



B32085

UNDERCARRIAGE KIT

Jeep Wrangler

1997 - 06

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

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.

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 can not be read, see your sales outlet.

Warning and Caution Label



WARNING

LOWER BLADE WHEN VEHICLE IS PARKED.

DO NOT EXCEED GVWR OR GAWR INCLUDING BLADE AND BALLAST.

REMOVE BLADE ASSEMBLY BEFORE PLACING VEHICLE ON HOIST.



CAUTION

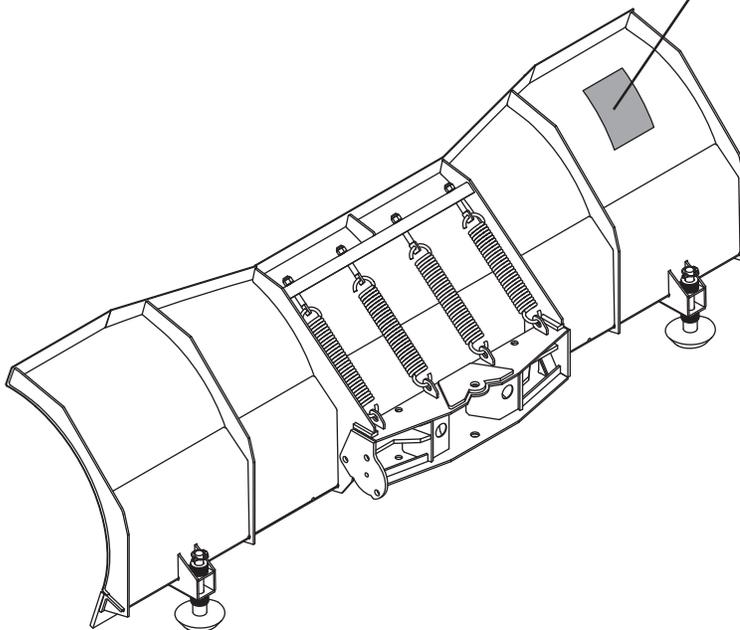
READ *OWNER'S MANUAL* BEFORE OPERATING OR SERVICING SNOWPLOW.

TRANSPORT SPEED SHOULD NOT EXCEED 45 MPH. FURTHER REDUCE SPEED UNDER ADVERSE TRAVEL CONDITIONS.

PLOWING SPEED SHOULD NOT EXCEED 10 MPH.

SEE YOUR SALES OUTLET/WEB SITE FOR SPECIFIC VEHICLE APPLICATION RECOMMENDATIONS.

59900



SAFETY

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

⚠ 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.

⚠ CAUTION

See your BLIZZARD® outlet for application recommendations.

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 (lb)	Tightening Torque		Nominal Thread Size	Clamp Loads (lb)	Tightening Torque	
		"Lubricated"	"Dry"			"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



Grade Identification for Metric–Grade 8.8 Bolt



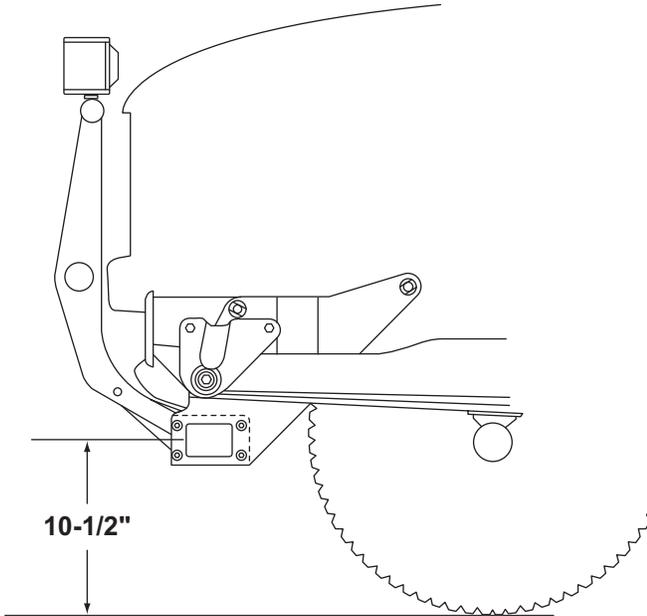
Grade Identification for Metric–Grade 10.9 Bolt

