

Polaris Sportsman Quick-Mount 2500lb. / 3500lb. Winch Kit

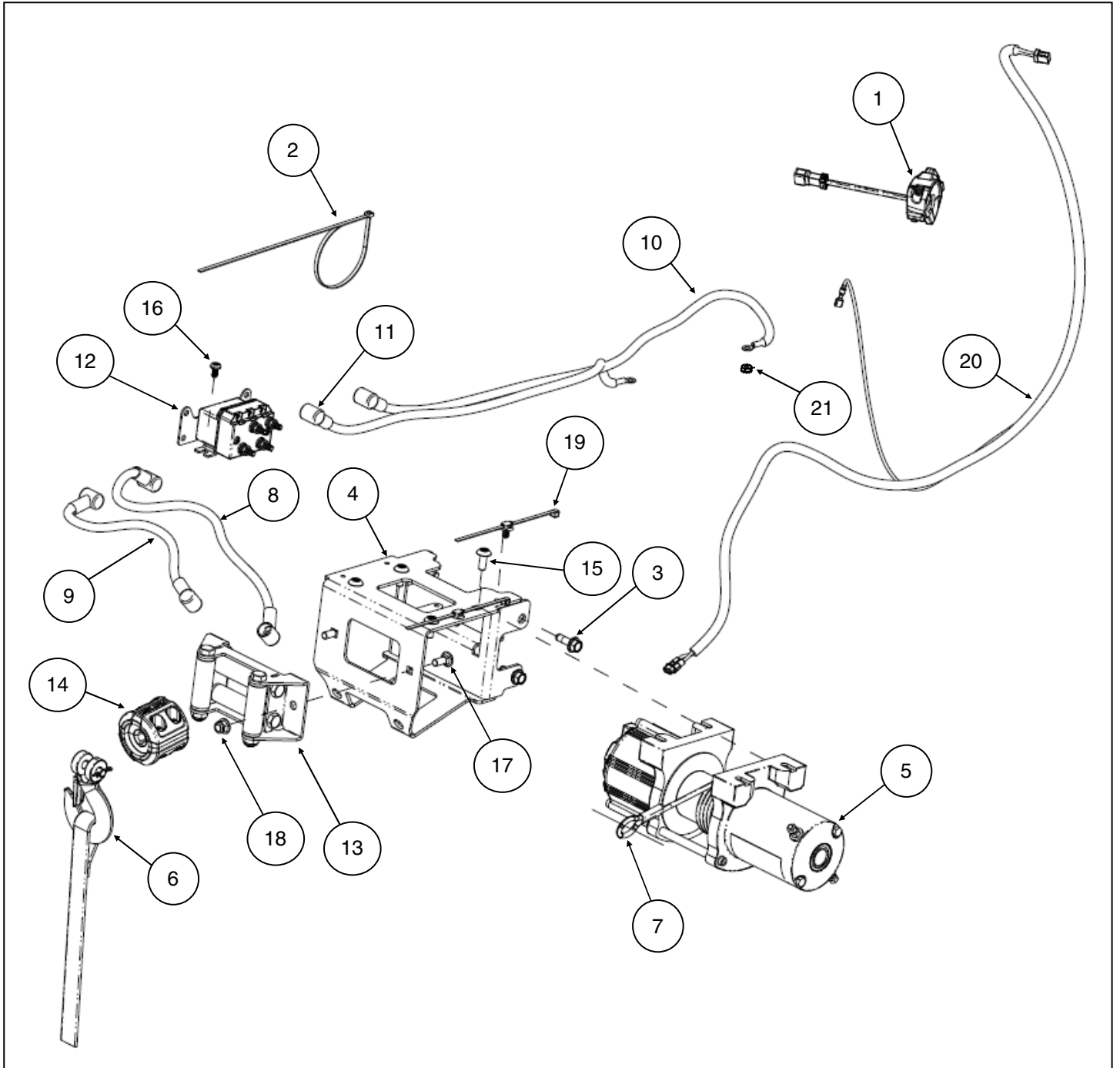


Product Instructions | Part No: 26-3100 / 26-3110

Application: Polaris Sportsman, verify accessory fitment at Kolpin.com.

Before You Begin: Read these instructions and check to be sure all parts and tools are accounted for. Please retain these installation instructions for future reference and parts ordering information.

Note: If any hardware is missing, do not return to the store. Call us to help, Toll Free 1-877-956-5746.



This Kit includes:

Item	Qty	Part Description	Part Number	
			26-3100	26-3110
1	1	Handlebar Switch	2207175	
2	5	Cable Ties, Nylon	-	
3	4	Hex Flange Screw, Zinc Plated, M8 x 1.25 - 25mm LG	-	
4	1	Mounting Bracket	25-3410	
5	1	Winch - Kolpin, 2500lb. / 3500lb.	25-9250R	25-9350R
6	1	Hook, Winch Latch	RPR0108	
7	1	Winch Cable, (Steel - 2500lb.) / (Synthetic - 3500lb.)	85062	85064
8	1	Winch Connection Cable, Yellow 6 GA (368mm)	-	
9	1	Winch Connection Cable, Blue 6 GA (267mm)	-	
10	1	Power Connection Cable, Black 6 GA (510mm)	-	
11	1	Power Connection Cable, Red 6 GA (530mm)	-	
12	1	Contactor, Solenoid, 12V	85068	
13	1	Roller Fairlead	85069	
14	1	Rubber Winch Stopper (only included on 3500lb.)	-	85080
15	4	Button Screw, Zinc Plated, M8 x 1.25 - 20mm LG	-	
16	2	Socket Head Cap Screw, Zinc Plated, M6 x 1.0 - 10mm LG	7517337	
17	2	Carriage Screw, Zinc Plated, M8 x 1.25 - 20mm LG	7518479	
18	2	Hex Flange Locknut, Zinc Plated, M8 x 1.25	7547317	
19	2	Routing Clip Cable Tie, Nylon	7081496	
20	1	SPMN Winch Vehicle Harness	-	
21	2	Locknut, Zinc Plated, #10-32	7547341	
22	1	Instruction Guide (not shown)	-	
-	-	Service Free Spool Handle Knob (not included in kit)	85072	

Tools Required:

- Safety Glasses
- Socket Set, Torx Bit
- Wire Cutter
- Socket Set, Metric
- Hex Key Set, Metric
- Screwdriver, Phillips
- Torque Wrench

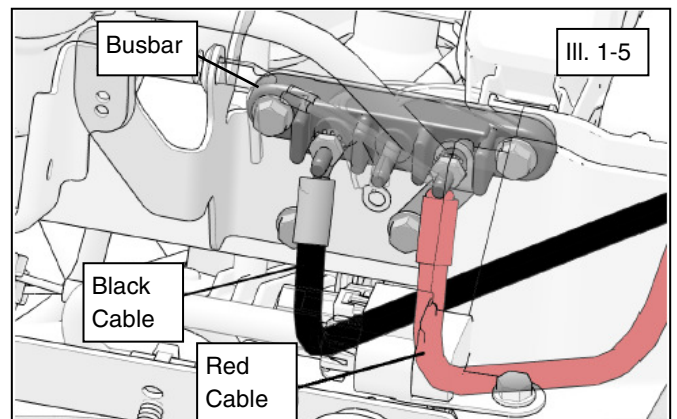
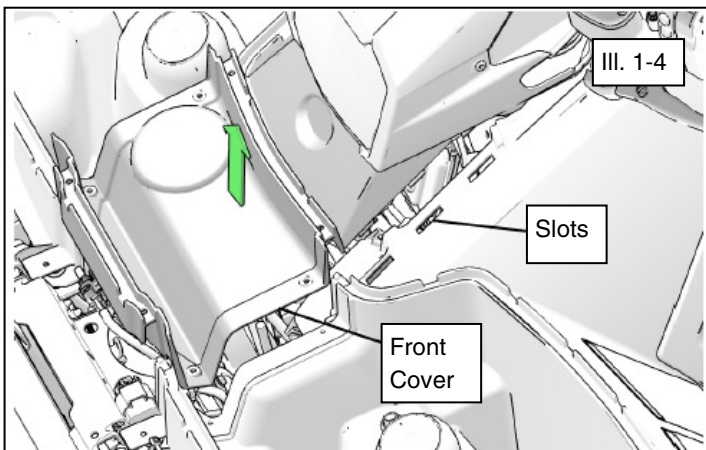
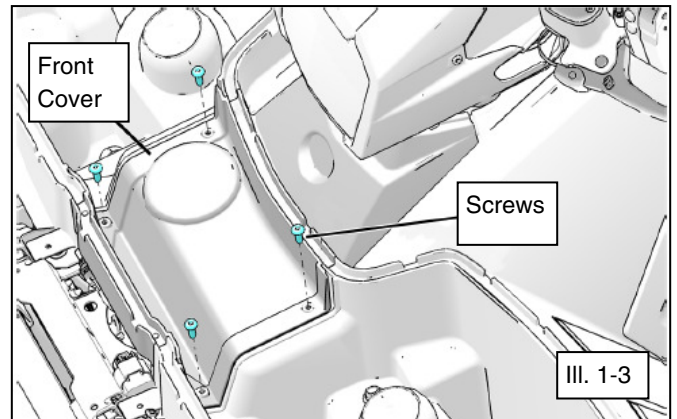
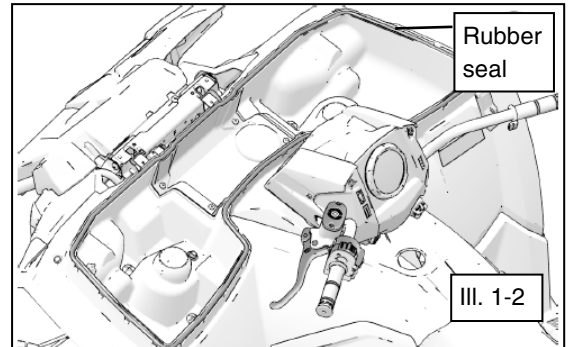
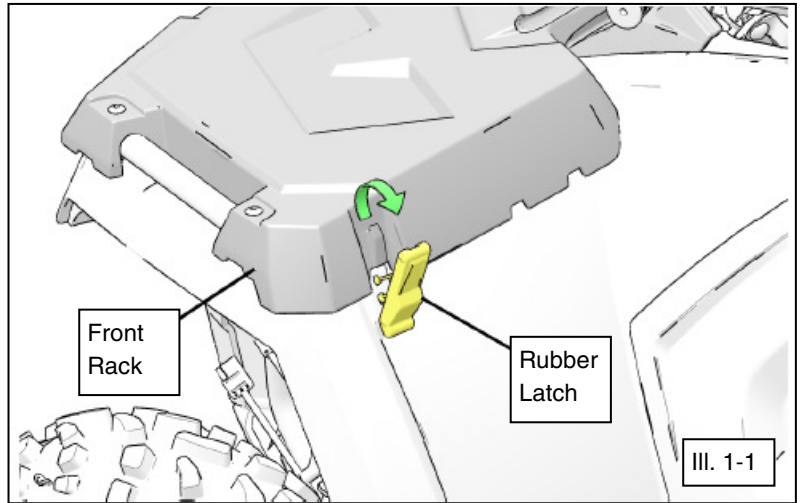
Assembly Time: Approximately 20 minutes

