

## INSTALLATION INSTRUCTIONS

**⚠ WARNING** When upgrading from wire to synthetic winch rope, a WARN Hawse Fairlead is necessary and you must use the 5/16" anchor puck supplied in your synthetic rope kit (sizes vary).

**⚠ NOTICE** Any wire rope damage on drum may be smoothed with fine emery paper.

### Zeon Synthetic Series Rope Installation:

THE FOLLOWING STEPS ARE VERY IMPORTANT AND IF NOT PRECISELY FOLLOWED THE LIFE OF THE WINCH AND WINCH ROPE MAY BE COMPROMISED.

Things You Will Need:

- WARN® Synthetic Winch Rope
- Abrasion Sleeve
- Zip Tie
- 5/16" Anchor Puck
- Gloves
- WARN® Hawse Fairlead (if replacing wire rope)

**⚠ WARNING** MOVING PARTS ENTANGLEMENT HAZARD. Failure to observe these instructions could lead to serious injury or death.

**⚠ WARNING** Always Know Your Winch. Take time to fully read the Instructions and/or Operations Guide, and/or Basic Guide to Winching Techniques, in order to understand your winch and its operations.

**⚠ WARNING** Always position fairlead with warning readily visible on top.

**⚠ CAUTION** Always wear heavy leather gloves when handling winch rope.

**⚠ WARNING** Always replace the WARN Fairlead if damaged or abused.

For synthetic winch rope applications, you must have a Hawse Fairlead mounted to your winch. For optimal performance, a WARN Hawse Fairlead is strongly recommended. If you need to purchase a new WARN Hawse Fairlead, contact your WARN product dealer.

1. Disconnect the negative cable from the battery that is used to power the winch.

**⚠ WARNING** Never bend rope around unprotected, sharp corners.

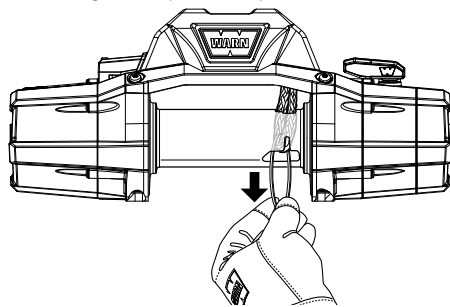
**⚠ WARNING** Never use rope over a rough surface without abrasion protection.

2. Slide the abrasion sleeve over the rope from the end opposite the hook. Slide the sleeve back to the hook end of the rope.

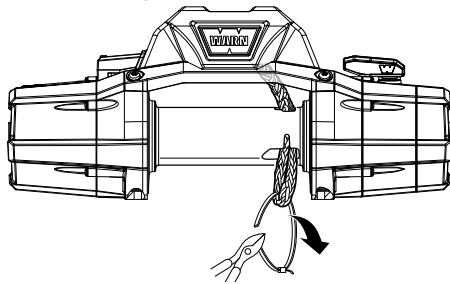
3. Insert the synthetic rope through the fairlead and around the winch drum from the bottom.



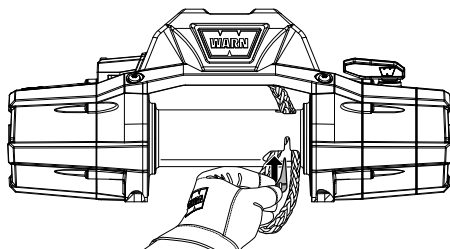
4. Before installing the synthetic rope, a loop must be made using the supplied zip tie.
5. Use the cable tie to pull the synthetic rope through the rope anchor pocket.



6. Once the rope has been pulled through, cut and discard the zip tie while being careful not to harm the rope.

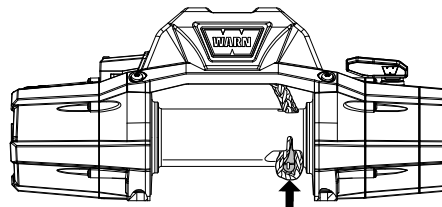


7. Install the 5/16" rope puck in the center of the rope eyelet.

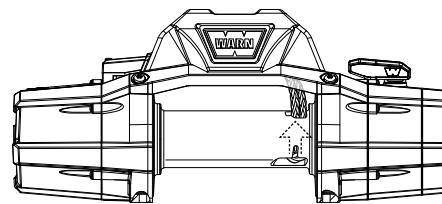


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8. Keep the puck in place while slowly pulling the rope away from the drum. Once the puck is seated against the rope on all sides, pull the rope away from the drum until the puck lodges with the rope into position.



9. Ensure the loop does not protrude from the drum surface and that the rope is held into place tightly.



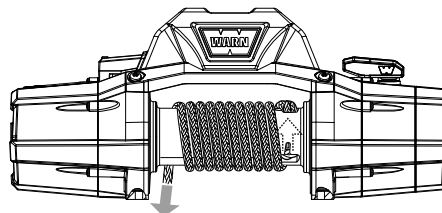
10. Reconnect negative cable to the battery that is used to power the winch.

**⚠ WARNING** Always wind the winch rope on bottom (mount side) of drum.

**⚠ WARNING** Never operate winch with less than 10 wraps of winch rope around the drum. Rope could come loose from the drum, as the winch rope attachment to the drum is not designed to hold a load.

