

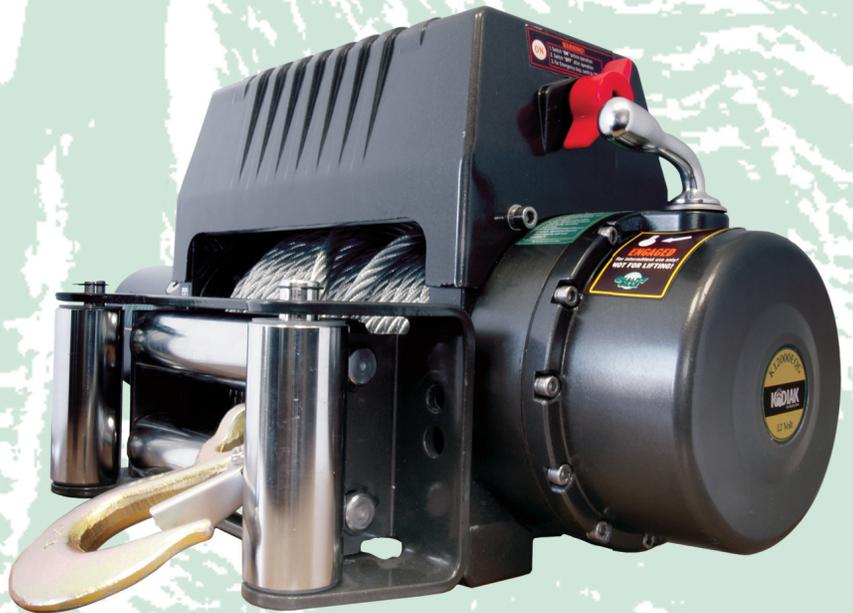


KODIAK WINCHES

TOUGHER. STRONGER. BETTER.

Bruin/Grizzly

*9500/12000 lb. Electric Winch
Installation & Operations Manual*



To prevent serious injury or death read and understand all warnings and instructions before using this equipment.

Model: Bruin/Grizzly

Features

- Planetary Gear System for fast line speed
- Automatic load-holding brake
- Free spooling
- Power In & Power Out
- 1.5 Hp (1.1 Kw) heavy duty electric permanent magnetic motor
- Low electric current

Specifications: BRUIN 9500 Lb. Winch

Rated Line Pull	9500 lbs (4309 kg)
Gear Train	Planetary Gear System
Reduction Ratio.....	212:1
Motor	4.8 hp, 12 volt
Cable	3/8" x 100'
Overall Dimensions	21.5" x 6.3" x 10" (438 mm x 158 mm x 254 mm)
Bolt Pattern	10" x 4.5" (254 mm x 114.3 mm)
Shipping Weight	93 lbs (42 kg)

Specifications: GRIZZLY 12000 Lb. Winch

Rated Line Pull	12,000 lbs (5443 kg)
Gear Train	Planetary Gear System
Reduction Ratio.....	295.75:1
Motor	4.8 hp, 12 volt
Cable	3/8" x 100'
Overall Dimensions	21.5" x 6.3" x 10" (438 mm x 158 mm x 254 mm)
Bolt Pattern	10" x 4.5" (254 mm x 114.3 mm)
Shipping Weight	93 lbs (42 kg)

Model: _____

Serial No.: _____

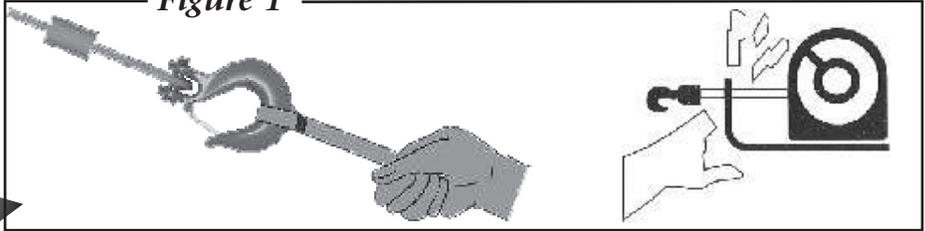
Date of Purchase: _____

Purchased from: _____

CAUTION!

Keep hands clear of winch cable, hook and fairlead opening during operation. Always use handsaving belt to hold hook when spooling.