Sportsman XP Note: If you need to install this kit on a Sportsman XP 550/850/1000, see the instructions and photos on page 8. The XP instructions shows the contactor location and wire routing for that configuration, and reassemble the contactor and wiring to match those photos. Then follow the preceding instructions for final installation.

Important: Your Kolpin Sportsman Quick-Mount Winch 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 correctly in the sequence shown.

SPORTSMAN 450/570 PREPARATION:

1. Shift vehicle transmission into "PARK". Turn key to "OFF" position and remove from vehicle.
2. Detach the rubber latch on both sides to open front rack as shown. (See illustration 1-1).
3. Open the front rack and remove rubber seal as shown. Retain the seal for reinstallation. (See illustration 1-2).
4. Remove four screws holding front cover in place as shown. Retain the screws for reinstallation. (See illustration 1-3).
5. Lift the front cover upwards slowly to disengage the tabs on cover from the slots as shown. (See illustration 1-4).
6. Disconnect black (negative) and red (positive) cables from battery.

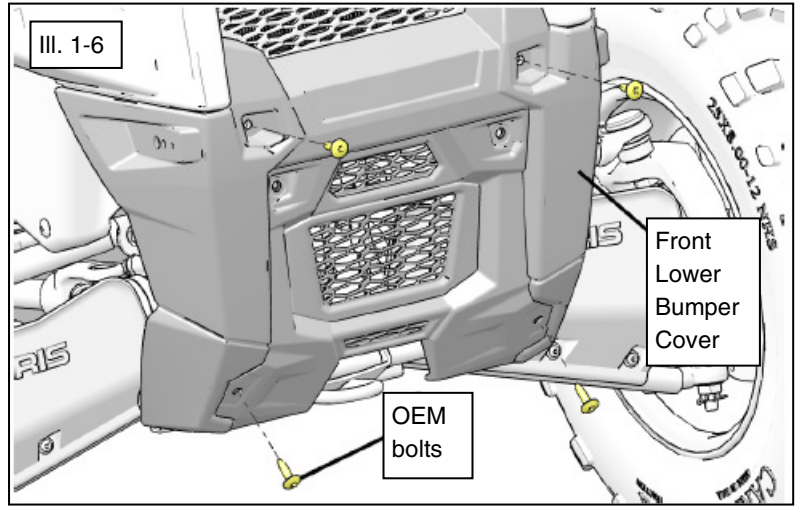


7. Disconnect the black (negative) and red (positive) cables from the busbar as shown. (See illustration 1-5).
8. Remove the accessory front brush guard from vehicle (if equipped).

⚠ WARNING ⚠
ALWAYS disconnect black negative (-) cable from battery **FIRST**. Failure to do so will result in high current electrical arc, and may result in battery explosion if tool touches grounded frame. Death or serious injury may occur.

**SPORTSMAN 450/570 PREPARATION
(continued):**

9. Remove lower front bumper cover from vehicle by removing four bolts as shown. Retain bolts for use during reinstallation. (See illustration 1-6).
10. Remove winch cover from the lower front bumper cover. If you plan to use a plow, remove winch cover from the lower front bumper cover and do not reinstall. If you do not plan to use a plow on your vehicle, cut out the center section as shown and reinstall winch cover on the lower front bumper cover if you desire, but it is not required. (See illustrations 1-7 and 1-8).

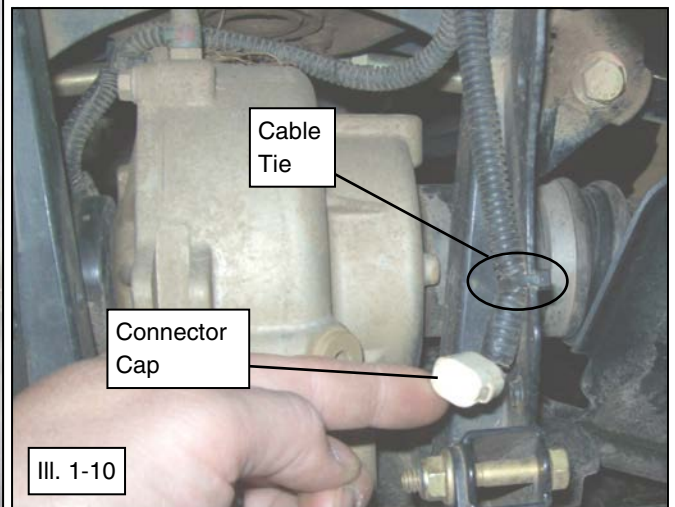
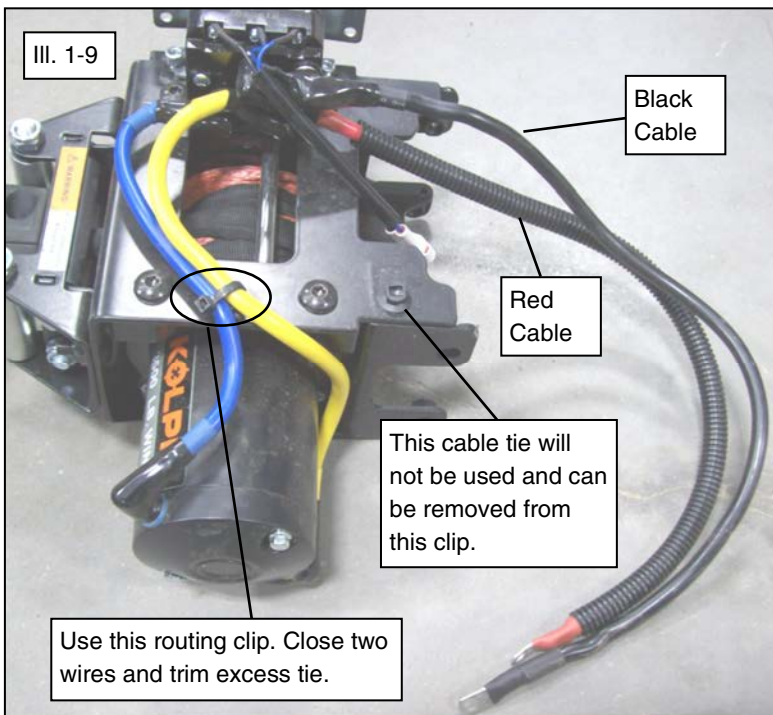
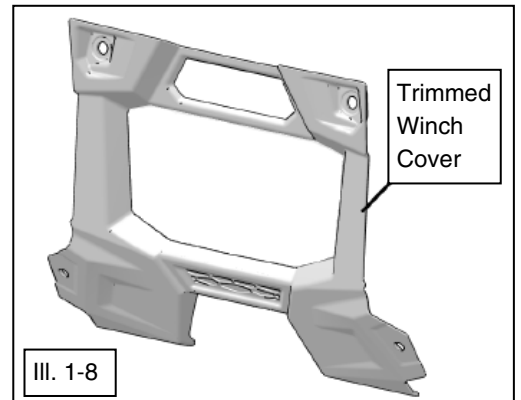
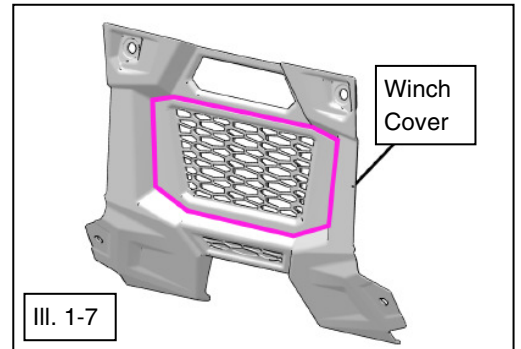


NOTE: Before installing the winch kit, add or replace the proper fluid to your front gearcase as required per your vehicles service manual as this process will be difficult to do after the winch is installed.

SPORTSMAN 450/570 WINCH INSTALLATION:

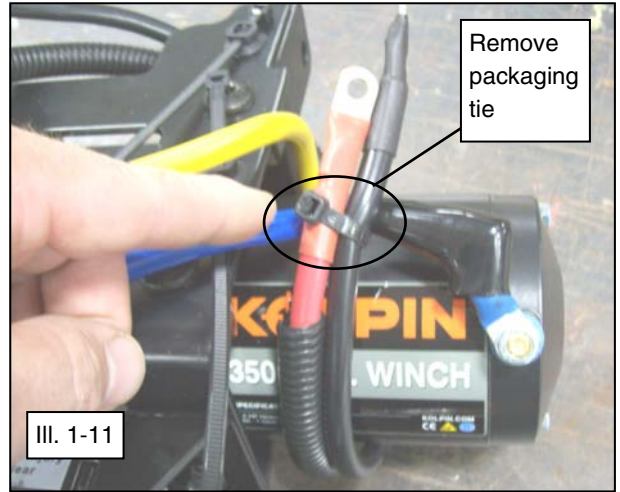
NOTE: See the Electrical Connections Reference Guide section of the instruction manual for detailed photos of each part and their respective connections.

