



## **VEHICLE UNDERCARRIAGE INSTALLATION INSTRUCTIONS**

**CHEVROLET K1500 BLAZER (1980-1991)  
CHEVROLET K10/K1500 SUBURBAN (1980-1991)  
CHEVROLET K10/K1500 PICKUP (1980-1987)  
GMC K1500 JIMMY (1980-1991)  
GMC K10/K1500 SUBURBAN (1980-1991)  
GMC K10/K1500 PICKUP (1980-1987)**

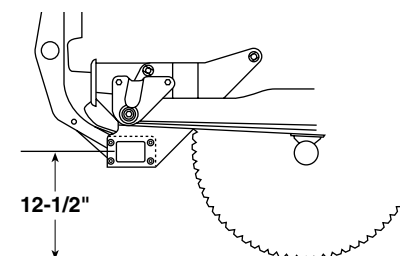
**UNDERCARRIAGE PART NO.  
30089  
HARDWARE KIT PART NO.  
61156**

**SEE REVERSE FOR ADDITIONAL INSTALLATION INSTRUCTIONS**

# UNDERCARRIAGE INSTALLATION INSTRUCTIONS



A label identifying the undercarriage assembly part number and push beam part number is applied to the rear of the push beam.



The recommended push beam height for this undercarriage assembly is 12-1/2" from the center of the push beam to level ground. DO NOT exceed 14-1/2" in height for this undercarriage.



**WARNING:** Always perform vehicle undercarriage installations with the keys removed from the vehicle's ignition. Properly tag the ignition switch to alert others work is being performed on the vehicle.

Most newer trucks are equipped with driver and passenger's side air bags. DO NOT remove, disable, or reposition any sensory equipment related to the safe operation of the air bags.

ALWAYS follow the vehicle manufacturer's recommendations for installing snowplowing equipment.