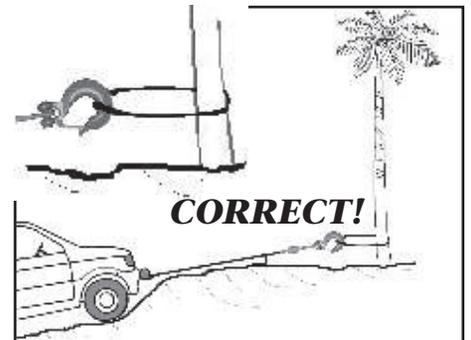
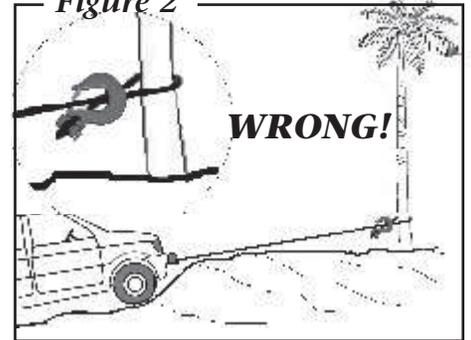
Figure 1



SAFETY WARNINGS & PRECAUTIONS

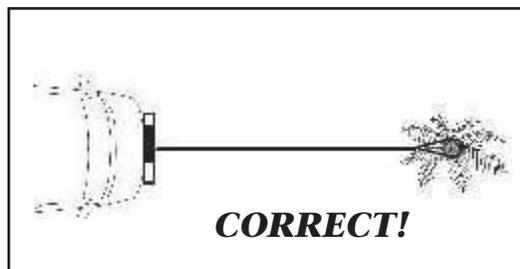
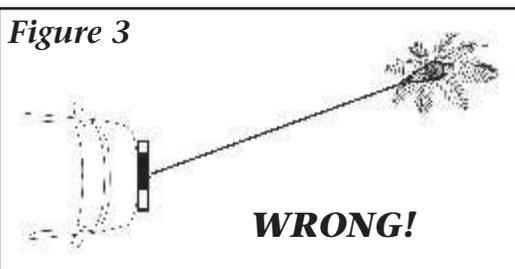
- Do not operate winch under the influence of drugs or alcohol.
- Read manual before using any winch.
- Always use heavy gloves when handling winch cable.
- Never hook the winch cable back upon itself. The winch cable can break under tension and cause injury and damage.
- Stay clear of winch cable and keep others away when in operation or with load on winch cable.
- Inspect winch and winch cable before each use. Do not use winch if winch cable or winch shows wear or damage.
- Replace any parts as needed before using the winch.
- Do not exceed the winch's load capacity.
- Do not place hands near the fairlead when winch is in operation. Always use the protective hand-saving belt when spooling. *See Figure 1*
- Do not use the winch as a hoist or to move people.
- Do not use winch to secure a load or tow vehicles.
- Do not submerge winch in water.
- Avoid injury and property damage, be safe and think first before operating winch. Use common sense. Electric winch is for intermittent use only.
- Look to see where the drill bit will come through before drilling holes for installation.
- Never drill into the gas tank or electrical wiring.
- Place towel or sandbag over winch cable while winch is in use.

Figure 2



Avoid continuous pulls from extreme angles as this will cause the wire cable to pile up on one end of the drum (Figure 3). This can jam the wire cable in the winch causing damage to the cable or the winch.

Figure 3



UNPACKING:

When unpacking, check to make sure all parts are included. Refer to Assembly Drawings and Parts List below. If any part is missing or broken, please contact your authorized *Quality Gear* distributor as soon as possible. Refer to our website: www.qualitygear.com for more information.

SAFETY WARNINGS & PRECAUTIONS

WHEN USING THIS WINCH, SAFETY WARNINGS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF PERSONAL INJURY AND DAMAGE TO THE WINCH.

LEARN TO USE THIS WINCH

After winch has been installed, take some time to practice using it so that you will be familiar with ALL operations. Periodically check the winch installation to ensure all bolts are tight. To ensure proper operation, carefully inspect the unit for any damaged parts before operating the winch. Any damaged part(s) should be repaired or replaced with *Genuine Quality Gear* parts by a qualified technician.

KEEP WINCHING AREA CLEAR

Do not allow people to remain in the winching area during winching operations.

Do not step over a taut winch cable or allow anyone else to do so.

As winch cable may snap or break during operations direct all bystanders away from possible trajectories of broken, snapping winch cable. A snapped or broken winch cable could cause winch failure, injury or death.

Maintain footing and balance at all times.

Do not reach over or across winch or winch cable while the winch is in operation.

INSPECT WINCH CABLE AND EQUIPMENT FREQUENTLY

The winch cable should be inspected for damage which may reduce its breaking strength. A frayed winch cable with broken strands should be replaced immediately.

WORKING AREA CONDITIONS

Keep working area well lit. Do not use this winch in the presence of flammable gases or liquids.

KEEP CHILDREN AWAY

Keep children away from working area. Never let children operate the winch.

USE LEATHER GLOVES

When handling or rewinding winch cable, always use hand protection to eliminate the possibility of cuts caused by burrs and slivers from broken strands.

DRUM CABLE

Always make sure that there are at least five (5) complete turns of winch cable left on the drum before winching.

KEEP HANDS AND FINGERS CLEAR OF WINCH CABLE AND HOOK WHEN OPERATING WINCH

Never put finger(s) through the hook when reeling in the last few feet. Doing so may result in injury to or loss of the trapped appendage(s). Never guide the winch cable under tension onto the drum.

