INSTALLATION INSTRUCTIONS

Front Plow Mounting Kit

WARN Part Number: 86386

Application: 2010 + Kymco UXV (SXS)

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 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.
- Always wear safety glasses when cutting and trimming during fitting.
- Always remove jewelry and wear eye protection.
- Always use appropriate and adequate care in lifting components into place.
- Always balance components so they 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.
- Never raise the top of the plow above the headlights of the ATV, as it may damage the vehicle and plow.
I. Tools Required

- Ratchet
- Sockets: 9mm, 10mm, 14mm, 16mm, 17mm, 1/2"
- Wrenches: 10mm, 14mm, 16mm, 17mm, 1/2"
- Torque Wrench
- Allen Drive 3/16

II. Torque Specifications

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

- 5/16" diameter bolt and nuts: 12 ft-lbs (16.5 N-m)
- 10mm diameter bolts and nuts: 30 ft-lbs (40.7 N-m)
## III. Parts List

<table>
<thead>
<tr>
<th>Reference</th>
<th>Part Number</th>
<th>Qty</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>A1</td>
<td>86140</td>
<td>1</td>
<td>Plow Mount</td>
</tr>
<tr>
<td>A2</td>
<td>86294</td>
<td>1</td>
<td>Strap right hand</td>
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<tr>
<td>A3</td>
<td>86295</td>
<td>1</td>
<td>Strap left hand</td>
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<tr>
<td>A4</td>
<td>86387</td>
<td>1</td>
<td>WM fairlead support plate</td>
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<td>A5</td>
<td>86385</td>
<td>1</td>
<td>Bumper cover</td>
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<td>A6</td>
<td>82462</td>
<td>1</td>
<td>Hook attachment strap</td>
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<td>A7</td>
<td>86296</td>
<td>1</td>
<td>Plow flange</td>
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<td>B1</td>
<td>13454</td>
<td>2</td>
<td>M8 x 1.25 x 30mm Cap Screws</td>
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<td>B2</td>
<td>22262</td>
<td>4</td>
<td>5/16 Fender Washers</td>
</tr>
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<td>B3</td>
<td>11524</td>
<td>12</td>
<td>3/8 Flat Washers</td>
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<td>M8 x 1.25 Nylock Nuts</td>
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<td>M10 x 1.5 x 30mm</td>
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<td>79712</td>
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<td>3/8 retaining Pin</td>
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<td>B10</td>
<td>84154</td>
<td>6</td>
<td>1/4-20 Socket Head Screws</td>
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</table>

*Figure 1*
IV. Vehicle Preparation

1. Park the vehicle on a clean, well lit, level area and set the park brake. Allow vehicle to cool before attempting to install plow mount.

2. Remove the front fascia as seen in Figure 2.

3. Remove the four bolts as shown in Figure 3. This will allow the front fascia to be removed and the front of the skid plate to be pulled down.

4. If a winch was previously installed or any accessories that might interfere with plow mount installation, remove at this time.

V. Installation

Note: Refer to the exploded part views for information about location and quantity of fasteners to use in the following steps.

1. Install part number 84154 hex socket ¼-20 screws three per side in the ends of the front plow mount, per the exploded view (Figure 4).

2. Install the winch fairlead support bracket to the underside of the winch mount as shown in Figure 5. This will add strength to the factory mount. Note that it wraps to the outside of the factory mount.
Installation (continued)

3. Locate the two M8 bolts and the four 5/16 fender washers and place two on each bolt, place in the holes from the top of the factory winch mount, and through the bracket as shown in figure 6. Use two of the 3/8 flat washers and two of the M8 lock nuts but do not tighten all the way. You will need to align the rest of the holes first.

Figure 6

4. You will come back to the support plate later in these instructions. Take the front plow mount and slide it over the front cross piece portion of the frame under the winch mount. You will have to pull the front portion of the bottom skid plate down to keep from having interference. Shown in Figure 7.

Figure 7

5. To locate the mount, push the mount against the frame and reinstall the two lower front fascia M6 bolts you previously removed through the slots on the underside of the mount. See Figure 8.

Figure 8
6. Install the M10x 95mm long bolts down through the top of the front plow mount through the lower tabs and secure with 3/8 flat washers and M10 nylock nuts. See figure 9a and 9b.

7. Tighten nuts at this time.

8. Install M10 x 40mm bolts with spacers, one spacer on each side of the frame rails. The spacer holds the strap away from the frame to provide adequate clearance. See figure 10 and 11.
9. Install the left and right-hand straps noting that the large end goes to the vehicle frame rail. The small end to the plow mount. Use a 3/8 flat washer and M10 nylock nut. See figure 12.

10. Figure 10 shows the placement of the strap from the frame rail to the mount. Use a M10 x 30mm 3/8 washer and M10 nylock nut to attach to the front plow mount, see Figure 13.
Note: The washer and nut are to the inside of the vehicle. See figure 14

11. Next take a hammer and lightly tap your skid plate against the nuts that secure the front plow mount. This will leave witness marks so you can trim or use a 1 in. hole saw to make clearance for the reinstallation of the two front skid plate bolts previously removed. See figure 15.

12. Reinstall the previously removed skid plate bolts. See figure 16.
13. Figure 17 shows the locating pin and the position of the bail latch.

14. The winch fairlead support plate that was earlier attached can now be finished being installed. Take the fairlead roller and attach to the front of the winch mount and bracket using the last two remaining M10 x 30mm long Bolts. Do not tighten. See figure 18.

15. Make sure that the winch mount hole are aligned with the support bracket holes. In Figure 19 and 20 you can use the winch mount bolts to help align them. Tighten all the support plate and fairlead roller fasteners at this time.
16. The next step is to mount the winch now that all hardware is tight. The winch may be installed through the side of the bumper, then lowered on to the winch mount. Fasten the winch at this time. See figure 21.

Note: Make sure to remove the long screw that is located under the winch drum if winch is new.

17. Attach the new bumper cover that comes in the kit to replace the old fascia using the previously removed M6 bolts. Also attach the strap to the bumper tube, this will be what the winch hook will attach to when using the plow. See figure 22.
VI. Tips/Troubleshooting

• Avoid engaging or removing the plow from the vehicle on uneven, sloped, or soft ground. Doing so may misalign the plow mount and make it difficult for proper engagement and disengagement of the retaining pins.

• If you are having trouble getting an alignment puck into the plow mount, it may need some simple adjustment. Ensure that the plow and vehicle are sitting level. Ensure that the plow base is in the center latched position.

• After using the plow, the winch cable may begin to tangle around the drum. To fix this, pull off the plow assembly and free spool the cable out of the winch. Once the tangled cable is pulled off the drum, switch the winch out of free spool and winch the cable neatly back around the drum. Do NOT grab the cable or winch hook, instead use the winch strap provided with your winch and follow the guidelines as described in the winching guide.

VII. 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.

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**WARNING**

Failure to perform regular inspections and maintenance on the plow, plow mount, winch, and related hardware may result in vehicle damage and operator injury or death.

If you are having problems with your plow, please follow the steps below:

1. Reference the installation instructions for tips or notes.

2. Contact the dealer where you purchased the kit.

3. Call an authorized WARN Service Center from the warranty sheet included in the kit. Please have the following information available before calling; part number (listed on front of instructions), date of purchase, and make, model, and model year of ATV.