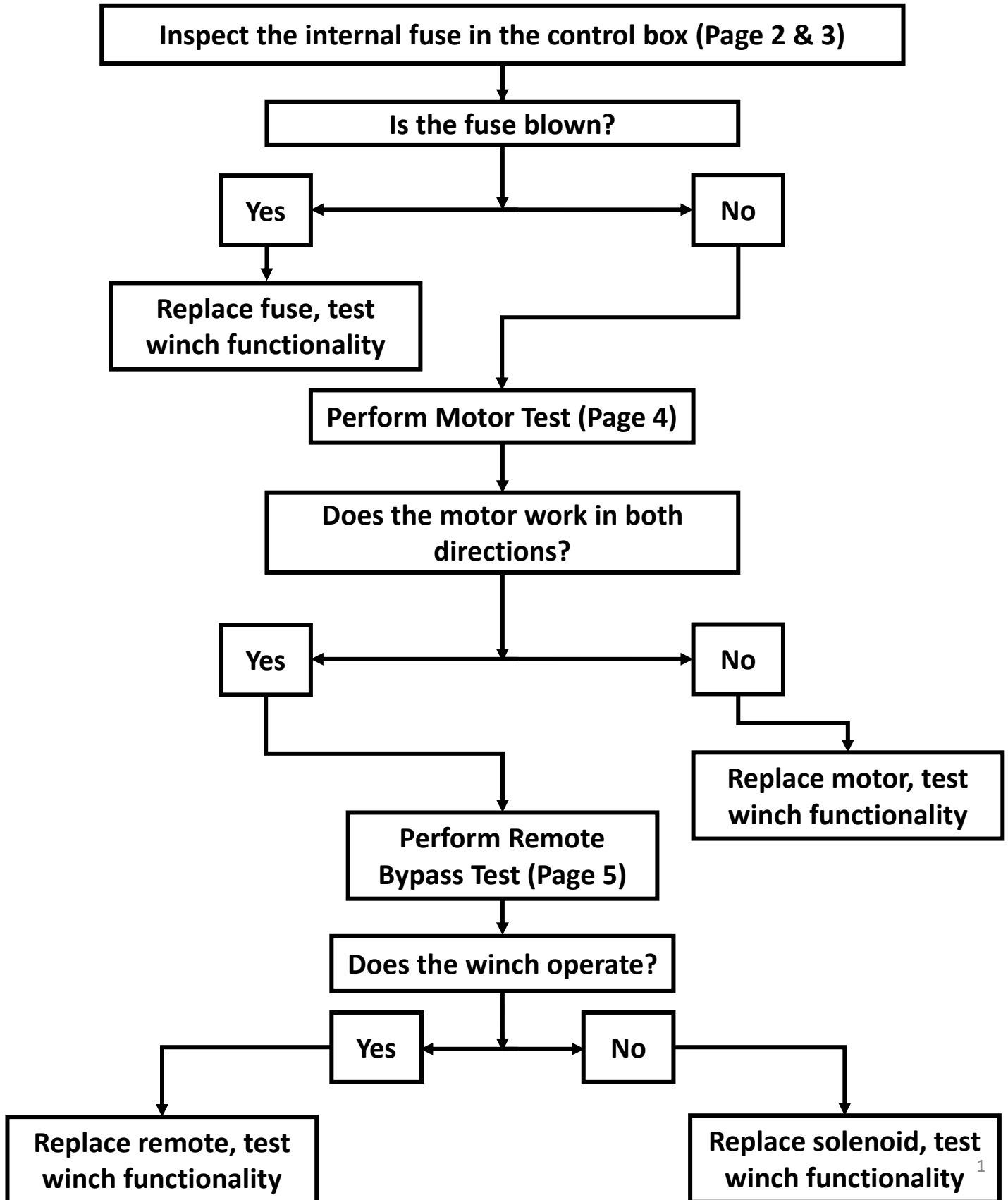




XRC Gen 2 Winch Diagnosis Flowchart

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XRC Gen 2 Winch Glass Fuse Replacement

Winches made prior to 2018 will have a glass style fuse

Step 1: Carefully remove the control box cover bolts using a hex key.