NEVER HOOK THE WINCH CABLE BACK ONTO ITSELF

Hooking the winch cable back onto itself creates an unacceptable strain, breaking individual strands, which then weakens the entire winch cable.

KEEP PULLING DURATIONS AS SHORT AS POSSIBLE

The winch is designed for intermittent use only and is not designed for constant duty applications. Do not pull for more than one (1) minute at or near maximum rated load. If motor becomes too hot to touch, stop and let it cool for a few minutes. If the motor stalls, cut the power immediately.

DO NOT OVERLOAD

To maximize safety and performance do not exceed maximum rated load for this unit. Do not modify or use attachments to attempt to exceed the maximum rated capacity.

NEVER OPERATE THE WINCH WITHOUT THE ROLLER FAIRLEAD INSTALLED.

Operator injury or damage to the winch can result if a roller fairlead is not correctly installed and properly used.

STAY ALERT

Watch what you are doing. Use common sense. Do not use this winch if you are tired, stressed, or under the influence of alcohol, drugs or medication.

DISCONNECT SWITCH

Unplug unit when not in use.

REPLACEMENT PARTS AND ACCESSORIES

When servicing use only *Genuine Quality Gear* replacement parts. Use of any other parts will void the warranty.

WINCH WARNINGS & PRECAUTIONS

1. Keep hands and body away from fairlead (cable intake slot) when operating.
2. Secure vehicle in position before using winch.
3. Do not exceed winch load capacity. See specifications on page 1-2.
4. Make sure winch is properly bolted to a structure (or vehicle) that can hold the winch load.
5. Always use proper couplings when connecting winch cable hook to load.
6. Do not lift items vertically. The winch was designed for horizontal use only.
7. Do not modify or use attachments to extend the length of the winch cable.
8. Never lift people or hoist loads over people.
9. Never be in between the winch and the load when operating.
10. Do not apply load to winch when winch cable is fully extended. **Keep at least five (5) full turns of winch cable on the CABLE DRUM.**
11. After moving an item with the winch - secure the item in place. Do not rely on the winch to hold it in place for an extended period.
12. Examine winch before using. Components may be affected by exposure to everyday weathering, chemicals, salts and rust. Replace any damaged, weathered, worn and/or corroded parts *before* using winch.
13. When loading a boat onto a trailer without side reel or side hull rollers, make sure the trailer is submerged in the water while the boat is loaded using the winch. Attempting to drag the boat onto the trailer while on land can cause winch failure and possible injury or death.
14. Never operate winch if winch cable shows any sign of weakening, is knotted or kinked.
15. Winch does not have a locking mechanism. Secure load in place after moving.
16. Do not cross over or under winch cable while winch is loading.
17. Do not move vehicle with winch cable extended and attached to load to pull it. The winch cable could snap.
18. Apply blocks such as a wheel chock to vehicle when parked on an incline.
19. Do not hit the motor housing if the winch stalls or stops during operation.
20. Re-spool winch cable properly. (see pages 9-10)

INSTALLATION

Depending on your level of knowledge regarding electrical wiring you may want to have this procedure performed by a qualified technician.

1. Select a mounting site on the bed of a truck, trailer or other suitable location.
CAUTION: This winch can generate pulling force as cited in its specifications. Make sure the location selected can withstand this much force. It may be required to use steel reinforcement plates (not included) and/or to weld on additional bracing (not included) depending on the desired mounting location. **REMEMBER:** The winch is designed for horizontal pull, not vertical.
2. Mount the Roller Fairlead (#37) to the Mounting Frame (included) using supplied bolts (#36) and nuts (#38)
3. Mount Electric Winch to the Mounting Frame using supplied bolts (#36) and nuts (#38). See Figure 1
4. Connect electric cable. See Figure 2
 - a) Connect the long red (positive) cable from Solenoid Assembly (#33) to the closest screw-down positive (+) terminal to 12 volt battery.
 - b) Connect long black (negative) cable to the closest screw-down battery negative (-) on one end and to the low-terminal of Motor Rotor on the other end.
 - c) Connect the black ground wire to the battery negative.
 - d) Connect the green cable from Solenoid Assembly (#33) to low terminal of Motor Stator.
 - e) Connect the short red cable from Solenoid Assembly (#33) to up terminal of Motor Rotor.
 - f) Connect the yellow short cable from Solenoid Assembly (#33) to up terminal of Motor Stator.

