



B35045

UNDERCARRIAGE KIT

Toyota Tundra

2000 - 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

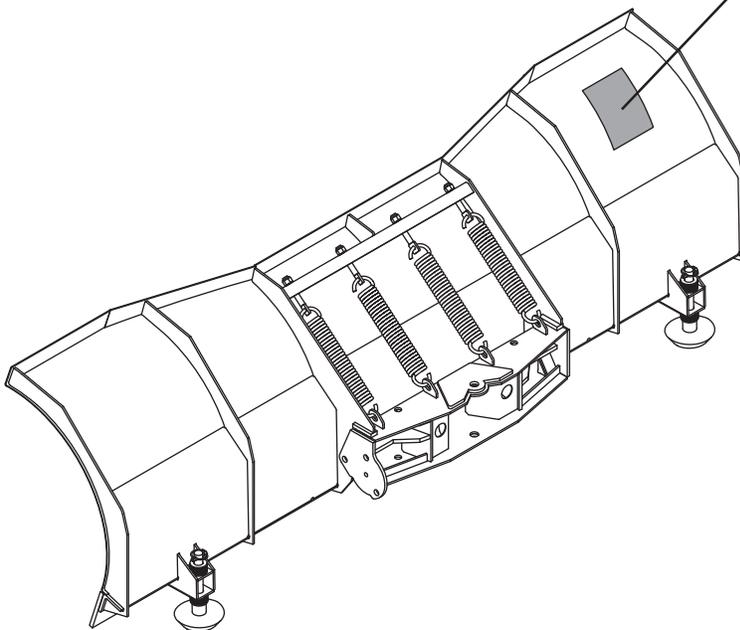
WARNING

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.

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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 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.

⚠ 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 (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



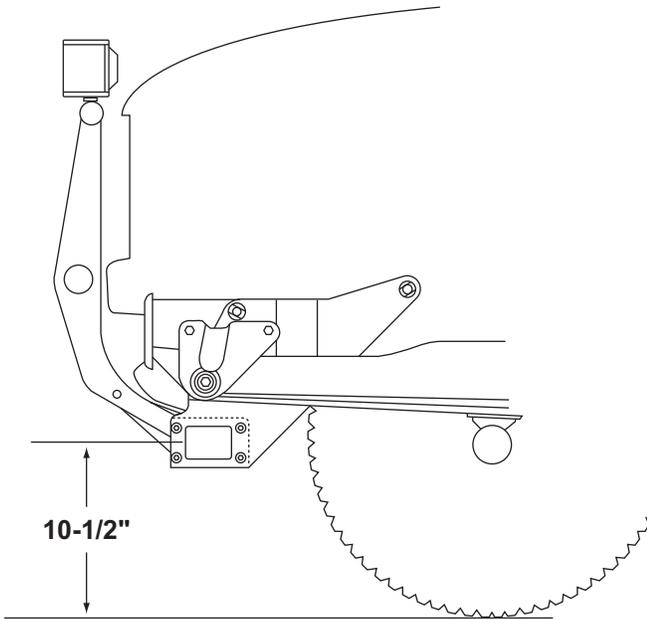
Grade Identification for Metric–Grade 10.9 Bolt

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.

1. Remove the bumper fascia.

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

2. Remove fasteners from each tie down bracket on the truck frame rail. The tie down brackets and passenger-side tow hook will not be reinstalled. Retain parts and fasteners for reinstallation if snowplow is removed from the vehicle.
3. Remove the vehicle splash guard. Retain all fasteners and the splash guard for reinstallation.
4. Position the hanger plates (**Item 6** and **8**) on the outside of the truck frame rail. Place bushings (**Item 18**) through the rear mount hole on the hanger plate and truck frame. Secure the plate to the frame using cap screws (**Item 13**) with washers (**Item 14**). Secure the cap screw with washers (**Item 14** and **15**) and locknut (**Item 22**). Finger tighten the fasteners until all undercarriage parts are in place.
5. Using the bottom access hole in the vehicle cross member, position cap screws with handles (**Item 19**) through the front, interior wall of the cross member and rear tab on the hanger plate. Secure fastener with washers (**Item 20**) and locknuts (**Item 21**).
6. Insert cap screw with handles (**Item 12**) through the truck frame rail and the top, front mount hole in the hanger plate.

