

PLOW ANGLE CONTROL KIT

P/N 2879635



POLARIS®

Application

GLACIER PRO ATV PLOW SYSTEM P/N 2879630

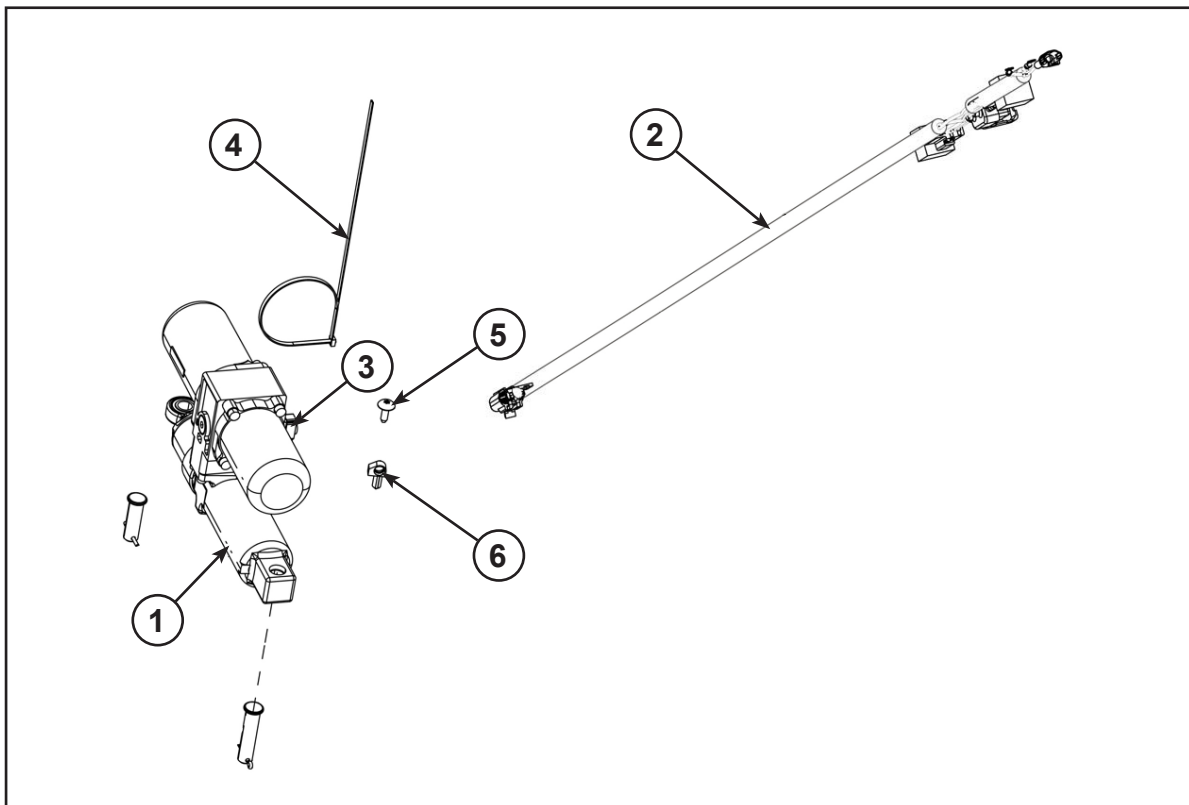
Vehicles for Wire Routing

**SPORTSMAN 570 MODELS,
SPORTSMAN 500/800 MODELS,
SPORTSMAN 550/850 XP MODELS.**

Before you begin, read these instructions twice and check to be sure all parts and tools are accounted for. Please retain these installation instructions for future reference and parts ordering information.

IMPORTANT: Your Polaris PLOW ANGLE CONTROL KIT is exclusively designed for your vehicle. Please read the installation instructions thoroughly before beginning. Installation is easier if the vehicle is clean and free of debris. For your safety, and to ensure a satisfactory installation, perform all installation steps in the sequence as shown in the following instructions. If a winch was not previously installed on the unit the angle kit can be installed during the winch install to reduce install time and the need for additional disassembly.