11. Check and confirm wire routing and connections are as shown and make necessary adjustment before moving to next installation steps. (See illustration 1-9).
12. On vehicle, locate white contactor connector as shown, clip plastic cable tie, remove the cap. (See illustration 1-10).

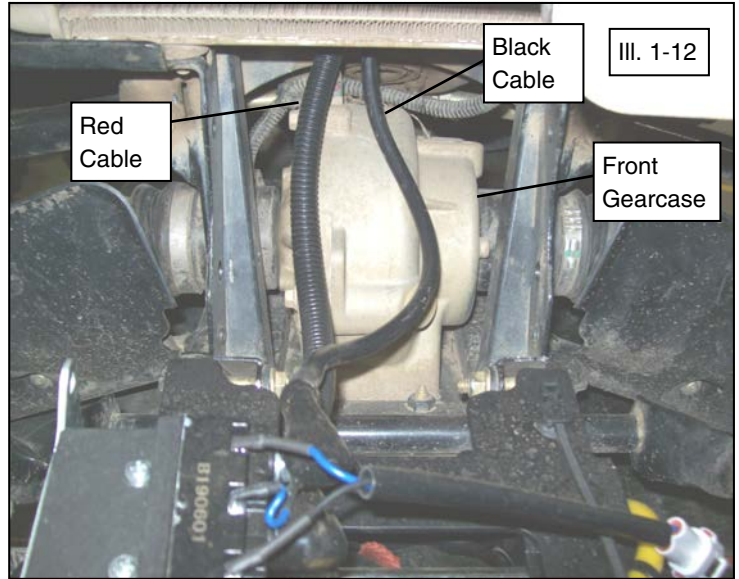


SPORTSMAN 450/570 WINCH INSTALLATION (continued):

- 13. Locate the red and black wires on winch assembly. If they are secured to blue cable with a plastic tie, cut the tie to allow the wires to be routed properly. (See illustration 1-11).
- 14. Remove the accessory front brush guard from vehicle (if equipped).

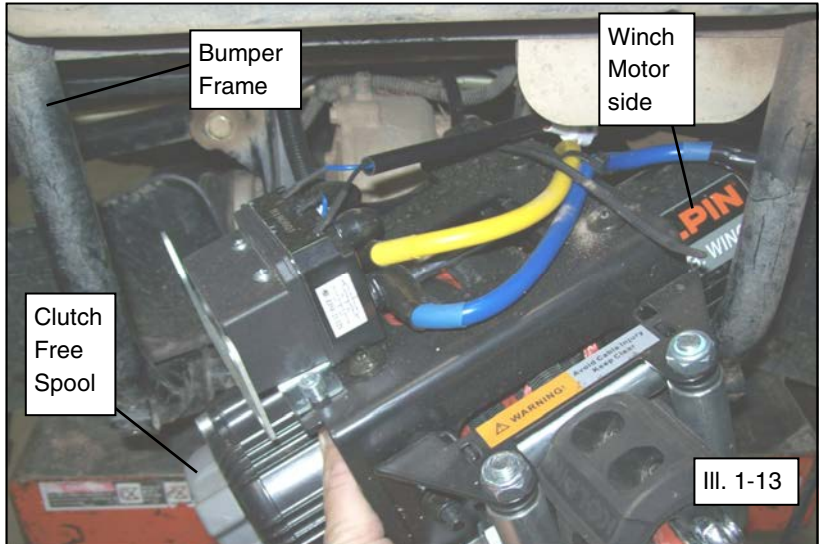
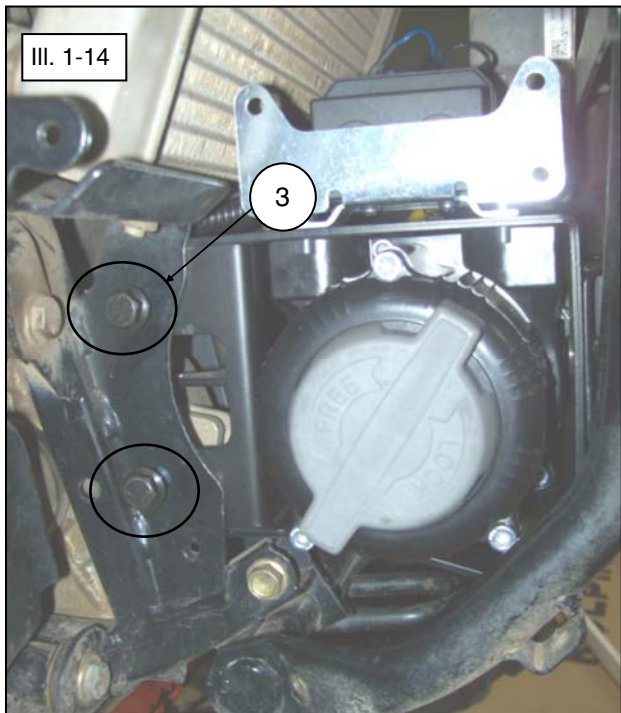


- 15. Install winch assembly onto the radiator mount with the four M8 hex flange screws (item #3). Check that all wires are free to move and not pinched between the vehicle chassis and the winch assembly. Access is easier by inserting the black and red power cables first into window above front gearcase as shown, then position winch motor side into bumper frame first followed by lifting clutch free spool handle end last. (See illustrations 1-12, 1-13 and 1-14).



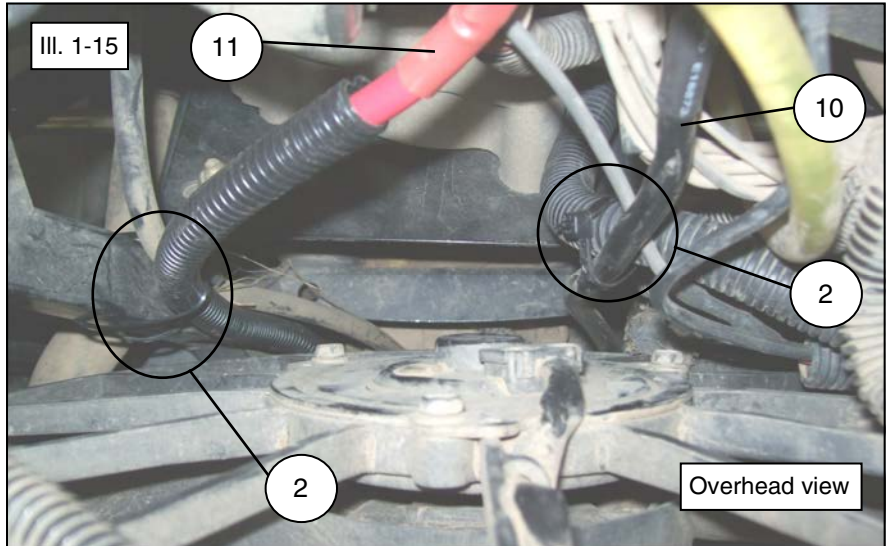
- 16. Tighten the four M8 screws (item #3) to torque specification.

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8MM FASTENER TORQUE: 17 ft. lbs. (23 Nm)

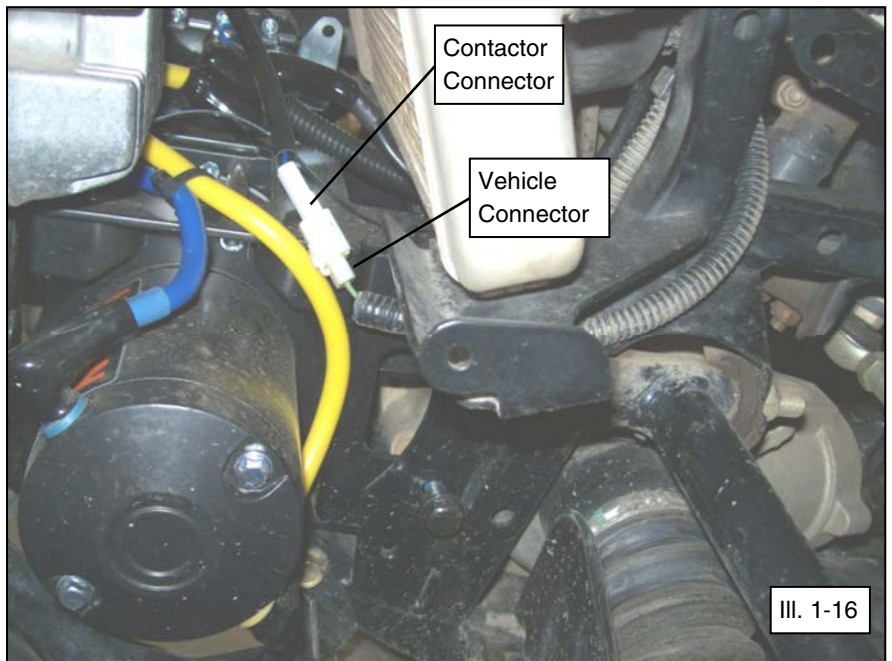


**SPORTSMAN 450/570 WINCH
INSTALLATION (continued):**

17. Route red positive (item #11) and black negative (item #10) power connection cables directly underneath the radiator then up behind it to reach the three terminal bus bar as shown. Using two of the plastic cable ties (item #2), loosely secure the red and black power cables to the frame and existing wiring. (See illustration 1-15). **Note, do not connect the winch cables to the busbar at this time.**

