



INSTALLATION INSTRUCTIONS WINCH MOUNTING KIT

Part Number: 82001

Application: Kubota RTV500

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.
<input type="checkbox"/> Always take time to fully read and understand the installation and Operations Guide included with this product. <input type="checkbox"/> Never operate this product if you are under 16 years of age. <input type="checkbox"/> Never operate this product when under the influence of drugs, alcohol or medications.
Read installation and operating instructions thoroughly.

Notice
Equipment Damage
<input type="checkbox"/> 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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III. TOOLS REQUIRED

- Ratchet
- 1/2" Socket
- 12,13,16,17mm Socket
- Metric Hex Wrench Set

II. PARTS LIST

<u>Part Number</u>	<u>Qty</u>	<u>Description</u>
70255	1	Stay Switch
70428	1	Contactactor Mount
83543	1	Mounting Plate
31804	4	1/4-20 cap screw
39514	2	1/4-20 x 1.5" u-bolt
1320	8	1/4" flat washer
1321	8	1/4" lock washer
1322	8	1/4-20 Nut
2546	3	10-24 nut
2587	3	#10 lock washer
7673	3	#10 washer
32615	3	10-24 machine screw
28325	2	M8-1.25 x 16mm bolt
1324	4	M8 washer
22491	2	M8 lock nut
66261	4	M10 lock nut
79882	4	M10 x 25mm carriage bolt

IV. TORQUE SPECIFICATIONS

1/4	8 lb. ft. (10.8 N-m)
3/8,8mm	30 lb. ft. (40.7 N-m)
7/16,10mm	50 lb. ft. (67.8 N-m)

V. WINCH INSTALLATION

1. Remove the factory winch plate, by removing the four 10mm bolts securing the factory winch plate, Figure 1.

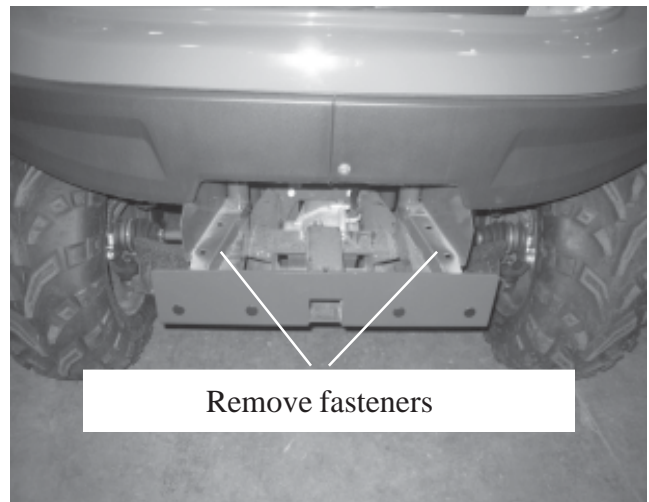


Figure 1

2. Fasten the winch mounting plate to the vehicle frame, Figure 2 using the 10mm carriage bolts and nut.

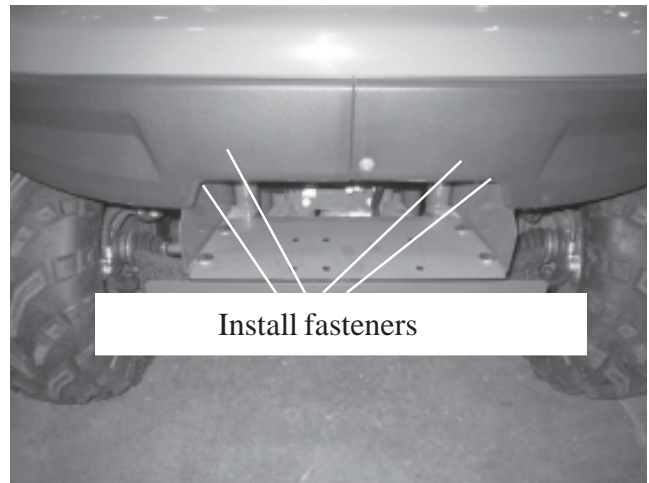


Figure 2

3. Remove the bottom tie bolt from the winch and store away for winch service. Place the winch and roller fair lead plate on mounting plate, Fig 3.

Install the yellow and blue wire leads to the winch at this time. See Winch Installation Guide for details.

