



INSTALLATION INSTRUCTIONS WINCH MOUNTING KIT

Part Number: 76192

Application: 2005-2007 Yamaha Grizzly 400/450 (USA Only)
2005-2007 Yamaha Kodiak 400/450
2005-2007 Yamaha Kodiak 350

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

INJURY HAZARD

Failure to observe these instructions could lead to severe injury or death.

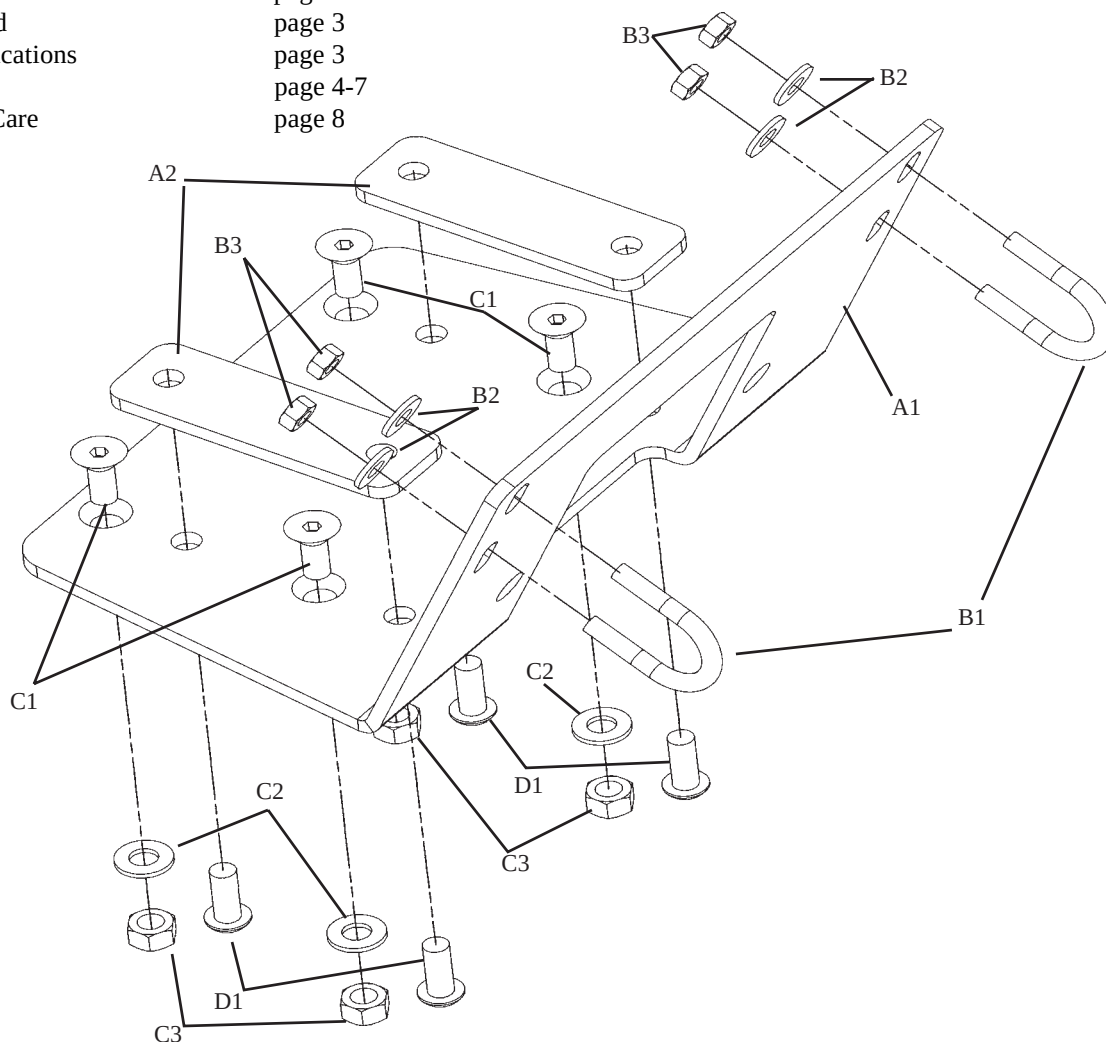
- ❑ **Always** use extreme caution when drilling on any vehicle. Make sure that all fuel lines, brake lines, electrical wires, and other objects are not punctured or damaged when / if drilling on the vehicle. Thoroughly inspect the area to be drilled (on both sides of material) prior to drilling, and 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:**
 - Across any sharp edges.
 - Through or near moving parts.
 - 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 and operation.
- ❑ **Always** perform regular inspections and maintenance on the winch, winch mount and related hardware.
- ❑ **Never** operate this **WARN** product with damaged or missing parts.

