



# INSTALLATION INSTRUCTIONS ATV PLOW ACCESSORY

Plow Mounting Kit: Warn Part Number 64580

Application: 2002+ Polaris Magnum 500/325

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**

**SEVERE INJURY OR DEATH MAY RESULT IF YOU IGNORE ANY OF THE FOLLOWING:**

- Read the Plow Operator Manual, the Vehicle's Operator Manual, and all warning labels before operating or using your ATV plow.
- Always operate ATV at a walking speed with the blade installed. Do not exceed 5 mph (8 km/h) even with the blade up.
- Always plow cautiously, impact with a hidden or stationary object may cause the ATV to stop suddenly or go out of control.
- Never operate the ATV on slopes greater than 10° with the plow installed.
- Never stand or ride on the plow.
- Always stay clear of moving parts and joints. Keep others away when operating or adjusting plow.
- Always inspect the plow mechanism, fasteners, cable, and adjustments before operating. Replace all worn or damaged parts before operating.
- Always lower the plow to the down position before leaving the ATV unattended.

**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 BE SURE THAT THERE ARE NO BYSTANDERS WHEN YOU RAISE/LOWER THE PLOW. DO NOT RAISE THE TOP OF THE PLOW ABOVE THE HEADLIGHTS OF THE ATV AS IT IS NOT ONLY UNNECESSARY, BUT POTENTIALLY DAMAGING TO THE VEHICLE AND PLOW. IF YOU NOTICE DEFORMATION OF THE J-BOLT, OR THE J-BOLT IS BROKEN, REPLACE IT WITH THE SPARE J-BOLT INCLUDED IN THE KIT.**

**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. DRIVE AT SPEEDS SUCH THAT THE PLOW DOES NOT BOUNCE AND BE AWARE OF THE PLOW POSITION WHILE DRIVING AT ALL TIMES.**

**PERFORM REGULAR INSPECTIONS ON THE PLOW, PLOW MOUNT, AND RELATED HARDWARE. NEVER OPERATE THE PLOW WITH DAMAGED OR MISSING PARTS. FAILURE TO FOLLOW THIS WARNING MAY CAUSE VEHICLE DAMAGE AND OPERATOR INJURY OR DEATH.**

## I. PARTS LIST

<i>Ref</i>	<i>Part Number</i>	<i>Description</i>	<i>Qty</i>
A1	64585	Plow Mount	1
A2	64586	Clamp	2
A3	62845	J-Bolt Bracket	1
B1	31804	1/4" dia-1" long Bolt	3
B2	35391	1/4" J-Bolt	2
B3	1320	1/4" Flat Washer	5
B4	1321	1/4" Lock Washer	2
B5	6725	1/4" Nylock Nut	3
C1	21331	5/16" dia-1 long Bolt	3
C2	1324	5/16" Washer	3
C3	2002	5/16" Nylock Nut	3
D1	1827	3/8" dia-1" long Bolt	1
D2	11524	3/8" Washer	1
D3	6779	3/8" Nylock Nut	1

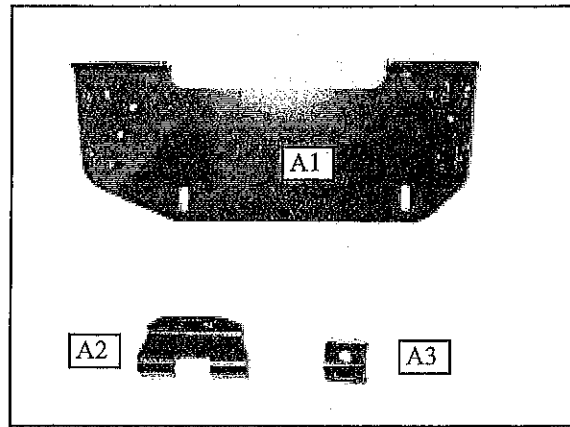


Figure 1 Kit Hardware

## II. TOOLS REQUIRED

- Ratchet
- 3/8 Socket
- 7/16" Socket
- 7/16" Box Wrench
- 1/2" Socket
- 1/2" Box Wrench
- 9/16" Socket
- 9/16" Box Wrench

