



INSTALLATION INSTRUCTIONS FRONT PLOW MOUNTING KIT

Part Number: 85690

Application: BRP COMMANDER

Your safety, and the safety of others, is very important. To help you make informed decisions about safety, we have provided installation and operating instructions and other information on labels and in this guide. This information alerts you to potential hazards that could hurt you or others. It is not possible to warn you about all potential hazards associated with this product, you must use your own good judgment.

CARELESS INSTALLATION AND OPERATION CAN RESULT IN SERIOUS INJURY OR EQUIPMENT DAMAGE. READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND OPERATING INSTRUCTIONS BEFORE INSTALLING AND OPERATING THIS PRODUCT.

This guide identifies potential hazards and has important safety messages that help you and others avoid personal injury or death. **WARNING** and **CAUTION** are signal words that identify the level of hazard. These signal words mean:

WARNING signals a hazard that *could* cause serious injury or death, if you do not follow recommendations. **CAUTION** signals a hazard that *may* cause minor to moderate injury, if you do not follow recommendations.

This guide uses **NOTICE** to call attention to important mechanical information, and **Note**: to emphasize general information worthy of special attention.

WARNING

INJURY HAZARD

Failure to observe these instructions could lead to severe injury or death.

- ☐ **Always** Read the Plow Operator's Manual, the Winch Operator's Manual and all warning labels before operating.
- ☐ **Always** use extreme caution when drilling on any vehicle. Make sure that all fuel lines, brake lines, electrical wires, and other objects are not punctured or damaged when/if drilling on the vehicle. Thoroughly inspect the area to be drilled (on both sides of material) prior to drilling, and relocate any objects that may be damaged. Failure to inspect the area to be drilled may result in vehicle damage, electrical shock, fire or personal injury.
- ☐ **Always** wear safety glasses when installing this kit. A drilling operation will cause flying metal chips. Flying chips can cause eye injury.
- ☐ **Always** use extreme caution when cutting and trimming during fitting.
- ☐ **Always** remove jewelry and wear eye protection.
- ☐ **Never** lean over battery while making connections.
- ☐ **Never route electrical cables:**
 - Across any sharp edges.
 - Through or near moving parts.
 - Near parts that become hot.
- ☐ **Always** insulate and protect all exposed wiring and electrical terminals.
- ☐ **Always** install terminal boots as directed in installation instructions.
- ☐ **Always** use appropriate and adequate care in lifting components into place.
- ☐ **Always** insure components will remain secure during installation and operation.
- ☐ **Always** tighten all nuts and bolts securely, per the installation instructions.
- ☐ **Always** operate the vehicle at a walking speed with the blade installed. Never exceed 5 mph (8 km/h), even with blade up.
- ☐ **Always** plow cautiously, impact with hidden or stationary object may cause the vehicle to stop suddenly or go out of control.
- ☐ **Never** operate the vehicle on slopes greater than 10 degrees with the plow installed.
- ☐ **Never** stand or ride on the plow.
- ☐ **Always** stay clear of moving parts and joints. Always keep others away when operating or adjusting plow.
- ☐ **Always** perform regular inspections and maintenance on the plow mechanism, fasteners, cable and related hardware.
- ☐ **Always** replace all worn or damaged parts before operating.
- ☐ **Never** operate this WARN product with damaged or missing parts.
- ☐ **Always** drive slowly over bumpy and rough terrain. Driving at speeds that cause the plow to bounce while in the up position can cause the winch to back-drive, causing the plow to work its way down. This may result in the plow impacting a stationary object and cause damage to the vehicle and operator injury or death.
- ☐ **Always** drive at speeds such that the plow does not bounce and be aware of the plow position while driving at all times.
- ☐ **Always** be aware that the purpose of the j-bolt is to break the connection between the plow and the winch, to prevent serious damage to the ATV if the plow is raised too high. The plow blade will drop suddenly if the j-bolt breaks, so always be sure there are no bystanders when you raise and lower the plow.
- ☐ **Never** raise the top of the plow above the headlights of the ATV, as it may damage the vehicle and plow.
- ☐ **Always** replace a deformed or broken j-bolt with the spare j-bolt included in the kit.