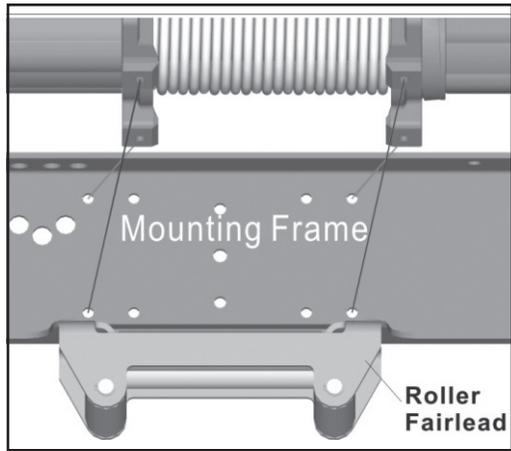


Figure 1

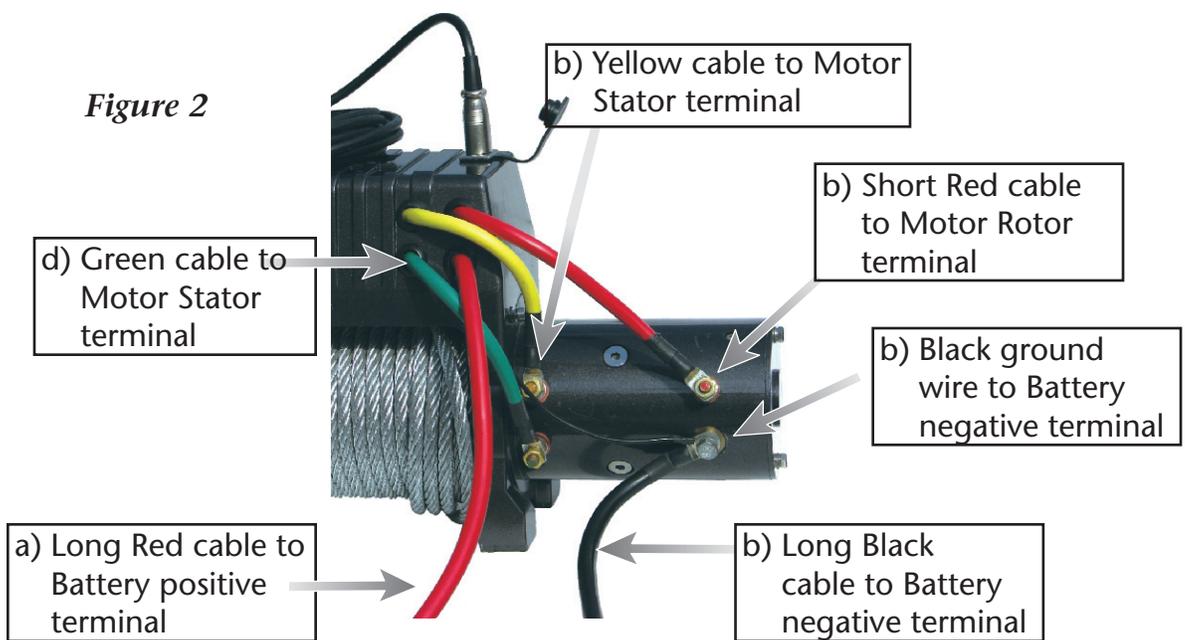


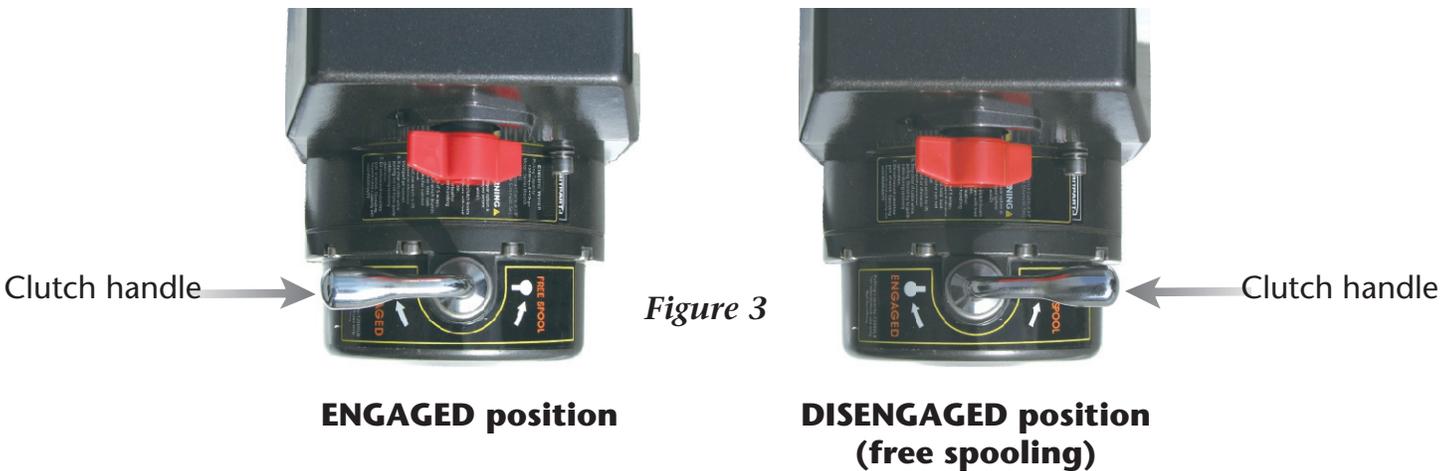
Figure 2

CAUTION!

