



# B32157

## UNDERCARRIAGE KIT

Jeep Cherokee	1984 - 01
Jeep Wagoneer	1984 - 93
Jeep Comanche	1986 - 92

### Parts List and Installation Instructions

**⚠ CAUTION**

Read this document before installing the snowplow.

**⚠ 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

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## SAFETY DEFINITIONS

### WARNING

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

### 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.

**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.

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## 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.

### WARNING

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.

### 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 dismounting the snowplow. Moving or falling assemblies could cause personal injury.

### WARNING

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

### WARNING

To prevent accidental movement of the blade, always turn the ON/OFF switch to OFF whenever the snowplow is not in use. The control indicator light will turn off.

### WARNING

Remove blade assembly before placing vehicle on hoist.

# SAFETY

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## 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

### 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.

## VENTILATION

### 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

## TORQUE CHART

### ⚠ 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 Thread Size	Clamp Loads (lbs)	Tightening Torque		Nominal Thread Size	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 for Metric–Grade 8.8 Bolt



Grade Identification for Metric–Grade 10.9 Bolt

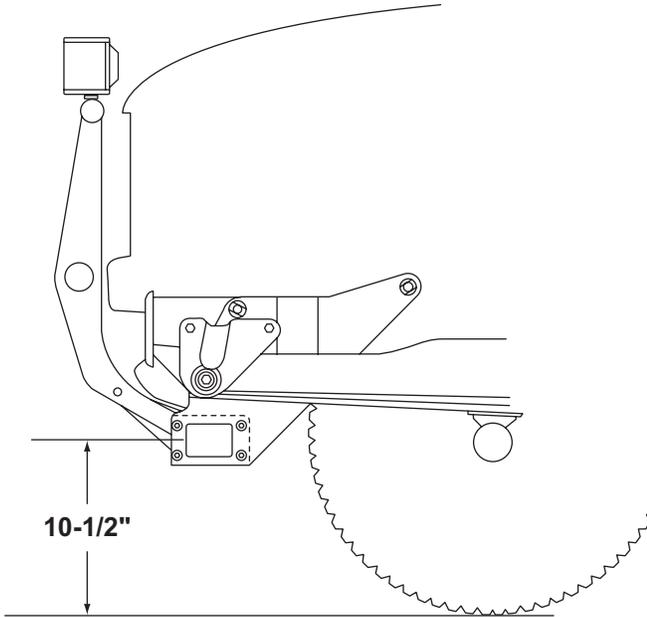
Metric Class 8.8 Torque Values				Metric Class 10.9 Torque Values			
Diameter (mm)	Clamp Loads (lbs)	Tightening Torque		Diameter (mm)	Clamp Loads (lbs)	Tightening Torque	
		"Lubricated"	"Dry"			"Lubricated"	"Dry"
5	1,389	3 ft-lbs	5 ft-lbs	5	1,987	5 ft-lbs	7 ft-lbs
6	1,965	6 ft-lbs	8 ft-lbs	6	2,812	8 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

# PUSHBEAM

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## 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.



# UNDERCARRIAGE INSTALLATION

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

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1. Remove the bumper. Remove the bumper mount brackets from outside the frame and discard hardware.
2. Align the holes in the plates (**Item 8**) on the inside of the frame with the two front holes for the bumper mount bracket. Position the hanger plates (**Item 6 & 7**) between the frame and the bumper mount bracket on the outside of the frame. Secure the bolting plates on the inside of the frame, and hanger plates and bumper mount brackets on the outside of the frame, with cap screws (**Item 18**), washers (**Item 12**) and locknuts (**Item 13**). Finger tighten the fasteners until all undercarriage parts are in place.
3. Position cap screws (**Item 14**) and washers (**Item 12**) through the remaining rear hole in the bumper mount brackets.

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**NOTE: Each hole contains a welded nut on the inside of the truck frame rail.**

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4. Align carriage bolts (**Item 16**) with the square holes, at the back side of the hanger plates, with the holes in the frame and secure with washers (**Item 10**) and locknuts (**Item 17**).

5. Insert cap screw with handles (**Item 9**) with washers (**Item 10 & 11**) into the end of the frame and out through the bottom, front hole in the frame. Secure with washers (**Item 10**) and locknuts (**Item 17**).
6. Position cap screws (**Item 14**) and washers (**Item 12**) through the rear hanger plate mount holes located under the frame.

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**NOTE: Each hole contains a welded nut on the inside of the truck frame rail.**

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7. Mount the pushbeam (**Item 1**) square with the bottom of each hanger plate and secure using cap screws (**Item 15**), washers (**Item 10**) and locknuts (**Item 17**).

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**NOTE: Use a floor jack to help facilitate the installation procedure.**

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Torque the pushbeam hardware according to the torque chart.