NOTE: This angle unit contains a pressure limit valve that is intended to minimize the likelihood of system damage during an unexpected impact. For this reason the blade may angle slightly during extreme use.



Kit Contents:

<u>Ref</u>	<u>Qty</u>	<u>Part Description</u>	<u>Part Number</u>
1	1	Plow Angle Cylinder	2412572
2	1	Plow Control Harness	2412573
3	1	Plow Angle Control Switch	2412720
4	6	Panduit Straps	7080492
5	1	¼-20X.75 Screw	7518280
6	1	Routing Clip	7670102
	1	Instructions	9924429

Tools Required:

Safety Goggles

Wire Cutter

Torx Set

M10 Wrench

Metric Socket Set and Ratchet

Phillips Screw Driver

APPROXIMATE ASSEMBLY TIME: 30 minutes

INSTALLATION INSTRUCTIONS:

1. Place the vehicle in "PARK". Turn the key to "OFF" position and remove from the vehicle.
2. **On Sportsman XP Models:** Release the two Lock and Ride anchors securing the rear of the front rack to the machine. Remove the rack by pulling up on the rear of the rack to release the anchors and rearward to disengage the front locking tabs. Use a M10 wrench to disconnect the battery located just in front of the bulkhead at this time. Figure 1.

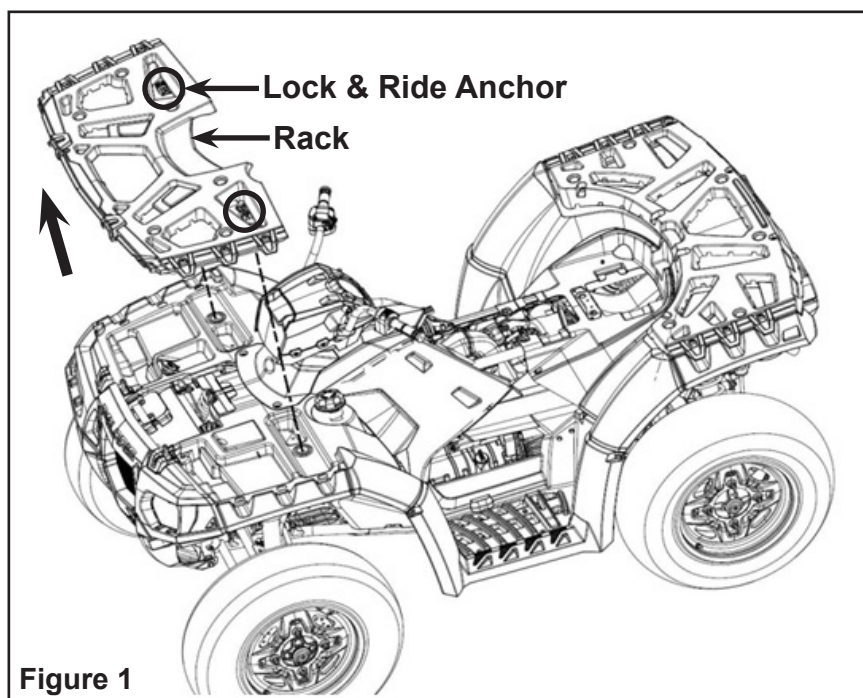
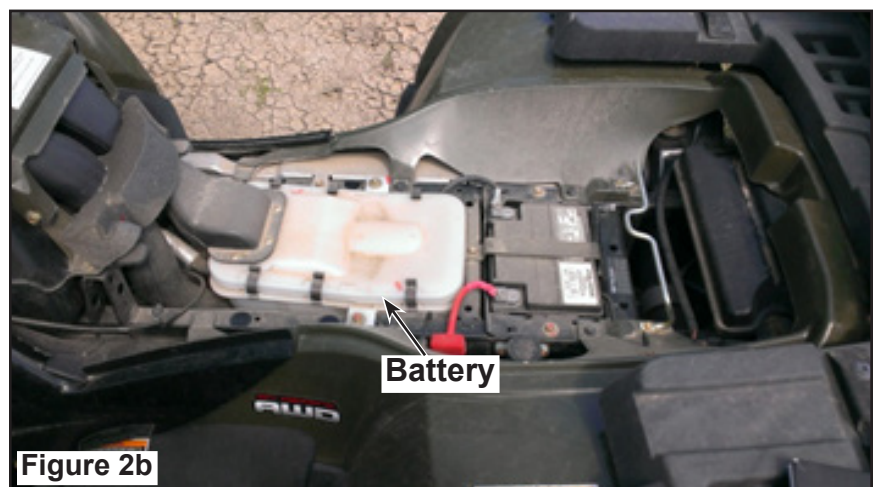
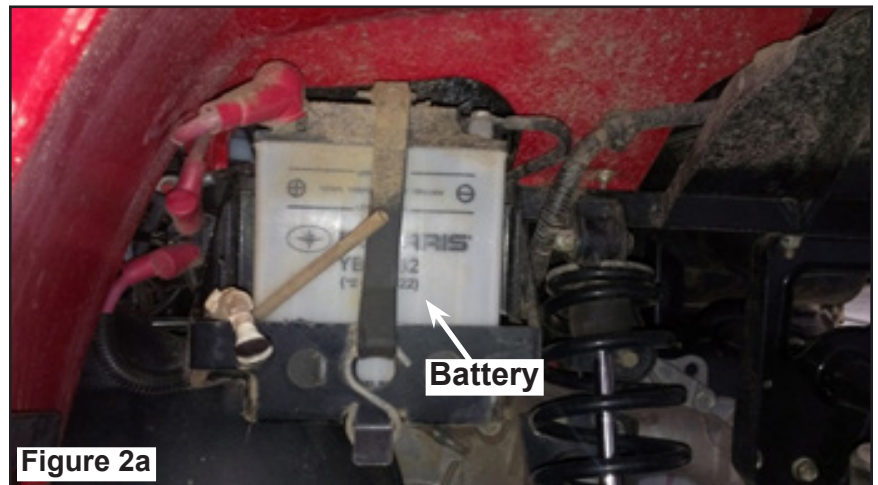
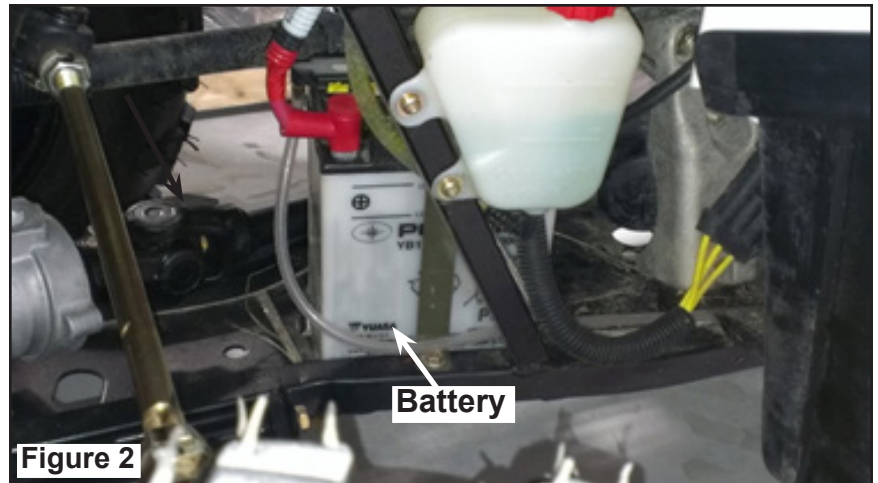


Figure 1

3. On Standard Sportsman Models:

Locate the battery and disconnect it at this time.

- MY14 570 Sportsman Models: Battery located behind front drive. Figure 2.
- Sportsman 400/500 Models: Battery under the rear left fender. Figure 2a.
- Sportsman 800 Models: Battery located under the seat. Figure 2b.



4. Use a T27 Torx to remove the screws of the access panel just under the headlight retaining them for reuse. Figure 3 and Figure 3a. Remove the panel by lifting up on the front edge and pulling it forward to release the tabs.

5. Disconnect the LH and RH headlight plugs located just behind the headlights.

NOTE: Applicable to SPORTSMAN XP models only.

