



INSTALLATION INSTRUCTIONS

ATV PLOW ACCESSORY

Plow Mounting Kit: Warn PN 65400

Application: 2002+ Suzuki Vinson 500

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.

DRILL THROUGH ONLY THE SKIDPLATE AND NOTHING ELSE. DRILLING THROUGH ANY COMPONENT ON THE ATV OTHER THAN THE SKIDPLATE CAN SEVERELY DAMAGE THE VEHICLE WHICH CAN ULTIMATELY LEAD TO OPERATOR INJURY OR DEATH.

FAILURE TO TIGHTEN ALL NUTS AND BOLTS SECURELY ON THE PLOW MOUNT CAN RESULT IN VEHICLE DAMAGE AND OPERATOR INJURY OR DEATH.

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.

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.

I. PARTS LIST

<i>Ref</i>	<i>Part Number</i>	<i>Description</i>	<i>Qty</i>
A1	63849	Plow Mount	1
A2	62845	J-Bolt Bracket	1
B1	25114	6mm dia-18mm long Bolt	2
C1	35391	1/4" dia J-Bolt	2
C2	1320	1/4" Flat Washer	4
C3	1321	1/4" Lock Washer	2
C4	6725	1/4" Nylock Nut	2
D1	60664	5/16" dia-1 1/8" wide U-bolt	2
D2	1324	5/16" Washer	4
D3	2002	5/16" Nylock Nut	4
E1	1827	3/8" dia-1" long Bolt	1
E2	2195	3/8" Washer	1
E3	6779	3/8" Nylock Nut	1

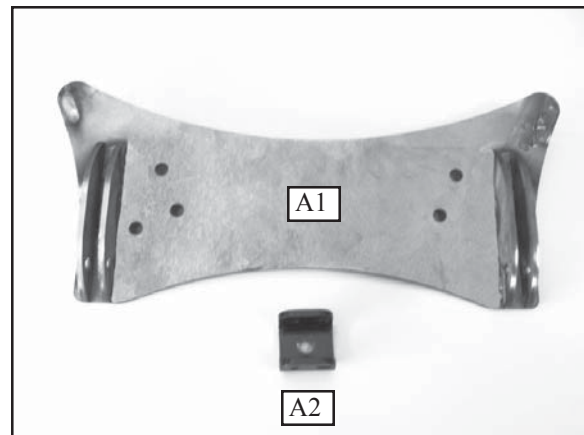


Figure 1 Kit Hardware

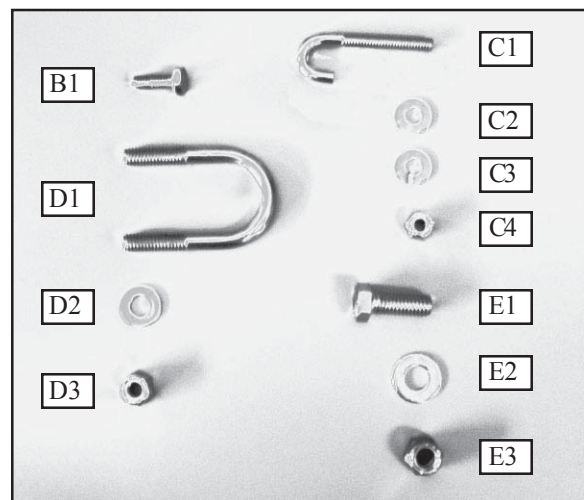


Figure 2 Kit Fasteners

II. TOOLS REQUIRED

- Ratchet
- 10mm Socket
- 7/16" Socket
- 1/2" Socket
- 9/16" Socket
- 9/16" Box Wrench
- Drill
- 3/8" Drill Bit

Note: A winch with a roller fairlead or Warn electric actuator is recommended for lifting this plow. See your local dealer for part numbers.

III. INSTALLATION

1. Remove the two bolts, located just behind the front wheels, that hold the skidplate to the chassis as shown in Figure 3.
2. Place the Plow Mount (A1) under the vehicle aligning the rear tabs to the holes of the bolts that were removed in Step 1.
3. Attach a 6mm dia-18mm long bolt (B1), 1/4" flat washer (C2), and 1/4" lock washer (C3) through the rear tabs in the Plow Mount (A1) and into the vehicle chassis as shown in Figure 4. **Do not tighten the fasteners just yet**, you will do this later in the installation.
4. With the Plow Mount (A1) flush against the skidplate, drill four holes in the plow mount and up through the skidplate as shown in Figure 5. Be sure to make note of which holes should be drilled per the model that you own. On the left-hand side, automatic models will mount to the rear and center hole, while foot-shift models will mount to the center and forward hole. Proceed slowly and only drill through the skidplate.