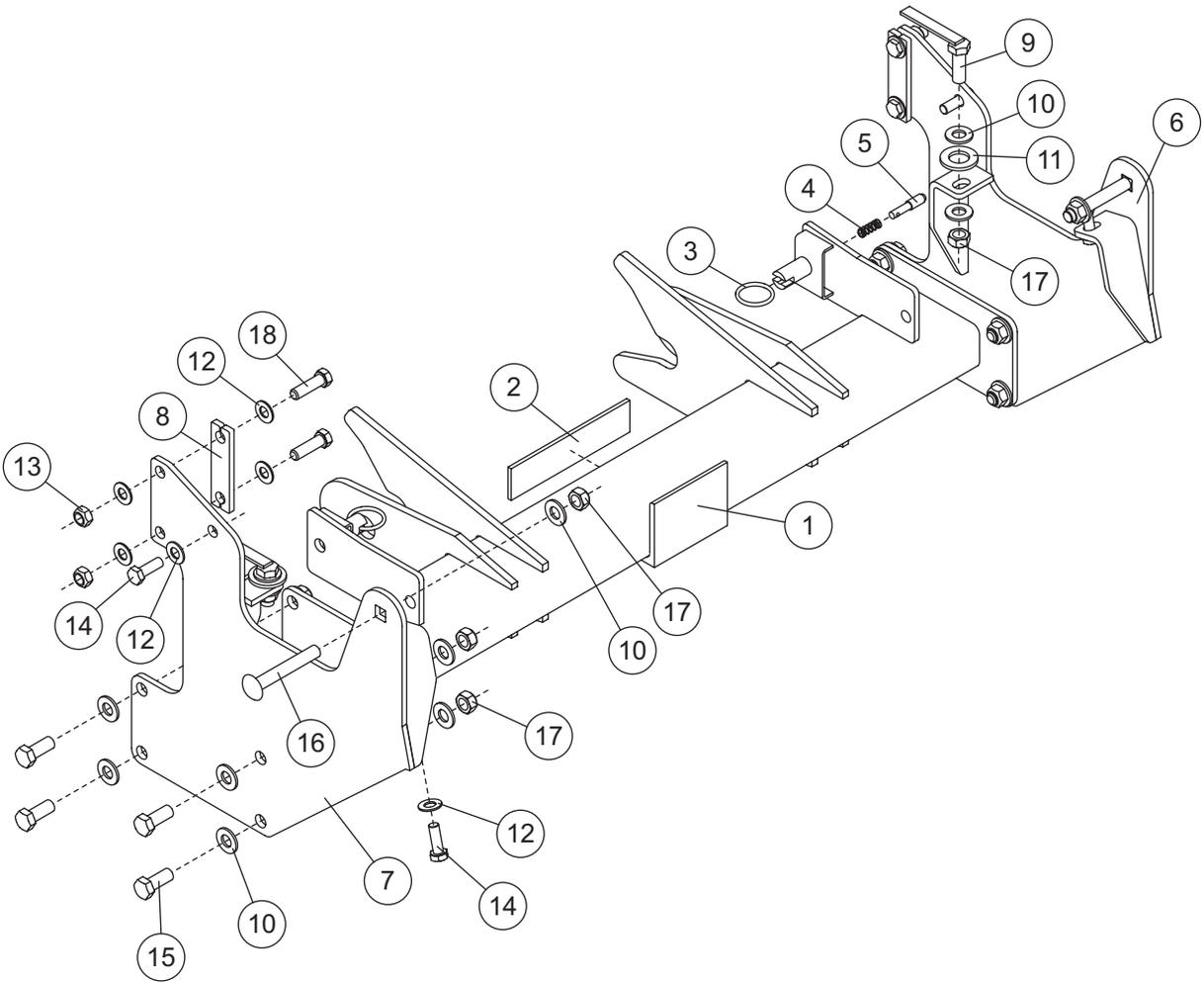
8. Level the pushbeam with the floor and tighten the hanger plate hardware according to the torque chart.
9. Replace the bumper.

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

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# UNDERCARRIAGE PARTS LIST



<b>B32157 Undercarriage Kit</b>							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	B32154	1	Pushbeam	5	B40079	2	A-Frame Latch Pin
2	B63162	1	Decal, Pushbeam	6	B32158	1	Hanger Plate – PS
3	B61309	2	Split Ring, 1.25 OD	7	B32156	1	Hanger Plate – DS
4	B61000	2	Compression Spring SS	ns	B61463	1	Hardware Kit
<b>B61463 Hardware Kit</b>							
8	B32151	2	Bolting Plate	13	90353	4	7/16-14 Hex Locknut GB
9	B61151	2	1/2-13 x 1-1/2 Hex Cap Screw with Handle	14	B61460	4	M10 x 1.50 x 30 Hex Cap Screw G8.8
10	90572	22	1/2 Hardened Flat Washer	15	90665	8	1/2-13 x 1-1/4 Hex Cap Screw G8
11	63575	2	3/4 Hardened Flat Washer	16	B61418	2	1/2-13 x 3-1/2 Carriage Bolt G8
12	29232	12	7/16 Hardened Flat Washer	17	90593	12	1/2-13 Hex Locknut GC
				18	90177	4	7/16-14 x 1-1/2 Hex Cap Screw G5
			G = Grade			SS = Stainless Steel	
						ns = not shown	



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