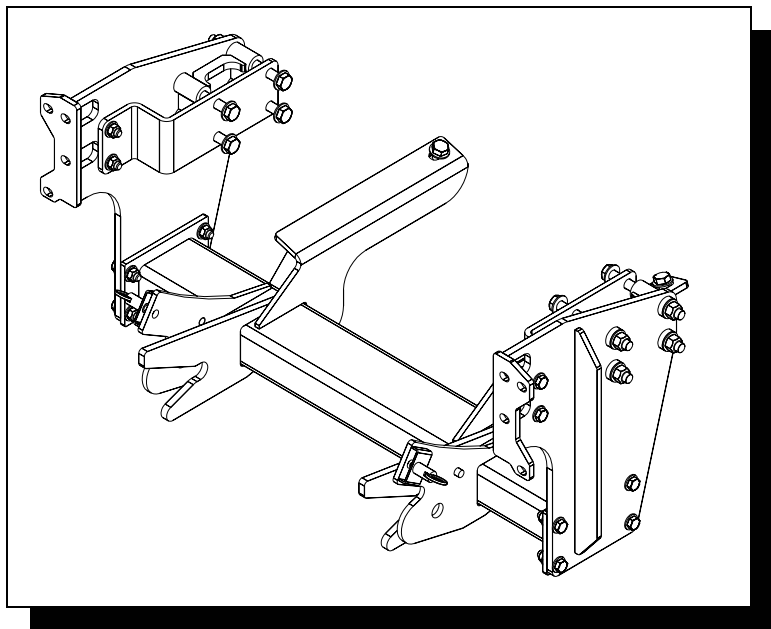




## UNDERCARRIAGE INSTALLATION INSTRUCTIONS



UNDERCARRIAGE **30172**

HARDWARE KIT **61470**

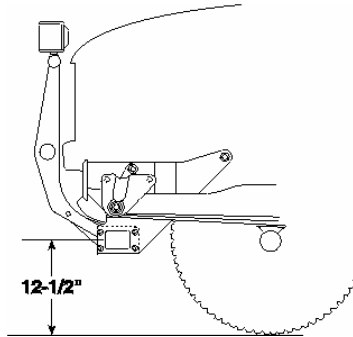
FOR MODELS:

*GMC C4500/5500 (2003-2004)*

## 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.

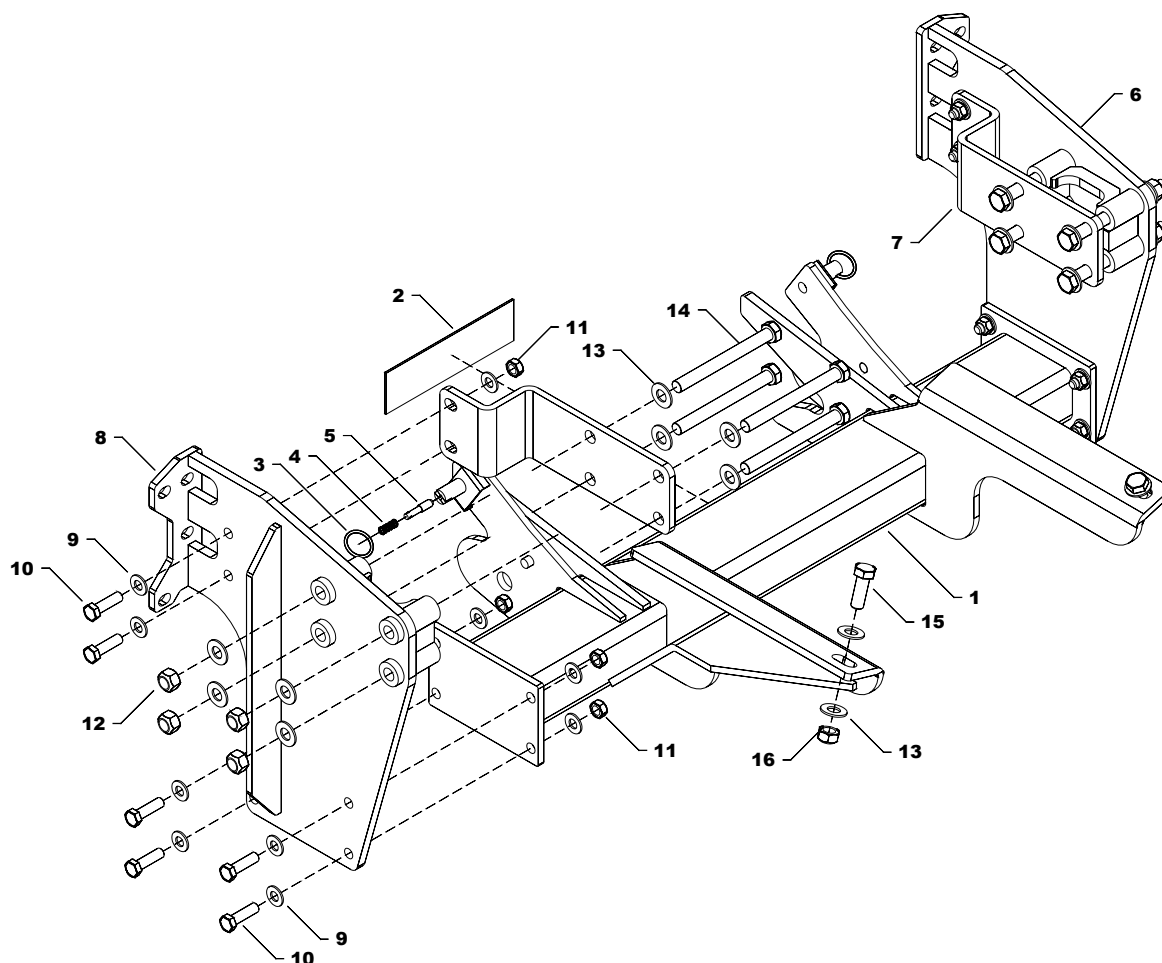
**FAILURE TO COMPLY WITH THE ABOVE WARNINGS MAY RESULT IN SERIOUS INJURY OR DEATH.**