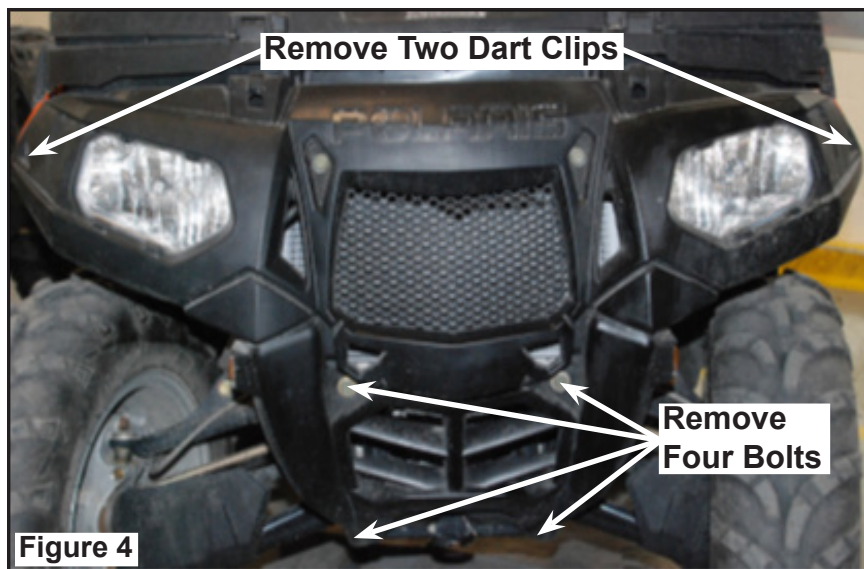
6. Remove accessory front brush guards if equipped.



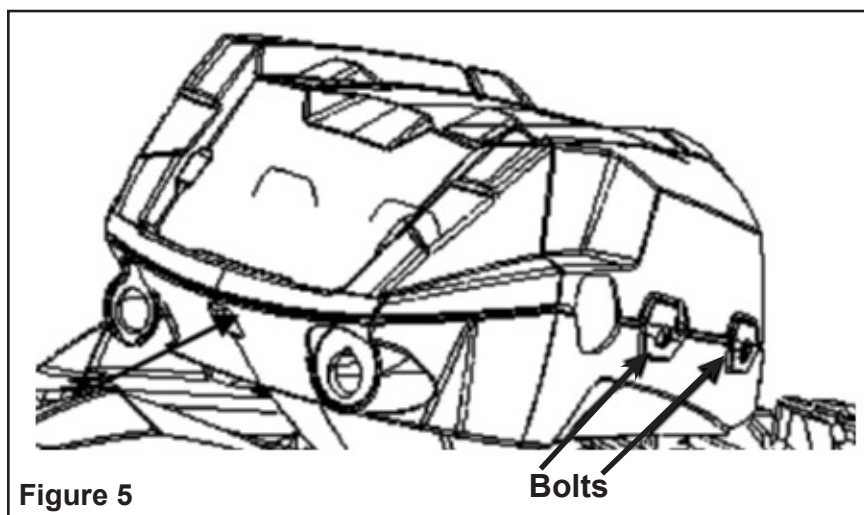
7. Remove the lower grill guard by removing the four bolts. Figure 4 and Figure 4a. Retain hardware for reassembly.