Note: There is a connection to the remote socket that will need to be removed before the cover can be fully removed. Do not pull too hard on the cover. **(Figure A)**

Step 2: Carefully unclip the quick disconnect on the remote socket connector. This connector can be seen in **(Figure B)**

Step 3: Remove the fuse by unscrewing the two halves of the fuse holder. Remove the fuse and inspect to see if the fuse is blown. **(Figure C)**

If the fuse is blown, replace it with the following type of fuse:
5mmx20mm 2-Amp time-delay fuse.
(Do not use a fast-acting fuse)

Once the fuse is replaced. Carefully reassembly the control box and test the winch.

Note: If the fuse is not blown reach back out to Smittybilt Tech Support.

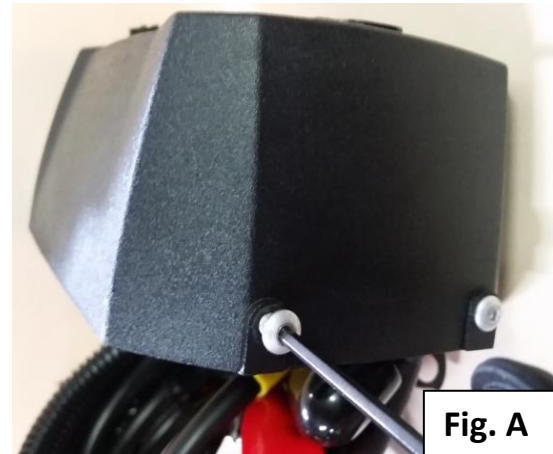


Fig. A

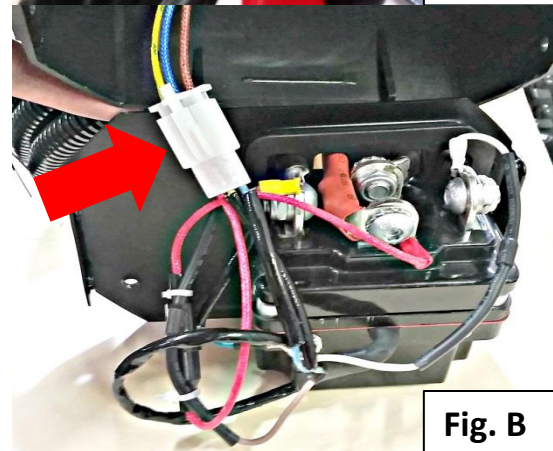


Fig. B

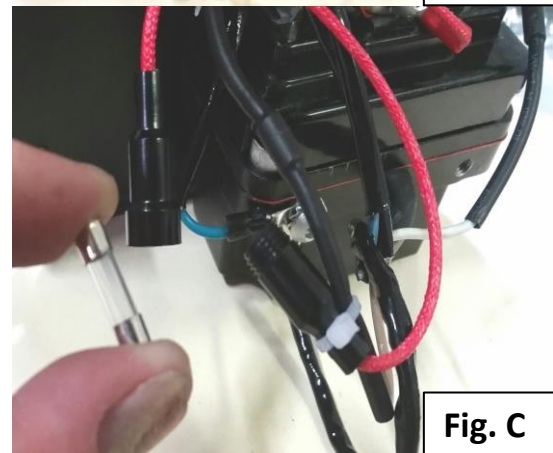


Fig. C

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XRC Gen 2 Winch Blade Fuse Replacement

Winches made 2018-present will have a blade style fuse

Step 1: Carefully remove the control box cover bolts using a hex key.