⚠ 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.
Read installation and operating instructions thoroughly.	

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II. PARTS LIST

<u>Part Number</u>	<u>Qty</u>	<u>Description</u>
A1	1	Mounting Plate
A2	2	Spacer
B1	2	M6 - 1.0 x 24mm x 37mm x 20mm u-bolt
B2	4	1/4" flat washer
B3	4	M6 - 1.0 lock nut
C1	4	M8 x 1.25 x 20mm Flat hex head bolt
C2	4	5/16 Flat washer
C3	4	M8 - 1.25 Lock nut
D1	4	M8 - 1.25 x 20 mm Button head bolt
D1	2	M8-1.25 x 25 mm Button head bolt
E1	2	M10 - 1.5 x 20mm Hex head bolt (hardware found in winch kit)
E2	2	M10 Lock washer (hardware found in winch kit)
E3	2	M10-1.5 Hex nut (hardware found in winch kit)

III. TOOLS REQUIRED

- 10 mm socket
- 12 mm socket
- 13 mm socket
- 14 mm socket
- 5 mm Allen wrench
- 14 mm wrench
- socket wrench

IV. TORQUE SPECIFICATIONS

1/4	10.8 N-m (8 lb. ft.)
5/16	12.5 N-m (17 lb. ft.)
3/8	40.7 N-m (30 lb. ft.)
7/16	67.8 N-m (50 lb. ft.)
1/2	101.7 N-m (75 lb. ft.)

V. INSTALLATION

1. ATV prior to winch and winch mount installation. See figure 1.



Figure 1

2. Remove four bolts securing front of skid plate to ATV frame. See figure 2.

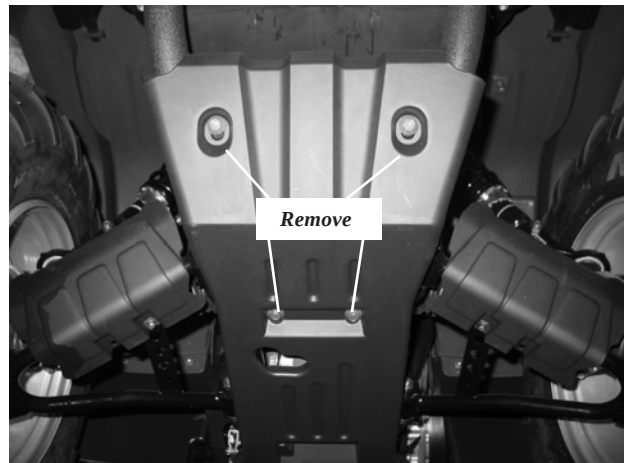


Figure 2: Remove bolts securing front of skid plate

3. Remove plastic rivets securing headlight bezels to grab bar.

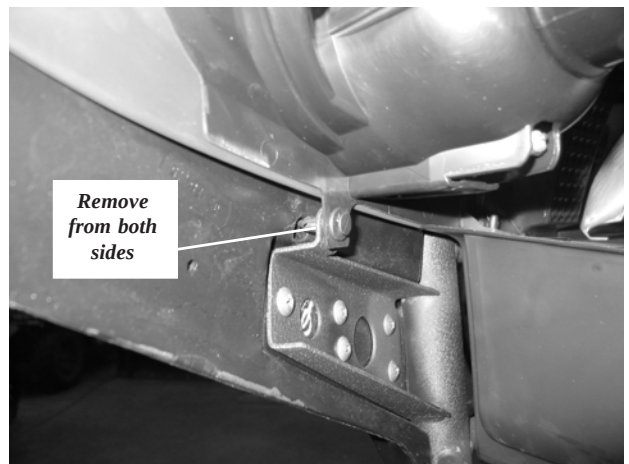


Figure 3: Remove plastic rivets

V. INSTALLATION *cont.*

4. Remove bolts securing grab bar to frame. See figure 4. Loosen bottom bolts securing grab bar to ATV frame. See figure 4.

