BOSS PRODUCTS
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2004 & NEWER CHEVROLET COLORADO & GMC CANYON SPORT DUTY UNDERCARRIAGE MOUNTING INSTRUCTIONS (PART NO. LTA05400)

WARNING

Many newer trucks are now equipped with air bags. DO NOT under any circumstances disable, remove or relocate any sensors or other components related to the operation of the air bags.

For recommended vehicle models refer to the Boss Snowplow Application Chart and Selection Guide.

To comply with Federal Regulations and to assure a safe vehicle, the Front Gross Axle Weight Rating (FGAWR), Rear Gross Axle Weight Rating (RGAWR), and the Gross Vehicle Weight Rating (GAWR) must not be exceeded at any time.

Due to the variety of equipment that can be installed on this vehicle, it is necessary to verify that the Front Gross Axle Weight Rating (FGAWR), Rear Gross Axle Weight Rating (RGAWR), and the Gross Vehicle Weight Rating (GAWR) are not exceeded at any time. This may require weighing the vehicle and adding ballast as necessary. It may also limit payload capacity of the vehicle. It is the operator's responsibility to verify that these ratings are not exceeded.

2004 & NEWER CHEVROLET COLORADO & GMC CANYON SPORT DUTY UNDERCARRIAGE MOUNTING INSTRUCTIONS

The mounting procedure outlined below covers the 2004 and Newer Chevrolet Colorado and GMC Canyon trucks. You will need to refer to the illustrations and familiarize yourself with each of the undercarriage components and their relative position to each other. Then proceed as follows:

1. Begin by removing the bolts holding the plastic skid plate on the bottom of the frame rails and the rear cross member. Remove the plastic skid plate.

2. Assemble Driver Side Push Beam Support Plate (62B) to the bottom of the driver side frame rail. Begin by aligning Driver Side Push Beam Support Plate (62B) on the driver side frame rail. Insert a Bolt Bar (102) into a slot in the frame rail. Install the bolt through the bottom hole in the frame rail and Driver Side Push Beam Support Plate (62B). Secure with ½" Lock Washer (F) and ½"-13 Full Nut (E), do not tighten. Insert second Bolt Bar (102) through a slot in the frame rail. Install bolt through the rear hole in the frame rail and Driver Side Push Beam Support Plate (62B). Secure with ½" Lock Washer (F) and ½"-13 Full Nut (E). Tighten both installed nuts. Next, drill the inside and outside frame rail walls through the forward most holes in Driver Side Push Beam Support Plate (62B). Install one 5/8"-11 X 4-1/2" Hex Head Bolt (C) and one ½"-13 Lock Nut (D) in the drilled hole and tighten.

3. Repeat Step 2 on the passenger side frame rail. The plastic skid plate will no longer be used but should be retained in case the undercarriage is ever removed.

Note: In the following step, Push Beam Assembly (62) may interfere with the lower plastic valance on the bottom edge of the truck bumper. This plastic valance can be removed if necessary.

4. Install Push Beam Assembly (62) between Push Beam Support Plates (62A & 62B) using eight ½"-13 X 1-1/2" Grade 5 Hex Head Bolts (A) and eight ½"-13 Lock Nuts (D). For Light Duty Plow applications, the center of the receiver hole in Push Beam Assembly (62) should be 14-1/2" from the ground. Refer to Figure 3. Leave hardware finger tight.

5. Assemble the rear portion of Angle Bracket (75) to the truck's cross member using two Nut Plates (101), two ½" Split Lock Washers (F) and two ½"-13 X 1-1/2" Grade 5 Hex Head Bolts (A). Nut Plates (101) must be inserted into the cross member through the holes in the bottom of the cross member.

Note: Nut Plates (101) must be inserted with the nut facing upward. You will not get a proper fit if the nut is hanging down.

6. Assemble Angle Bracket (75) to the back of Push Beam Assembly (62) using four ½"-13 X1-1/2" Grade 8 Hex Head Bolts (B) and four ½"-13 Lock Nuts (D). Refer to Figure 4 at the end of this manual.

7. With all undercarriage parts in place, securely fasten all mounting hardware. It is important that all fasteners be properly torqued (see Fig. 4) to assure a safe operating plow. Re-tighten all fasteners after 2 hours of plowing.

Installation Notes:

A. This installation requires Headlight Adapter Kit MSC04601. The headlight connectors should be installed in the "B" position. See Figure 1.

