



INSTALLATION INSTRUCTIONS

PLOW MOUNT KIT

Part Number: 73996

Application: 2007+ Yamaha Grizzly 700

GENERAL SAFETY PRECAUTIONS

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

IMPACT AND MOVING PARTS ENTANGLEMENT 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:
 - o Across any sharp edges.
 - o Through or near moving parts.
 - o 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.

Read installation and operating instructions thoroughly.

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Dealer Locator Service: 1-800-910-1122 International Fax: 1-503-722-3005

⚠ 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 and Operations Guide 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.
- **Always** put the end of the actuator cable through the slot in the Termination Bracket. Terminating the cable through any other hole in the bracket will cause the bracket to not function properly and will drastically reduce the life of the actuator cable.
- **Never** overtighten u-bolt nuts. Overtightening may cause damage to vehicle frame.

Read installation and operating instructions thoroughly.

TOOLS REQUIRED

- Hand Drill with 5/16" Drill Bit
- Vice Grips (or similar)
- Ratchet
- Sockets: 7/16", 1/2" and 14mm
- Wrenches: 7/16" and 1/2"
- 3/8 Drive Universal Joint
- 6 in. Extension 3/8 Drive

TORQUE SPECIFICATIONS

Please use the recommended torque specifications when assembling this product unless otherwise specified in the instructions.

NOTICE: *Torque does not apply to u-bolt nuts.*

FASTENER SIZE	FASTENER TORQUE		FASTENER SIZE	FASTENER TORQUE	
	lb-ft	(N.m)		lb-ft	(N.m)
1/4"	8	(11)	M4	(2)	3
5/16"	17	(23)	M5	(4.5)	6
3/8"	30	(40)	M6	(7.5)	10
7/16"	48	(66)	M8	(18)	25
1/2"	74	(100)	M10	(37)	50
9/16"	106	(144)			
5/8"	148	(200)			
3/4"	269	(364)			

PARTS LIST

Part Number	Qty	Description
1324	4	Flat Washer, 5/16"
7482	4	Lock Washer, 10mm
1827	1	Bolt, 3/8" dia – 1" long
2002	4	Nut Nylock, 5/16"
6725	6	Nut Nylock, 1/4"
6779	1	Nut Nylock, 3/8"
13253	4	Bolt, 1/4" dia - 1 1/4" long
31806	4	Spacer, 1/2" long
35391	2	J-Bolt, 1/4" dia
74317	4	Bolt, 10mm dia – 25mm long
61262	2	U-Bolt, 5/16" dia – 1 1/2" wide
73652	1	Mount Bracket Right
73653	1	Mount Bracket Left
73654	1	Mount Crossmember
62845	1	J-Bolt Bracket

Plow Mount Assembly:

1. Remove the forward two bolts under the bike on both sides that attach the foot rest to the bike chassis. Take the mounting brackets (73652 & 73653) in the kit and place them over the holes. Attach the mounting brackets to the bike using four 10mm dia – 25mm long bolts, and 10mm lock washers as shown in figure 1. The lock washer should be placed between the head of the bolt and the flat washer. Do not tighten the bolts all the way, you will do this later in the installation. Installed properly, the brackets will bend inward.
2. Place the crossmember (73654) between the two brackets. Insert the plow mounting pins, this will help align the mount. The top holes on the crossmember should be toward the front of the bike. Using four 1/4" bolts and nuts, attach the crossmember the brackets. Each bolt will go through a 1/2" spacer positioned between the crossmember and the brackets as shown in figure 2. Tighten all bolts down snugly.