8. Remove all bolts and dart clips from the front bumper fascia and remove it from the machine at this time.

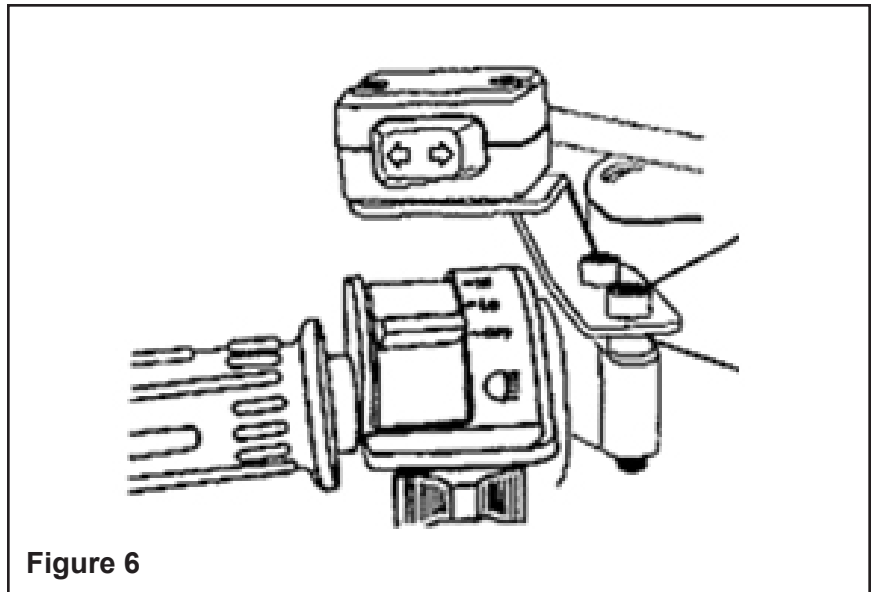
NOTE: Applicable to SPORTSMAN XP models only.



9. Remove the screws securing the upper pod to the unit. Move the pod and speedometer assembly to the RH side allowing room to route the angle control wires. Figure 5.



10. Use a T30 Torx to remove the bolts securing the LH brake control to the handle bar. Locate the 60 mm long bolts and spacers from the (PN 2205068) hardware kit and use them to secure the angle switch on the top side of the LH brake control. Figure 6. Tighten bolts to 2 ft. lbs. (2.7 Nm). Be sure to tighten the rear bolt first.

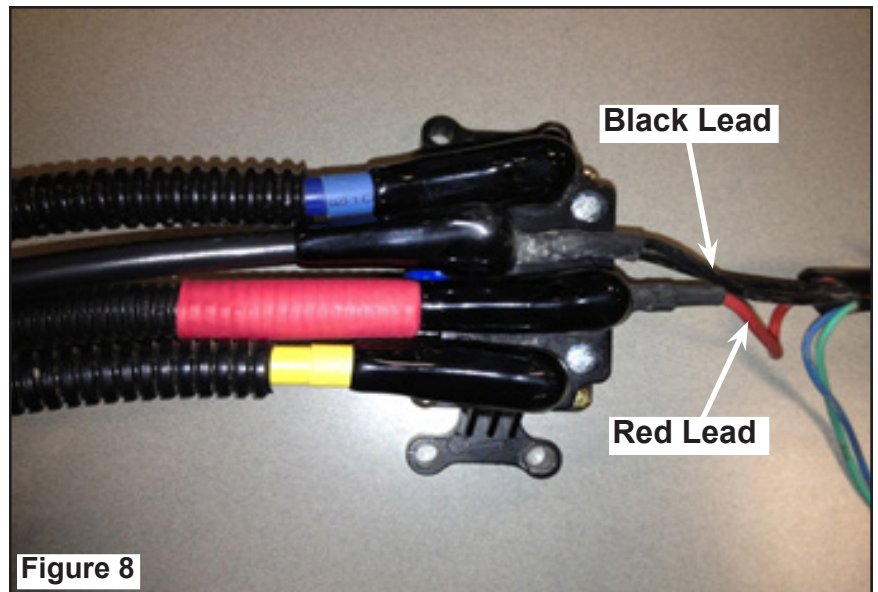


11. Locate the winch control switch, spacers and mounting nuts from the winch hardware kit and assemble these items. Figure 7. Tighten the switch retaining nuts until snug. If the winch switch in your kit was mounted on top of the left hand control, you will need to remount the winch switch. Figure 7.

