



# INSTALLATION INSTRUCTIONS

## ATV PLOW ACCESSORY

**Plow Mounting Kit: Warn Part Number 64670**

**Application: 2003+ Yamaha Kodiak 450/400**

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's Manual, the Winch Operator's Manual, and all warning labels before operating.**
- **Operate ATV at a walking speed with the blade installed. Do Not exceed 5mph (8 km/h) even with the blade up.**
- **Plow Cautiously, impact with a hidden or stationary object may cause the ATV to stop suddenly or go out of control.**
- **Do Not operate the ATV on slopes greater than 10° with the plow installed.**
- **Do Not stand or ride on the plow.**
- **Stay clear of moving parts and joints. Keep others away when operating or adjusting plow.**
- **Inspect the plow mechanism, fasteners, cable, and adjustments before operating. Replace all worn or damaged parts before operating.**
- **Lower the plow to the down position before leaving the ATV unattended.**

## I. PARTS LIST

<i>Ref</i>	<i>Part Number</i>	<i>Description</i>	<i>Qty</i>
A1	64224	Plow Mount	1
A2	64227	Tab	1
A3	62845	J-Bolt Bracket	1
B1	31804	1/4" dia-1" long Bolt	2
B2	35391	1/4" J-bolt	2
B3	1320	1/4" Washer	2
B4	6725	1/4" Nylock Nut	4
C1	60869	5/16" dia-1 3/8" wide U-bolt	4
C2	1324	5/16" Washer	8
C3	2002	5/16" Nylock Nut	8
D1	1827	3/8" dia-1" long Bolt	1
D2	6779	3/8" Nylock Nut	1

## II. TOOLS REQUIRED

- Ratchet
- 7/16" Socket
- 7/16" Box Wrench
- 1/2" Socket or Box Wrench
- 9/16" Socket
- 9/16" Box Wrench
- Drill
- 3/8" Drill Bit
- Diagonal Cutter or Similar
- Permanent Marker or Similar


### III. INSTALLATION

1. Attach the Tab to the Plow Mount with two 1/4" dia-1" long bolts, 1/4" washers, and 1/4" nylock nuts as shown in Figure 1. Align the tab edges to the plow edges before tightening. The heads of the bolt should be on the tab side while the washers and nuts on the underside of the plow mount.

2. Place the Plow Mount underneath the vehicle with the chamfered edges facing the front of the ATV. Place the Tab inside the rectangular opening of the skidplate. Jiggle the plow mount to be sure the tab is in the opening, there should be minimal movement. Be sure the plow mount is aligned properly and not rotated to one side.

3. Using a permanent marker (or similar), mark inside each of the eight open holes on the Plow Mount and onto the skidplate as shown in Figure 2. Remove the plow mount from the vehicle when finished. Do not remove the Tab.

4. With a drill and 3/8" bit, drill through the skidplate at each marked location with the exception of the two outside ones. Proceed slowly and drill only through the skidplate. Pay attention not to drill or damage any other component on the vehicle.

 <b>WARNING</b>
DRILLTHROUGH ONLY THE SKIDPLATE AND NOTHING ELSE. DRILLINGTHROUGH ANY COMPONENT ON THE ATV OTHER THAN THE SKIDPLATE CAN SEVERELY DAMAGE THE VEHICLE WHICH CAN LEAD TO OPERATOR INJURY OR DEATH.

5. With diagonal shears (or similar) cut the sides of the skidplate removing the two outside marked locations.

6. Slide 5/6" dia-1 3/8" wide U-bolts over the vehicle frame and through each set of holes for a total of four. Due to vehicle design, the two center U-bolts can only be accessed on one side of the vehicle.

7. Place the Plow Mount back underneath the vehicle. Slide the ends of the U-bolts through the open holes on the mount. The Tab should fit back inside the rectangular opening in the skidplate.

8. Attach 5/16" washers and 5/16" nylock nuts to the end of each U-bolt. Tighten securely. The complete plow mount should look like Figure 3.