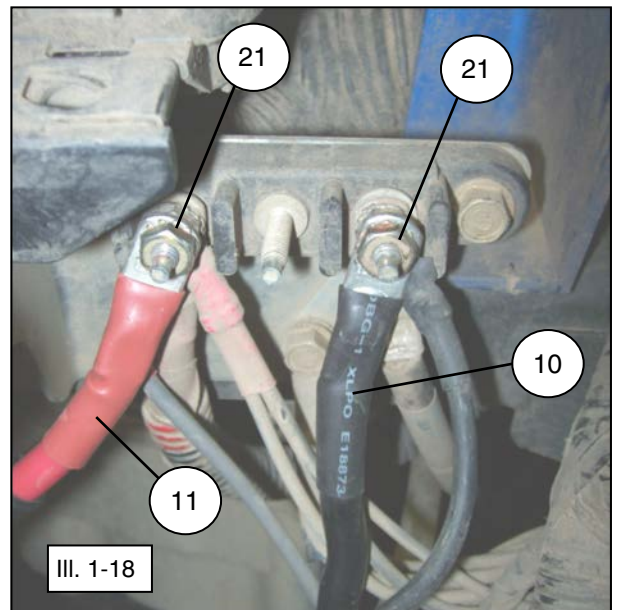
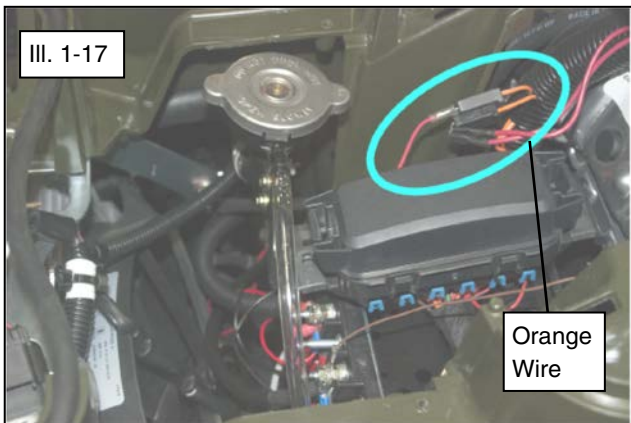


18. **For 2015 & Newer Vehicles:** Locate the white connector on the contactor and connect it to the corresponding connector on the vehicle harness as shown. (See illustration 1-16).




19. **For 2014 & Older Vehicles:** Route the supplied SPMN winch vehicle harness (item #20) from the head light pod down to winch, using same path behind radiator as the black and red winch power cables. Connect the white harness connector to the winch contactor connector. Route the red end (12V accessory power) of harness to busbar area and connect to orange wire on vehicle main harness as shown. Secure winch harness to vehicle using cable ties (item #2). (See illustration 1-17).

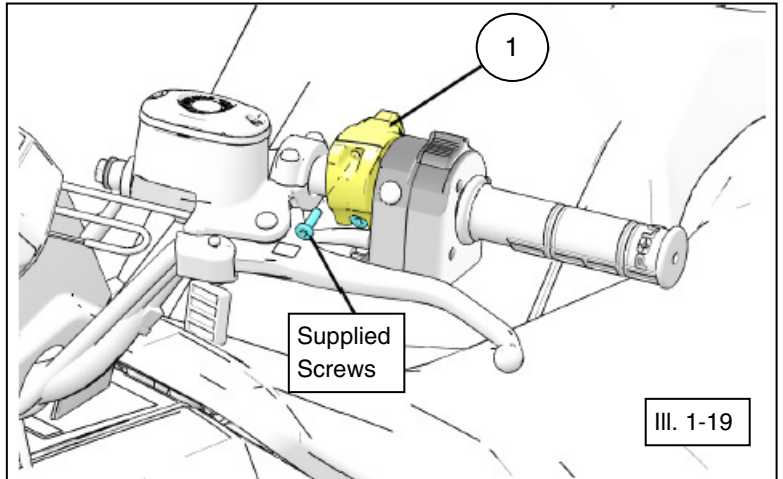
20. Now connect the vehicle battery red and black wires to the busbar terminals and fasten using existing nut. Then connect the winch power cables, red and black, (items #11 and #10) to the busbar terminal and fasten using supplied nut (item #21) as shown. (See illustration 1-18).



SPORTSMAN 450/570 HANDLEBAR SWITCH INSTALLATION:

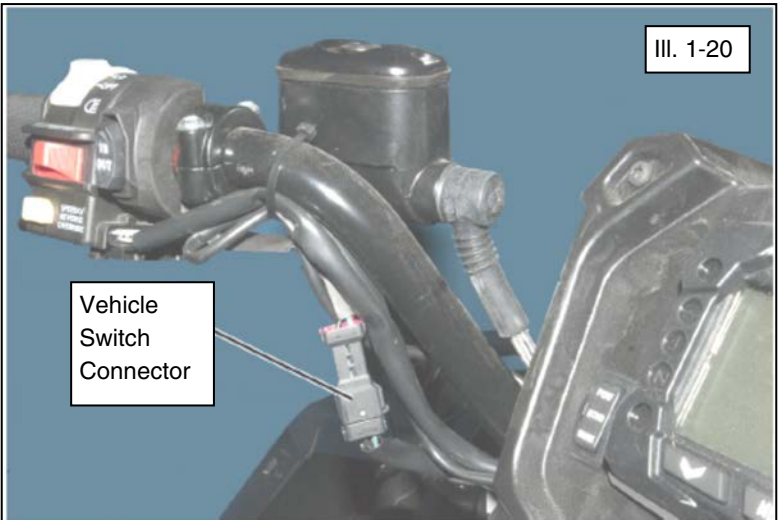
21. Install the handlebar switch (item #1) using the supplied screws onto the handlebar as shown. Torque screws to the specification listed, being careful not to overtighten. (See illustration 1-19).

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SWITCH SCREW FASTENER TORQUE: 2 ft. lbs. (2.7 Nm)



22. **For 2015 & Newer Vehicles:** Remove cap from vehicle switch connector. Then connect handlebar switch connector to the vehicle main wire harness as shown. (See illustration 1-20).

23. **For 2014 & Older Vehicles:** Route the supplied SPMN winch vehicle harness (item #20) up through the headlight pod towards left-hand grip area. Use cable tie (item #2) to secure switch connector end to handlebar as shown. Then connect handlebar switch connector to the winch harness as shown (See illustration 1-20).

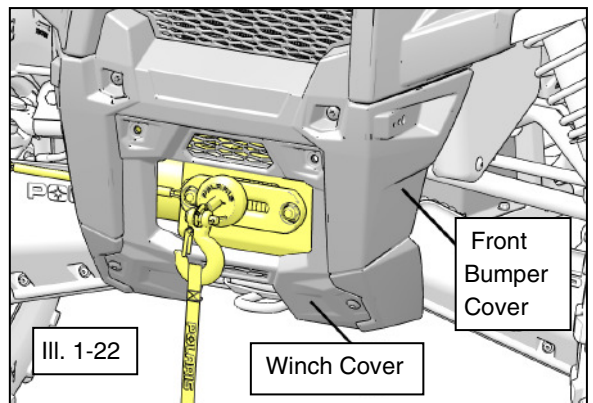
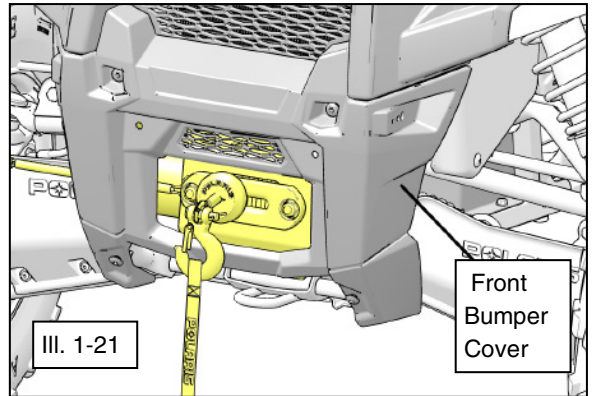


SPORTSMAN 450/570 FINAL INSPECTION:

- 24. Confirm that all wiring is correct.
- 25. Confirm that there are no exposed wires or terminals.
- 26. All loose wires need to be wrapped tight, and secured away from moving parts and heat sources.

SPORTSMAN 450/570 REINSTALLATION:

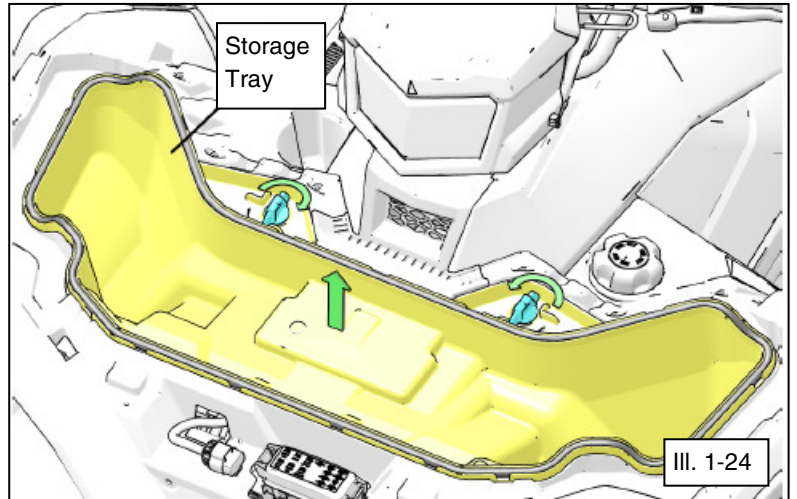
- 27. Reinstall the lower front bumper cover. If you plan to use a plow, do not reinstall winch cover. (See illustration 1-21).
- 28. If you do not plan to use a plow, reinstall winch cover. (See illustration 1-22).
- 29. Reinstall accessory brush guard (if equipped).
- 30. Reconnect battery red (positive) and black (negative) cables to battery terminals at this time.
- 31. Reinstall the front cover (under front rack) using retained screws.
- 32. Close front rack and secure in place with rubber latches.
- 33. With vehicle key in the ON position, check winch for proper operation.