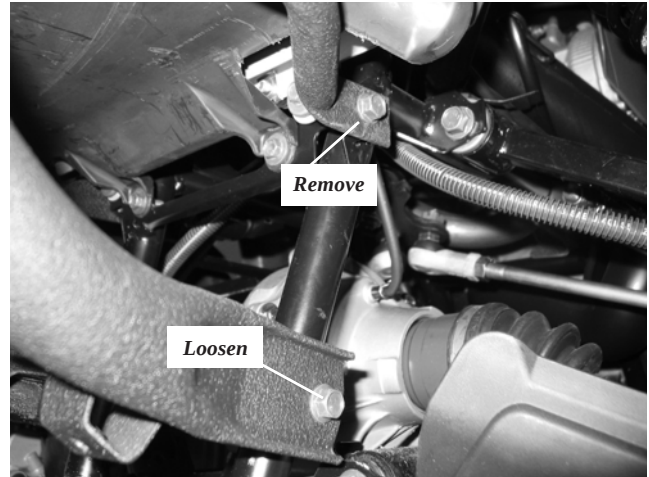


Figure 4: Remove center bolts of grab bar and loosen bottom bolts

5. Remove bolts securing grab bar to front rack. See figure 5.

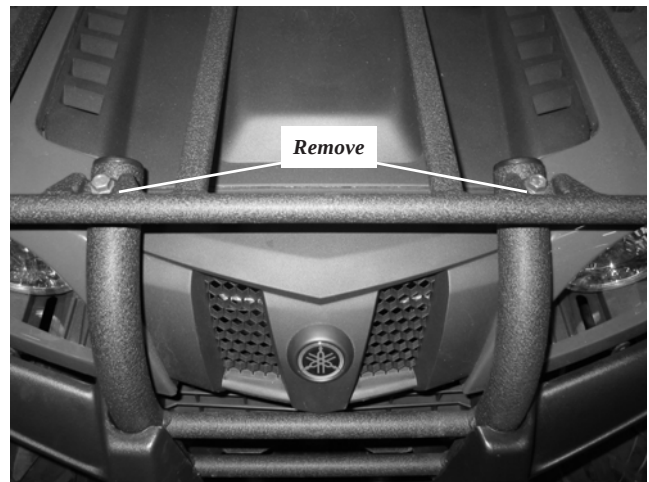


Figure 5: Remove bolts securing grab bar to rack

6. Rotate front grab bar forward. See figure 6.



Figure 6: Rotate grab bar forward

V. INSTALLATION cont.

7. Place winch mounting bracket (A1) on top of mounting tabs. See figure 7.

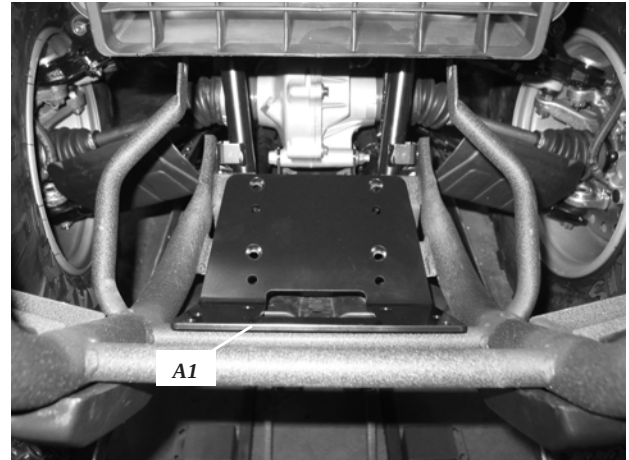


Figure 7: Place winch mounting bracket

8. Secure winch mounting bracket (A1) to mounting tabs using four M8 - 1.25 x 20mm flat hex head bolts (C1), four 5/16 flat washers (C2) and four M8 - 1.25 lock nuts (C3). See figure 8. Do not tighten bolts down at this time.