**⚠ WARNING** Never touch winch rope or hook while someone else is at the control switch or during winching operation.

11. Turn the clutch lever on the winch to the "Engaged" position.
12. Wind 10 wraps of rope onto the drum while applying light tension on the rope.



Proceed to the 'Rope Spooling Instructions' section of this document.

## SPooling INSTRUCTIONS

### Rope Spooling Instructions:

THE FOLLOWING STEPS ARE VERY IMPORTANT AND IF NOT PRECISELY FOLLOWED THE LIFE OF THE WINCH AND ROPE MAY BE COMPROMISED.

**⚠ WARNING** Always keep hands clear of winch rope, hook loop, hook and fairlead opening during installation, operation, and when spooling in or out.

**⚠ WARNING** Never operate winch with less than 10 wraps of winch rope around the drum. Rope could come loose from the drum, as the winch rope attachment to the drum is not designed to hold a load.

**⚠ WARNING** Never touch winch rope or hook while someone else is at the control switch or during winching operation.

**⚠ WARNING** Always wear heavy leather gloves when handling winch rope.

**⚠ WARNING** Always wind the winch rope on the bottom (mount side) of the drum.

1. It is now necessary to spool the remaining rope onto the winch drum. Choose a FLAT AND LEVEL location that is large enough to run out the entire length of rope.
2. Ensure the rope is completely spooled out except for at least 10 wraps on the drum. Then turn the clutch lever on the winch to the "Engaged" position.

**⚠ WARNING** Always use supplied hook strap whenever spooling winch rope in or out, during installation and during operation.

3. Attach the hook end of the rope to a suitable anchor point and back the vehicle away from the anchor point leaving approximately 6 ft. (2 m) of slack rope lying on the ground. Before getting out of the vehicle, set the parking brake, place the vehicle in gear or park and turn the vehicle off.
4. Connect the remote control to the winch. Standing approximately 8 ft. (2.5 m) away from the winch, power-in the winch until all of the slack is wound onto the winch drum. **WARNING! Always wind the winch rope on the bottom (mount side) of the drum.** Disconnect the remote control from the winch. Hold tension on the rope with one hand; carefully push the rope to the side of the drum the rope is attached to so there are no gaps between each coil on the drum. Be sure to check that the rope is winding off of the bottom of the drum, not the top, or the automatic load holding brake will not function properly. (If the

rope is winding off the top you have powered the winch "out" instead of "in" on the remote control)

5. If there is still rope laying on the ground, back the vehicle away until the rope is off of the ground.

**⚠ WARNING** Never touch winch rope or hook while someone else is at the control switch or during winching operation.

**⚠ WARNING** Never touch winch rope or hook while under tension or under load.

**⚠ WARNING** Always stand clear of winch rope and load and keep others away while winching.

6. The following steps should be done using two people for proper safety. If you attempt to tension your rope alone be sure to always engage the parking brake, place the transmission in gear and turn the vehicle off every time you exit the vehicle to inspect the winch rope. Never exit the vehicle with a load on the winch rope.
7. Use care to evenly wrap each layer to prevent damage to the rope. Tensioning the rope is critical to ensure a long product life. Tensioning the rope prevents the rope from sinking into the lower layers under load.
8. Pass the remote control through the driver's window for the driver of the vehicle to operate. Instruct your assistant to stand to the side of the vehicle and away from the winch rope. Your assistant should signal you if the rope is winding correctly by watching it move across the fairlead as the rope is powered in. Start the vehicle and place the transmission in neutral. Release the parking brake while applying moderate brake pedal pressure. Power the winch remote in. After winching in for approximately 6 ft. (2 m), stop winching. Slowly let up off of the brake pedal and then apply the parking brake. This will ensure that there is no load on the winch rope. Then place the transmission in park or gear and turn the vehicle off. Exit the vehicle and inspect the winch rope is being evenly wound onto the winch drum and not sinking into the lower layer. If the rope is sinking, power the rope out and repeat this step from the beginning with more brake pedal pressure.
9. Once you are convinced the rope is winding on the winch properly, repeat step 6 until the vehicle is within 6 ft. (2 m) of the winch anchor. Once within 6 ft. (2 m), slowly let up off of

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the brake pedal and then apply the parking brake. This will ensure that there is no load on the winch rope. Then place the transmission in park or in gear and turn the vehicle off. Exit the vehicle and inspect the winch rope is being evenly wound onto the winch drum. Disconnect the hook from the anchor. While holding onto the supplied hook strap, hold tension on the winch rope and slowly power-in the winch by "pulsing" the power-in on the remote control until the hook is within 3 ft. (1 m) of the fairlead. Stop winching in and attach the hook to a suitable anchor point on the vehicle. **DO NOT POWER THE HOOK INTO THE FAIRLEAD.** This would cause irreparable damage to the fairlead. Once the hook is suitably attached to the vehicle, power in the remaining slack in the winch rope by "pulsing" the power-in on the remote until there is minimal slack in the winch rope.

Proceed to the "Maintenance and Care Instructions" in this booklet.