SPORTSMAN XP 550/850/1000

PREPARATION:

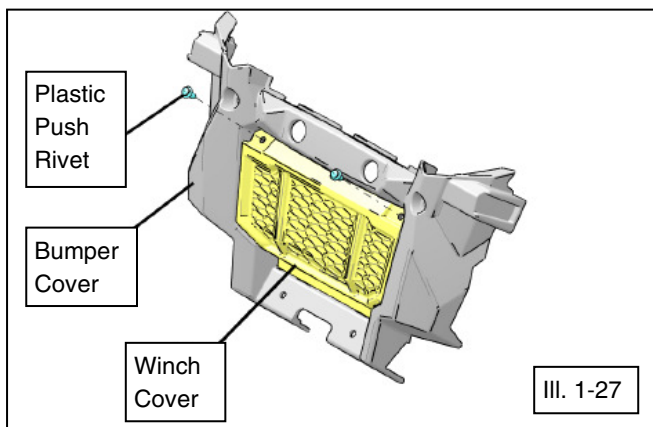
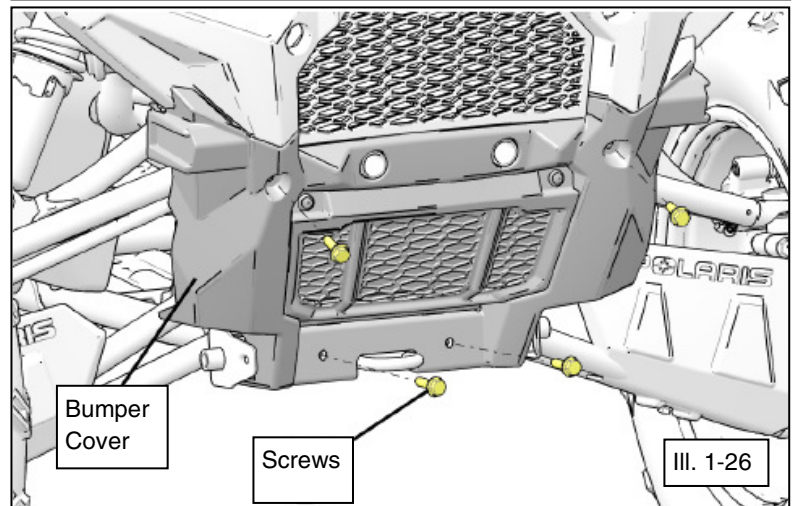
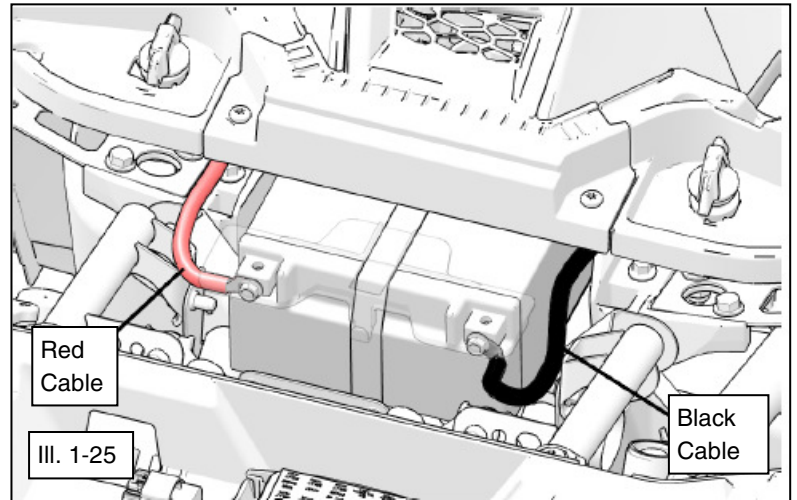
1. Shift vehicle transmission into "PARK". Turn key to "OFF" position and remove from vehicle.
2. Detach the rubber latch on both sides to open front rack.
3. Rotate/open two latches and remove storage tray from vehicle as shown. (See illustration 1-24).
4. Disconnect black (negative) and red (positive) cables from battery as shown. (See illustration 1-25).



⚠ WARNING ⚠

ALWAYS disconnect black negative (-) cable from battery **FIRST**. Failure to do so will result in high current electrical arc, and may result in battery explosion if tool touches grounded frame. Death or serious injury may occur.

5. Remove the accessory front brush guard from vehicle (if equipped).
6. Remove the lower front bumper cover by removing four bolts. Retain bolts for use during reinstallation as shown. (See illustration 1-26).
7. Remove the winch cover from the front lower bumper cover by removing two push pin rivets. The winch cover and push pin rivets will not be needed while the winch is installed on the vehicle as shown. (See illustration 1-27). **Note, your vehicle's factory tool kit contains a pliers specifically designed for the removal of push pin rivets.**



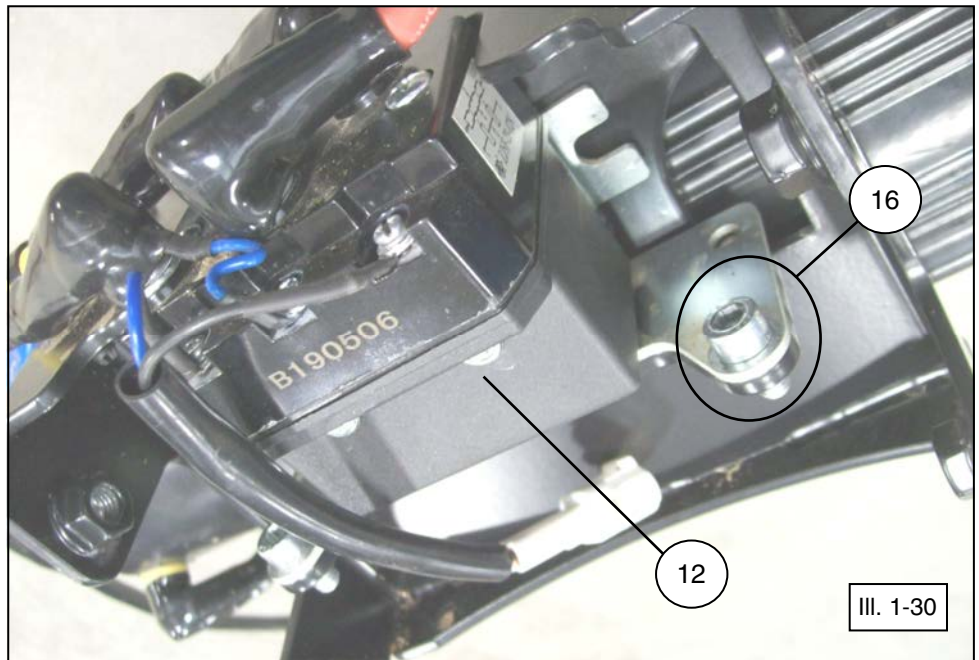
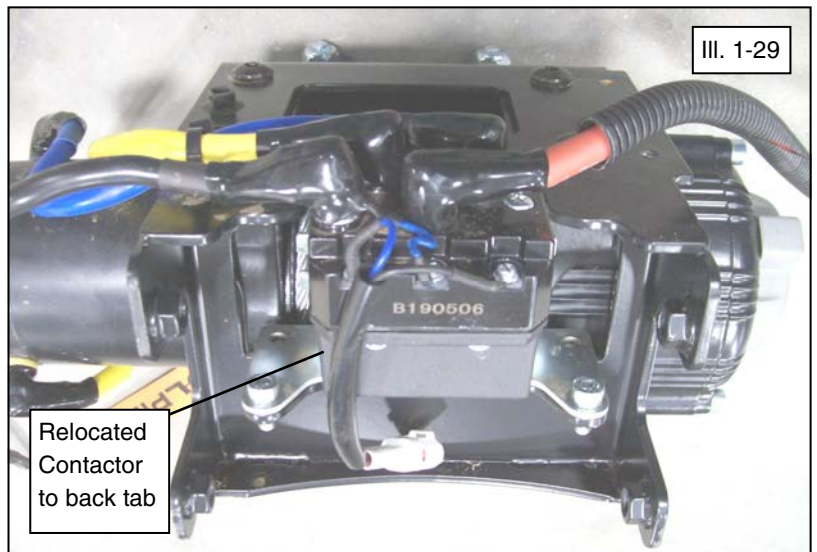
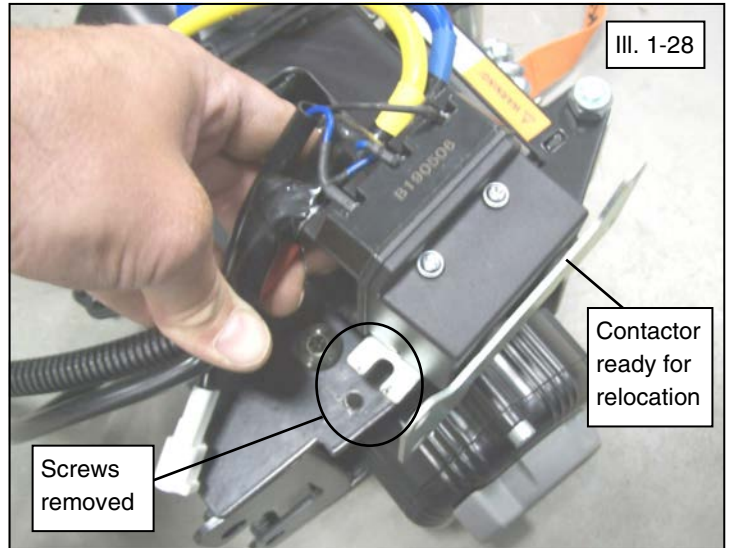
**SPORTSMAN XP 550/850/1000 PREPARATION
(continued):**


NOTE: Before installing the winch kit, add or replace the proper fluid to your front gearcase as required per your vehicles service manual as this process will be difficult to do after the winch is installed.

**SPORTSMAN XP 550/850/1000 WINCH
INSTALLATION:**

NOTE: See the *Electrical Connections Reference Guide* section of the instruction manual for detailed photos of each part and their respective connections.

