



# INSTALLATION INSTRUCTIONS

## ATV SNOW PLOW

Mounting Kit: PN 37852

Application: HONDA MODELS: 450S AND 450ES

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.**

- Always read the Plow Operator's Manual, the Winch Operator's 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 5mph (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.

### **TOOLS REQUIRED:**

Ratchet

Sockets: 7/16, 1/2, 9/16"

Wrenches: 7/16, 1/2, 9/16"

Phillips Screwdriver (optional)

Drill (for 450ES only)

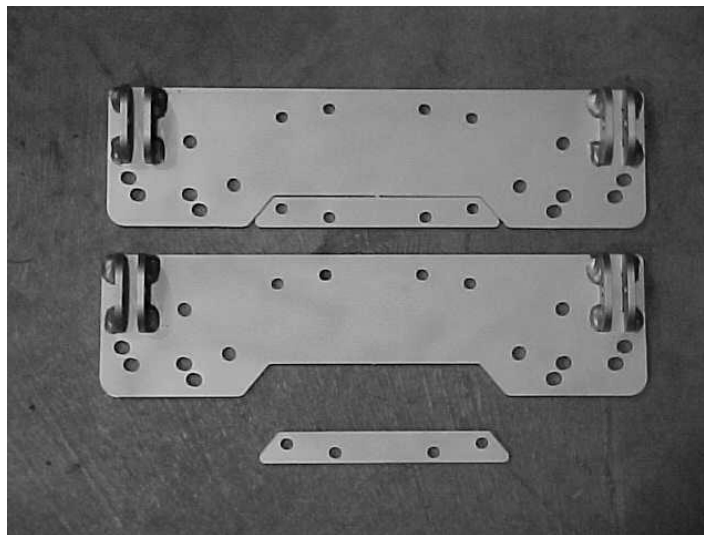
3/8" Drill Bit (for 450ES only)

## **PARTS LIST:**

	<b><u>PART NO.</u></b>	<b><u>QUANTITY</u></b>	<b><u>DESCRIPTION</u></b>
Mounting kit parts:	1827	1	3/8-16 x 1" Hex Bolt
	2002	4	5/16" Nylock Nut
	6725	2	1/4" Nylock Nut
	6779	1	3/8" Nylock Nut
	35391	2	J-Bolt
	39550	2	5/16" U-Bolt (5/16 x 1 3/8 x 2 3/16)
	39522	1	Frame Mounting Bracket
	62845	1	J-Bolt Mount

### **1. Frame Mounting Bracket Installation:**

Before installing the Frame Mounting Bracket, remove the "break-off" portion as shown in Figure #1. This piece is only use on the Honda model 300 as a spacer, it is not use on this Honda 450 application, so discard it.



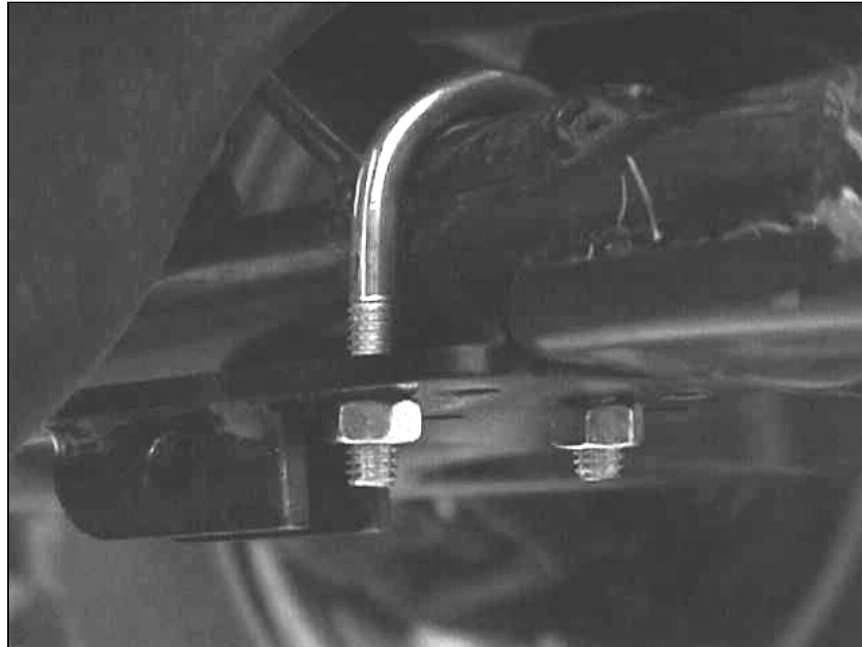
**FIGURE #1: REMOVING THE "BREAK-OFF" PIECE**

#### **CAUTION**

REMOVE THE "BREAK-OFF" PORTION FROM THE MOUTING BRACKET. IF THIS IS NOT DONE, DAMAGE TO BIKE CAN OCCUR IF THIS PIECE BECOMES TWISTED AND THEN GETS SNAGS OR CAUGHT ON SOMETHING ON THE GROUND AS THE BIKE IS TRAVELING.