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

1. Remove the bumper from the bumper mount plates.
2. Remove the four bolts that secure each front leaf spring mount plate to the truck frame rail. Remove the bumper mount plates from the frame and discard.
3. Replace the bumper mount plates with the hanger support plates (**Ref 7**) provided. Install the support plates to the inside of the truck frame rail.
4. Align the holes in the driver's side hanger plate (**Ref 8**) with the front leaf spring mount plate holes (outside the frame). Secure the hanger plate, leaf spring mount plate and hanger support plate with bolts (**Ref 14**), washers (**Ref 13**) and nuts (**Ref 12**). Finger tighten the fasteners until all undercarriage parts are in place.
5. Align the front holes in the hanger support plate with the holes in the hanger plate. Secure both plates with bolts (**Ref 10**), washers (**Ref 9**) and nuts (**Ref 11**).
6. Align the holes in the pushbeam (**Ref 1**) with those in the hanger plates and secure each side using bolts (**Ref 10**), washers (**Ref 9**) and nuts (**Ref 11**). Torque the pushbeam hardware according to specifications. *Note: Use a hydraulic floor jack to help facilitate the installation procedure.*
7. Align the holes in the push beam crossmember support with the angled vehicle cross-member (located above the leaf springs). Secure the support with bolts (**Ref 15**), washers (**Ref 13**) and nuts (**Ref 16**).
8. Level the pushbeam with the floor and tighten the hanger plate hardware according to torque specifications
9. Replace the bumper using the original vehicle hardware. The bumper will install to the front of each hanger plate. *Note: Upon installation, the bumper may extend further ahead of the vehicle than the original mount location.*
10. 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 Headlight** to the light tower with the hardware kit provided.
11. Plug 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



| REF | PN    | QTY | DESCRIPTION                        | NOTES         |
|-----|-------|-----|------------------------------------|---------------|
| -   | 30172 | 1   | Asm, Undercarriage                 | INCLUDES 1-16 |
| -   | 61470 | 1   | Kit, Hardware UC                   | INCLUDES 9-16 |
| 1   | 30156 | 1   | Weldment, Push Beam 3 X 5 X 38.25  |               |
| 2   | 63161 | 1   | Decal, Pushbeam 2-1/4" x 9-3/4"    |               |
| 3   | 61309 | 2   | Ring, Standard Split, 1.48" O.D    |               |
| 4   | 61000 | 2   | Spring, Draw Latch Lock Pin        |               |
| 5   | 40079 | 2   | Pin, 3/8" DIA. x 1-3/4" SS         |               |
| 6   | 30168 | 1   | Wldmt-Hanger RH                    |               |
| 7   | 30170 | 2   | Plate-Inner Reinforcement          |               |
| 8   | 30169 | 1   | Wldmt-Hanger LH                    |               |
| 9   | 61026 | 24  | Washer, 1/2" SAE Hardened          |               |
| 10  | 61150 | 12  | Screw, 1/2-13 x 1-3/4" HHCS GR8 YZ |               |
| 11  | 61020 | 12  | Nut, 1/2-13 Top Lock Z             |               |
| 12  | 61469 | 8   | Nut, M16 x 2Hex Top Lock           |               |
| 13  | 61064 | 20  | Washer, 5/8" SAE Hardened          |               |
| 14  | 61464 | 8   | Screw, M16 x 2 x 160mm HHCS        |               |
| 15  | 61060 | 2   | Screw, 5/8-11 x 1-3/4 HHCS UNC     |               |
| 16  | 61063 | 2   | Nut, 5/8-11 Hex Top Lock UNC       |               |