8. Locate the red and black wires on winch assembly. If they are secured to blue cable with a plastic tie, cut the tie to allow the wires to be routed properly. (See illustration 1-11).
9. The 26-3100 / 26-3110 winch assembly contains the same parts to work on Sportsman 450/570 and Sportsman XP 550/850/1000. The winch pre-assembly will need the contactor to be relocated to fit on Sportsman XP 550/850/1000 vehicles. First loosen the red (item #11), black (item #10), blue (item #9) and yellow (item #8) connection cables from winch (item #5) and contactor (item #12). Then loosen and remove the M6 socket head cap screws (item #16) that secure contactor to mounting bracket (item #4) as shown. (See illustration 1-28).
10. Relocate the contactor to the back tab of the mounting bracket as shown. Secure the contactor to bracket using the two M6 socket head cap screws. (See illustrations 1-29 and 1-30).
11. Torque to M6 specification.



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6MM FASTENER TORQUE: 7 ft. lbs. (9.5 Nm)

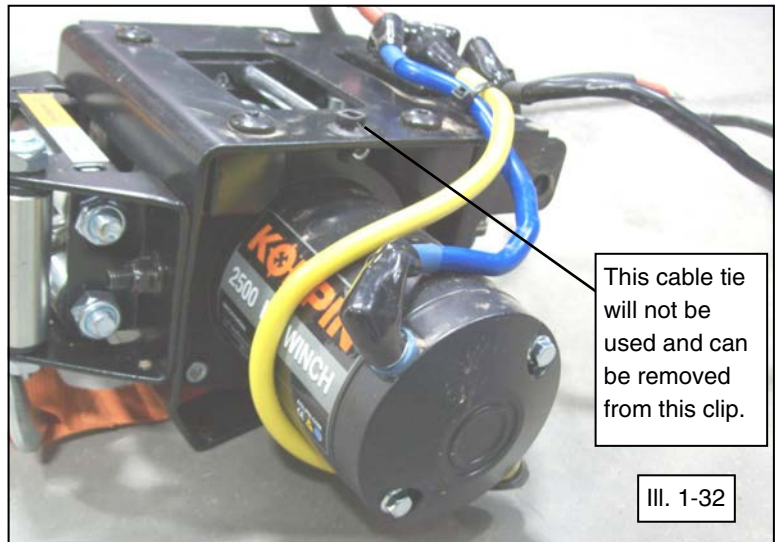
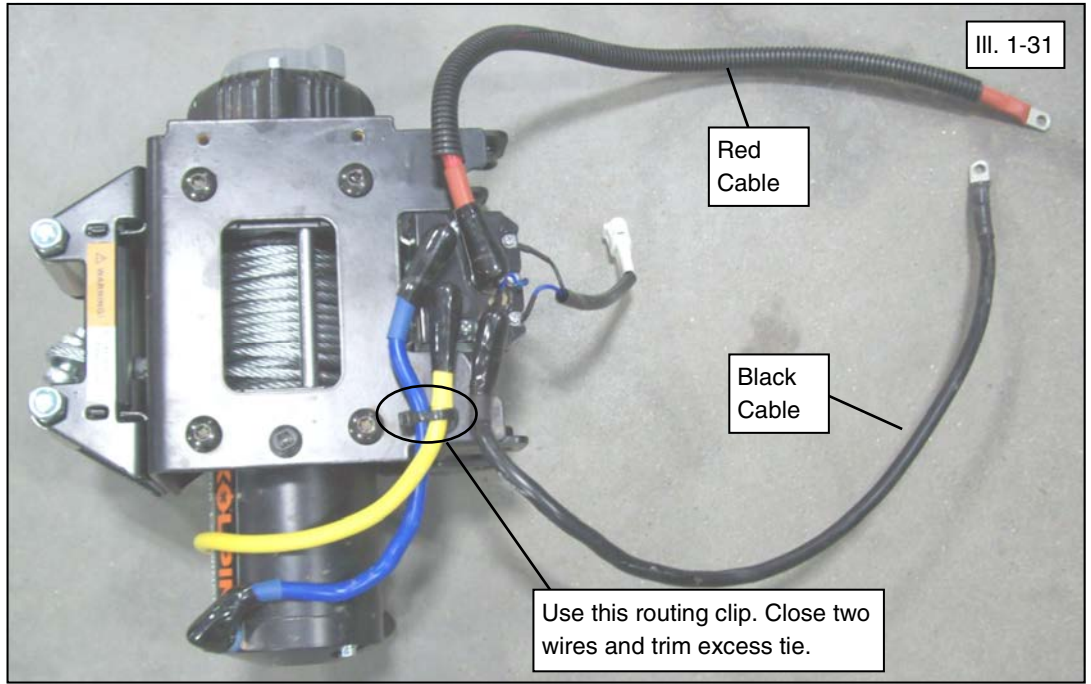
**SPORTSMAN XP
550/850/1000 WINCH
INSTALLATION
(continued):**


12. Check and confirm wire routing and connections are as shown and make necessary adjustments before moving to next installation steps. (See illustrations 1-31 and 1-32).

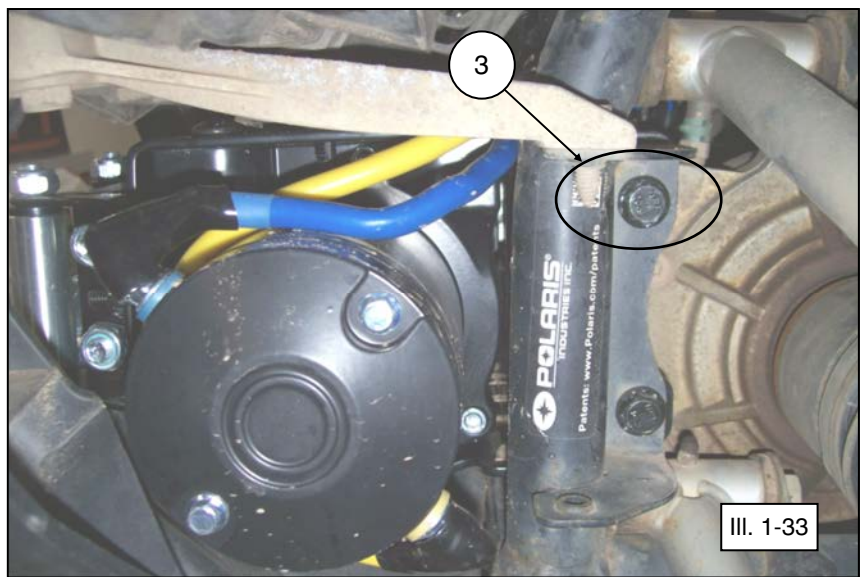
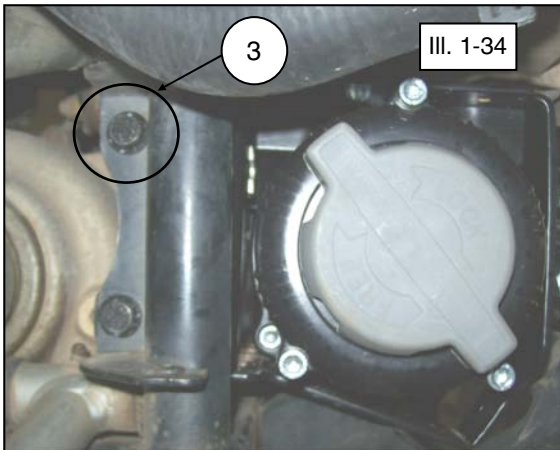
13. Install winch assembly onto the radiator mount with the four M8 hex flange screws (item #3).

Check that all wires are free to move and not pinched between the vehicle chassis and the winch assembly. Access is easier by inserting the black and red power cables first into window above front gearcase as, then position winch assembly into vehicle chassis as shown. (See illustrations 1-33 and 1-34).