Metric Class 8.8 Torque Values				Metric Class 10.9 Torque Values			
Diameter (mm)	Clamp Loads (lb)	Tightening Torque		Diameter (mm)	Clamp Loads (lb)	Tightening Torque	
		"Lubricated"	"Dry"			"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 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

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

NOTE: The Rubicon has a different front bumper and this might affect the hanger plate support plates. The skid plate does NOT need to be removed but the back fasteners on the hanger plates will be tight against the skid plate. Use lowest holes on the hanger plates.

1. Remove the bumper fasteners. There are two in each tow hook and two are underneath the bumper.
2. Position bushing (**Item 10**) through the access hole located on the passenger's side of the frame.

NOTE: The bushing should rest on the frame walls while the hanger plate is mounted.

3. Position T-bolts (**Item 16**) on the outside of the frame through the oval hole.

NOTE: Mark the thread end of each T-bolt to indicate which direction the "T" will face when it is installed inside the frame.

Align the top, rear holes in the hanger plates (**Item 6** and **8**) and the hanger support plates (**Item 7** and **9**) with the T-bolt at the outside of the frame. Secure the T-bolts with washers (**Item 13**) and nuts (**Item 17**).

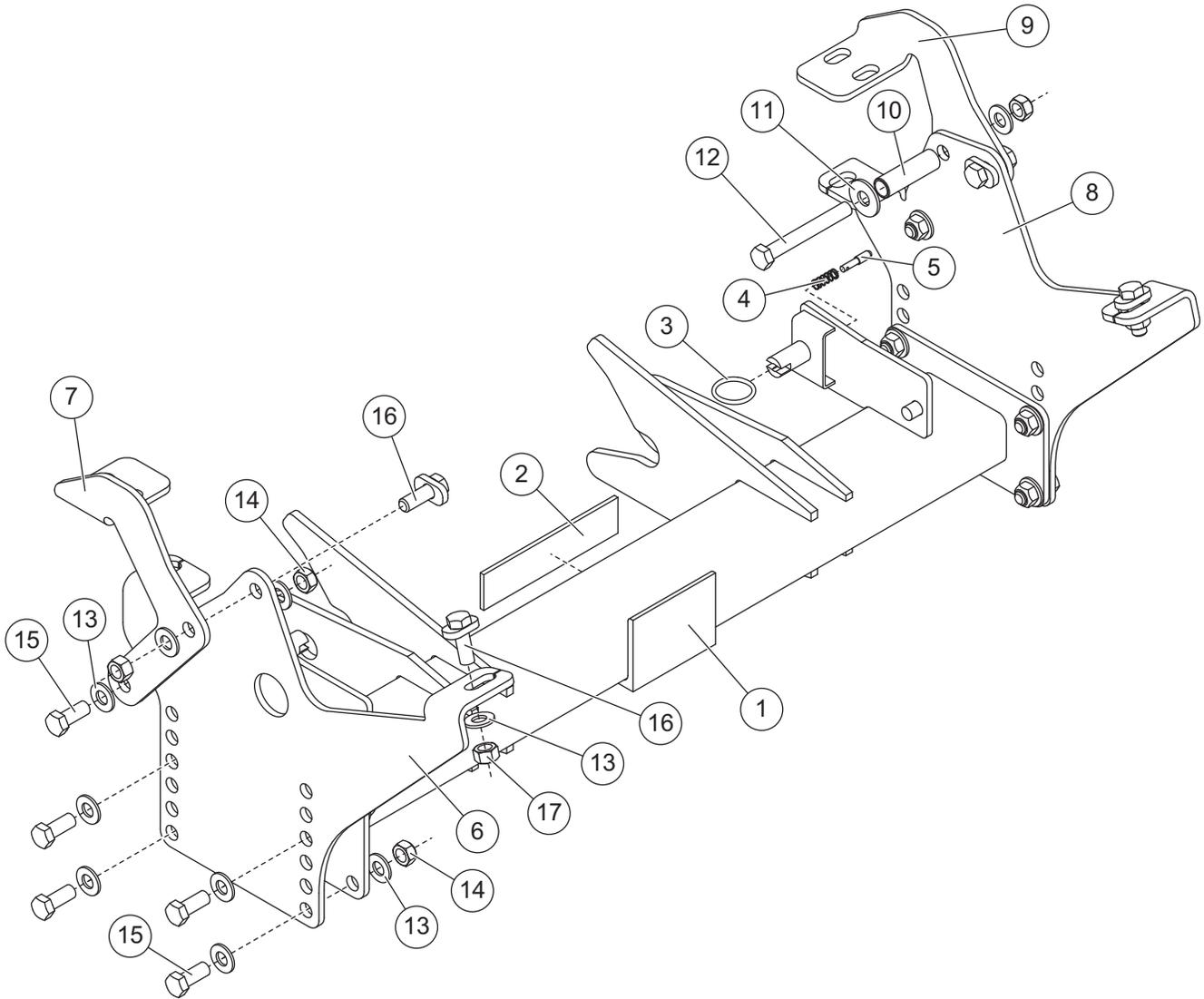
NOTE: The hole in the driver-side hanger plate installs over the bottom mount fastener for the steering pump.