*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 | HEADLIGHT DESCRIPTION              | HEADLIGHT NUMBERS                       | CONVERSION HARNESS |
|---------------------|---------------------|------------------------------------|-----------------------------------------|--------------------|
| 2003 GMC C4500/5500 | 2B/2D               | DUAL RECTANGULAR OR ROUND HEADLAMP | 6014, H6024, H6059, 6052, H6054, HP6054 | 62220              |
| 2004 GMC C4500/5500 | 1A1/2A1             | QUAD RECTANGULAR HEADLAMP          | 4651, 4652, H4651, H4656, H4662         | 62227              |

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

## TORQUE SPECIFICATIONS (For reference only)



Grade Identification Marking for J429-Grade 5 Bolt



Grade Identification Marking for J429-Grade 8 Bolt

| SAE J429 – Grade 5  |                   |                   |            | SAE J429 – Grade 8  |                   |                   |            |
|---------------------|-------------------|-------------------|------------|---------------------|-------------------|-------------------|------------|
| Nominal Thread Size | Clamp Loads (lbs) | Tightening Torque |            | Nominal Thread Size | Clamp Loads (lbs) | Tightening Torque |            |
|                     |                   | “Lubricated”      | “Dry”      |                     |                   | “Lubricated”      | “Dry”      |
| 1/4-20              | 2,000             | 6 ft-lbs          | 8 ft-lbs   | 1/4-20              | 2,850             | 9 ft-lbs          | 12 ft-lbs  |
| 5/16-18             | 3,350             | 13 ft-lbs         | 18 ft-lbs  | 5/16-18             | 4,700             | 18 ft-lbs         | 25 ft-lbs  |
| 3/8-16              | 4,950             | 23 ft-lbs         | 31 ft-lbs  | 3/8-16              | 6,950             | 32 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        | 211 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 ft-lbs        | 640 ft-lbs | 1-8                 | 54,540            | 680 ft-lbs        | 900 ft-lbs |



Grade Identification Marking for Metric-Grade 8.8 Bolt



Grade Identification Marking for Metric-Grade 10.9 Bolt

| Metric Class 8.8 |                      |                   |            | Metric Class 10.9 |                      |                   |            |
|------------------|----------------------|-------------------|------------|-------------------|----------------------|-------------------|------------|
| Diameter (mm)    | Clamp Loads (Pounds) | Tightening Torque |            | Diameter (mm)     | Clamp Loads (Pounds) | Tightening Torque |            |
|                  |                      | “Lubricated”      | “Dry”      |                   |                      | “Lubricated”      | “Dry”      |
| 5                | 1,389                | 3 ft-lbs          | 5 ft-lbs   | 5                 | 1,987                | 5 ft-lbs          | 7 ft-lbs   |
| 6                | 1,965                | 6 ft-lbs          | 8 ft-lbs   | 6                 | 2,812                | 8 ft-lbs          | 11 ft-lbs  |
| 7                | 2,826                | 10 ft-lbs         | 13 ft-lbs  | 7                 | 4,044                | 14 ft-lbs         | 19 ft-lbs  |
| 8                | 3,579                | 14 ft-lbs         | 19 ft-lbs  | 8                 | 5,121                | 20 ft-lbs         | 27 ft-lbs  |
| 10               | 5,672                | 28 ft-lbs         | 37 ft-lbs  | 10                | 8,116                | 40 ft-lbs         | 53 ft-lbs  |
| 12               | 8,243                | 49 ft-lbs         | 65 ft-lbs  | 12                | 11,796               | 70 ft-lbs         | 92 ft-lbs  |
| 14               | 11,246               | 77 ft-lbs         | 103 ft-lbs | 14                | 16,092               | 111 ft-lbs        | 148 ft-lbs |
| 16               | 15,882               | 125 ft-lbs        | 167 ft-lbs | 16                | 21,970               | 173 ft-lbs        | 231 ft-lbs |
| 18               | 19,423               | 172 ft-lbs        | 229 ft-lbs | 18                | 26,868               | 238 ft-lbs        | 317 ft-lbs |
| 20               | 24,784               | 244 ft-lbs        | 325 ft-lbs | 20                | 34,284               | 338 ft-lbs        | 450 ft-lbs |