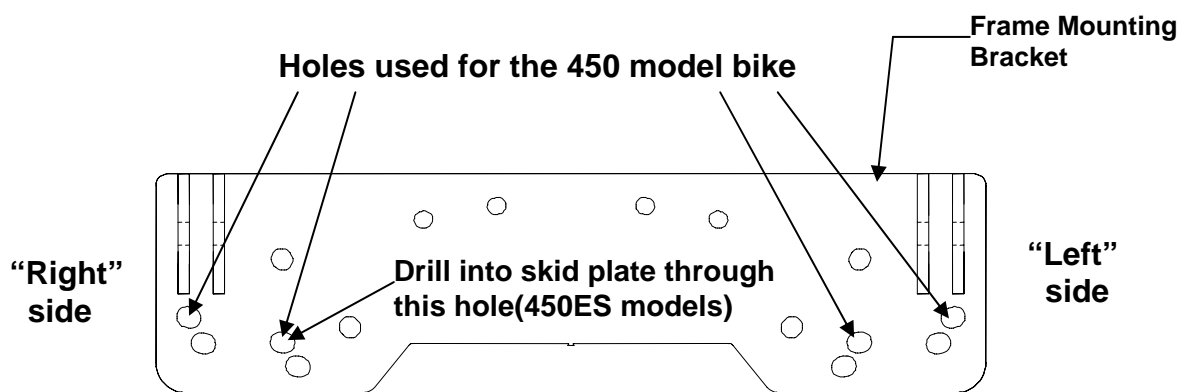
Under the frame, raise the Frame Mounting Bracket into position. Push the one 5/16" U-bolt down and over the "left", outside frame tube and into the frame bracket, as shown in Figure #2 and using the holes as

indicated in Figure #3. Notice that not all the holes will be used in the attachment of the Frame Mounting Bracket to the frame. This is because this bracket is use on other bikes that use the other holes. Use only the holes as shown in Figure #3. The “tabs” should be oriented toward the front of the bike.



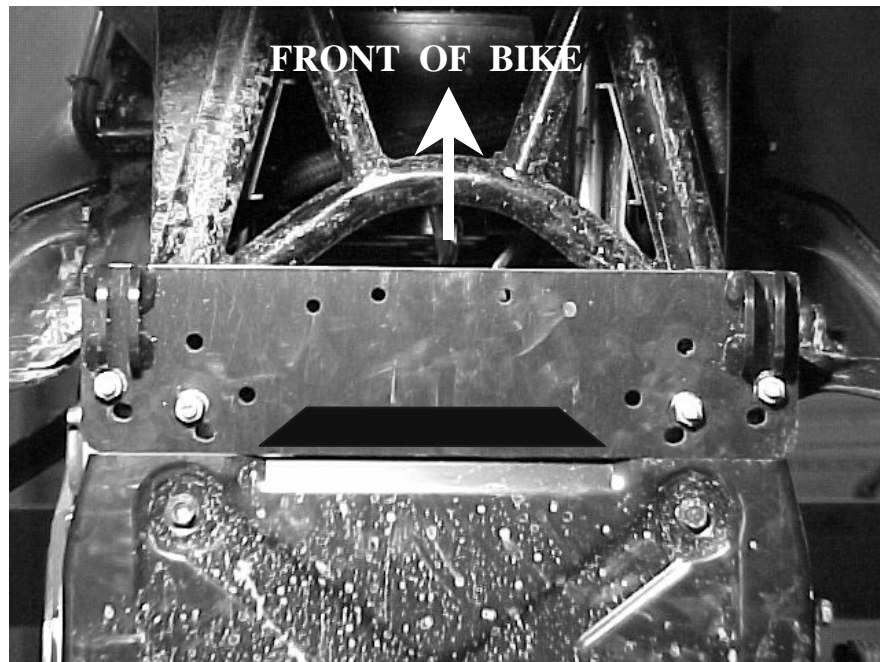
**FIGURE #2: INSTALLING U-BOLTS ONTO FRAME**

Install the 5/16” Nylock nuts onto the U-bolt. **For the 450S model**, lift up the “right” side of the bracket and install the remaining 5/16” U-bolt and it’s respective 5/16” Nylock nuts, and tighten all the 5/16” nuts to approximately to 15ft-lb (20N-m). **For the 450ES model**, lift up the “right”side of the bracket and either mark the hole(as indicated in Figure #3) and drill through the skid plate, or drill through the hole(as indicated in Figure #3), through the skid plate using the Frame Mounting Bracket as a template. This is done on the 450ES models inorder to install the remaining “right” U-bolt.



**FIGURE #3: FRAME MOUNTING HOLE LOCATIONS**

The bracket should fit to the frame as shown in Figure #4.