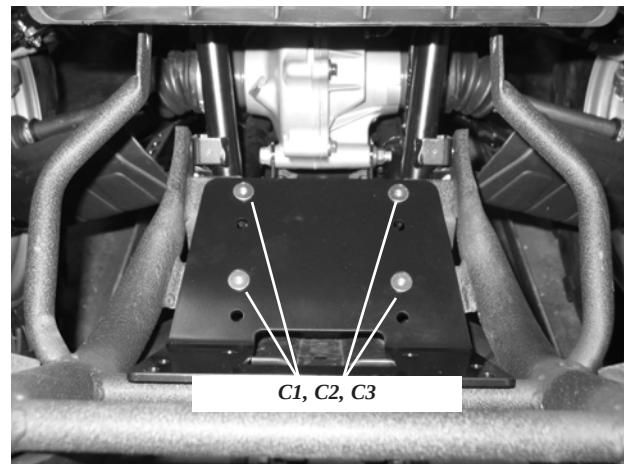


Figure 8: Secure winch mounting bracket to tabs

9. Assemble roller fairlead to winch mounting plate using two, M10 - 1.5 X 20mm hex head bolts (E1); two, M10 lock washers (E2) and 2, M10 - 1.5 hex nuts (E3). This hardware will be found in the winch kit.

Secure winch mounting bracket to grab bar using two M6 - 1.0 x 24mm x 37mm x 20mm u-bolts (B1), four 1/4" flat washers (B2) and four M6 - 1.0 lock nuts (B3). Tighten M6 - 1.0 u-bolts to 10.8 N-m (8lb ft). Next, tighten M8 - 1.25 flat head bolts installed in step 8 to 12.5 N-m (17 lb ft).

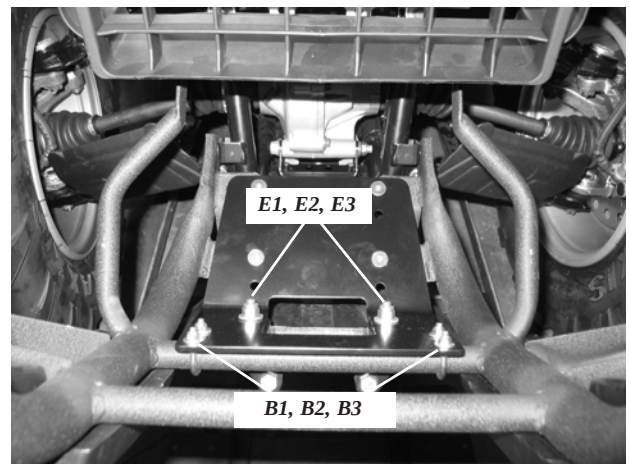


Figure 9: Secure winch mounting bracket to grab bar with u-bolts

V. INSTALLATION cont.

10. Spacer bars will need to be placed under the winch mounting feet to lift the clutch knob away from the framtube, see figure 11. **Note:** In some installations the spacer bars may cause the motor to come into contact with the framtube. If this occurs remove the spacer bars, take note of the clutch knob to make sure it has proper clearance for free operation. The spacer bars must be used as a set, the winch must be mounted level to function properly.

- 10a. Secure winch to winch mounting plate (A1) using four M8 - 1.25 x 20 mm button head bolts (D1), note that if the spacers are used then the 2 M8-1.25 x 25mm button head bolts will need to be used on the motor side of winch mounting feet. Tighten M8 bolts (D1) to 12.5 N-m (17 lb. ft.)

Assemble blue and yellow cables to motor. Slide dust boots over terminals of motor.

11. Rotate grab bar into position and reinstall bolts removed in step 4, followed by bolts removed in step 5. See figure 12.