**FAILURE TO COMPLY WITH THE ABOVE WARNINGS MAY RESULT IN SERIOUS INJURY OR DEATH.**

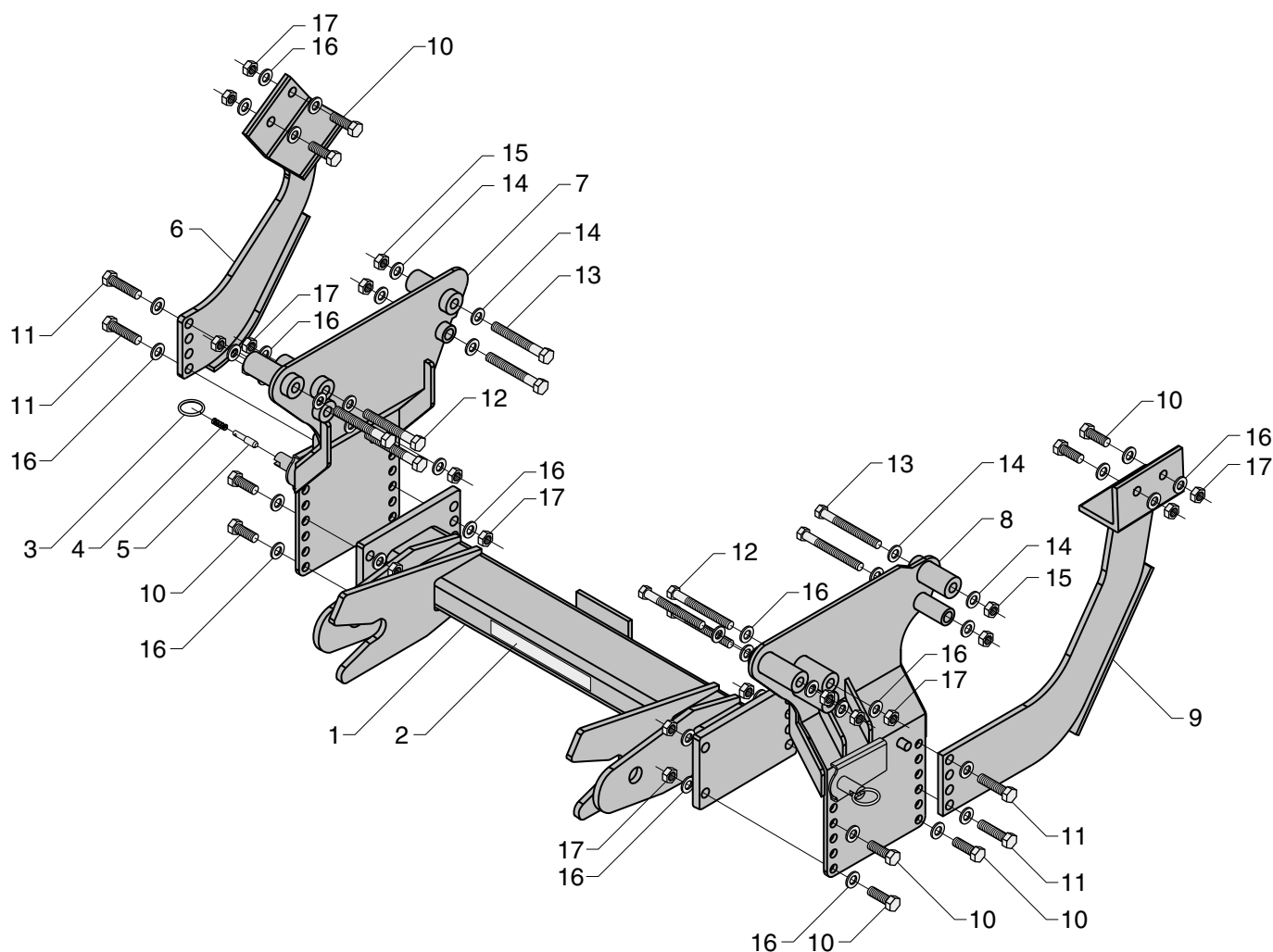


**CAUTION:** If your vehicle is equipped with oversize tires, they may come into contact with the undercarriage hanger plates when turning the vehicle.

The problem may be resolved by setting the steering stops on the vehicle. If this does not correct the problem, the original tires will need to be installed on the vehicle.

1. Begin the assembly by removing (if applicable) both 1/2"-13 x 2-1/2" bolts with washers and nuts that attach each tow hook to the truck frame rail. Discard all hardware. All bumper accessories should be removed as well.
2. Next, remove both 7/16"-14 x 1-1/4" bolts and 3/8" lock washers from the rear mount of each bumper support bracket. *Note: Each hole contains a welded nut on the inside of the truck frame rail eliminating the need for new hardware; however, top lock nuts and washers are provided should the welded nuts be corroded or the threads have been damaged.*
3. Position the driver's side HANGER PLATE on the inside of the truck frame rail and in front of the sway bar crossmember. *Note: The bushings should rest against the frame and the gussets should face the vehicle's tires.* Align the top and bottom rear bushings with the holes for the bumper support bracket. Secure the plate with two 7/16"-14 x 4-1/2" bolts and 7/16" washers. If needed, replace the welded nuts on the frame with the 7/16" washers and top lock nuts provided. Finger tighten the fasteners until all undercarriage parts are in place.
4. Align the three front bushings on the hanger plate with the holes for the tow hook mounts located in the truck frame rail. Position one 1/2"-13 x 4-1/2" bolt and 1/2" washer through each bushing and secure with one 1/2" washer and top lock nut.
5. Repeat steps #3 & #4 to install the passenger's side hanger plate.
6. Mount the PUSH BEAM to each hanger plate using two 1/2"-13 x 1-1/2" bolts with 1/2" washers and top lock nuts at both front holes and the rear bottom hole.
7. Next, align the top hole on the passenger's side HANGER PLATE SUPPORT ARM with the top hole on the outside of the hanger plate. Fit the support arm against the truck frame rail and mark the hole locations on the frame. Drill two holes into the truck frame to properly mount the support arm. *Note: Use caution when drilling into the frame. Hydraulic and/or electrical lines may be located on the interior of the frame rails.* Attach the support arm to the vehicle using two 1/2"-13 x 1-1/2" bolts with washers and top lock nuts. Bolt the support arm to the hanger plate using 1/2"-13 x 2" bolts with 1/2" washers and top lock nuts. Complete the same installation for the driver's side HANGER PLATE SUPPORT ARM.
8. Once the undercarriage has been positioned and all hardware is in place, proceed to tighten all top lock nuts. Reference the chart on page 4 for maximum bolt torque.
9. Position the LIGHT TOWER into the mount pockets on the push beam. Each pocket has a lock pin that secures both light tower arms. Pull out and twist each ring handle to temporarily unlock the pins. Place the light tower into the pockets and relock the pins. Mount each PLOW HEAD-LIGHT to the light tower with the hardware kit provided.

