings on the frame.

NOTE: The nutplate is designed so you can manipulate it around the post inside the frame and into position.

Secure the nutplate with cap screws (**Item 12**) and washers (**Item 13**). Cut the nutplate handle so it is flush with the end of the frame. Finger tighten the fasteners until all undercarriage parts are in place.

- Mount the pushbeam (Item 1) to the hanger plates using cap screws (Item 9), washers (Item 10) and locknuts (Item 11). Tighten the pushbeam hardware according to the torque chart.
- 6. Level the pushbeam with the floor and tighten the hanger plate hardware according to the torque chart.
- 7. Replace the bumper. Replace the foglights and skid plates, if applicable.

NOTE: After five to ten hours of snowplow usage, retorque all undercarriage assembly fasteners.



B32221 Undercarriage Kit									
Item	Part	Qty	Description	ltem	Part	Qty	Description		
1	B32220	1	Pushbeam	6	B32217	1	Hanger Plate – PS		
2	B63162	1	Label, Pushbeam	7	B32218	1	Hanger Plate – DS		
3	B61309	2	Split Ring, 1.25 OD	8	B32216	2	Nutplate		
4	B61000	2	Compression Spring SS	ns	B61621	1	Hardware Kit		
5	B40079	2	A-Frame Latch Pin						
B61621 Hardware Kit									
9		8	1/2-13 x 1-1/2 Hex Cap Screw G5	12		6	5/8-11 x 1-1/2 Hex Cap Screw G5		
10		16	1/2 Hardened Flat Washer	13		6	5/8-11 Hardened Flat Washer		
11		8	1/2-13 Hex Locknut GC						
	G = Grade			SS = Stainless Steel			ns = not shown		



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