Battery cables should not be drawn taut. Leave slack for some cable movement. The battery cable should be secure, out of the way of moving parts, road debris and positioned so that there is no chance of damage from routine operation or maintenance of the vehicle. For example, the battery cables may be routed under the vehicle, attaching them to the frame using suitable fasteners (not included). **DO NOT ATTACH THE BATTERY CABLES TO THE EXHAUST SYSTEM, DRIVESHAFT, EMERGENCY BRAKE CABLE, FUEL LINE OR ANY OTHER COMPONENTS WHICH MAY DAMAGE THE CABLES THROUGH HEAT OR MOTION OR CREATE A FIRE HAZARD.** If a hole is drilled through a bumper or any other part of the vehicle be sure to install a rubber grommet (not included) in the hole to prevent damage or fraying of the battery cables at that point.

5. Disengage the clutch by turning the clutch handle (#13) to the DISENGAGED position. (See Figure 5)
6. Pull the cable (#39) through the fairlead and connect the hook and safety pin.

NOTE: The use of at least a 650 CCA battery is recommended.



OPERATION

1. Disengage the clutch by moving the Clutch Handle (#13) to the **DISENGAGED** position.
2. Grab the winch cable assembly (#39) hook with hand strap (#41) and pull the winch cable to the desired length, then attach to the item to be pulled.

CAUTION!

Always leave at least five (5) full turns of winch cable on the drum. Review winch safety warnings and precautions on page 3-4 before continuing.

3. Re-engage the clutch by moving the Clutch Handle (#13) to the **ENGAGED** position. (See Figure 3)
4. Lift the female connector cover on solenoid assembly (#33) exposing the electrical switch connector.
5. Insert the switch assembly (#35) into the female connector.
6. Turn the **KILL SWITCH** from the **OFF** position to the **ON** position. (see Figure 4)

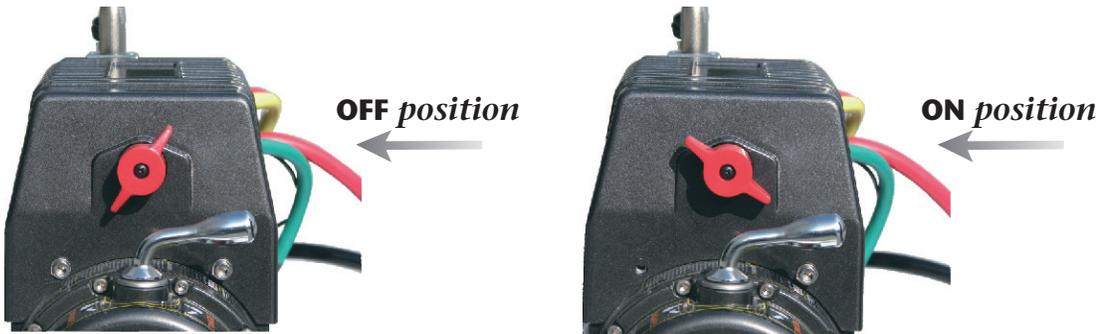


Figure 4

7. While standing aside of the path of the winch cable, push the button on the remote control upward. Push the button backwards to reverse direction.

Wait until the motor stops completely before reversing directions.

CAUTION!

Do not POWER winch out for more than ten (10) seconds at a time as this may cause damage to the brake system.

Warning:

If the Solenoid is stuck or the Winch motor stalls during operation Turn off the Kill switch immediately to cut off electricity to avoid burning out the motor. (see Figure 4)

8. When finished pulling, rewind winch cable (#39) onto the drum. The winch cable must be rewound onto the drum under a load of not less than 500 lbs. If this is not done the innermost wraps may damage the winch cable.
9. Remove the Switch assembly (#35) from the female connector and replace the connector cover.

CAUTION!

It is important to make sure the winch is mounted on a flat surface to guarantee the three major sections of the winch; the motor, the cable drum and the gear housing, are properly aligned. Run the vehicle during pulling operations in order to keep the battery charging. When pulling a heavy load place a blanket over the cable every 5-6 feet (1.5-1.8 metres) from the hook.

NOTE: Performance of this winch may vary depending on the vehicle and/or battery power.

LUBRICATION

1. All moving parts have been factory lubricated using high temperature lithium grease. No further internal lubrication is necessary.
2. Lubricate winch cable assembly (#39) occasionally using a light penetrating oil.

