May 15, 2016 Lit. No. B64029, Rev. 04



# B30042-1

## **UNDERCARRIAGE KIT**

GM K1500 HD Silverado/Sierra	2001 - 03
GM K2500 Silverado/Sierra	1999 - 10
GM Suburban/Yukon XL 2500	2000
GM Avalanche 2500	2002
GM K3500 Silverado/Sierra	2001 - 10

**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

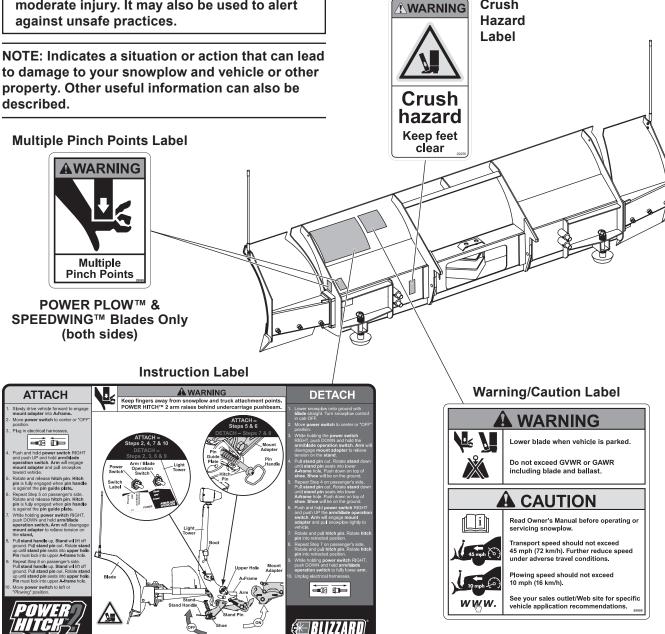
to damage to your snowplow and vehicle or other property. Other useful information can also be described.

#### **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.

#### **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/s<sup>2</sup> to the hand-arm or 0.5 m/s<sup>2</sup> 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	

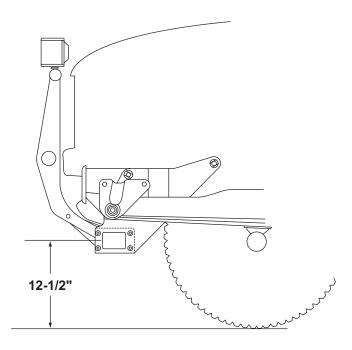
Grade Identification for Metric-Grade 8.8 Bolt (10.9) Grade Identification for Metric-Grade 10.9 Bolt

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

 Remove the plastic bumper fascia mounted to the bottom of the front bumper. For the Avalanche, remove the entire plastic bumper. Disconnect the fog lamp electrical harnesses, if equipped, prior to removing the bumper. Remove tow hooks.

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

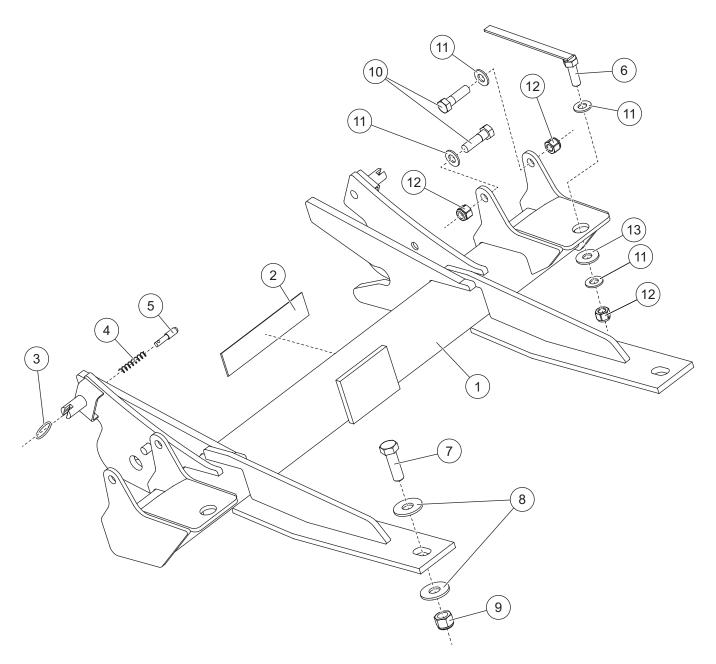
Align the undercarriage tabs (at each end of the pushbeam weldment) with the tow hook mounting holes on the vehicle.

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

3. Insert two 1/2" x 1-3/4" cap screws with 1/2" washers into the front of the truck frame and out through the tow hook mounting holes and undercarriage tabs at each end of the assembly. Attach 1/2" locknuts and finger tighten the fasteners until all undercarriage parts are in place.

- 4. Insert a 1/2" x 1-1/2" cap screw with handle and 1/2" washer in through the truck frame and out through the rear tow hook mount at each side of the pushbeam. Attach the large 1/2" washer, then the hardened 1/2" washer and locknut, and finger tighten.
- 5. With the rear section of the pushbeam in place, insert a 5/8" x 2" cap screw and 5/8" washer down through frame cross member and fasten loosely with a 5/8" washer and locknut.
- 6. Tighten all fasteners according to torque chart.

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



B30042-1 Undercarriage Kit							
Item	Part	Qty	Description	Item	Part	Qty	Description
1		1	Pushbeam	5	B40079	2	A-Frame Latch Pin
2	B63162	1	Label, Pushbeam	6	21590	2	1/2-13 x 1-1/2 Hex Cap Screw G5
3	B61309	2	Split Ring, 1.25 OD				w/Handle
4	B61000	2	Compression Spring SS	ns	29892	1	Hardware Kit
29892 Hardware Kit							
7		2	5/8-11 x 2 Hex Cap Screw G5	11		14	1/2 Hardened Flat Washer
8		4	5/8 Hardened Flat Washer	12		6	1/2-13 Hex Locknut GB
9		2	5/8-11 Hex Locknut GB	13		2	1/2 Flat Washer
10		4	1/2-13 x 1-3/4 Hex Cap Screw G5				
ns = not shown S		hown SS = Stai	nless S	teel		G = Grade	



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