9. Attach the plow to the Plow Mount using the clip pins found in the plow blade kit.

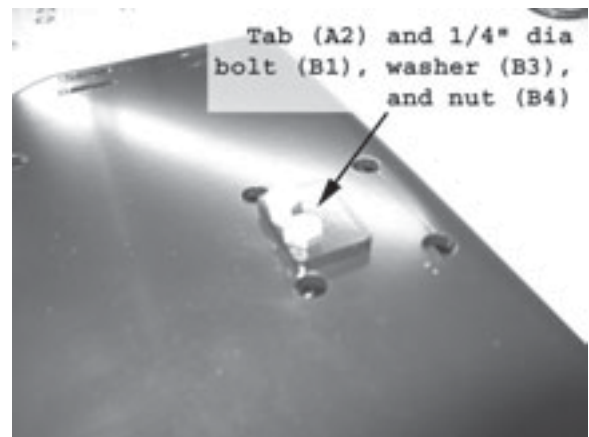


Figure1 Attach Tab to Plow Mount

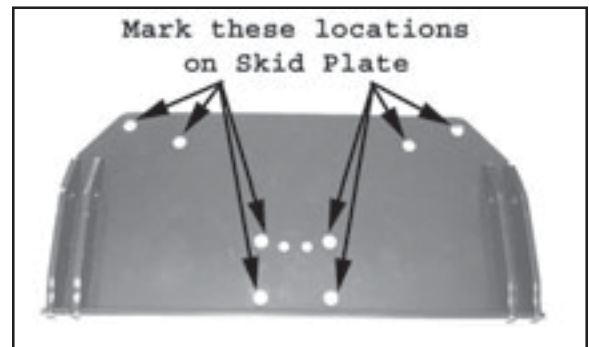


Figure 2 Mark Holes

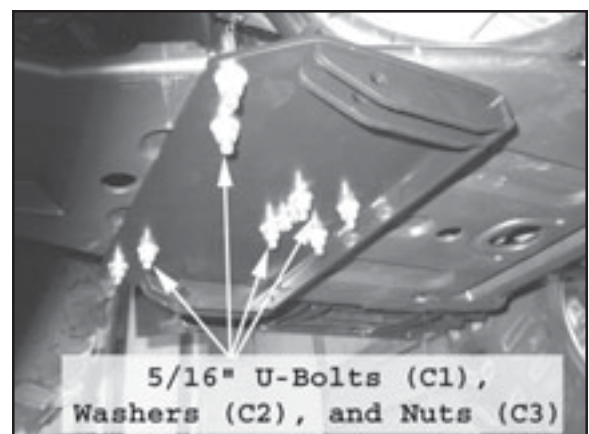


Figure3 Attach Plow Mount to Vehicle

10. The following steps describe the method for raising the plow with a winch. If you are using an electric actuator or manual lift, please following the instructions included in those kits..

11. Attach the J-Bolt Bracket to the plow crossmember using a 3/8" dia-1" long Bolt, and 3/8" Nylock Nut as shown in Figure 4. 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.

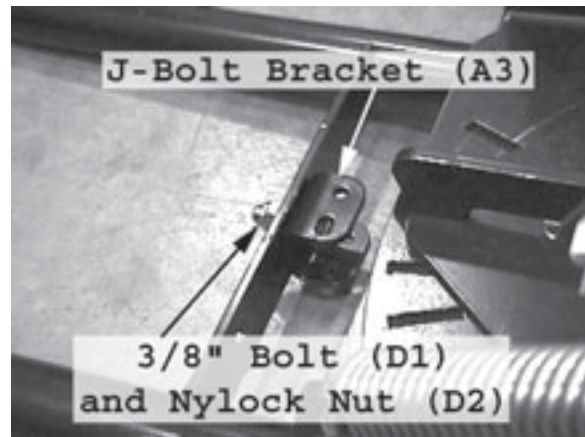


Figure4 Attach J-bolt Bracket



### WARNING

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 THERE ARE NO BYSTANDERS WHEN YOU RAISE AND LOWER THE PLOW. DO NOT RAISE THE TOP OF THE PLOW ABOVE THE HEADLIGHTS OF THE ATVS 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.

12. Run the winch cable down over the roller fairlead and to the J-Bolt Bracket. 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.

13. Slide a J-Bolt down through the round hole in the J-Bolt Bracket and terminate with 1/4" washer and 1/4" nylock nut as shown in Figure 5. The end of the hook should be sitting in the slotted hole in the bracket.

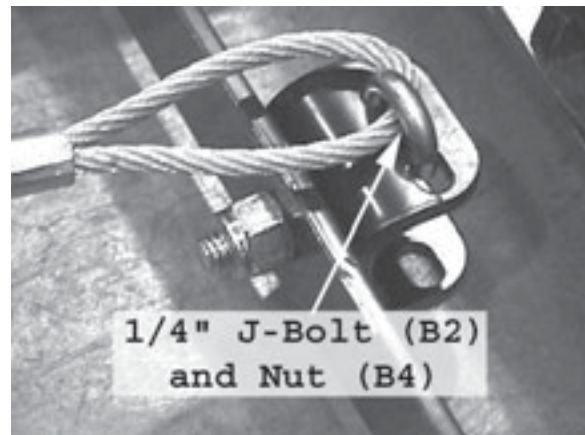


Figure 5 Completed J-Bolt and Plow



## WARNING

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.



## WARNING

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.

**Plow installation with a Winch is now complete. Proceed to the next section entitled “Maintenance/Care.”**

## 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 (C1) through both the skidplate and Plow Mount (A1).

*SOLUTION #1:* Try getting just one U-bolt (C1) through both the skidplate and Plow Mount (A1). Use the nylock nuts (C2) and finger tighten them onto the ends of the U-bolt. Do the same for each of the remaining three U-bolts. Be sure you have washers (C3) on before tightening the nuts.

*PROBLEM #2:* Difficulty getting the plow pins through the Plow Mount (A1).

*SOLUTION #2:* 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.