WINCH CABLE ASSEMBLY REPLACEMENT

1. Move Clutch Handle (#13) to **DISENGAGED** position.
2. Extend winch cable assembly (#39) to its full length.

NOTE: Observe how the existing winch cable is connected to the inside of the drum. Replicate this attachment using new winch cable.

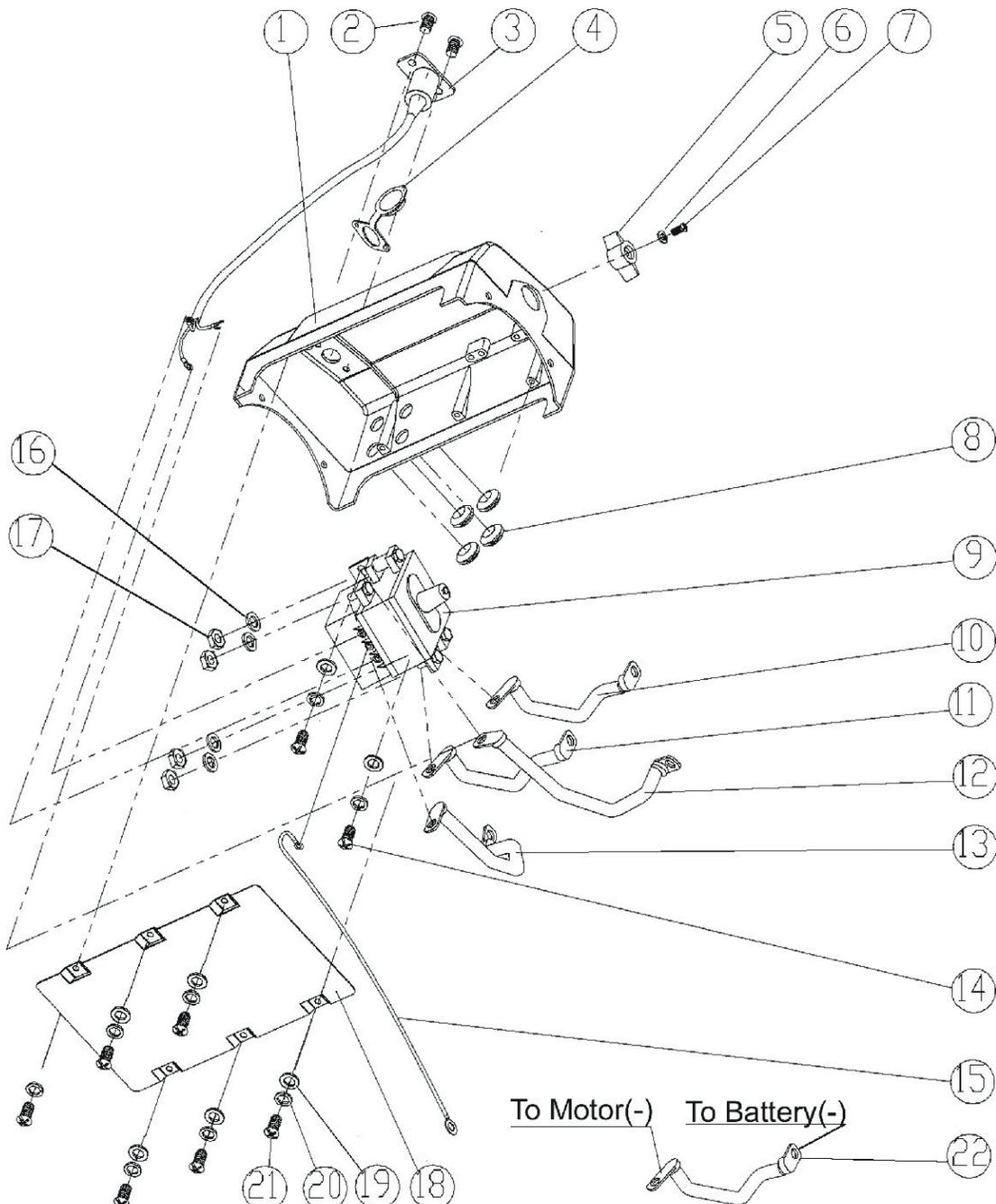
3. Remove old winch cable assembly and attach new one.
4. Rewind new winch cable assembly onto drum being careful to avoid kinking.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SUGGESTED REMEDY
Motor does not turn on.	<p>Switch assembly not connected properly</p> <p>Loose battery cable connection</p> <p>Defective switch</p> <p>Defective motor</p> <p>Water has entered motor</p>	<p>Insert switch assembly firmly to the connector.</p> <p>Tighten nuts on cable connectors.</p> <p>Repair or replace switch.</p> <p>Check for voltage at armature port with Switch pressed. If voltage is present replace motor.</p> <p>Drain and dry. Then run in short bursts without load until completely dry.</p>
Motor runs too hot.	Long period of operation	Allow winch to cool down periodically.
Motor runs slowly with insufficient power.	<p>Battery run down</p> <p>Defective motor</p>	<p>Recharge battery by running vehicle engine or replace battery.</p> <p>Check battery terminals for corrosion - clean connections.</p> <p>Tighten or replace the connector.</p> <p>Repair or replace motor.</p>
Motor runs but cable drum does not turn.	Clutch not engaged	Turn clutch lever to "ENGAGED" position. If that does not work get a qualified technician to check and repair the unit.
Motor runs in one direction only.	<p>Defective switch</p> <p>Broken wire or bad connection</p> <p>Defective motor</p>	<p>Repair or replace switch.</p> <p>Check for poor connections.</p> <p>Repair or replace motor.</p>