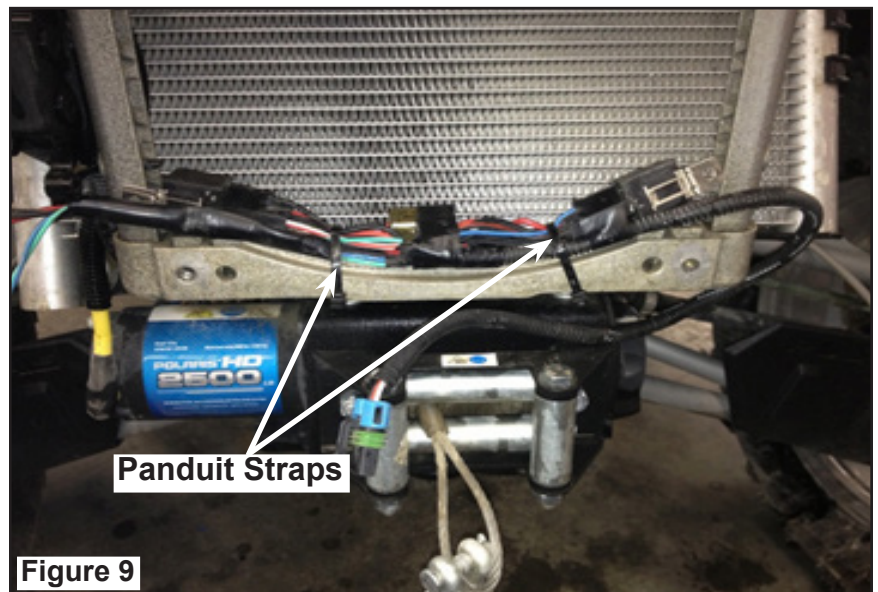


12. Route the switch wires down the handlebars through the opening in the lower headlight pod to the front side of the bulkhead. Take care when routing the wires to avoid pinch points and sharp edges that could damage the harness. Secure the wire to the handlebars using two of the provided (PN 7080492) Panduit straps.
13. Plug the red keyed power lead of the plow control switch into one of the 3 orange/white keyed power leads located under the front access panel. The white switch plug should follow the routing of the winch switch control to the vicinity of the winch contactor where it will be plugged into the angle control harness in a later step.

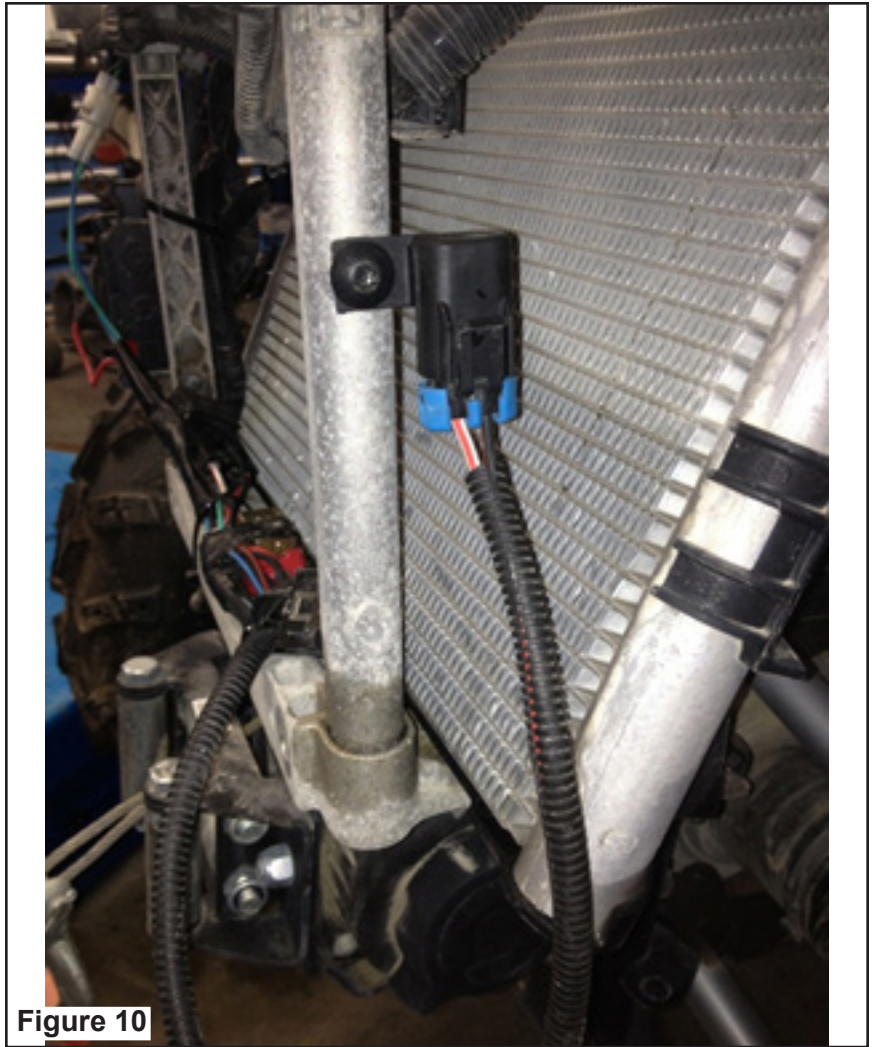
14. Attach the red and black leads of the Angle Control harness to the corresponding red and black leads on the winch contactor as shown in Figure 8 and connect the white switch plug to the harness at this time.