Complete the assembly by plugging the connectors from the snowplow headlights into the connectors on the vehicle wire harness. Adjust both lights with the plow in the raised position.



### UNDERCARRIAGE PARTS LIST

Ref. No.	Part No.	Qty.	Part Description
<b>N/A</b>	<b>30089</b>	<b>1</b>	<b>Assembly, Undercarriage: Nos: 1-17</b>
1	30092	1	Push Beam Weldment 2 x 4 x 26.25
2	61128	1	Decal, Push Beam, 1-1/2" x 9"
3	61309	2	Ring, Standard Split, 1-1/4" O.D., 1-1/16" I.D., SS
4	61000	2	Spring, Compression, 0.94" O.A.F.L. x 0.36" O.D., 0.029" Wire DIA., SS
5	40079	2	Pin, 3/8" DIA. x 1-3/4", SS
6	30124	1	Support Arm, Hanger Plate, Passenger's Side
7	30090	1	Hanger Plate, Passenger's Side
8	30091	1	Hanger Plate, Driver's Side
9	30120	1	Support Arm, Hanger Plate, Driver's Side
10	61055	10	Screw, Hex Head Cap, 1/2"-13 x 1-1/2" Grade 8, YZ
11	61018	4	Screw, Hex Head Cap, 1/2"-13 x 2" Grade 8, YZ
12	61152	6	Screw, Hex Head Cap, 1/2"-13 x 4-1/2" Grade 8, YZ
13	61153	4	Screw, Hex Head Cap, 7/16"-14 x 4-1/2" Grade 8, YZ
14	61162	8	Washer, SAE Mil-Carb High-Strength, 7/16", 59/64" O.D., 15/32" I.D., YZ
15	61154	4	Nut, Top Lock, 7/16"-14 Grade C, Z
16	61026	40	Washer, SAE Mil-Carb High-Strength, 1/2", 1-1/16" O.D., 17/32" I.D., YZ
17	61020	20	Nut, Top Lock, 1/2"-13 Grade C, Z
<b>N/A</b>	<b>61156</b>	<b>1</b>	<b>Kit, Hardware - Undercarriage P/N 30089: Nos. 10-17</b>

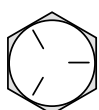
Note: The reference numbers listed identify parts shown in the illustration above. These numbers are specific to this illustration only. Always review the part number given for proper component identification. Blizzard Corporation reserves the right, under its Continuous Improvement Policy, to change construction or design details and furnish equipment when so altered without reference to illustrations or specifications.

# HEADLIGHT CONVERSION HARNESS GUIDE

VEHICLE APPLICATION	HEADLIGHT CONNECTOR(S)	HEADLIGHT DESCRIPTION	HEADLIGHT NUMBERS	CONVERSION HARNESS
1973-1991 CHEVROLET K1500 BLAZER 1973-1991 CHEV. K10/K1500 SUBURBAN 1973-1987 CHEVROLET K10/K1500 PICKUP	2B/2D	DUAL RECT. & DUAL ROUND HEADLAMP	6014, H6024, H6059, 6052, H6054, HP6054	62220
1973-1991 GMC K1500 JIMMY	LF/UF	QUAD LOW PROFILE RECT. HALOGEN	H4701, H4703	62225
1973-1991 GMC K10/K1500 SUBURBAN 1973-1987 GMC K10/K1500 PICKUP	1A1/2A1	QUAD RECTANGULAR HEADLAMP	4651, 4652, H4651, H4656, H4662	62227

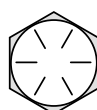
Note: Headlight conversion harness kits are not included with undercarriage mounts. All headlight conversion harness kits sold separately.

