

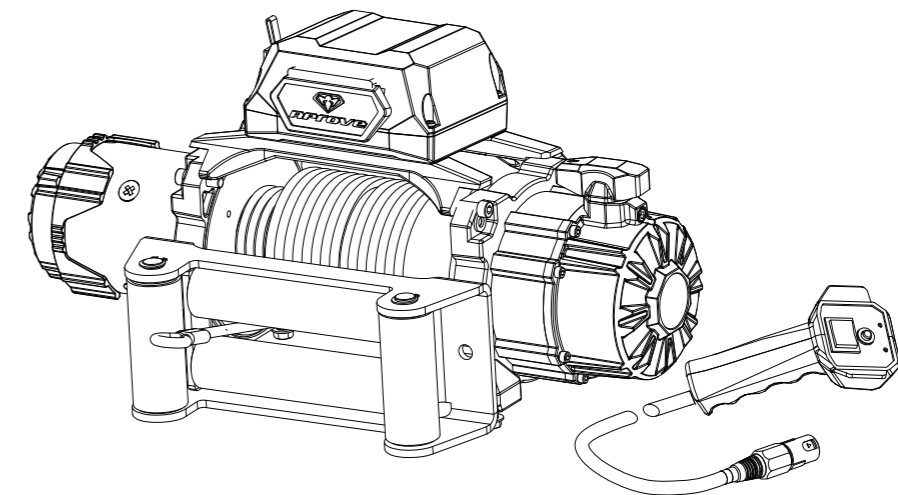


**APROVE**

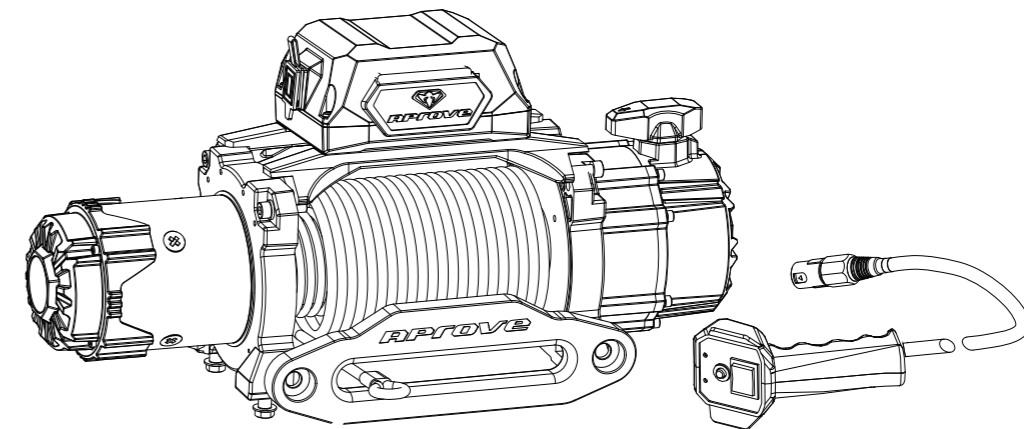
INSTRUCTION MANUAL

# 9500/12000 LBS. WINCH

MODEL: D9500SC / D9500SR / D9500SRD  
D12000SC / D12000SR / D12000SRD



9500/12000 LBS. D9500SC / D12000SC



9500/12000 LBS. D9500SR / D12000SR D9500SRD / D12000SRD



As you read these instructions, you will see WARNINGS and CAUTIONS. Each message has a specific purpose. WARNINGS and CAUTIONS identify the hazard, indicate how to avoid the hazard and advise of the probable consequence of not avoiding the hazard. PLEASE WORK SAFELY!



WARNINGS are safety messages that indicate a potentially hazardous situation, which if not avoided, can result in serious injuries or death.

CAUTIONS are safety messages that indicate a potentially hazardous situations, which if not avoided, may result in minor or moderate injury. A CAUTION may also be used to alert against unsafe practice.

## GENERAL SAFETY PRECAUTIONS

### ⚠ WARNING!

#### MOVING PART HAZARDS TO PREVENT SERIOUS INJURY AND PROPERTY DAMAGE:



Do not operate or install winch without reading and understanding these instructions and the basic guide to winching techniques.



Keep hands clear of rope, hook and fairlead opening during operation and while spooling.



Use supplied hook strap for spooling rope.



Stand clear of rope and load during operation.