Note: When rotating grab bar back into position, be sure to avoid pinching cables.

Tighten all bolts to manufacture's specifications.

Reinstall plastic rivets, removed in step 3.

12. Winch mount installation is now complete. See winch installation instructions to complete wiring.

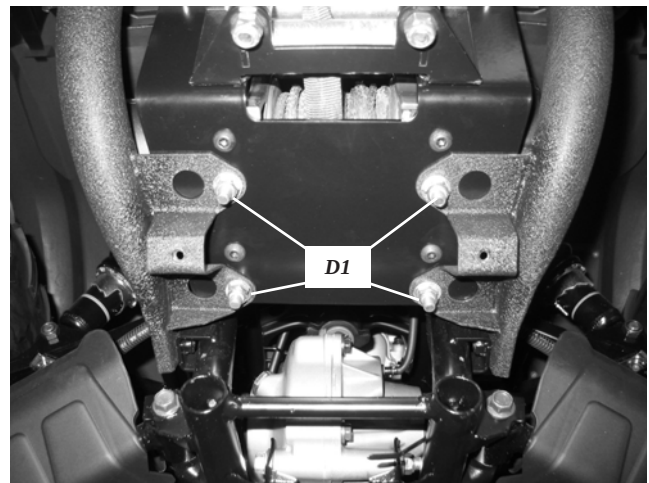


Figure 10: Mount winch to winch mounting plate

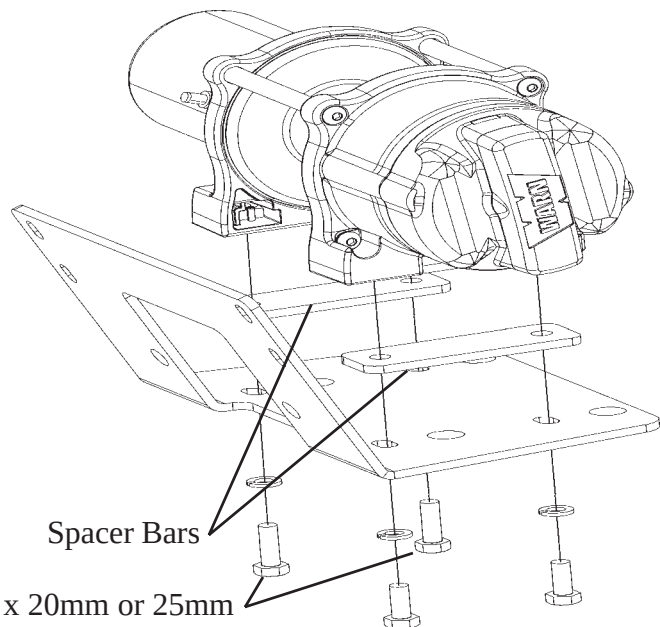


Figure 11: Completed installation



Figure 12: Completed installation

** WARNING**

READ THE VEHICLE'S OPERATOR MANUAL, WINCH OPERATOR MANUAL, AND ALL WARNING LABELS PRIOR TO OPERATION OF ATV AND WINCH.

** WARNING**

FAILURE TO SECURELY TIGHTEN ALL BOLTS ON THE WINCH PLATE, WINCH, AND FAIRLEAD CAN RESULT IN PRODUCT FAILURE WHICH MAY RESULT IN VEHICLE DAMAGE AND OPERATOR INJURY OR DEATH. DOUBLE CHECK THAT ALL BOLTS ARE SECURELY TIGHTENED PRIOR TO USE.

VI. MAINTENANCE/CARE

1. Inspect all parts on the winch, winch mount, and related hardware prior to each use. Replace all hardware that appears rusted or deformed.
2. Inspect all nuts and bolts on the winch, winch 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.
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 WINCH, WINCH MOUNT, AND RELATED HARDWARE. NEVER OPERATE THE WINCH WITH DAMAGED OR MISSING PARTS. FAILURE TO FOLLOW THIS WARNING MAY CAUSE VEHICLE DAMAGE AND OPERATOR INJURY OR DEATH.