Note: There is a connection to the remote socket that will need to be removed before the cover can be fully removed. Do not pull too hard on the cover. **(Figure A)**

Step 2: Carefully unclip the quick disconnect on the remote socket connector. This connector can be seen in **(Figure B)**

Step 3: Remove the fuse by unscrewing the two halves of the fuse holder. Remove the fuse and inspect to see if the fuse is blown. **(Figure C)**

If the fuse is blown, replace it with the following type of fuse:
5mmx20mm 2-Amp time-delay fuse.
(Do not use a fast-acting fuse)

Once the fuse is replaced. Carefully reassembly the control box and test the winch.

Note: If the fuse is not blown reach back out to Smittybilt Tech Support.

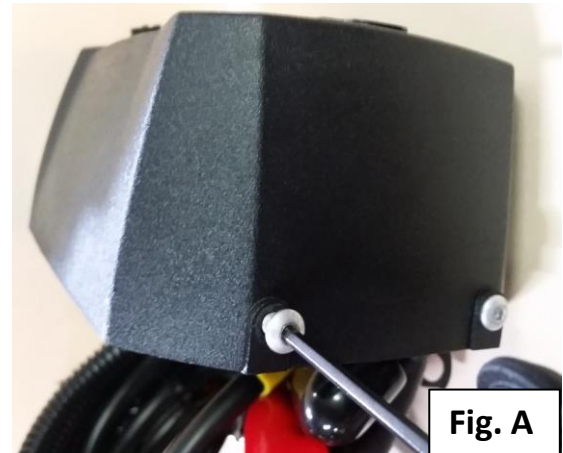


Fig. A

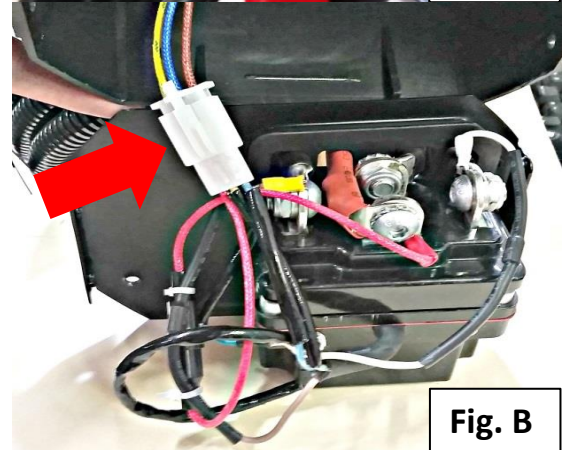


Fig. B

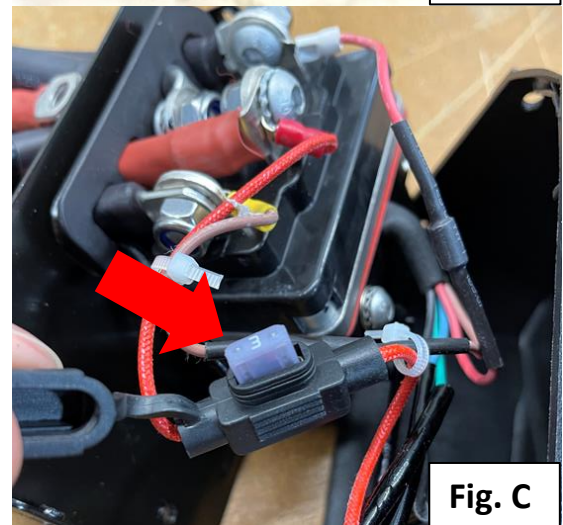


Fig. C

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XRC Gen 2 Winch Motor Test

Winch Motor Testing

1. Put gearbox lever into free spool position.
2. Disconnect positive lead from the battery. Leave ground cable connected to motor (terminal A) & battery (long black cable).
3. The three post on the motor are color coded (**RED** (B), **YELLOW** (C), and **BLACK**(D))

You MUST disconnect all 3 cables from the motor prior to beginning this test. Run a jumper wire from the YELLOW terminal to the RED terminal. Use a jumper cable from the POSITIVE terminal on your charged battery and tap it on the BLACK terminal. Winch motor should run in one direction.

4. Remove the jumper wire from the YELLOW terminal and attach it to the BLACK terminal. Use a jumper cable from the POSITIVE terminal on your charged battery and tap it on the YELLOW terminal. Winch motor should run in the opposite direction.