Inspect winch installation and rope condition before operating winch.



Do not use as a hoist.

Do not use to move persons.



Do not exceed winch's rated capacity.

Never touch rope or hook while in tension.



Make sure the anchor you select will withstand load.

Before initiating winching operation, be sure any elements that can interfere with safe winching are removed.



Never wrap rope back onto itself. Use a choker chain, tree trunk protector or an anchor.

Do not disengage clutch if winch is under load or if rope is under tension.

### ⚠ WARNING!

#### TAKE YOUR TIME. SLOPPY RIGGING CAUSES ACCIDENTS.



The rope must always spool onto the drum as indicated by the drum rotation label on the winch.

#### BATTERY HAZARDS

Batteries contain gases which are flammable.

Wear eye protection.

Remove all metal jewelry.

Do not lean over battery while making connections.

Failure to take proper precaution may result in fire or serious injury.

### ⚠ CAUTION!

#### TO AVOID INJURY AND PROPERTY DAMAGE!



Do not use winch to secure a load during transport.



Do not submerge the winch in water.



Never winch with less than 5 wraps of rope around the drum.



Wear heavy leather gloves while handling the rope.

Do not use to tow vehicles.

Caution should be used if the vehicle is tied down during a winching operation. This may lead to damage to the frame.

Before winching, inspect remote control lead for damage.

## 9500 LBS. WINCH

### SPECIFICATIONS:

- Rated Line Pull: 9500 lbs. (4307 kg) Single-line
- Motor: 12V DC, 5.5HP Series Wound
- Geartrain: 3-Stage Planetary
- Gear Ratio: 201.6:1 at Low Speed. 100.8:1 at High Speed.
- Clutch (freespooling): Sliding Ring Gear
- Brake: Auto. Load Holding
- Drum Diameter / Length: 2.5" / 8.8" (64 mm X 223 mm)
- Wire Rope: 91.84' , 0.33" Diameter (28 m , 8.3 mm Dia.) (for D9500SC)
- Synthetic Rope: 85.28' , 0.35" Diameter (26 m , 9.0 mm Dia.) (for D9500SR)
- Dyneema Synthetic Rope: 85.28' , 0.35" Diameter (26m , 9.0 mm Dia.) (for D9500SRD)
- Fairlead: 4-Way Roller Fairlead (for D9500SC)
- Fairlead: Aluminum Hawse Fairlead (for D9500SR / D9500SRD)
- Wireless / Wired Remote
- Recommended Battery: 12V DC Minimum 650 CCA
- Battery Leads: 3.5 gauge, 6' (1.8 m) Long
- Mounting Bolt Pattern: 10" X 4.5" (254 mm X 114.3 mm)
- IP Rating: IP 67 Waterproof for Winch Body
- Overcurrent Protection

#### Performance Data at Low Speed (Gear Ratio: 201.6:1)

Line Pull (lbs/kgs)	Line Speed (ft/m)	Motor (Amps)
0	38.7 ft (11.8 m)	85
2375 (1078)	13.8 ft (4.2 m)	195
4750 (2157)	10.2 ft (3.1 m)	257
7125 (3234)	7.2 ft (2.2 m)	323
9500 (4307)	4.9 ft (1.5 m)	419

Above data are based on the first layer of drum.

#### Performance Data at High Speed (Gear Ratio: 100.8:1)

Line Pull (lbs/kgs)	Line Speed (ft/m)	Motor (Amps)
0	70.8 ft (21.6 m)	87

Above data are based on the first layer of drum.

Layer	Rated Line Pull (lbs/kgs)	Total Rope on Drum (ft/m)
1	9500 (4307)	16.2 ft (5 m)
2	7700 (3490)	39 ft (12 m)
3	6500 (2946)	68 ft (21 m)
4	5700 (2584)	95 ft (29 m)