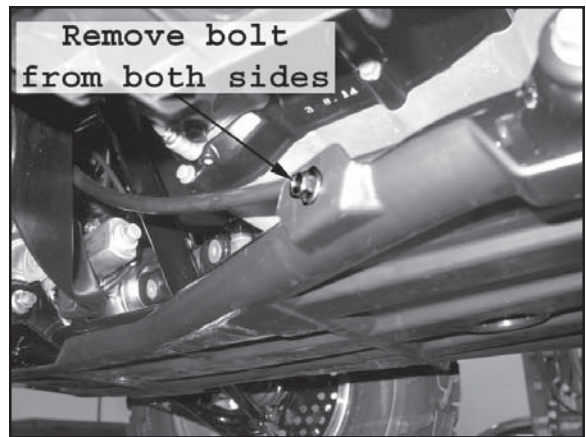


Figure 3 Remove Bolts in SkidPlate

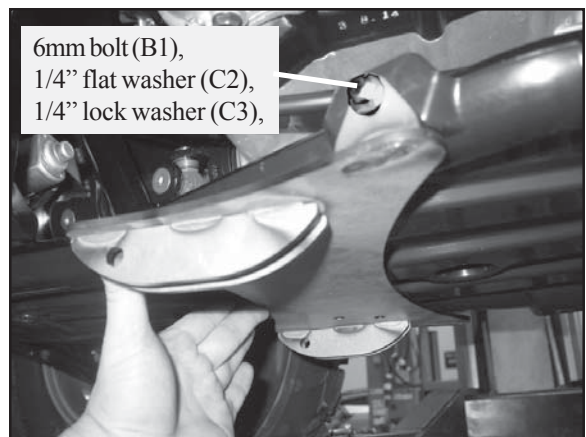


Figure 4 Attach Plow Mount

⚠ WARNING
DRILL THROUGH ONLY THE SKIDPLATE AND NOTHING ELSE. DRILLING THROUGH ANY COMPONENT ON THE ATV OTHER THAN THE SKIDPLATE CAN SEVERELY DAMAGE THE VEHICLE WHICH CAN ULTIMATELY LEAD TO OPERATOR INJURY OR DEATH.

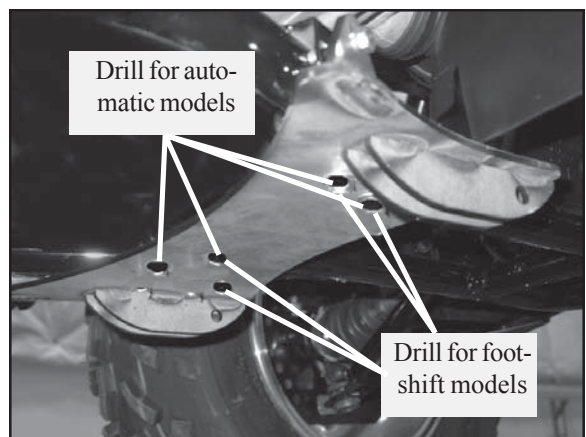


Figure 5 Drill through SkidPlate

III. INSTALLATION CONTINUED

5. Slide the 5/16" dia-1 1/8 wide U-Bolts (D1) over the tubes of the chassis and through the drilled holes in the skidplate and existing holes in the Plow Mount (A1).

Note: Due to variances in ATV manufacturing, one or both U-bolts may not be exactly perpendicular the the skidplate. This is normal. Additional material in the skidplate may be removed for easier installation.

⚠ WARNING

FAILURE TO TIGHTEN ALL NUTS AND BOLTS SECURELY ON THE PLOW MOUNT CAN RESULT IN VEHICLE DAMAGE AND OPERATOR INJURY OR DEATH.