⚠ CAUTION	
Moving Parts Entanglement Hazard	
Failure to observe these instructions could lead to minor or moderate injury.	
☐	Always take time to fully read and understand the installation instructions, Operations Guide, and Guide to Winching included with this product.
☐	Never operate this product if you are under 16 years of age.
☐	Never operate this product when under the influence of drugs, alcohol or medications.
Read installation and operating instructions thoroughly.	

Notice	
Equipment Damage	
☐	Always refer to the Installation and Specification Guide, supplied in the winch kit, for all wiring schematics and specific details on how to wire this WARN product to your vehicle.
Read installation and operating instructions thoroughly.	

BEFORE YOU BEGIN

Please read and understand these instructions completely before installation to avoid injury to yourself or damage to the vehicle or accessory.

Dealer: These instructions contain important information for future reference and must be given to the customer at time of purchase or upon completion of installation.

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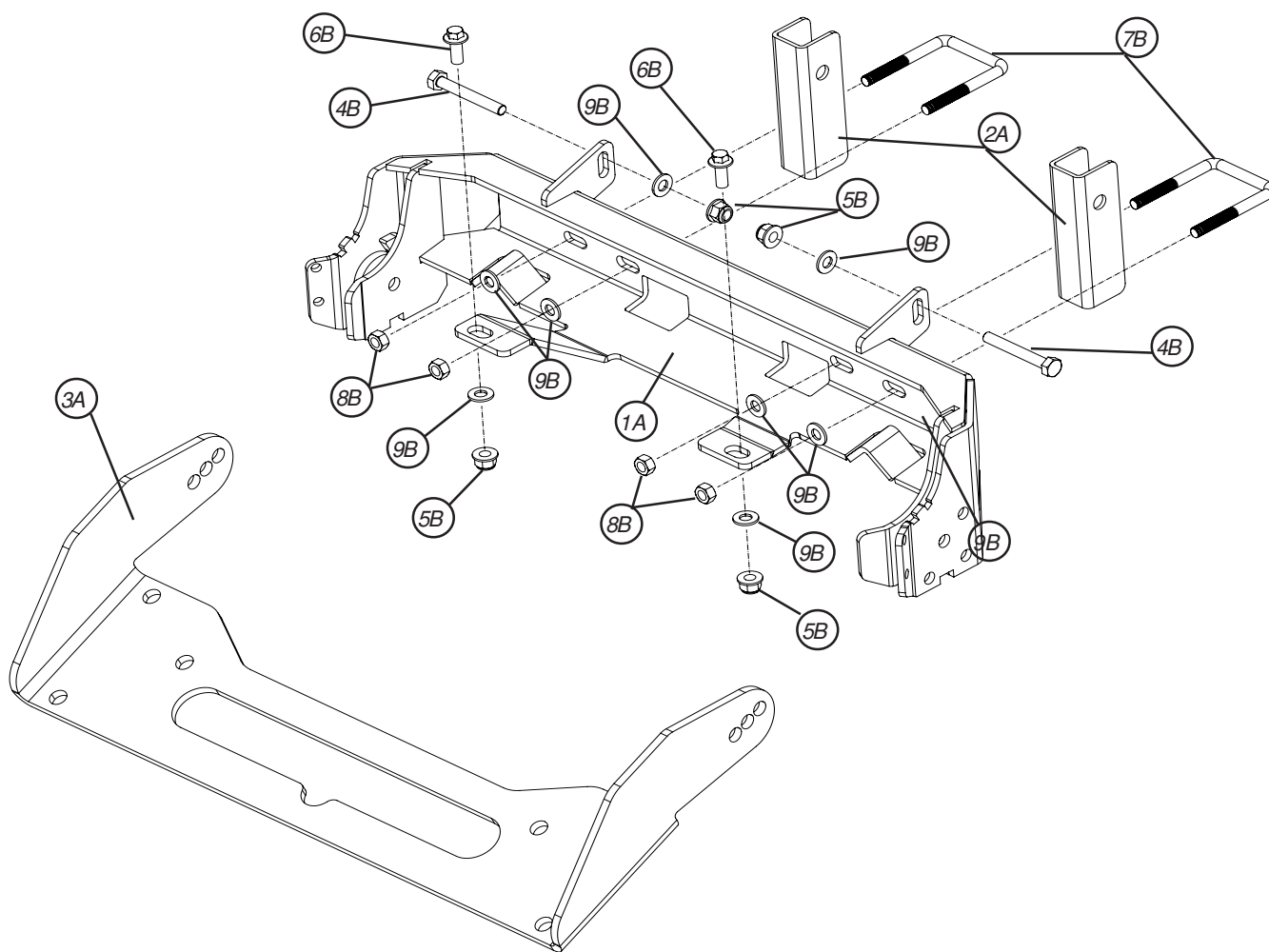
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TORQUE SPECIFICATIONS

