May 15, 2016 Lit. No. B64014, Rev. 02



B30174 UNDERCARRIAGE KIT

Chevy Trailblazer GMC Envoy

2002 - 09

2004 - 09

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

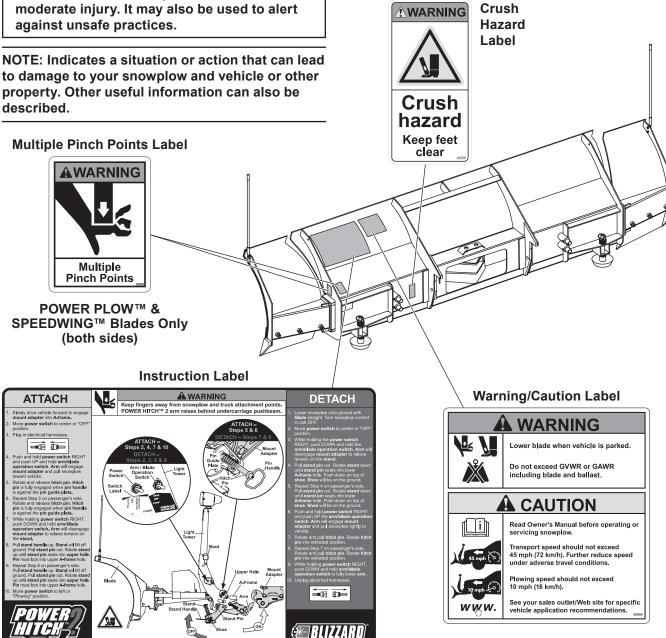
Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert

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.



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	ads 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	

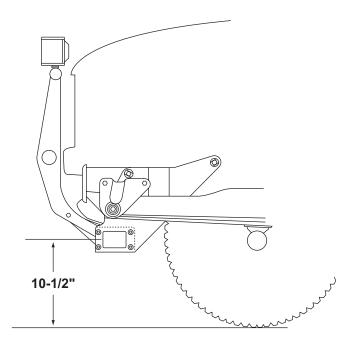
(8.8) Grade Identification for Metric-Grade 8.8 Bolt

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

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 grille and the airdam. The airdam will not be reinstalled. Retain the airdam and all fasteners for reinstallation if the undercarriage is ever removed from the vehicle.
- 2. Disconnect the fog lamp wiring, if applicable, then remove the plastic bumper cover from the bumper.
- 3. Remove the bolts that attach the bumper from the end of the frame rails.

A CAUTION

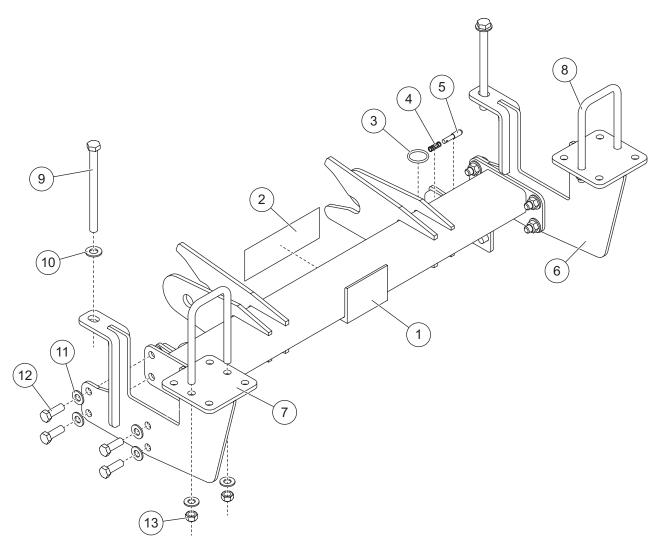
On the driver's side, make sure not to pinch the power steering hoses and airbag sensor wire. The top plate on the rear of the hanger plate must install above the hoses.

4. Install the hanger plates. Loosely install the U-bolt with 1/2" washers and 1/2" locknuts through the top rear plate and use the bumper bolt to temporarily hold the front of the hanger plate in position. Finger tighten the fasteners until all undercarriage parts are in place.

- Install the pushbeam square with the bottom of the hanger plates and secure with 1/2" x 1-1/2" cap screws, 1/2" washers and 1/2" locknuts. Tighten pushbeam hardware according to the torque chart.
- 6. Using a floor jack, apply pressure to the center of the pushbeam and remove the front bumper bolts from the hanger plates.
- 7. Reinstall the bumper, bottom lip first, and then stretch top lip over the bumper onto the mounting holes. Secure hanger plates and bumper to frame rails with supplied M14 x 180 mm cap screws and 9/16" washers.
- 8. Tighten hanger plate hardware according to the torque chart.
- 9. Reinstall the plastic bumper cover and grille. Reconnect the fog lamp wiring, if applicable.

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

UNDERCARRIAGE PARTS LIST



B30174 Undercarriage Kit							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	B30175	1	Pushbeam	5	B40079	2	A-Frame Latch Pin
2	B63162	1	Label, Pushbeam	6	B30218	1	Hanger Plate – PS
3	B61309	2	Split Ring, 1.25 OD	7	B30219	1	Hanger Plate – DS
4	B61000	2	Compression Ring SS	ns	B61666	1	Hardware Kit
B61666 Hardware Kit							
8		2	U-Bolt	11		20	1/2 Hardened Flat Washer
9		2	M14 x 2.00 x 180 Hex Cap Screw	12		8	1/2-13 x 1-1/2 Hex Cap Screw G5
10		2	9/16 Hardened Flat Washer	13		12	1/2-13 Hex Locknut GC
	ns = not shown SS = Stai			nless S	teel		G = Grade



Blizzard PO Box 245038 Milwaukee, WI 53224-9538 www.blizzardplows.com

A DIVISION OF DOUGLAS DYNAMICS, LLC

Copyright © 2016 Douglas Dynamics, LLC. All rights reserved. This material may not be reproduced or copied, in whole or in part, in any printed, mechanical, electronic, film or other distribution and storage media, without the written consent of Blizzard. Authorization to photocopy items for internal or personal use by Blizzard outlets or snowplow owner is granted.

Blizzard reserves the right under its product improvement policy to change construction or design details and furnish equipment when so altered without reference to illustrations or specifications used. Blizzard or the vehicle manufacturer may require or recommend optional equipment for snow removal. Do not exceed vehicle ratings with a snowplow. Blizzard offers a limited warranty for all snowplows and accessories. See separately printed page for this important information. The following are registered (®) or unregistered (™) trademarks of Douglas Dynamics, LLC: BLIZZARD®, POWER HITCH™, POWER HITCH™ 2, POWER PLOW™, SPEEDWING™.

Printed in U.S.A.