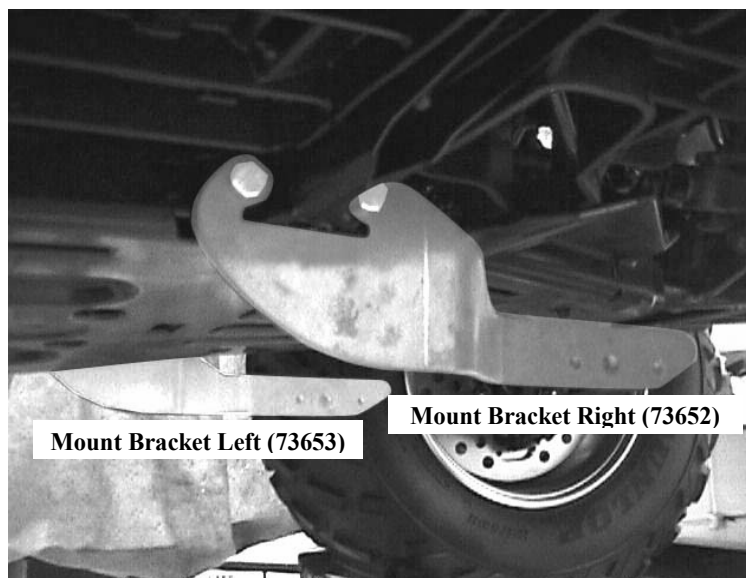


Figure 1

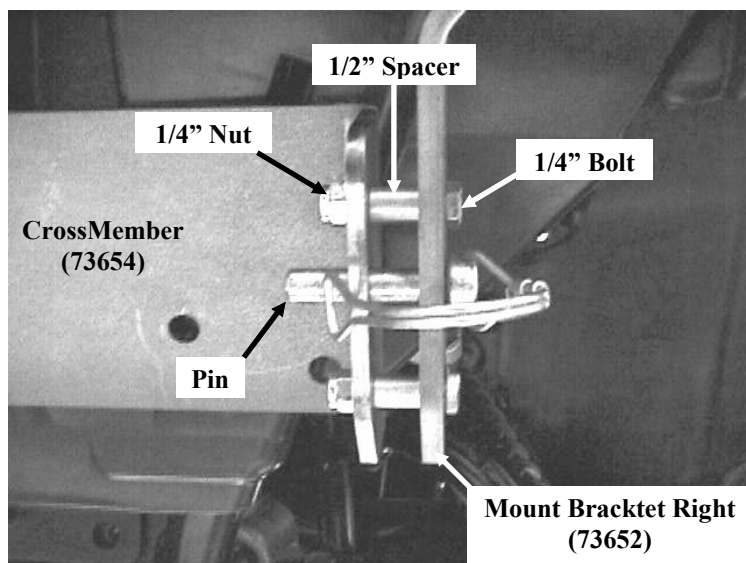


Figure 2

INSTALLATION INSTRUCTIONS

- Using the existing crossmember holes as locators, drill through all four crossmember holes with a 5/16" drill bit as shown in figure 3. Drill only through the skidplate and nothing else on the bike. The plow mounting pins can now be removed and stored.

CAUTION Use extreme caution when drilling through the skidplate. Every effort has been made to ensure that the hole positions on the crossmember will not allow the drill bit to contact anything else on the vehicle, but variations in manufacturing and installation may change that. Keep hands and limbs away from drilling path and rotating bit. Only drill through the skidplate and nothing else on the vehicle, not doing so may cause serious damage / injure the vehicle and installer.

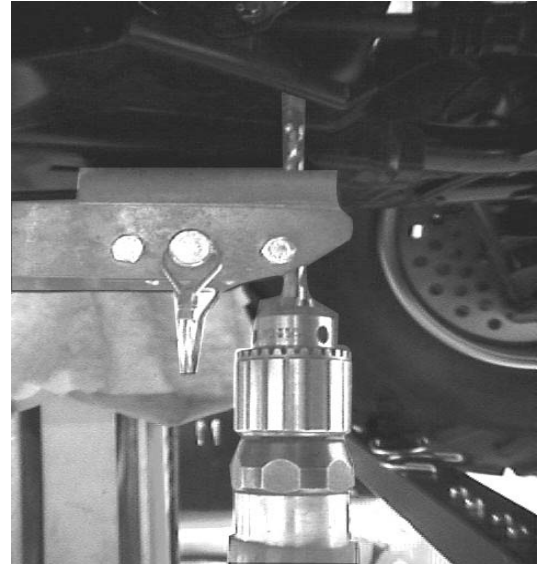


Figure 3

- Place the two 1-1/2" width U-bolts over the chassis tubing, through the skidplate, and through the crossmember as shown in figure 4. Drill more material off the skidplate if necessary. Now attach the four 5/16" nuts and flat washers to the U-bolts and tighten snugly but not overtighten.

NOTICE NEVER overtighten u-bolt nuts. Overtightening may cause damage to vehicle frame.

- Tighten all four bolts on the mounting brackets installed in step 1 and as shown in figure 1.

