May 15, 2016 Lit. No. B64112, Rev. 02



B32048 UNDERCARRIAGE KIT

Dodge Ram 1500

2002 - 05

Parts List & Installation Instructions

A CAUTION

Read this document before installing the snowplow.

▲ CAUTION

See your BLIZZARD® outlet/website for specific vehicle application recommendations before installation. The Power Match selection system 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 against unsafe practices.

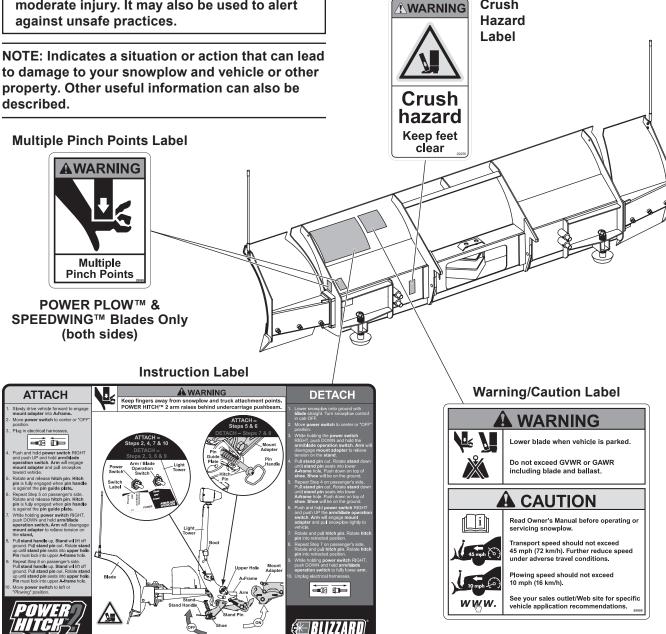
to damage to your snowplow and vehicle or other property. Other useful information can also be described.

WARNING/CAUTION & INSTRUCTION LABELS

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

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

Crush



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.

A WARNING

Lower the 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.

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.

A 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 Power Match selection system 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.

TORQUE SPECIFICATIONS

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

A CAUTION

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	

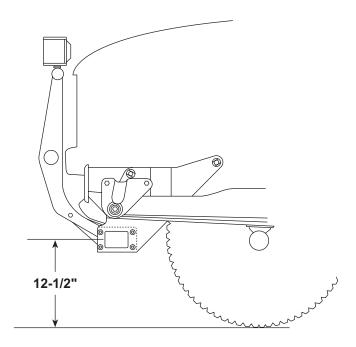
(8.8) Grade Identification for Metric-Grade 8.8 Bolt

Metric Class 8.8 Torque Values				Metric Class 10.9 Torque Values				
Diameter	Clamp Loads	Tightening Torque		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

PUSHBEAM HEIGHT

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



UNDERCARRIAGE INSTALLATION

INSTALLATION INSTRUCTIONS

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 from the adjustable bumper plates.

NOTE: The bumper fascia will need to be permanently removed or notched to accommodate the undercarriage assembly.

2. Remove the U-bolts that mount the adjustable bumper plates to the frame.

NOTE: These bolts will be used to mount the hanger plates to the frame.

Pry the frame spacer from inside the frame.

3. Position each anchor plate on the inside of each frame. Align the holes in the support brackets with 5/8" cap screws from the anchor plate. Secure brackets to anchor plates, through frame, with 5/8" washers and locknuts. Finger tighten the fasteners until all undercarriage parts are in place.

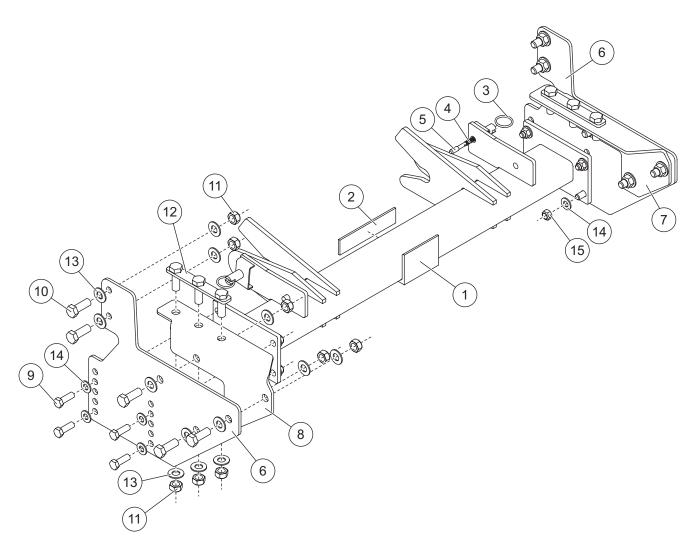
4. Replace the adjustable bumper plates. Align the slotted holes in the bumper plates with those in the frame, frame spacer and hanger plates. The hanger plates should be on the outside of the frame. Secure all components to the frame with the original U-bolt hardware.

NOTE: Each adjustable bumper plate should be positioned at its maximum height on the frame. This is necessary for the pushbeam to clear the bumper.

- 5. Align the rear holes on the hanger plates with the support bracket holes. Secure each plate with 5/8" cap screws, washers and locknuts.
- 6. Mount the pushbeam square with the bottom of each hanger plate using 1/2" cap screws, washers and locknuts. Tighten the pushbeam hardware according to the torque chart.
- Level the pushbeam with the floor and tighten the hanger plate hardware according to the torque chart.
- 8. Replace the bumper, notching bumper fascia to fit.

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

UNDERCARRIAGE PARTS LIST



B32048 Undercarriage Kit								
Item	Part	Qty	Description	Item	Part	Qty	Description	
1	B32049	1	Pushbeam	6	B32053	2	Hanger Plate	
2	B63162	1	Label, Pushbeam	7 B32055		1	Pushbeam Support Bracket – PS	
3	B61309	2	Split Ring, 1.25 OD	8 B32054		1	Pushbeam Support Bracket - DS	
4	B61000	2	Compression Spring SS	ns	B61327	1	Hardware Kit	
5	B40079	2	A-Frame Latch Pin					
B61327 Hardware Kit								
9		8	1/2-13 x 1-1/2 Hex Cap Screw G5	13		18	5/8 Hardened Flat Washer	
10		6	5/8-11 x 1-3/4 Hex Cap Screw G5	14		16	1/2 Hardened Flat Washer	
11		12	5/8-11 Hex Locknut GC	15		8	1/2-13 Hex Locknut GC	
12	B32056	2	Anchor Plate					
ns = not shown		hown SS = Stai	SS = Stainless Steel			G = Grade		



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