M6, 1/4	8 lb. ft. (10.8 N-m)
M8, 5/16	17 lb. ft. (12.5 N-m)
M10, 3/8	30 lb. ft. (40.7 N-m)
M11, 7/16	50 lb. ft. (67.8 N-m)
M12, 1/2	75 lb. ft. (101.7 N-m)

I. PARTS LIST

NO.	PART NAME	DESCRIPTION	QTY
1A	FRONT PLOW MOUNTING PLATE	FPM MOUNTING PLATE	1
2A	BRACKET FRAME SUPPORT	FRAME SUPPORT BRACKET	2
3A	WELDMNT BRKT PUSH TUBE	PUSH TUBE BRACKET	1
4B	CAP SCREW M8	M8-1.25 X 60MM HEX CAP SCREW	2
5B	FLANGED HEX NUT	M8-1.25 HEX NUT FLANG W/INSERT	4
6B	CAP SCREW M8	M8-1.25 X 20 MM FLANGED HEX CAP SCREW	2
7B	U-BOLT	5/16-18 X 2 X3 X 1.5 SQ U-BOLT	2
8B	HEX NUT W/INSERT	5/16-18 HEX NUT W/INSERT	4
9B	FLAT WASHER	5/16 FLAT WASHER	8



II. BRP COMMANDER MOUNTING KIT INSTALLATION

1. Prepare the UTV by disconnecting the negative and positive leads to the battery; disconnect the negative battery lead first.
2. If you are installing the winch mounting kit in conjunction with the plow mounting kit read all of the instructions prior to beginning installation. Refer to page 7 if installing the winch mounting plate.
3. Place support brackets (2A) inside the frame of the UTV. Align the holes in the support brackets with the holes in the UTV frame as shown in figures 1 and 2.