## 12000 LBS. WINCH

### SPECIFICATIONS:

- Rated Line Pull: 12000 lbs. (5455 kg) Single-line
- Motor: 12V DC, 6.0HP Series Wound
- Geartrain: 3-Stage Planetary
- Gear Ratio: 230.4:1 at Low Speed. 115.2:1 at High Speed.
- Clutch (freespooling): Sliding Ring Gear
- Brake: Auto. Load Holding
- Drum Diameter / Length: 2.5" / 8.8" (64 mm X 223 mm)
- Wire Rope: 85.28' , 0.37" Diameter (26 m , 9.5 mm Dia.) (for D12000SC)
- Synthetic Rope: 85.28' , 0.37" Diameter (26 m , 9.5 mm Dia.) (for D12000SR)
- Dyneema Synthetic Rope: 85.28' , 0.35" Diameter (26m , 9.0 mm Dia.) (for D12000SRD)
- Fairlead: 4-Way Roller Fairlead (for D12000SC)
- Fairlead: Aluminum Hawse Fairlead (for D12000SR / D12000SRD)
- Wireless / Wired Remote
- Recommended Battery: 12V DC Minimum 650 CCA
- Battery Leads: 3.5 gauge, 6' (1.8 m) Long
- Mounting Bolt Pattern: 10" X 4.5" (254 mm X 114.3 mm)
- IP Rating: IP 67 Waterproof for Winch Body
- Overcurrent Protection

### Performance Data at Low Speed (Gear Ratio: 230.4:1)

Line Pull (lbs/kgs)	Line Speed (ft/m)	Motor (Amps)
0	33.7 ft (10.3 m)	79
3000 (1362)	11.5 ft (3.5 m)	177
6000 (2724)	8 ft (2.4 m)	259
9000 (4086)	5.8 ft (1.8 m)	330
12000 (5448)	3.9 ft (1.2 m)	425

Above data are based on the first layer of drum.

### Performance Data at High Speed (Gear Ratio: 115.2:1)

Line Pull (lbs/kgs)	Line Speed (ft/m)	Motor (Amps)
0	64.2 ft (19.6 m)	80

Above data are based on the first layer of drum.

Layer	Rated Line Pull (lbs/kgs)	Total Rope on Drum (ft/m)
1	12000 (5455)	17.6 ft (5.4 m)
2	9530 (4332)	37 ft (11.4 m)
3	7920 (3600)	63 ft (19.4 m)
4	6770 (3077)	88 ft (26.8 m)

## INSTALLATION AND SETUP: SAFETY FIRST!

### UNPACKING

- When unpacking, make sure that the item is intact and undamaged. If any parts are missing or broke, please call approve authorized service center.
- Mounting Hardware: See below.

### MOUNTING THE WINCH

Mounting using the mounting frame.  
(Sold separately. Please contact Aprove authorized distributors / retailers)

1. Select a mounting site on the vehicle bumper, truck bed, boat trailer or other suitable location.
2. Mount the fairlead to the mounting frame using supplied bolts, nuts and washers.

ITEM	PN	Q'TY
1	WINCH BODY	1
2	MOUNTING BRACKET (OPTION)	1
3	SQUARE-HEAD NUT M10	2
4	HEX SOCKET BOLT M12 X 24	4
5	SPRING WASHER M12	2
6	ALU. HAWSE FAIRLEAD	1
7	SPRING WASHER M10	4
8	HEX SOCKET BOLT M10 X 25	4
9	SPRING WASHER M10	4
10	NUT M12	2

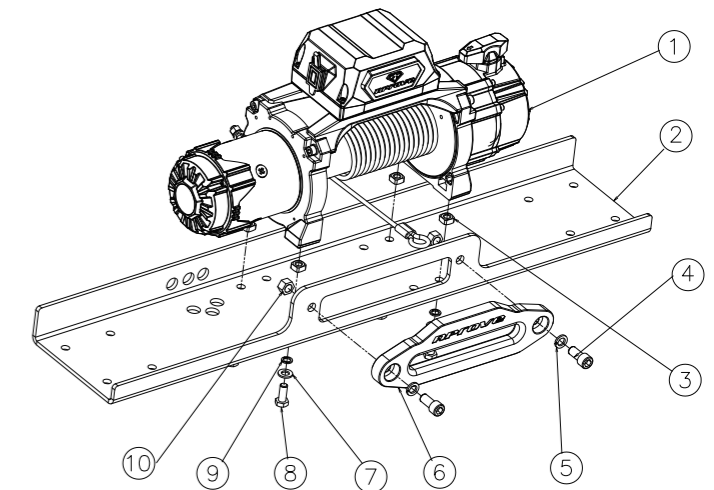


Figure A : Alu. hawse fairlead and winch attachment to frame (for D9500SR / D9500SRD / D12000SR / D12000SRD)  
(Proportions and exact alignment may vary)