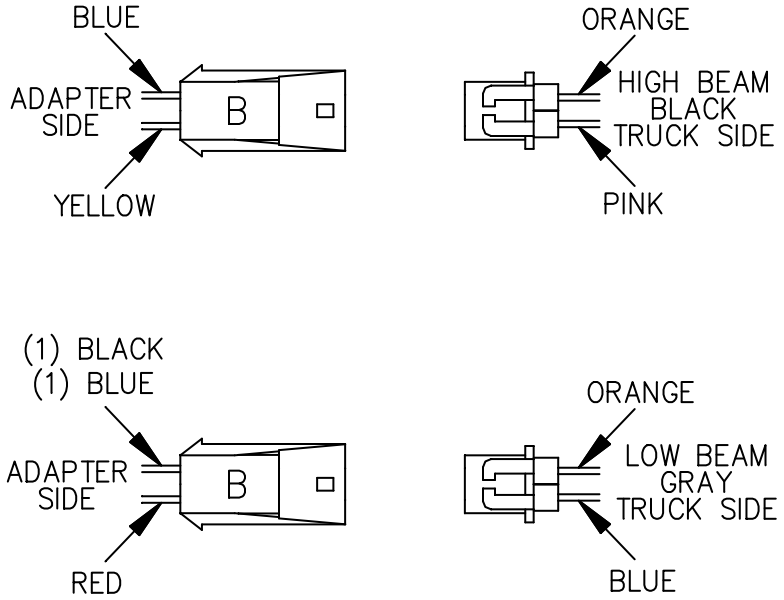

Figure 1. Headlight Adapter Orientation G10335

B. BOSS recommends using the tail light turn signals as the source for the plow turn signals. The tail light wires can be found in the wiring loom running between the battery and the front fender under the truck hood. There is a junction in the loom behind the battery where you can use the provided Scotchlocks on a blue wire for the right turn and a white wire for the left turn. Please check each wire to ensure proper function before attaching Scotchlocks.

2004 & NEWER CHEVROLET COLORADO & GMC CANYON SPORT DUTY UNDERCARRIAGE INSTALLATION PROCEDURE

REF. NO.	DESCRIPTION	PART NO.	QTY.
62	Push Beam Assembly, Light Duty	PBA05253	1
62A	Push Beam Support Plate, Passenger Side	PBA05406	1
62B	Push Beam Support Plate, Driver Side	PBA05407	1
75	Angle Bracket	LTA05411	1
101	Nut Plate	LTA05413	2
102	Bolt Bar	LTA05417	4
	FASTENER KIT,COLORADO&CANYON,04&UP	HDW05415	1
Includes:			
A	½" – 13 x 1-½" Grade 5 Hex Head Bolt	HDW01728	10
B	½" – 13 x 1-½" Grade 8 Hex Head Bolt	HDW05553	4
C	5/8" – 11 x 4-½" Hex Head Bolt	HDW01705	2
D	½" – 13 Hex Head Lock Nut	HDW01748	14
E	½" – 13 Hex Head Nut	HDW02410	4
F	½" Split Lock Washer	HDW01732	6