If these steps are followed correctly and the motor runs in both directions, then the motor is GOOD. If not, the motor must be replaced.



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XRC Gen 2 Winch Remote Bypass Test

Remote Bypass Test

1. Using a suitable jumper wire, test the 'OUT' functionality by jumping **Pin #1** to **Pin #2**. **Note: The pins in the socket are numbered. As shown in (Fig. A)**
2. To test the 'IN' functionality, using a suitable jumper wire, jump **Pin #1** to **Pin #4**

Plug socket on control box. Notice the numbered pins.

1. Red (+)
2. Blue (OUT)
3. Not used
4. White (IN)
5. Not used

Always use a suitable jumper wire when performing this test. A piece of insulated wire that is stripped on both side is recommended.

To rule out the socket you can bypass the remote circuitry by testing right at the solenoid. Using a suitable jumper wire, you can attempt to jump power from the red wire to green wire or blue wire momentarily to see if it triggers the solenoid. If not, the solenoid can be assumed bad. (Fig. B)

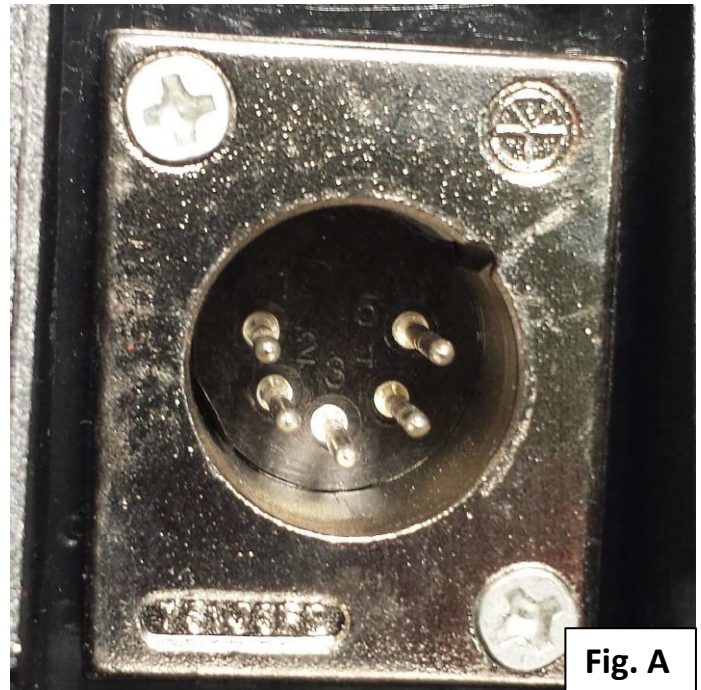


Fig. A

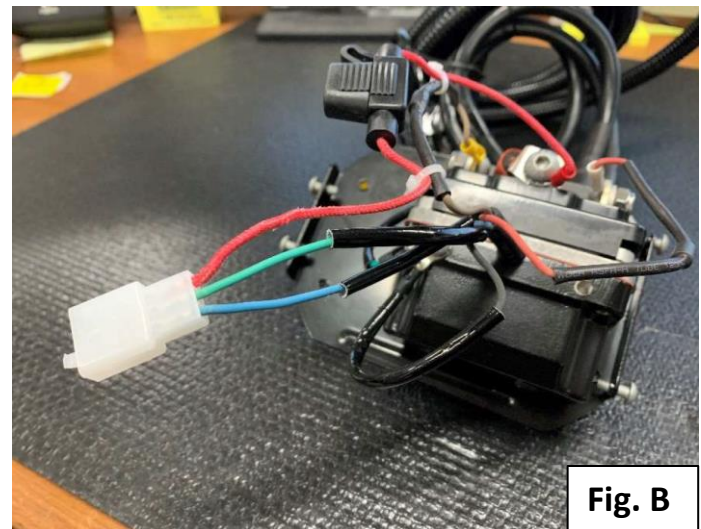


Fig. B

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**XRC Gen 2 Winch
Replacement Part Guide**

Replacement Part Guide

Depending on the results of your testing you may or may not need replacement parts. Please contact Technical Support with any questions. These part numbers are for reference, if you are still within your warranty period and can provide the necessary documentation, you do NOT need to purchase these parts. If you can provide Smittybilt Tech Support with a proof of purchase, you are covered under a 3-Year electrical warranty and a limited-lifetime mechanical warranty. For more information see Page 7 for warranty information.