ITEM	PN	Q'TY
1	WINCH BODY	1
2	MOUNTING BRACKET (OPTION)	1
3	SQUARE-HEAD NUT M10	4
4	WASHER MA12	2
5	SPRING WASHER M12	2
6	HEX SOCKET BOLT M12 X 25	2
7	4-WAY ROLLER FAIRLEAD	1
8	HEX SOCKET BOLT M10 X 25	4
9	WASHER M10	4
10	SPRING WASHER M10	4
11	NUT M12	2

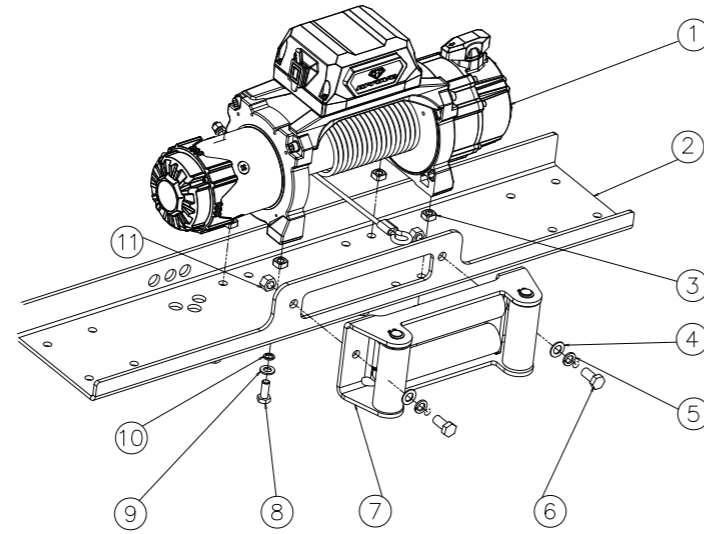


Figure B : 4-way roller fairlead and winch attachment to frame (for D9500SC / D12000SC)  
(Proportions and exact alignment may vary)

3. Mount the winch to the mounting frame using supplied bolts and lock washers.
4. Place the electric winch and frame at the location where it will be mounted. Use the remaining holes in the mounting frame as a template to mark and drill holes for mounting.
5. Verify that the installation surface has no hidden components or structural pieces that will be damaged before drilling.
6. Drill the marked locations.
7. If the provided hardware does not accommodate the installation, use SAE grade 8 bolts, or higher, and torque to 35ft-lb.

#### MOUNTING USING A DIFFERENT MOUNTING PLATE:

1. The plate must be rated to at least the winch's capacity.
2. Align the winch perpendicular to center line of the vehicle at the desired location, and mark the locations of the winch base holes. Compare the dimensions of the marked holes to Figure C.

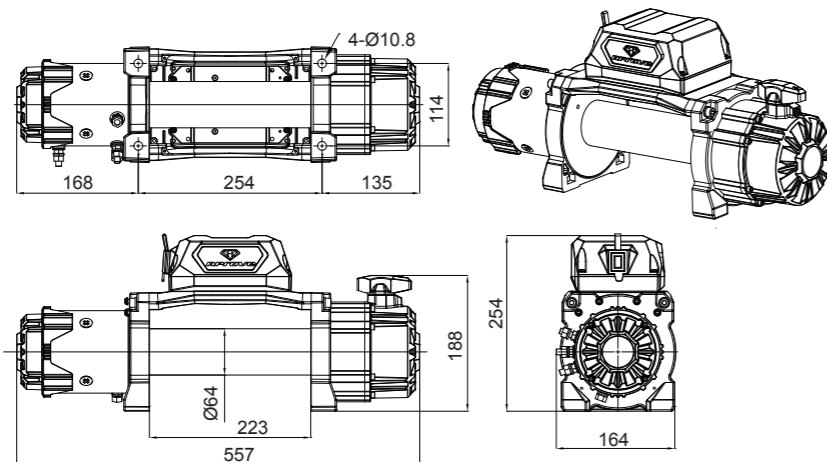


Figure C : Winch dimensions, unit: mm

3. Before drilling, verify that the installation surface has no hidden components or structural pieces that will be damaged.
4. Drill holes appropriate for the hardware at the marked locations.
5. Install the winch using the hardware specified on the specification chart.

#### MOUNTING THE SOLENOID ASSEMBLY

1. Place the solenoid box in a suitable place near the winch to allow the cables to be routed properly.
2. Mark where the screw holes will be.
3. Verify that the installation surface has no hidden components or structural pieces that will be damaged before drilling.
4. Drill pilot holes for the mounting screws.
5. Secure in place with mounting screws.