Finger tighten the fasteners until all undercarriage parts are in place.

4. Position the remaining T-bolts (**Item 16**) through the bottom of the frame at the rear mount location on the hanger plates. Secure with washers (**Item 13**) and nuts (**Item 17**).
5. Align the holes in the front of the hanger support plates with the holes for the tow hook on top of the bumper. Reposition the tow hook over the support plate and secure to the bumper with the original hardware.
6. Install a cap screw (**Item 12**) through the bushing, in place between the frame, and the top, front mount hole in the passenger-side hanger plate and support plate. Secure with washer (**Item 11**) and locknut (**Item 14**).
7. Replace the original bumper fasteners under the bumper, through the hanger plates and into the bumper.
8. Install cap screws (**Item 15**) and washers (**Item 13**) through the remaining hole in the hanger plate support plates and secure with washers (**Item 13**) and locknuts (**Item 14**).
9. Mount the pushbeam (**Item 1**) square with the bottom of each hanger plate using cap screws (**Item 15**), washers (**Item 13**) and locknuts (**Item 14**). Fully tighten the pushbeam hardware according to the torque chart.
10. Level the pushbeam with the floor and tighten the hanger plate hardware according to the torque chart.

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

UNDERCARRIAGE PARTS LIST



B32085 Undercarriage Kit							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	B32086	1	Pushbeam	6	B32134	1	Hanger Plate – DS
2	B63162	1	Decal, Pushbeam	7	B32136	1	Hanger Plate Support – DS
3	B61309	2	Split Ring, 1.25 OD	8	B32133	1	Hanger Plate – PS
4	B61000	2	Compression Spring SS	9	B32135	1	Hanger Plate Support – PS
5	B40079	2	A-Frame Latch Pin	ns	B61462	1	Hardware Kit
B61462 Hardware Kit							
10	B32098	1	Bushing	14	90593	11	1/2-13 Hex Locknut GC
11	91105	1	1/2 Flat Washer, Wide	15	90575	10	1/2-13 x 1-1/4 Hex Cap Screw G5
12	90107	1	1/2-13 x 4 Hex Cap Screw G5	16	B32137	4	T-Bolt
13	90572	25	1/2 Hardened Flat Washer	17	90337	4	1/2-13 Hex Nut G5
			SS = Stainless Steel				G = Grade
							ns = not shown



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