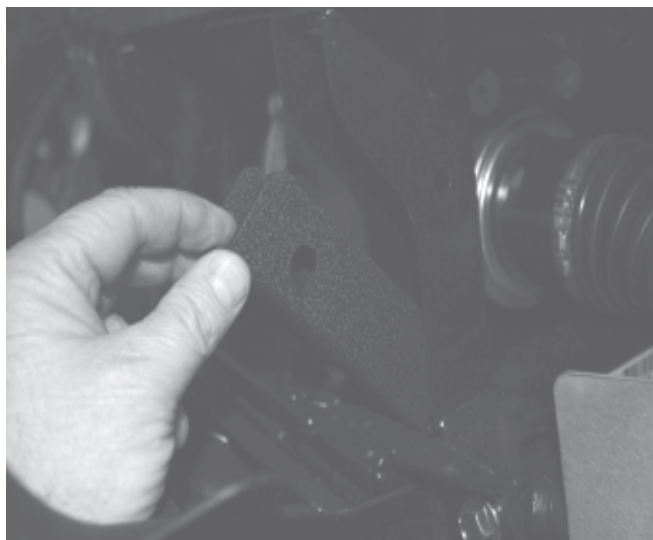


Figure 1

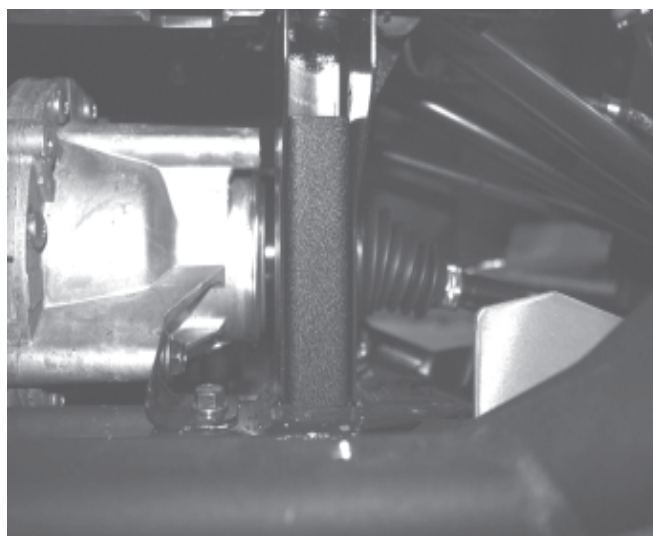


Figure 2

4. Place front plow mounting plate (1A) into position as shown in figures 3.



Figure 3

II. KIT INSTALLATION, CONTINUED

5. Attach the rear of the front plow mounting plate with 2 M8-1.25 x 60mm hex head cap screw (4B), 2, 5/16 flat washers (9B), and 2, M8-1.25 flanged locking hex nuts (5B). Run the cap screws through the flange on the mounting plate into the frame and through the frame support bracket as shown in figure 4. Do not tighten at this time.
6. Place 5/16-18 x 2 x 3 x 1.5 square u-bolt (7B) around the frame and into the mounting plate. Use 5/16 flat washers (9B) and 5/16-18 locking hex nuts (8B) to secure the u-bolts as shown in figure 5. Do not tighten the fasteners at this time.
7. Place the 2, M8-1.25 x 20mm flanged hex capscrews (6B), through the front flange of the bumper and down through the bumper and into the front mounting flange of the front plow mounting plate. Place a 5/16 flat washer (9B) and use the M8-1.25 flanged hex nut (5B) to secure on the bottom side. Make sure to keep all fasteners loose until all the fasteners have been installed.