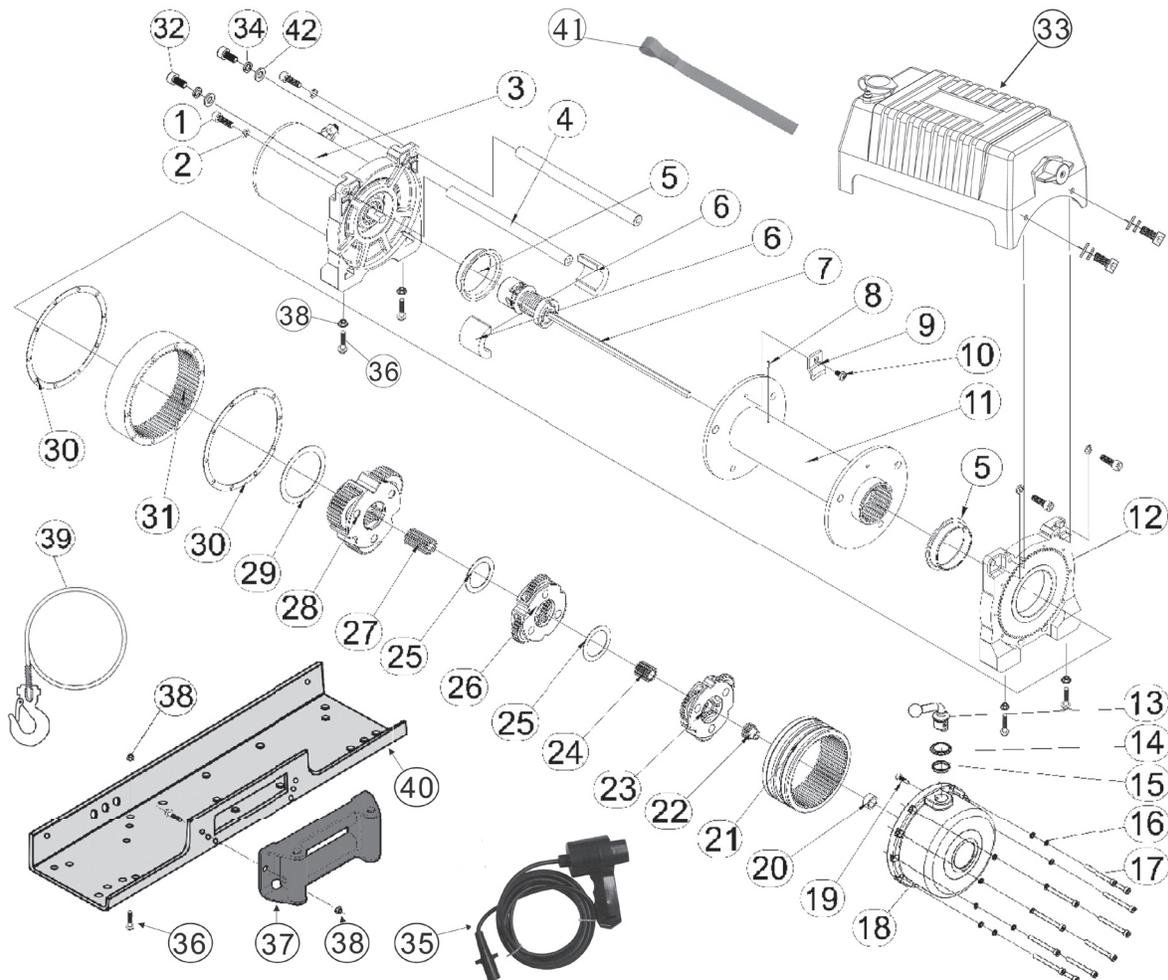
Solenoid Parts List for K9500EQG and K12000EQG