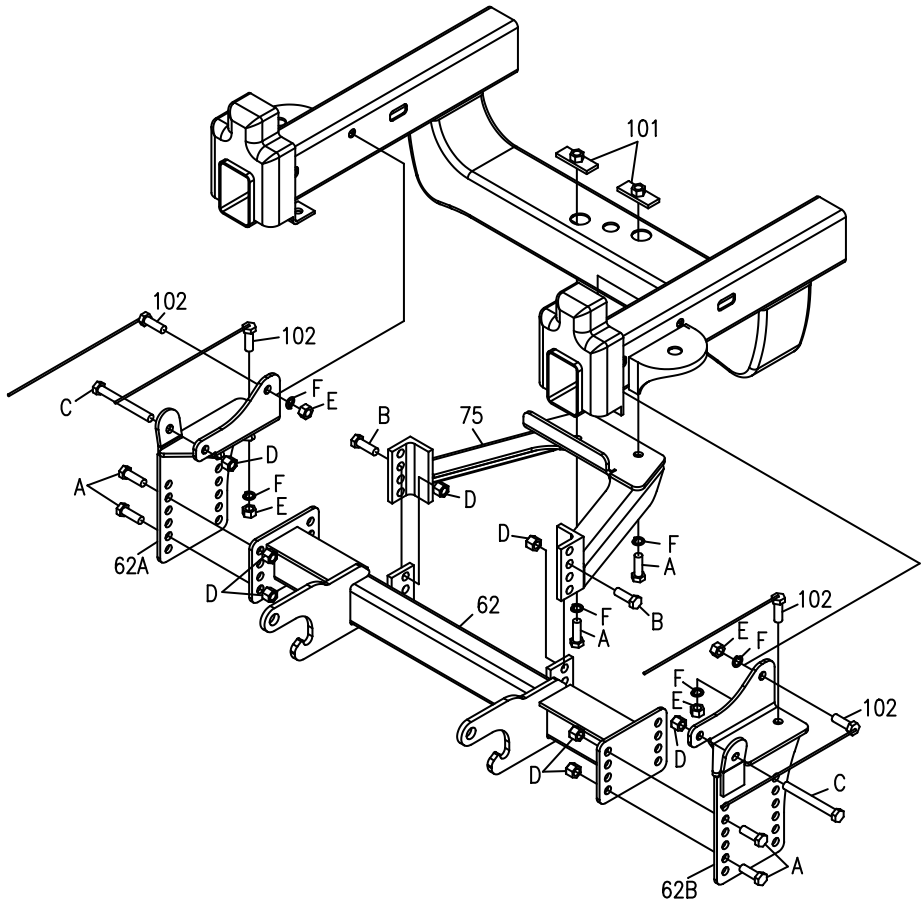

Figure 2 G10334

RECOMMENDED PUSHBEAM HEIGHT

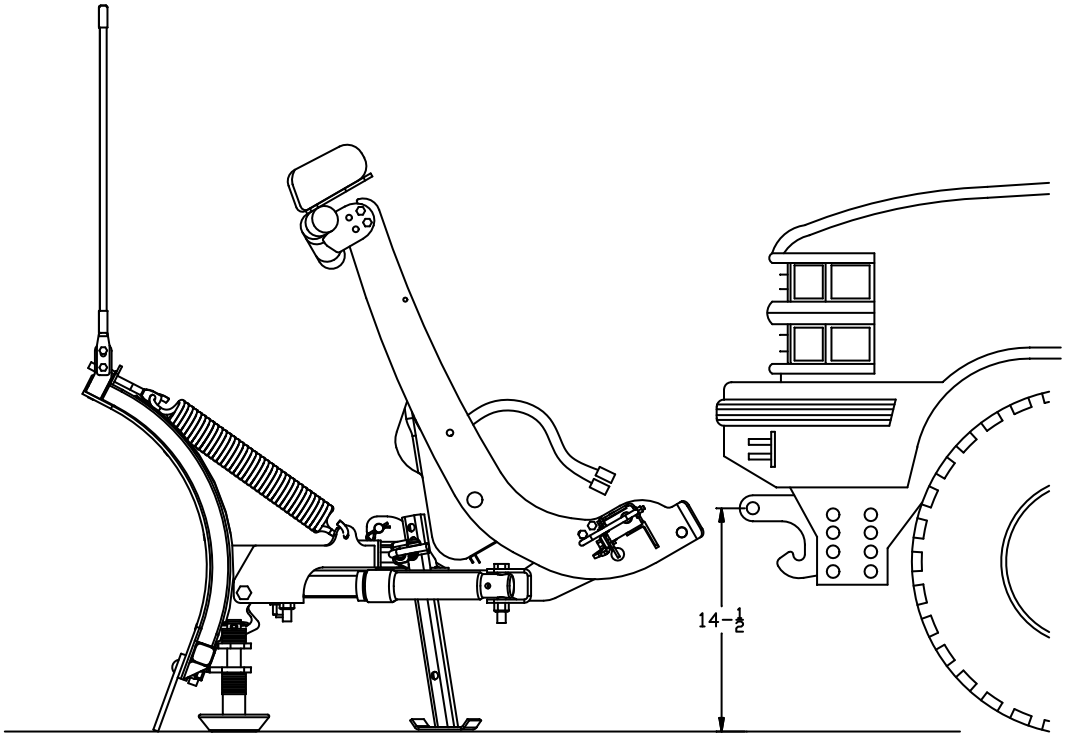

Figure 3 G10299

GUIDE TO RECOMMENDED ASSEMBLY TORQUE

DIAMETER / PITCH	GRADE 5	GRADE 8	GRADE 8.8	GRADE 10.9
1/4–20	6	9		
5/16–18	14	19		
3/8–16	23	33		
7/16–14	38	53		
1/2–13	56	80		
9/16–12	82	116		
5/8–11	113	159		
3/4–10	201	283		
M10 X 1.25			36	
M10 X 1.5				49
M12 X 1.75				71
M14 X 2.0				80

ALL TORQUE VALUES ARE IN FOOT–POUNDS (FT.–LB.)

Figure 4 G10410

* The torque values listed above are based on dry, coated bolts, variables such as oil, or other lubrications may appreciably alter these values and must be taken into consideration.

NOTE: IT IS IMPORTANT THAT ALL FASTENERS BE PROPERLY TORQUED TO ASSURE A SAFE OPERATING PLOW. RE-TIGHTEN ALL FASTENERS AFTER 2 HOURS OF PLOWING.