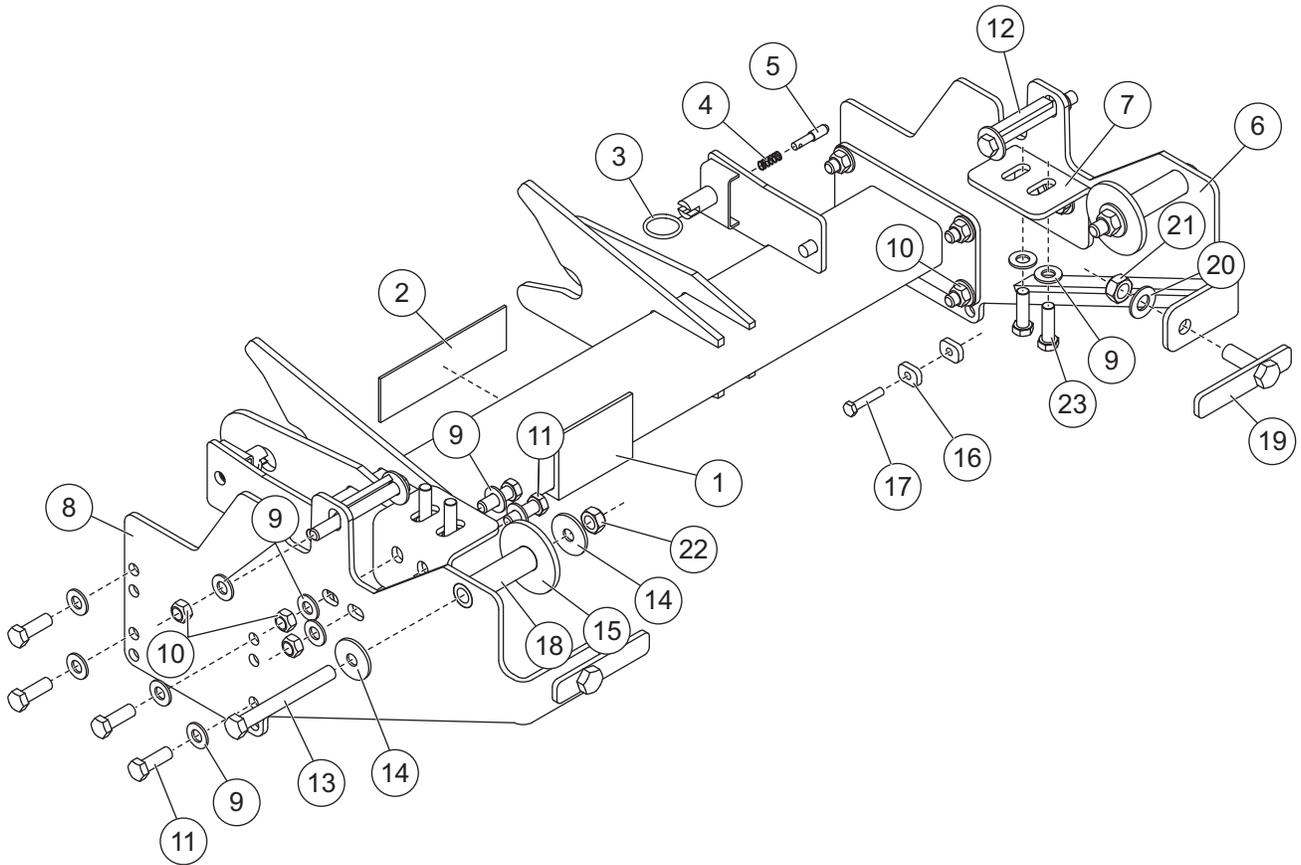
NOTE: The radiator fasteners may need to be loosened to position the fastener.

Secure the cap screw with washers (**Item 9**) and locknuts (**Item 10**).

7. Position the hanger plate support brackets (**Item 7**) in line with the tie down mount holes in the truck frame rail. Using cap screws (**Item 23**) and washers (**Item 9**), secure the bracket to the truck frame. The angle on the support bracket should align with the holes in the hanger plate. Position cap screws (**Item 11**) with washers (**Item 9**) through the support bracket and hanger plate. Secure with washers (**Item 9**) and locknuts (**Item 10**).
8. Reinstall the splash guard using the original hardware.
9. Remove and discard the fastener that secures the transmission line clamp to the frame (passenger's side) near the radiator. Using two spacer washers (**Item 16**), realign the clamp over the mount holes in the frame and secure it with cap screw (**Item 17**) provided. The spacers offset the transmission line from the adjacent installed cap screw.
10. Mount the pushbeam (**Item 1**) square with the bottom of each hanger plate using cap screws (**Item 11**), washers (**Item 9**) and locknuts (**Item 10**). Tighten the pushbeam hardware according to the torque chart.
11. Level the pushbeam with the floor and tighten the hanger plate hardware according to the torque chart.
12. Replace the fascia, notching the fascia to fit.

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

UNDERCARRIAGE PARTS LIST



B35045 Undercarriage Kit							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	B35043	1	Pushbeam	6	B35048	1	Hanger Plate – PS
2	B63162	1	Decal, Pushbeam	7	B35006	2	Pushbeam Support Bracket
3	B61309	2	Split Ring, 1.25 OD	8	B35049	1	Hanger Plate – DS
4	B61000	2	Compression Spring SS	ns	B61392	1	Hardware Kit
5	B40079	2	A-Frame Latch Pin				
B61392 Hardware Kit							
9	90572	30	1/2 Hardened Flat Washer	17	B61389	1	M8 x 1.25 x 40 Hex Cap Screw G8.8
10	90593	14	1/2-13 Hex Locknut GC	18	B35009	2	1 OD x 5/8 ID x 3-1/2 Bushing
11	67240	12	1/2-13 x 1-1/2 Hex Cap Screw G8	19	B32228	2	5/8-11 x 2 Hex Cap Screw G8 with Handle
12	B35012	2	1/2-13 x 4-1/2 Hex Cap Screw G8 with Handle	20	90576	2	5/8 Hardened Flat Washer
13	B61373	2	9/16-12 x 5 Hex Cap Screw G8	21	B61063	2	5/8-11 Hex Locknut GC
14	91105	4	1/2 Flat Washer, Wide	22	29241	2	9/16-12 Hex Locknut
15	B35011	2	3 OD x 1-1/32 ID Flat Washer	23	B61391	4	M12 x 1.25 x 40 Hex Cap Screw G8.8
16	B35014	2	Spacer Washer				
			G = Grade				SS = Stainless Steel
							ns = not shown



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