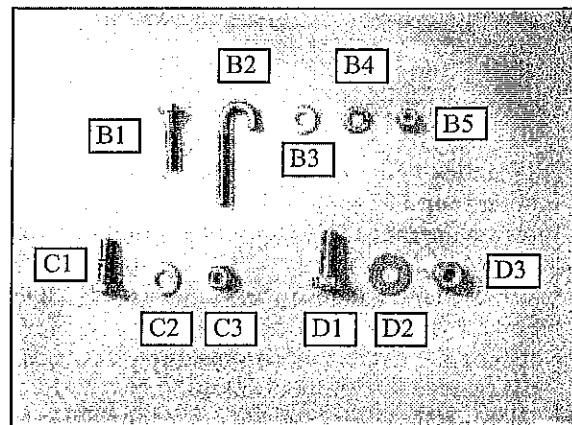


Figure 2 Kit Fasteners

## III. INSTALLATION

1. Remove the bolts and large washers on the skidpan just behind the front wheels of the ATV as shown in Figure 3.

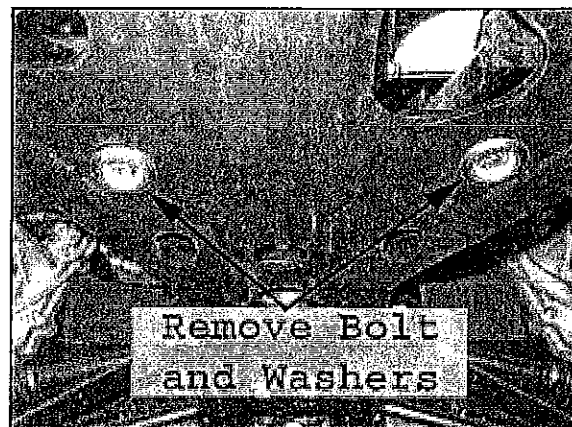


Figure 3 Remove Bolt and Washers

### III. INSTALLATION CONTINUED

2. Place the opening of the Plow Mount (A1) over the narrow section of the ATV frame. Slide the plow mount back until it stops as shown in Figure 4. Reposition the plow mount as needed such that the sides of the plow mount are aligned with the sides of the ATV.

3. Attach a Clamp (A2) to the right side of the vehicle using a 1/4" dia-1" long bolt (B1), 1/4" washer (B3), and 1/4" nylock nut (B5) for the outer hole and a 5/16" dia-1" long bolt (C1), 5/16" washer (C2), and 5/16" nylock nut (C3) for the inner hole as shown in Figure 5. Tighten nuts and bolts securely.

4. Attach a Clamp (A2) to the left side of the vehicle using 5/16" dia-1" long bolts (C1), 5/16" washers (C2), and 5/16" nylock nuts (C3) for both holes as shown in Figure 6. Tighten nuts and bolts securely.

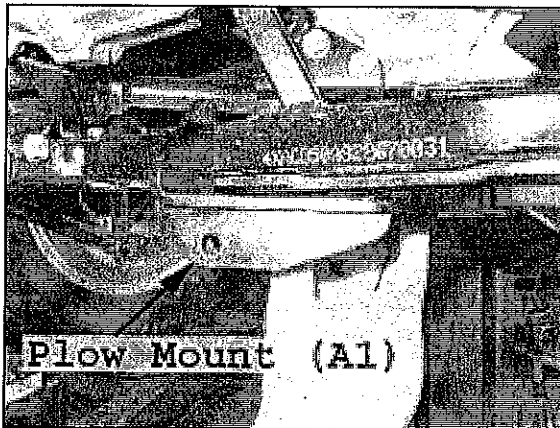


Figure 4 Plow Mount

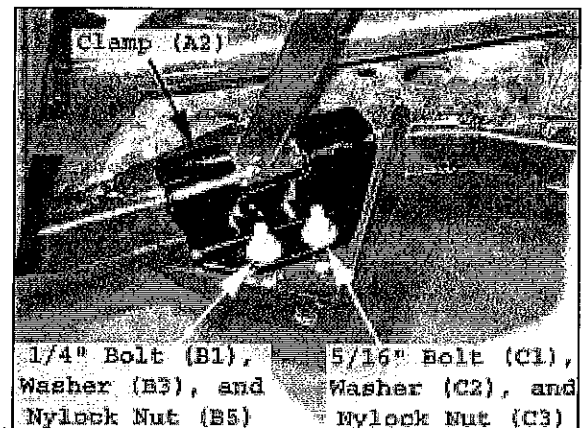


Figure 5 Attach Right Clamp

5. Attach the 1/4" dia-1" long bolt (B1), 1/4" flat washer (B3), and 1/4" lock washer (B4) through the rear of the Plow Mount (A1) as shown in Figure 7. The lock washer should be placed between the flat washer and the head of the bolt. Tighten until the plow mount is secure against the underside of the ATV.