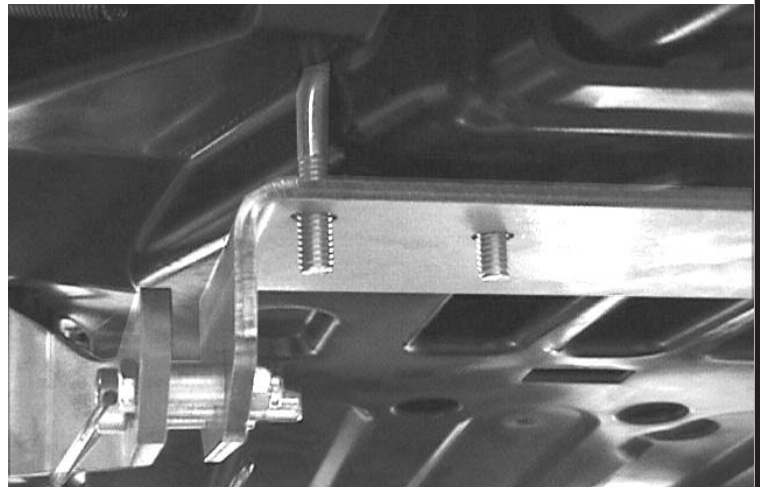


Figure 4

- The plow mount assembly should look like the one in figure 5. Double check to make sure all the bolts are fastened tightly. Once you have done that, your installation of the plow mount is completed. Attach your plow to the mount using the plow mounting pins.



Figure 5

INSTALLATION INSTRUCTIONS

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 brackets (Figure 2). 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.

CAUTION When using a winch with this plow, read your winch operator manual before proceeding with this installation. 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 6. The bracket should be mounted on the ATV 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 7.

Note: It is not necessary to remove 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.

Be sure to read the operator manual prior to use of this product.

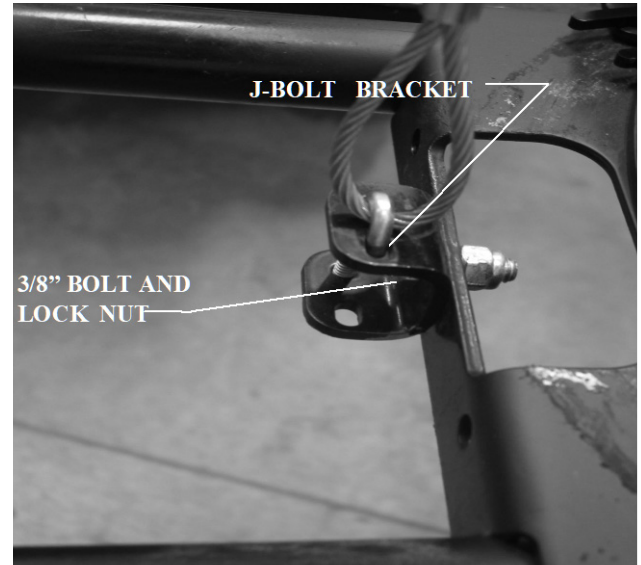


Figure 6

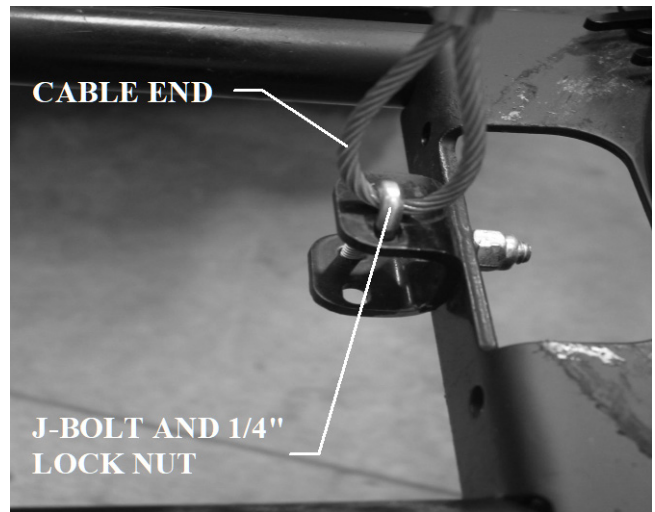


Figure 7

MAINTENANCE / CARE

- Inspect all metal parts on the plow, plow mount, and related hardware prior to each use. Replace all parts that appear rusted or deformed.
- Inspect all nuts and bolts on the plow, plow 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 must be replaced.
- Check all cables prior to use. Replace cables that are worn or frayed.
- Check all moving and rotating parts. Remove debris that may inhibit the part from moving freely.
- See Warn Plow Operators Guide for more information.