S/B97495 (9.5K)

Part Description	Part Number
Remote	97495-50
Solenoid	97495-52
Motor	97495-57
Remote Socket	97495-59

S/B97412 (12K)

Part Description	Part Number
Remote	97495-50
Solenoid	97495-52
Motor	97412-57
Remote Socket	97495-59

S/B97415 (15K)

Part Description	Part Number
Remote	97495-50
Solenoid	97495-52
Motor	97415-57
Remote Socket	97495-59

S/B97417 (17K)

Part Description	Part Number
Remote	97495-50
Solenoid	97495-52
Motor	97417-57
Remote Socket	97495-59

Fuse Type	Part Number
Glass Tube Fuse	97495-72
Blade Fuse	97495-73

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XRC Gen 2 Winch Winch Warranty Policy

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SMITTYBILT ADVANTAGE WARRANTY

LIMITED LIFETIME WARRANTY FOR MECHANICAL COMPONENTS

LIMITED 3-YEAR WARRANTY FOR ELECTRICAL COMPONENTS

Smittybilt Automotive Products, LLC (SAP) warrants to the original purchaser that (a) the mechanical components (e.g., gears, clutch, spool, etc.) of any SAP winch will be free of defects in material and workmanship for the lifetime of the winch, and (b) the electrical components (e.g., electric motor, wires, solenoid, etc.) will be free of defects in material and workmanship for a period of 3-years from the original date of purchase. This warranty applies only to the original purchase of the winch and is non-transferable. To obtain any warranty service, you must provide SAP with a proof of purchase and date of purchase that is acceptable to SAP, such as a copy of your purchase receipt.

This warranty does not cover the removal or reinstallation of the winch and/or labor. SAP will, at its sole discretion, provide replacement part(s) for a defective winch or component, provided this is done within the warranty period. To request assistance under warranty, one must call or email using the phone number or email at the bottom of this page. This warranty does not apply (1) to finish, paint, or synthetic rope; (2) if the winch has been damaged by accident, abuse, misuse, collision, overloading, modification, misapplication, improper installation, or improper service; or (3) any normally wearable part such as, but not limited to, the brake assembly. This warranty is void if any SAP serial number has been removed or defaced; or if the winch is used for any commercial, industrial, or rental applications. This warranty only applies to winches bought, sold, and used within the United States unless otherwise specifically agreed in writing by SAP.

THE WARRANTY SET FORTH ABOVE IS THE ONLY WARRANTY. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ANY IMPLIED WARRANTY WHICH BY LAW MAY NOT BE EXCLUDED IS LIMITED TO A DURATION OF ONE (1) YEAR FROM THE DATE OF ORIGINAL RETAIL PURCHASE OF THE PRODUCT. No SAP dealer, agent, or employee is authorized to make any modification, extension or addition to this warranty. SAP SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, DOWN TIME OR LOSS OF USE) UNDER ANY LEGAL THEORY, EVEN IF SAP WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some states do not allow the exclusion of implied warranties or the exclusion or limitation of liability for incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights. You may also have other rights that vary from state to state. SAP reserves the right to change product design without notice. In situations in which SAP has changed a product design, SAP shall have no obligation to upgrade or otherwise modify previously manufactured products. For warranty inquiries contact SAP at:

Smittybilt Automotive Products, LLC
Customer Service Department
Call 1-800-776-0767 or Email info@smittybilt.com

For Technical Support/Warranty Information please call 1-800-776-0767

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