**FIGURE #4: FRAME MOUNT INSTALLATION**

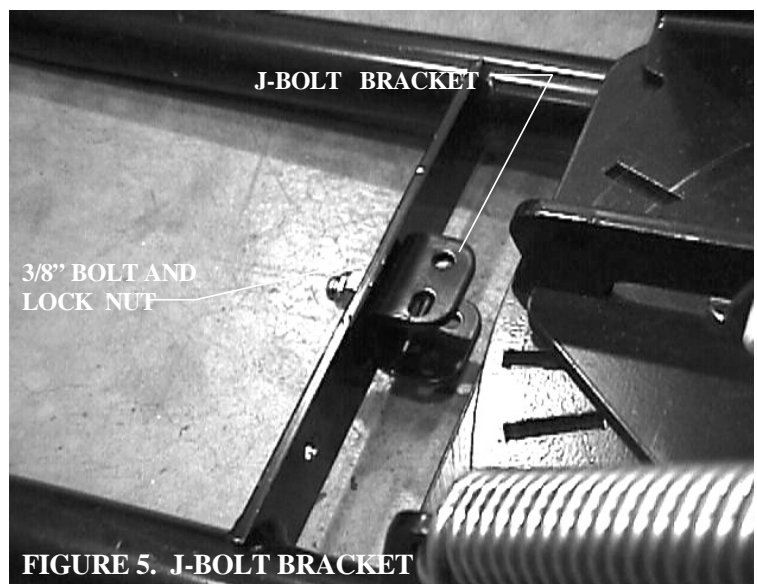
## **2. Plow Installation:**

Slide the plow into position with the tubes under the ATV. Lift the end of the tube assembly into position so the holes in the Tube Wings line up with the 3/8" holes in the frame bracket. A Phillips head screwdriver may be used to align the holes. Insert both 3/8" pins and hook the retaining clips on the ends of the pins to secure the plow to the ATV. If it is determined that the Plow is not straight with respect with the ATV, then the nuts on the Frame Mounting Bracket should be loosened and the plow adjustments made to make it straight. Then retighten and torque the nuts on the Frame Mounting Bracket to approximately 15ft.-lb (20 N-m).

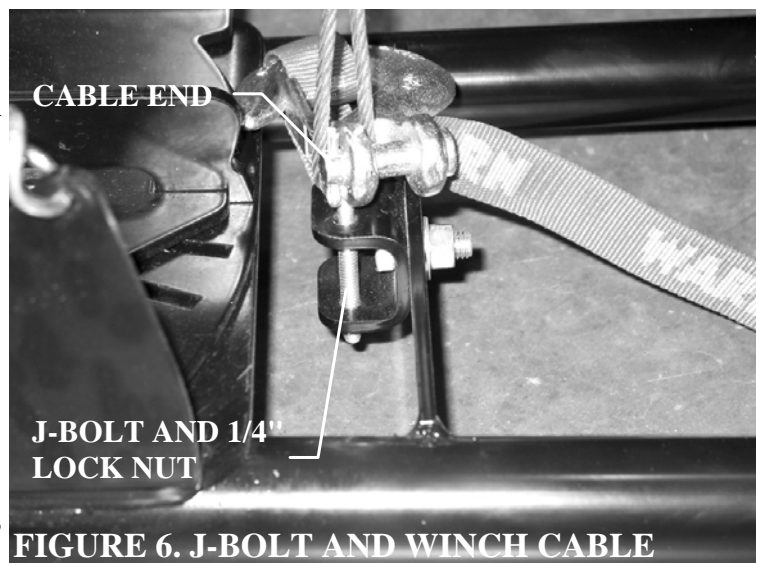
### **CAUTION**

**When using a winch with this plow, read your winch operator manual before proceeding with this installation. ALWAYS USE EXTREME CAUTION WHILE WORKING WITH OR AROUND A WINCH AS SEVERE INJURY OR DEATH MAY OCCUR. A roller fairlead must be used for lifting and lowering the plow. Cable damage will occur if a roller fairlead is not used.**

Attach the J-bolt bracket to the center hole in the plow cross member using a 3/8" dia x 1" long bolt as shown in figure 5. The bracket should be mounted on the blade side of the crossmember with the side flanges parallel to the ground. Terminate the with a 3/8" dia nylock nut. Tighten the bolt and nut to recommended torque of 20 ft-lb (28 N-m).



Run the winch cable over the roller fairlead and down to the J-bolt bracket. Using a 1/4" dia J-bolt, hook the loop on the end of the winch cable and slide the threaded end of the J-bolt into the slotted hole in the J-bracket. Terminate the end of the J-bolt with a 1/4" dia nylock nut. Tighten the nut until the winch cable is snug inside the J-bolt as shown in figure 6.



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

### ⚠ CAUTION

The purpose of the J-bolt is to break the connection between the plow and ATV when the plow is subjected to high forces that could damage the plow or vehicle. The plow will drop instantly if the J-bolt breaks, so be sure there are no bystanders when operating the plow.

Instances when the J-bolt might break are:

- . If the plow is raised too high and stalls.
- . If the operator is trying to lift too much material with the plow blade.

In general, do not raise the top of the plow blade above the headlights of the vehicle. If the plow stalls, stop the winch immediately and lower the plow. After pushing material with the plow, backup the ATV prior to raising it. If the J-bolt breaks, replace it with the spare hardware found in this kit. Read the Plow Operators Guide for more information.

THE INSTALLATION SHOULD NOW BE COMPLETE.  
READ THE OPERATOR'S MANUAL PRIOR TO USE OF THIS PRODUCT.