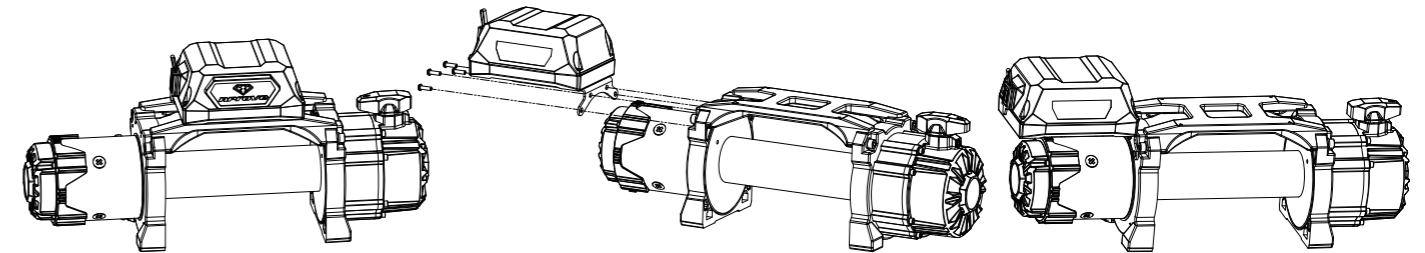


Figure D : Three possible solenoid assembly locations

#### ⚠ WARNING!



#### TO PREVENT SERIOUS INJURY FROM EXPLOSION DUE TO SPARKING AT THE BATTERY CONNECTION:

Unplug the connector and disconnect the battery cables before marking other wiring connections.



#### TO PREVENT SERIOUS INJURY FROM LEAKING BATTERY ACID:

Do not use a dirty, corroded or leaking battery. Only use a 12V automotive (or equivalent) battery, in good condition.

1. Plan a route for the wiring from the point of the vehicle where the winch will be mounted, or used to the battery. This route must be secure, out of the way of moving parts, road debris, or any possibility of being damaged by operation or maintenance of the vehicle. For example, you may wish to route the wires under the vehicle, attaching it to the frame using suitable fasteners. Do not attach the wires to the exhaust system, drive shaft, emergency brake cable, fuel line, or any other components which may damage the wiring through heat or motion, or create a fire hazard.
2. If you drill through the bumper or any part of the body to route the wires, be sure to install a rubber grommet in the hole to prevent fraying of the wires at that point.
3. Route the cables from the solenoid to the battery and from the solenoid to the winch, following the precautions discussed above. See Figure E.

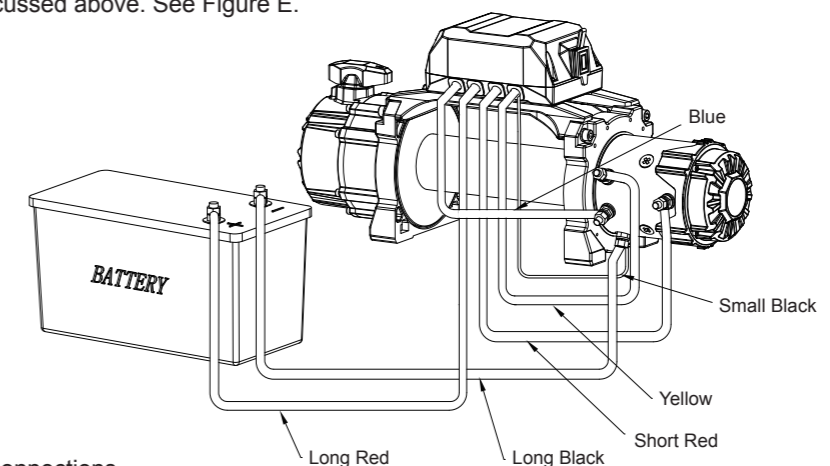


Figure E : Wiring connections

4. Attach the red, blue and yellow cables to the terminals on the winch. The winch terminals are color-coded.
5. Attach the circuit breaker to the positive terminal on the battery.
6. Attach the red battery cable to the circuit breaker.
7. Attach the black battery cable directly to the negative terminal of the battery.
8. Lift the socket cover exposing the electrical switch connector. Insert the connector into the socket.