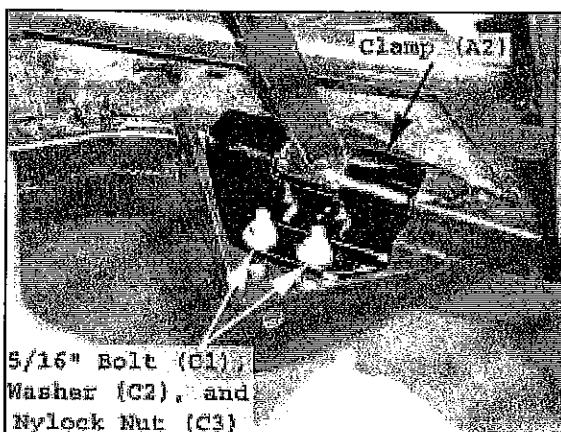


Figure 6 Attach Left Clamp

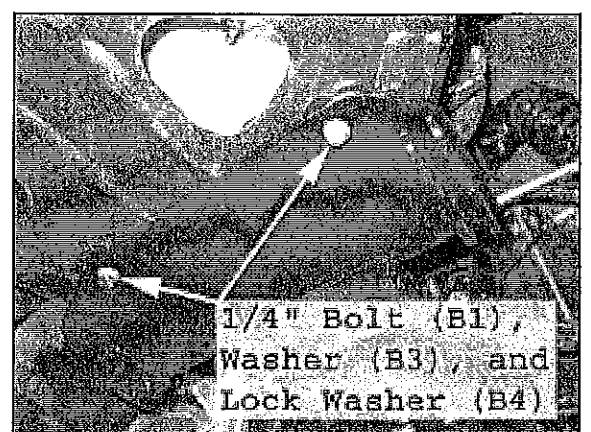


Figure 7 Add 1/4" Bolts and Washers

### III. INSTALLATION CONTINUED

6. If not already done so, assemble the plow per the instructions in the plow blade kit.

7. Attach the plow to the Plow Mount (A1) using the plow pins included in the plow blade kit. Be sure you place the wire clip over the ends of the pins. The attached plow should look like Figure 8.

8. Attach the J-Bolt Bracket (A3) to the plow crossmember using a 3/8" dia-1" long Bolt (D1), 3/8" washer (D2), and 3/8" Nylock Nut (D3) as shown in Figure 9. The bracket should be installed on the side of the crossmember that allows the winch cable to be near vertical. Attach the 3/8" bolt such that the head of the bolt is inside the J-bolt bracket. The washer should be placed between the nylock nut and plow crossmember.

9. Run the winch cable down over the roller fairlead and to the J-Bolt Bracket (A3). Slide the loop end of the winch cable over the hook of the J-bolt (B2). If a winch hook is attached to the loop end of the cable, position it out of the way or remove it.

10. Slide a J-Bolt (B2) down through the round hole in the J-Bolt Bracket (A3) and terminate with 1/4" washer (B3) and 1/4" nylock nut (B5) as shown in Figure 10. The end of the hook should be sitting in the slotted hole in the bracket.



Figure 8 Connect Plow to Plow Mount

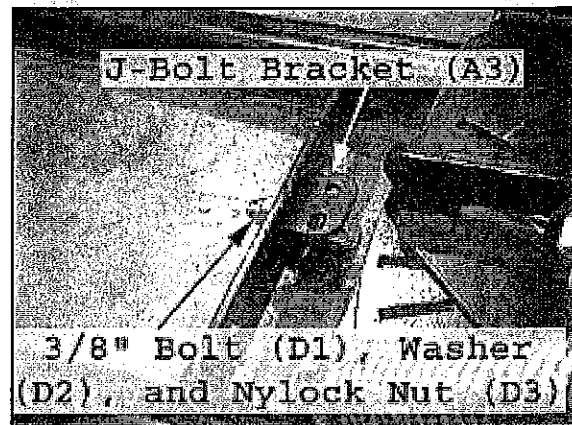


Figure 9 J-Bolt Bracket

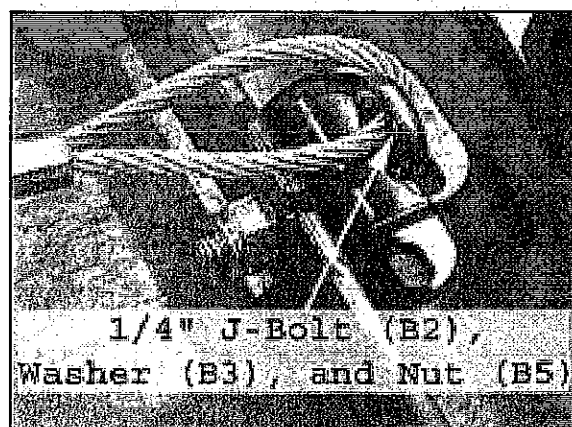


Figure 10 J-Bolt Completed

### III. INSTALLATION CONTINUED

*PLOW installation with a Winch is now complete. Proceed to the next section entitled "Maintenance/Care."*

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### IV. MAINTENANCE/CARE

1. Inspect all metal parts on the plow, plow mount, and related hardware. Replace all hardware that appears rusted or deformed prior to use.
2. Inspect all nuts and bolts on the plow, plow mount, and related hardware prior to each use. Tighten all nuts that appear to be loose. Stripped, fractured, or bent bolts or nuts need to be replaced prior to use.
3. Check all cables prior to use. Replace cables that look worn or frayed.
4. Check all moving or rotating parts. Remove debris that may inhibit the part from moving freely.

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## V. TROUBLESHOOTING

*PROBLEM #1:* Difficulty getting the plow pins through the Plow Mount (A1).

*SOLUTION #1:* Position the plow roughly in place, be sure the plow blade is perpendicular to the ATV. Align one of the plow flanges to a hole in the Plow Mount (A1) and slide a screwdriver (or similar) through the pin hole. Align the other side and work a pin through the plow mount and plow flange. Go back to the other side and remove the screwdriver. Align the holes again and work a plow pin through the plow mount and plow flange. Be sure the safety clips are over the end of the pins to prevent the pins from sliding out.