14. Tighten the four M8 screws (item #3) to torque specification.



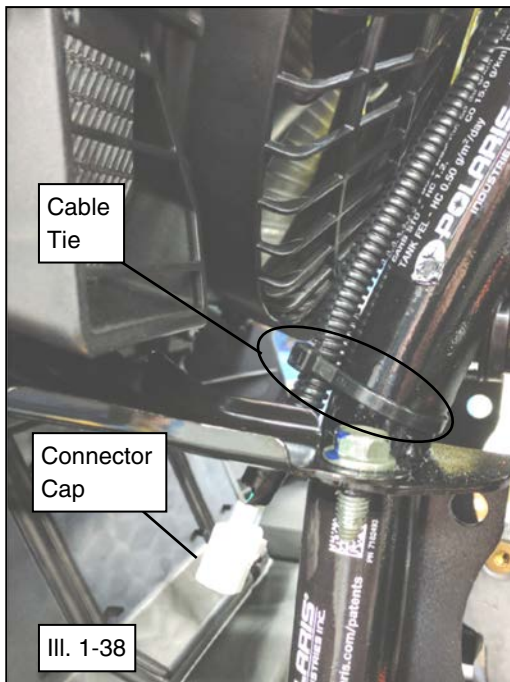
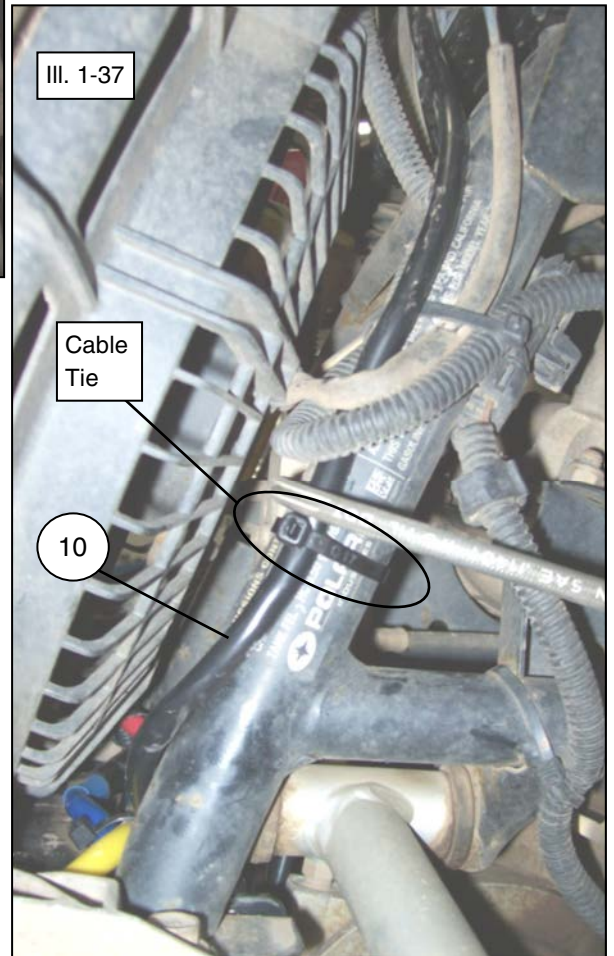
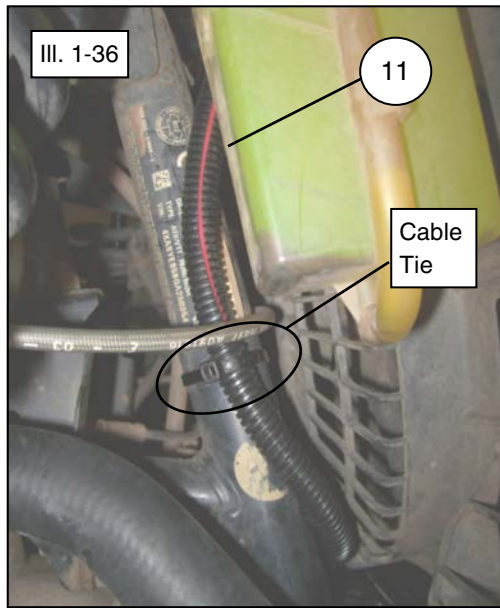
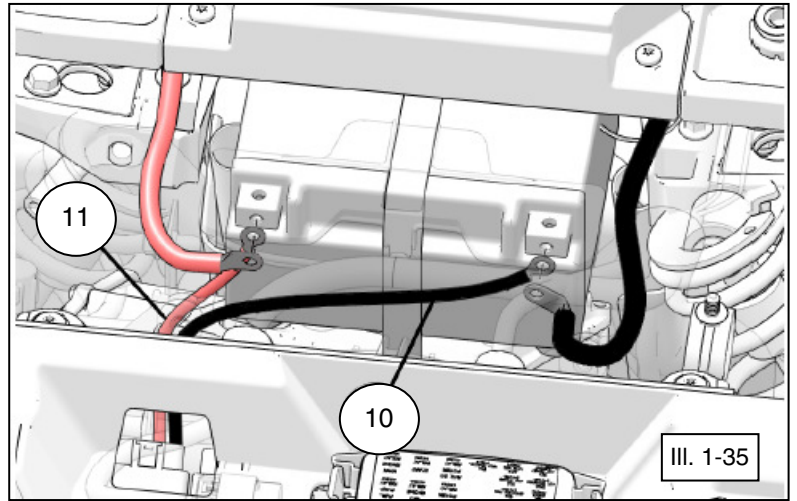
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8MM FASTENER TORQUE: 17 ft. lbs. (23 Nm)



SPORTSMAN XP 550/850/1000 WINCH INSTALLATION (continued):

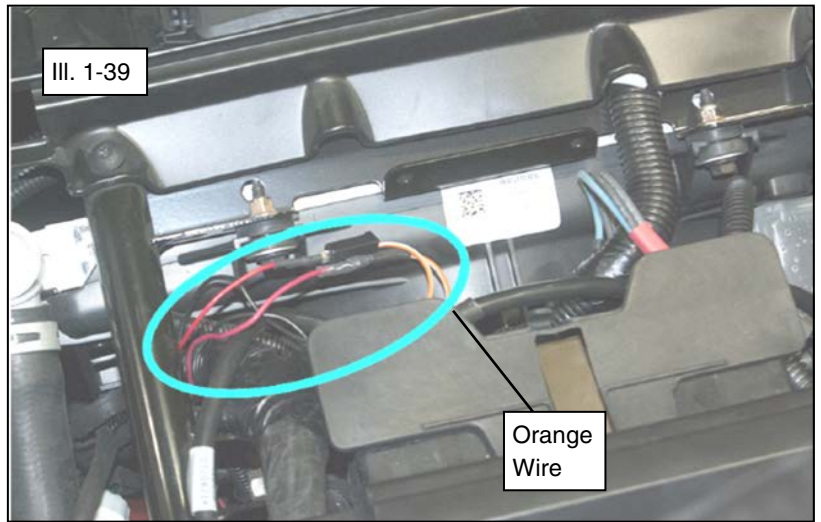
15. Route red positive (item #11) and black negative (item #10) power connection cables to the battery as shown. Attach cables to chassis frame at required locations using cable ties. (See illustrations 1-35, 1-36 and 1-37). **Note, do not connect the winch cables to the battery at this time.**

16. **For 2015 & Newer Vehicles:** On vehicle, locate white contactor connector on frame tube behind front left tire as shown. Remove cap from main harness connector and connect to the white contactor winch connection. (See illustration 1-38).



SPORTSMAN XP 550/850/1000 WINCH INSTALLATION (continued):

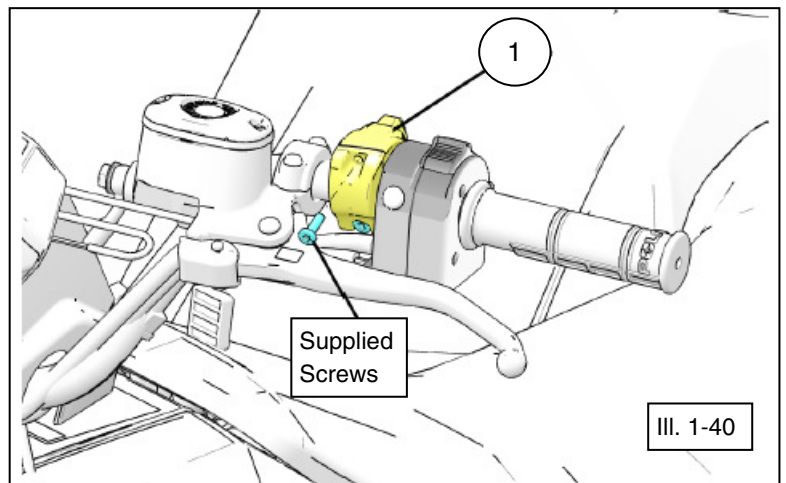
17. **For 2014 & Older Vehicles:** Route the supplied SPMN winch vehicle harness (item #20) from the head light pod down to winch, using same path along radiator as the black winch power cables. Connect the white harness connector to the winch contactor connector. Route the red end (12V accessory power) of harness to busbar area and connect to orange wire on vehicle main harness as shown. Secure winch harness to vehicle using cable ties (item #2). (See illustration 1-39).



SPORTSMAN XP 550/850/1000 HANDLEBAR SWITCH INSTALLATION:

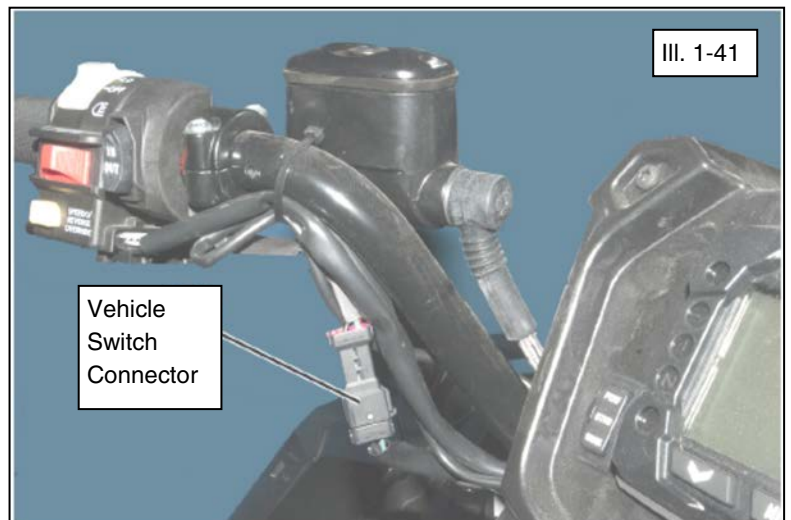
18. Install the handlebar switch (item #1) using the supplied screws onto the handlebar as shown. Torque screws to the specification listed, being careful not to overtighten. (See illustration 1-40).

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SWITCH SCREW FASTENER TORQUE: 2 ft. lbs. (2.7 Nm)



19. **For 2015 & Newer Vehicles:** Remove cap from vehicle switch connector. Then connect handlebar switch connector to the vehicle main wire harness as shown. (See illustration 1-41).

20. **For 2014 & Older Vehicles:** Route the supplied SPMN winch vehicle harness (item #20) up through the headlight pod towards left-hand grip area. Use cable tie (item #2) to secure switch connector end to handlebar as shown. Then connect handlebar switch connector to the winch harness as shown (See illustration 1-41).