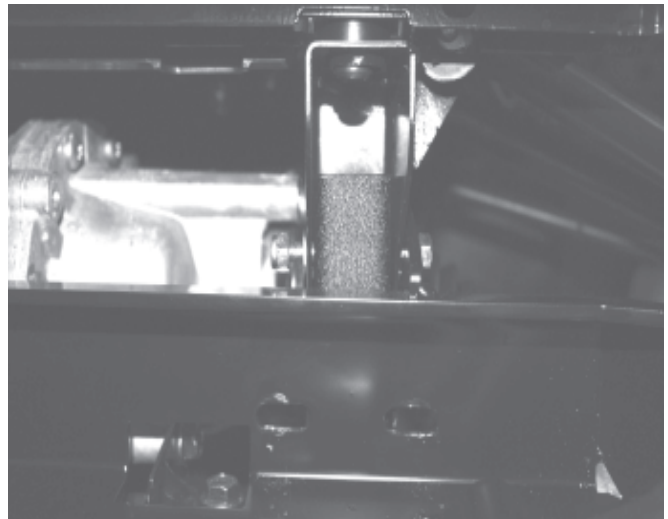


Figure 4



Figure 5

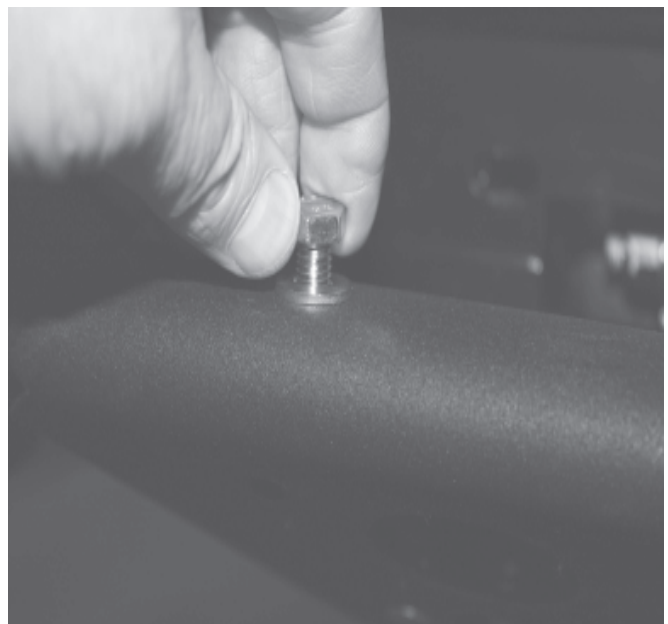


Figure 6

II. KIT INSTALLATION, CONTINUED

8. After all fasteners have been installed refer to torque specifications on page 2.
9. The front plow mounting plate is now installed. If installing the winch mounting plate at the same time please look at steps 11 and 15 on page 7 to help with installation.

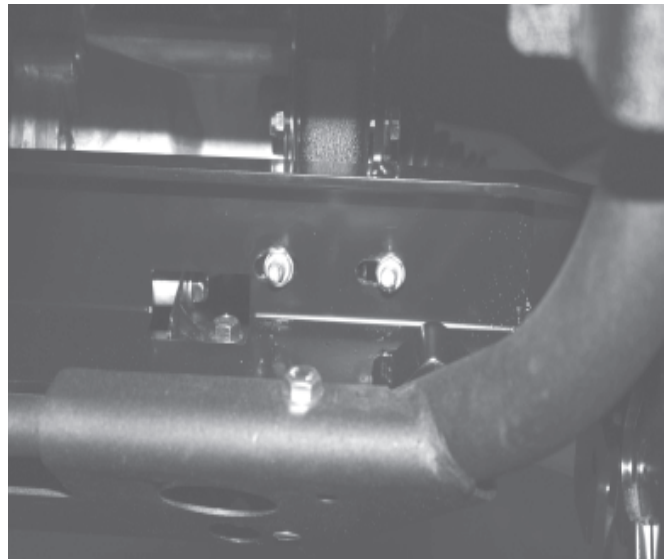


Figure 7



WARNING

Tighten all nuts and bolts securely. Failure to check all nuts and bolts prior to use can result in product failure which can lead to vehicle damage and operator injury or death.



Figure 8

10. Attach the push tube bracket (A3) to the plow blade assembly. The hardware for attaching the push tube assembly to the plow blade assembly will be found in the hardware kit that came with the plow blade, see figure 9