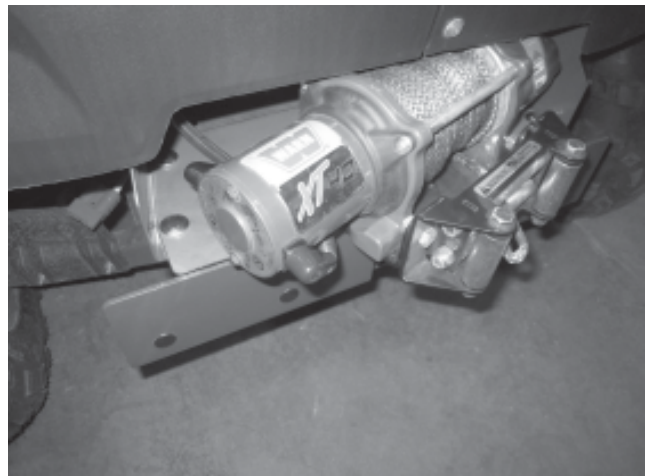


Figure 3

WINCH INSTALLATION CONT.

4. From underneath the mounting plate, secure the winch to mounting plate by fastening the bolts through the fairlead bracket into the winch using two (2) M8-1.25 x 25mm bolts and lock washers on the motor side, and two (2) M8-1.25 x 20mm bolts and lock washers on the clutch side. All hardware is provided in the winch fastener kit. 8mm bolts, supplied with the winch, Figure 4.

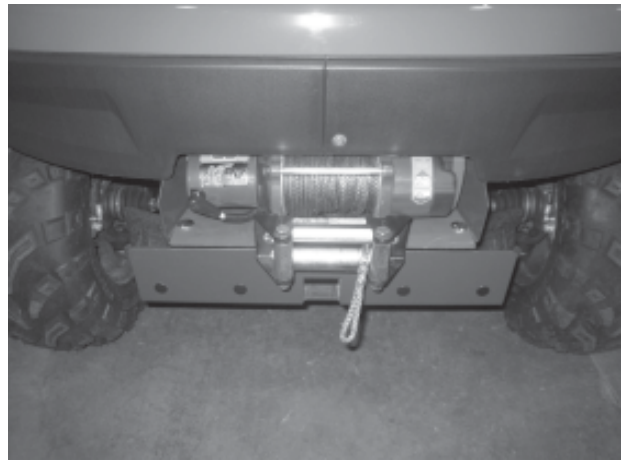


Figure 4

Tighten the bolts to the recommended torque.

Note: Use the outside holes for the 40 winch and the inner holes for the 25 and 30

When mounting the winch, both the yellow and blue wires should be secured so that when mounted, both wires run vertically from the winch.

Install roller fairlead and winch hook. See winch installation guide for instructions.

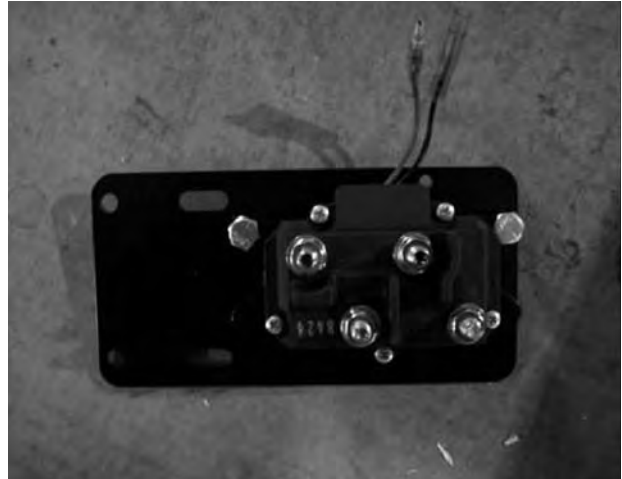


Figure 5

CONTACTOR INSTALLATION

1. Install the Contactor to the Contactor Bracket using two (2) 1/4-20 x 1" bolts, lock washers, and nuts provide in the fastener kit.
2. Install the Contactor Bracket (with Contactor) to the tube frame, under the bonnet toe the left of the brake fluid reservoir, using two (2) 1/4-20 x 1.5" U-bolts, lock washers, and nuts provided.

Brake reservoir

Figure 6

SWITCH and REMOTE SOCKET INSTALLATION

1. Install the Remote Socket and the Switch onto the Switch Stay, using the 10-24 hardware provided in the fastener and Switch fastener kits.
2. Install the Switch Stay to the bottom left side of the utility vehicle under the dashboard, using two (2) M8-15mm bolts, lock washers, and nuts provided in the fastener kit.



Figure 7

WIRING INSTALLATION

1. Route the vinyl cable containing 20 gauge Switch wires under the dashboard and to the front of the vehicle. Do the same for the Remote while if applicable.

Note: Make sure to secure all cables away from moving parts.

2. Take the 20ga cables and connect to the Contactor as shown in the Winch Installation Guide.
3. Connect the red extension wire on the rocker switch as described in the Winch Installation Guide to a battery source that is
4. Route the red and black lead wires from the contactor straight down under the floor plate back, along vehicle wiring, an up behind the seat up to the battery.
5. Connect the red and black wires to the contactor and battery according to the Winch Installation Guide
7. Use the plastic ties supplied with the winch kit to secure the wires away from moving or rotation machine components.

Figure 9

⚠ 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.