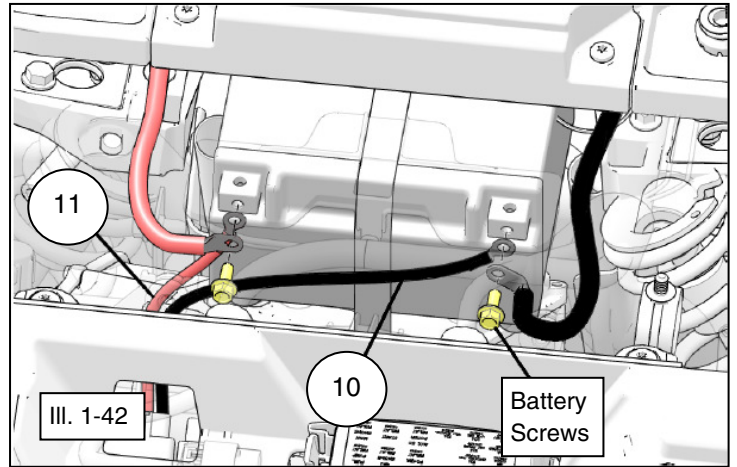


SPORTSMAN XP 550/850/1000 FINAL INSPECTION:

21. Confirm that all wiring is correct.
22. Confirm that there are no exposed wires or terminals.
23. All loose wires need to be wrapped tight, and secured away from moving parts and heat sources.

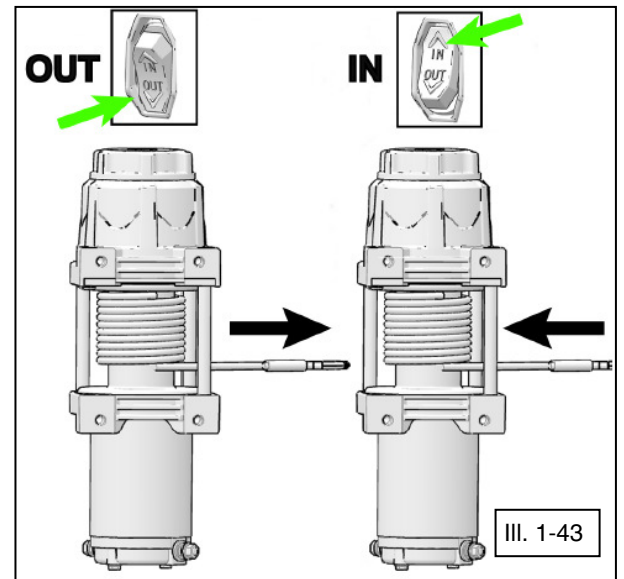
SPORTSMAN XP 550/850/1000 REINSTALLATION:

24. Reinstall the front bumper cover on vehicle using retained screws.
25. Reinstall accessory brush guard (if equipped).
26. Reinstall red and black cables to battery terminals along with winch power cables (items #10 and #11) using screws as shown. (See illustration 1-42).
27. Reinstall storage tray on the vehicle.
28. Close the front rack and secure in place with rubber latches.
29. With vehicle key in the ON position, check winch for proper operation.



HANDLEBAR SWITCH OPERATION:

When properly installed, the handlebar switch allows you to operate the winch while seated on the vehicle. Proper switch operation is shown. (See illustration 1-43).



For additional assistance, please contact Kolpin customer service department at (877) 956-5746 or (763) 478-5800 or email customerservice@kolpin.com

Five Year Mechanical Limited Warranty and Three Year Electrical Limited Warranty

For the period of five (5) years from the purchase date, Kolpin will replace for the original purchaser, free of charge, any mechanical part or mechanical parts found upon examination by Kolpin to be defective in material, workmanship, or both. For the period of three (3) years from the purchase date, Kolpin will replace for the original purchaser, free of charge, any electrical part or electrical parts found upon examination by Kolpin to be defective in material, workmanship, or both.

All transportation costs incurred submitting product to Kolpin for warranty consideration must be borne by the purchaser. If Kolpin determines that the product must be returned to the factory for credit, please call 1-877-956-5746 for a Return Merchandise Authorization (RMA) number and shipping instructions.

This warranty does not apply to parts that have been damaged by accident, alteration, abuse, improper maintenance, normal wear, or other causes beyond the manufacturer's control. In order to protect you and your ATV, certain parts of the winch/plow system and/or hardware are designed to fail when the equipment is over-stressed. Parts that are lost due to loosening and improper maintenance are not covered under warranty. This warranty does not cover removal or reinstallation labor fees of the winch/plow system and related components.

Peripheral products such as engines, electric motors, and actuators may carry an original manufacturer's warranty. Most hardware is general in nature and is easily obtained locally. Be sure to replace with minimum metric class 8.8 specification.

Kolpin Outdoors, Inc.

www.kolpin.com

TROUBLESHOOTING

If your winch is not functioning properly, below is a short guide that can help you diagnose and correct the problem.

Symptom	Possible Causes	Recommended Solution
Winch will not operate	Contactors not receiving power	Turn vehicle key on.
	Connections between components not in proper order	Check connections. Connect wired handlebar switch connection from vehicle main wire harness directly to contactor to make sure a direct connection will operate the winch. If connections are not in the order shown in the pictures in the last page, the whole system may not function or only certain parts of it will function.
	Loose battery cable connections	Tighten nuts on all cable connections.
	Keyed power circuit (orange wires) not properly powered	Check fusebox for 10A accessory circuit. Check voltage in certain places, especially orange wires coming out of the main harness by the steering post.
	Contactors malfunctioning	Tap contactor to loosen contacts. Apply 12 volts to coil terminals directly. A clicking indicates proper activation.
	Defective switch assembly	Replace switch assembly.
	Defective motor	Check for voltage at armature port with switch pressed. If voltage is present, replace winch assembly.
	Nested and bounded cable within winch assembly	Move free spool knob to the "free spool" position. Manually pull cable out of winch until end is met and then re-spool cable back into winch.
	Water has entered motor	Allow to drain and dry. Run in short bursts without load until completely dry.
Winch makes noise but rope does not move	Contactors powered, but not winch	If you can hear a clicking sound when you press the winch control but the winch does not make any sounds, check the connections between the winch and the contactor.
	Winch not in proper gear	Move free spool knob to the "locked spool" position, then recheck. If problem persists, a qualified technician needs to check and repair.
Winch operates too slowly	Winch improperly loaded	Check that the winch is clear and the rope is not bound up and
	Insufficient current or voltage	The battery is weak, recharge. Run winch with vehicle motor running (battery should have a strong charge).
	Loose or corroded battery cable connections	Clean, tighten, or replace.
Winch overheating	Winch running time too long	Allow winch to cool down periodically.
Winch operates in one direction only	Defective or stuck contactor	Tap contactor to loosen contacts.
		Repair or replace contactor.
	Defective switch assembly	Replace switch assembly.
	Defective brake assembly	Replace winch assembly.

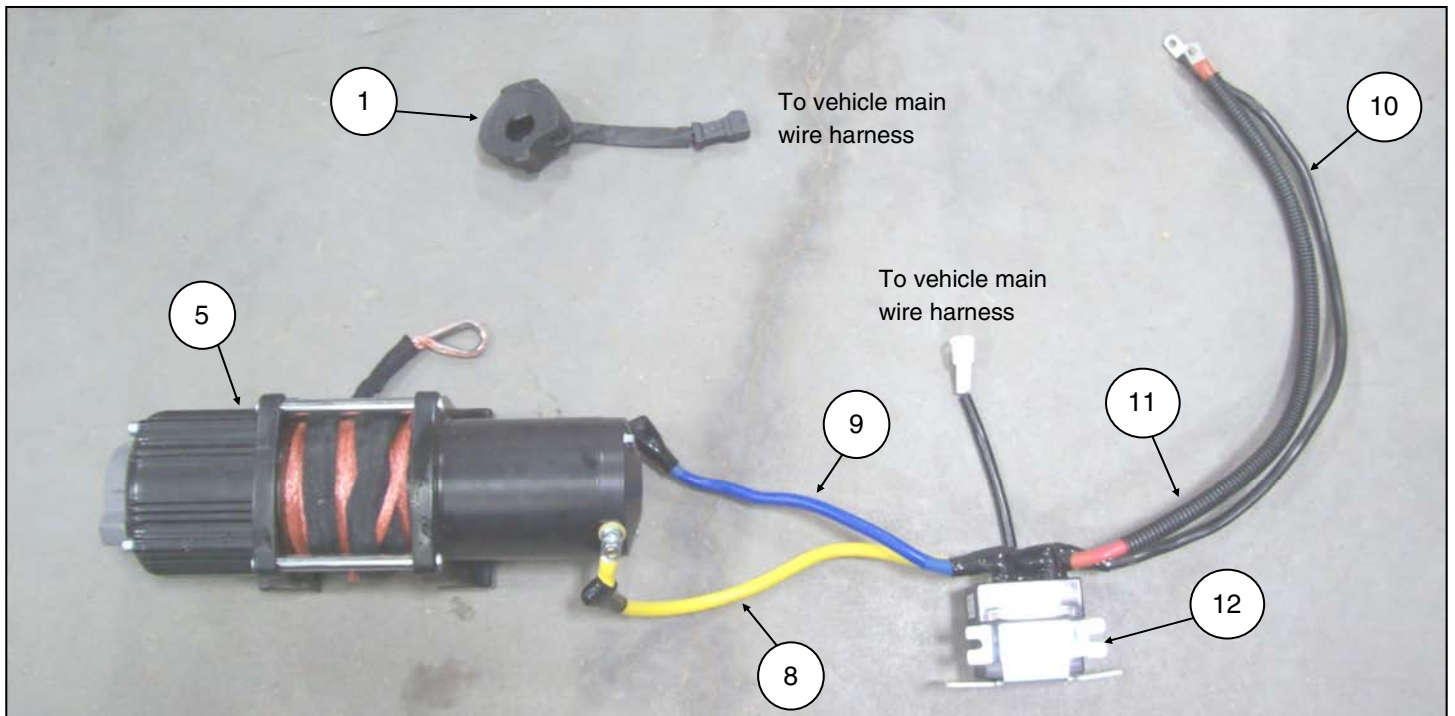
Note: If any hardware is missing, do not return to the store. Call us to help, Toll Free 1-877-956-5746.

NOTE

For further technical support, contact our help line at 1-877-956-5746.

ELECTRICAL CONNECTION REFERENCE GUIDE:

Winch with Roller Fairlead and Handlebar Switch



Winch with SPMN Winch Vehicle Harness, Roller Fairlead and Handlebar Switch