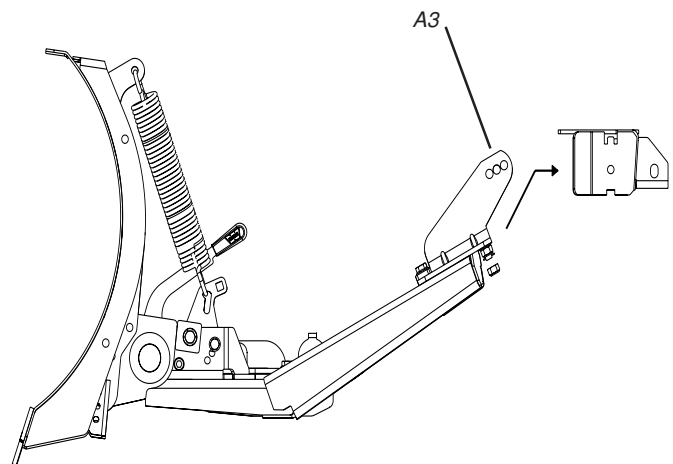
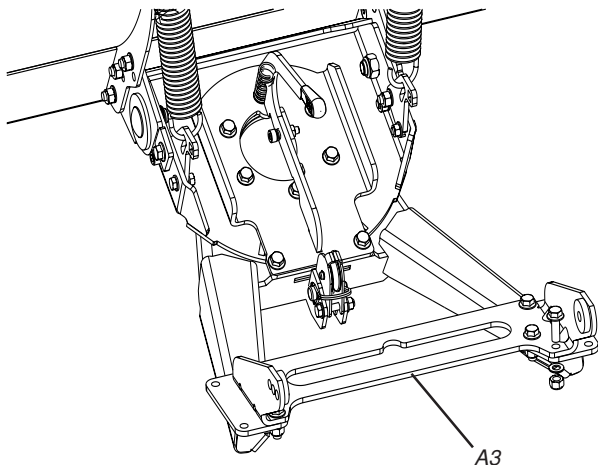


Figure 9

II. KIT INSTALLATION, CONTINUED

11. If installing the winch mounting plate with the Warn front plow mounting plate, place the front plow mounting plate into the frame as shown in figure 10 and 11. Tilt the front plow mounting plate forward and slip the winch mounting plate rear flange behind the plow mounting plate. Both mounting plates will then slip into place.
12. Follow steps 2 thru 9 to fasten the winch mounting plate and the front plow mounting plate into position using the appropriate hardware.
13. Use the winch manual and winch mounting kit instructions to help with proper wiring layout and routing of wires from the connector to the winch and vehicle battery. Make sure that the cables going to the winch motor and the battery are not running along any moving components or any part that may get too hot. Also make sure that the wiring is not routed over any sharp edges that may cut the wiring insulation. Use the cable ties that were supplied with the winch to secure any loose wiring.
14. Connect the vehicle and winch positive and negative battery cables to the battery; connect the positive lead first. Test winch operation make sure winch is functioning properly. Refer to Guide to Winching for proper operating procedures.
15. Installation is now complete. Read operator's manual and the guide to winching before using the winch.



Figure 10

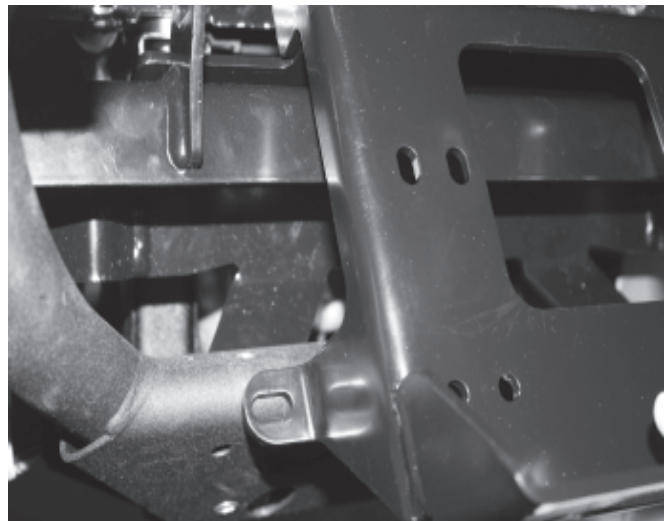


Figure 11

III. MAINTENANCE/CARE

- Inspect all metal parts on the winch, winch mount, and related hardware. Replace all that appears rusted or deformed prior to use.
- Inspect all nuts and bolts on the winch, winch mount, and related hardware prior to each use. Tighten all nuts and bolts that appear to be loose. Stripped, fractured, or bent bolts or nuts need to be replaced.



WARNING

Failure to perform regular inspections and maintenance on the winch, winch mount, and related hardware may result in vehicle damage and operator injury or death.