**Note: The attachment of the motor cables determines the direction of the controller's button. After the unit is mounted and powered, check the direction of the power IN and power OUT on the controller button. If you wish to change the direction on the controller, disconnect the battery cables from the battery, switch the motor cable connections on the motor assembly, then reconnect the battery cables.**

9. Disconnect the controller when not in use.
10. Overcurrent protection wiring. See Figure F.

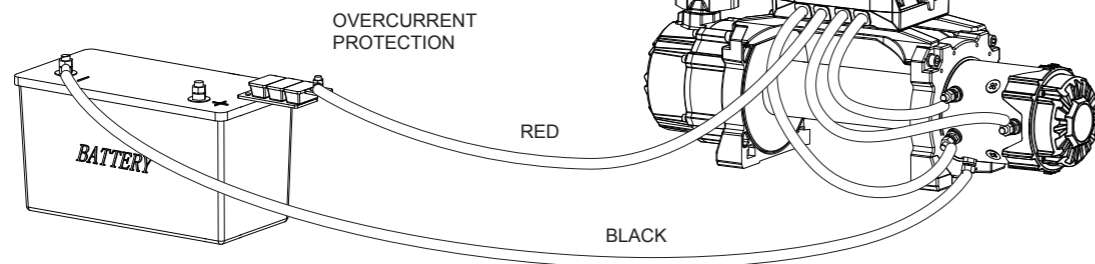


Figure F : Overcurrent protection wiring connections

## MOUNTING ON YOUR VEHICLE

Please must install the winch under the following two principles, as shown in Figure G.

- Knob on the right-hand side
- Rope / cable should be bottom spooled

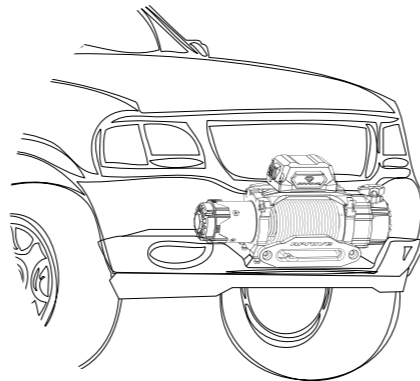


Figure G

## PREPARING THE ROPE

1. The rope must be properly coiled under tension to be able to support a load without damage.
2. Uncoil the wire rope, except for 5 full wraps.
3. Recoil the wire rope back into the winch under at least 500 lbs. of load.

## OPERATION

1. Examine the rope. Do not use the winch if the rope is frayed, kinked or damaged.
2. Fully charge the vehicle's battery.
3. Check the winch's electrical connections. All connections must be tight and clean.
4. Put the vehicle's transmission in neutral.
5. If the vehicle where the winch is mounted is not supposed to be moved, engage the emergency brake and block the wheels using wheel chocks (sold separately).
6. To pull out the rope, move the clutch handle to the release position, shown in Figure H, slide the loop of the hook strap over the hook, then pull on the hook strap to pull out the rope.

### ⚠ WARNING!

**WARNING! LEAVE AT LEAST 5 FULL TURNS OF ROPE ON THE DRUM.**

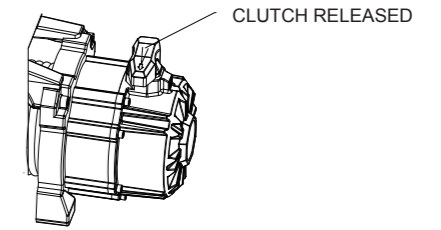


Figure H : Clutch released

7. Hook onto the object using a pulling point, tow strap, tree strap, or chain. See Figure I.



Figure I : Using a strap anchor point

### ⚠ WARNING!



**Do not wrap the rope around the object and hook onto the rope back onto itself.**  
This can damage the object being pulled, and kink or fray the rope.

8. Attachment point must be centered in loop of hook and the hook's safety clasp must be fully closed. See Figure J.

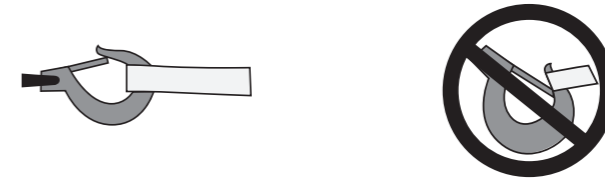


Figure J : Correct and incorrect hook attachment

9. Do not use a recovery strap while winching. They are designed to stretch and can suddenly whip back towards the operator during a winching operation.
10. Place a winch damper over the rope span, 6 feet from the hook to help absorb the force released if the rope breaks. See Figure K.