6. Attach a 5/16" Washer (D2) and 5/16" Nylock Nut (D3) to the ends of both U-bolts as shown in Figure 6. Tighten the 5/16" nylock nuts and the 6mm bolts on the Plow Mount (A1). Double check all fasteners on the entire plow mount to be sure that they are all securely tightened.

7. Attach the plow to the Plow Mount using the plow pins that came with the plow blade.

8. Attach the J-Bolt Bracket (A2) to the plow crossmember using a 3/8" dia-1" long Bolt (E1), 3/8" washer (E2), and 3/8" Nylock Nut (E3) as shown in Figure 7. The bracket should be installed on the plow blade side of the crossmember. Attach the 3/8" bolt such that the head of the bolt is inside the bracket and the threaded end points toward the ATV. Attach the washer between the nylock nut and plow crossmember.

9. Slide a J-Bolt (C1) down through the round hole in the J-Bolt Bracket (A2). The end of the hook should be sitting in the slotted hole in the bracket.

10. Run the winch cable down over the roller fairlead and to the J-Bolt (C1). Slide the loop end of the winch cable over the hook of the J-bolt. If a winch hook is attached to the loop end of the cable, position it out of the way or remove it.



Figure 6 Completed Plow Mount

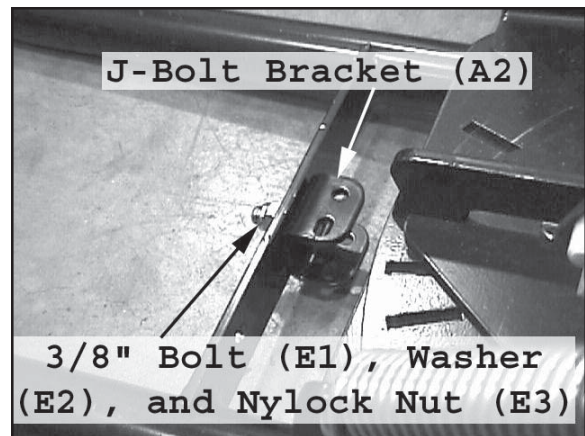


Figure 7 Attach J-Bolt Bracket

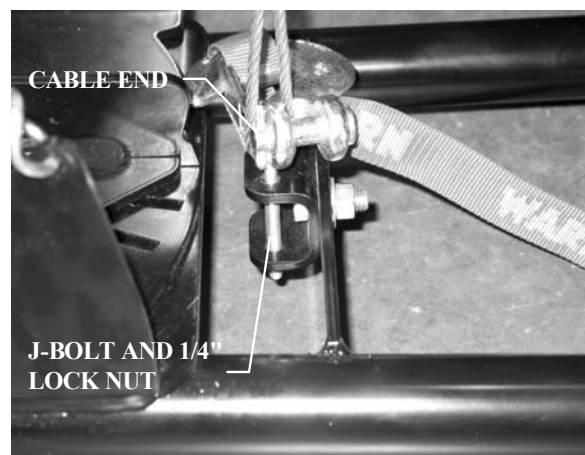


Figure 8 Completed J-Bolt Bracket

Note: Do not remove winch hook installed on the end of the winch cable, simply slide it out of the way.

11. Attach a 1/4" Flat Washer (C2) and 1/4" Nylock Nut (C4) to the end of the J-Bolt (C1). Tighten the nut until the winch cable loop is snug within the J-bolt hook. The completed assembly should look like Figure 8.

Plow mount installation is now complete. Proceed to the next section entitled "Maintenance/Care".

⚠ CAUTION
DO NOT OVERTIGHTEN THE J-BOLT. DOING SO WILL PINCH THE END OF THE WINCH CABLE LOOP SUCH THAT IT WILL WEAR OUT PREMATURELY.

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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.

⚠ WARNING
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.

V. TROUBLESHOOTING

PROBLEM #1: Difficulty getting the U-Bolts (D1) through both the skidplate and Plow Mount (A1).

SOLUTION #1: Remove the Plow Mount (A1) and enlarge the holes in the skidplate by using a larger drill bit or similar means. Reinstall the plow mount with the U-bolts first and install the 5/16" Washer (D2) and Nylock Nut (D3) to the ends of the U-Bolts, but only thread the first few turns. Now align the rear tabs and install the 6mm Bolt (B1), 1/4" Flat Washer (C2), and 1/4" Lock Washer (C3). Tighten all nuts and bolts securely.