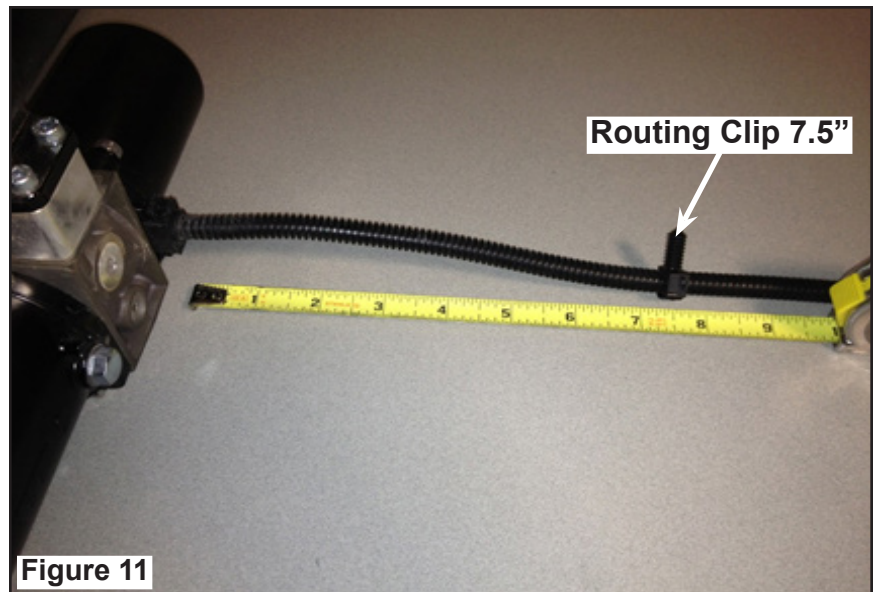
15. Use two of the provided (PN 7080492) Panduit straps to secure the angle control harness to the fascia structure. Figure 9a and Figure 9b. Take care to strap the harness to the structure in such a manner that it does not get pinched when the plastic fascia is reinstalled. (Note the arrows in the Figure 9a). Also take care not to allow the wires to rub on the radiator fins.



16. Remove the protective cap from the (PN 2412720) Angle Control Harness and secure it to the machine using the provided (PN 7518280) fastener. Figure 10 and Figure 10a.
17. Plug the plow control harness into the protective cap and use the remaining Panduit straps to secure the harness as necessary.
18. Reconnect the battery and reinstall the plastic at this time by performing Steps 1 through 8 in the reverse order.



19. Locate the (PN 2412572) angle cylinder in the kit and install the (PN 7670102) routing clip 7.5" from the cylinder. Figure 11.



20. Remove the two pins securing the manual angle control to the plow frame and replace it with the angle cylinder assembly. The wire should exit the cylinder on the RH side and the routing clip should be pushed into the hole found in the rear mounting bracket. Figure 12.
21. Assemble the plow system to the machine at this time.
22. Disconnect the control harness from its protective cap and route it through the fascia on the LH side of the winch.



23. Connect the Angle cylinder to the plow control harness, turn the key to the ON position and test for proper operation.

NOTE: Always connect the plow control harness to its protective plug when the plow is removed to avoid getting debris in the connection. The cap also retains the harness minimizing the likelihood it will be damaged.