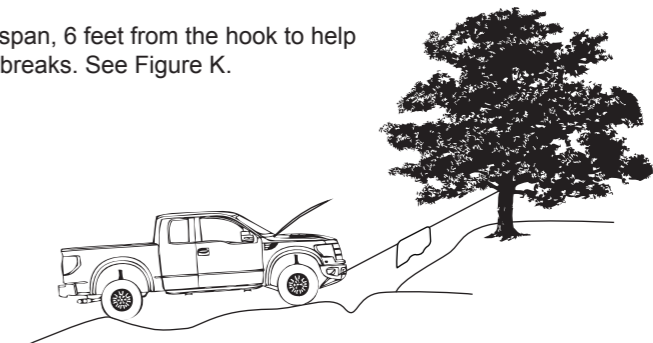


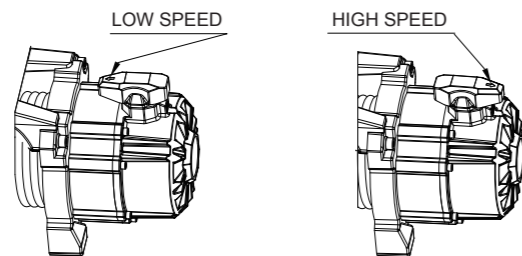
Figure K : Winch Damper

11. Re-engage the clutch by moving the clutch handle to the engaged position for low speed or high speed, shown in Figure L.

### ⚠ WARNING!

**For your safety, we strongly recommend using high speed mode only under winch recovery with no load.**

Figure L : Clutch engaged



**WARNING!**

Do not allow anyone to stand near the rope, or in line with the rope behind the winch while it is under power. If the rope should slip or break, it can suddenly whip back towards the winch, causing a hazard for anyone in the area. Stand well to the side while winching.

12. Attach the controller to the socket on the solenoid assembly, see Figure M.

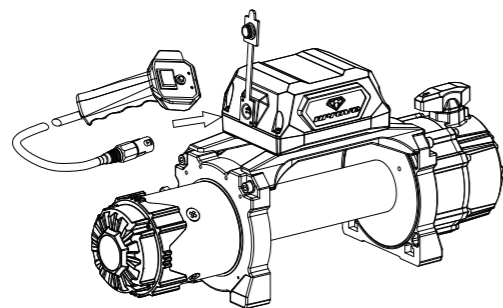


Figure M : Connection

13. Operate wired or wireless (two in one) controls briefly to ensure they work properly, see Figure N. If operation is reversed, the power cables may be connected backwards. Correct any such issue before use.

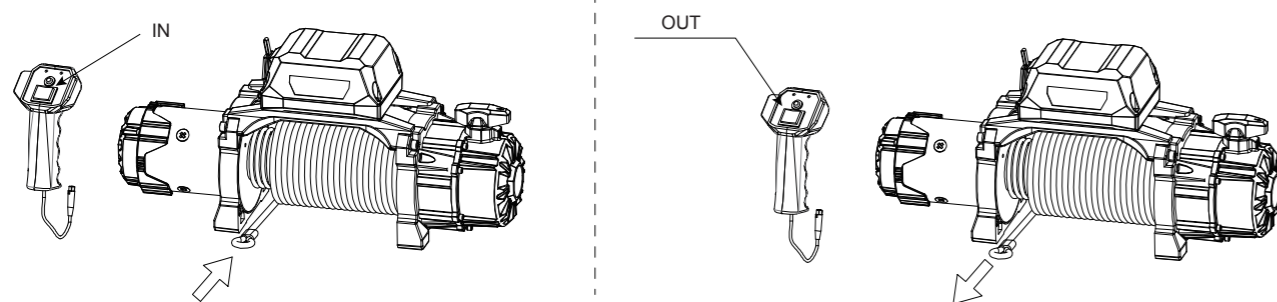


Figure N : Controls

14. When it is safe to do so, use the power switch on the controller to retract the rope, and winch the item as desired. Do not power the hook all the way into the fairlead to prevent damage.

15. Do not operate the winch at extreme angles. Do not exceed the angles shown in Figure O for a roller fairlead. For a hawse fairlead, the angle should be as close to straight as possible.