## TORQUE SPECIFICATIONS



### Grade Identification Marking for J429 - Grade 5 Bolt

- Material: Medium carbon steel: quenched and tempered
- Minimum Proof Strength: 85,000 psi
- Minimum Tensile Strength: 120,000 psi
- Core Hardness Rockwell (min.): C25, (max.): C34
- Minimum Yield Strength: 92,000 psi



### Grade Identification Marking for J429 - Grade 8 Bolt

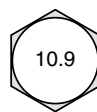
- Material: Medium carbon alloy steel: quenched and tempered
- Minimum Proof Strength: 120,000 psi
- Minimum Tensile Strength: 150,000 psi
- Core Hardness Rockwell (min.): C33, (max.): C39
- Minimum Yield Strength: 130,000 psi

Nominal Thread Size	SAE J429 - Grade 5			Nominal Thread Size	SAE J429 - Grade 8		
	Clamp Loads (lbs.)	Tightening Torque			Clamp Loads (lbs.)	Tightening Torque	
		“Lubricated”	“Dry”			“Lubricated”	“Dry”
1/4-20	2,000	75 in-lbs	100 in-lbs	1/4-20	2,850	107 in-lbs	143 in-lbs
5/16-18	3,350	157 in-lbs	210 in-lbs	5/16-18	4,700	220 in-lbs	305 in-lbs
3/8-16	4,950	23 ft-lbs	31 ft-lbs	3/8-16	6,950	32.5 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	21 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	482.5 ft-lbs	640 ft-lbs	1-8	54,540	680 ft-lbs	900 ft-lbs



### Grade Identification Marking for Metric - Grade 8.8 Bolt

- Material: Medium carbon steel: quenched and tempered
- Minimum Proof Strength: 580 MPa
- Minimum Tensile Strength: 800 MPa
- Core Hardness Rockwell (min.): C22, (max.): C32
- Minimum Yield Strength: 640 MPa



### Grade Identification Marking for Metric - Grade 10.9 Bolt

- Material: Low carbon alloy steel: quenched and tempered
- Minimum Proof Strength: 830 MPa
- Minimum Tensile Strength: 1040 MPa
- Core Hardness Rockwell (min.): C32, (max.): C39
- Minimum Yield Strength: 940 MPa

Diameter (millimeters)	Metric Class 8.8			Diameter (millimeters)	Metric Class 10.9		
	Clamp Loads (Newton)	Tightening Torque			Clamp Loads (Newton)	Tightening Torque	
		“Lubricated”	“Dry”			“Lubricated”	“Dry”
5	6177	4.63 N-m	6.18 N-m	5	8840	6.63 N-m	8.84 N-m
6	8743	7.87 N-m	10.5 N-m	6	12512	11.3 N-m	15.0 N-m
7	12570	13.2 N-m	17.6 N-m	7	17990	18.9 N-m	25.2 N-m
8	15921	19.1 N-m	25.5 N-m	8	22784	27.3 N-m	36.5 N-m
10	25230	37.8 N-m	50.5 N-m	10	36105	54.1 N-m	72.2 N-m
12	36670	66.0 N-m	88.0 N-m	12	52475	94.5 N-m	125 N-m
14	50025	105 N-m	140 N-m	14	71587	150 N-m	200 N-m
16	70650	170 N-m	226 N-m	16	97732	235 N-m	313 N-m
18	86400	233 N-m	311 N-m	18	119520	323 N-m	430 N-m
20	110250	330 N-m	441 N-m	20	152513	458 N-m	610 N-m

**Disclaimer:** All torque values included in the charts above are advisory only, and their use by anyone is entirely voluntary. Reliance on the contents for any purpose by anyone is the sole risk of that person and Blizzard Corporation is not responsible for any loss, claim or damages arising therefrom. Blizzard Corporation has made an effort to present the above contents accurately, but we do not guarantee its completeness or validity. This information is subject to change at any time, without notice. Blizzard Corporation makes no representations or warranties, express or implied, in connection with the information.