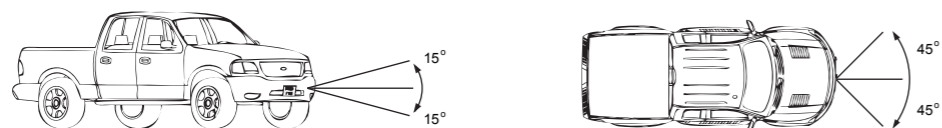


Figure O : Roller fairlead maximum winching angles

16. If the object to be pulled must be pulled at an angle in relation to the winch, use a pulley (sold separately) and an anchor point directly in front of the winch, as shown in Figure P, to keep the rope pull straight.

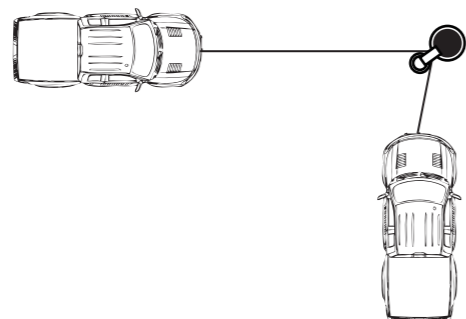


Figure P : Pulley anchoring

- 17. WARNING! Stop the winch and release tension on the rope before moving the winch damper on it.
- 18. Do not continue use of the winch until the battery is completely run down.
- 19. You may wish to keep the engine running while using this winch, to continually recharge the battery. However, exercise extreme caution when working around a running vehicle and ONLY operate a vehicle in an outdoor area.

**CAUTION!**

Do not use the winch in a constant duty application-it is designed for INTERMITTENT USE ONLY. Keep the duration of the pulling job as short as possible. If the motor becomes very hot to the touch, stop and let it cool down for several minutes. Do not pull for more than 50 seconds at or near the rated load. Do not maintain power to the winch if the motor stalls. Double line rigging will help prevent overloading and should be used whenever practical.

20. When finished pulling the load, reverse the direction of the winch just enough to release tension on the rope so that you can unfasten the hook from the load and reel in the rope.

## APROVE WINCH LIMITED WARRANTY STATEMENT MODEL

S2500SC, S2500SR, S2500SRD, S3500SC, S3500SR, S3500SRD, S4500SC, S4500SR, S4500SRD, D9500SC, D9500SR, D9500SRD, D12000SC, D12000SR, D12000SRD, S9000SC, S12000SC.

Aprove Products Co., Ltd ("Seller" or "APROVE") warrants to the original buyer that (a) the mechanical components, and (b) the electrical component of the "APROVE" Winch Model listed above will be free of defects in material (but excludes motor, wired rope and fairlead) and workmanship for a period of 12 months from the original date of purchase. To obtain any warranty service, you must provide APROVE with proof of purchase and date of purchase acceptable to APROVE, such as a copy of your purchase receipt. This warranty does not cover the removal or reinstallation of the winch. Aprove will, at its option, replace or refund the purchase price of a defective winch or component, provided you return the defective winch or component during the warranty period, transportation charges prepaid, to APROVE Authorized Service Centers. Attach your name, address, telephone number, a description of the problem, and a copy of your receipt and original bill of sale bearing the APROVE serial number of the defective winch and date of purchase.

This warranty does not apply (i) to finish and wire rope and synthetic rope, motor, aluminum fairlead and 4-way roller, or (ii) if the winch has been damaged by accident, misuse, collision, overloading, modification, misapplication, improper installation, or improper service. This warranty is void if any APROVE serial number has been removed or defaced. Commercial or industrial use or application, or any hoisting application of the winch voids the warranty.

THIS WARRANTY SET FORTH ABOVE IS THE ONLY WARRANTY. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

ANY IMPLIED WARRANTY WINCH BY LAW MAY NOT BE EXCLUDED IS LIMITED IN DURATION TO 12 MONTHS FROM THE DATE OF ORIGINAL RETAIL PURCHASE OF THE PRODUCT.

APROVE 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 APROVE 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.

APROVE reserves the right to change Product design without notice. In situations in which APROVE has changed a Product design, APROVE shall have no obligation to upgrade or otherwise modify previously manufactured Products.

For any warranty inquiries, please contact your local dealer/distributor or direct us at [www.aproveatv.com](http://www.aproveatv.com)



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