Item	Quantity	Description	Item	Quantity	Description
1	1	Housing	12	1	Cable A, to battery (35 x 2100mm)
2	2	Screw: 3 x 8mm	13	1	Cable 3, output (25 x 390mm)
3	1	Socket	14	2	Screw 5 x 10mm
4	1	Dust Boot	15	1	Ground cable (14 AWG x 500mm)
5	1	Kill Switch Knob	16	4	Flat washer 8mm
6	1	Flat Washer 4mm	17	4	Nut 8mm
7	1	Self-tapping screw 4 x 10mm	18	1	Mounting Plate
8	4	Rubber Grommet	19	6	Flat washer 5mm
9	1	Solenoid	20	6	Spring washer 5mm
10	1	Cable 2 (25 x 360mm)	21	6	Screw 5 x 8mm
11	1	Cable 1 (25 x 440mm)	22	1	Cable B, to Battery (35 x 183mm)



Parts: K9500EQG & K12000EQG

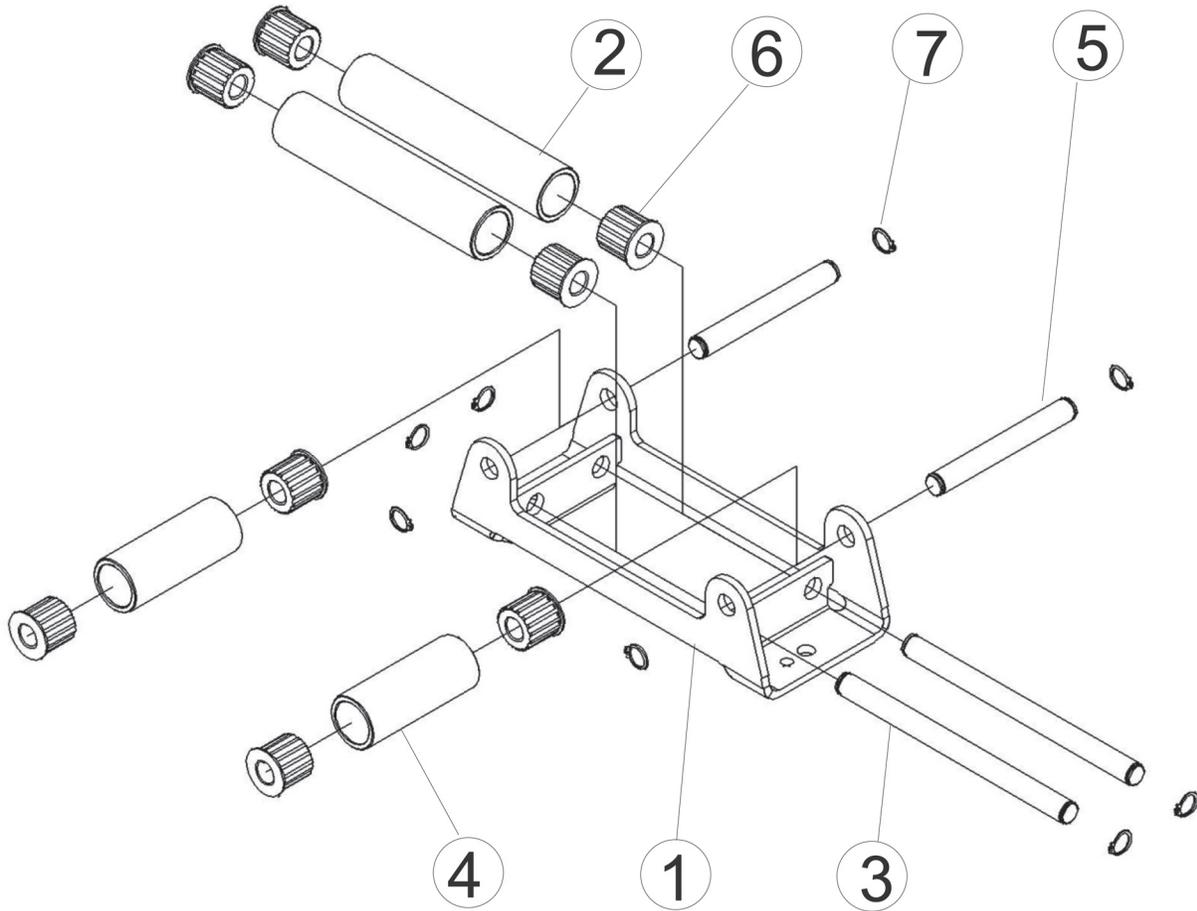
Item	Quantity	Description	Item	Quantity	Description
1	4	Bolt, 8 x 25mm	22	1	Gear, Input, Sun
2	4	Spring Washer 8mm	23	1	Gear, Carrier Assembly, Input
3	1	Motor End	24	1	Gear, Intermediate, Sun
4	2	Tie Bar	25	2	Thrust Washers
5	2	Dry Bearing	26	1	Gear Carrier Assembly, Intermediate
6	2	Brake Shoe	27	1	Gear, Output, Sun
7	1	Brake/Shaft Assembly	28	1	Gear Carrier Assembly, Output
8	1	Roll Pin 8 x 10mm	29	1	Washer
9	1	Cable Anchor	30	2	Gasket
10	1	Screw 6 x 10 mm	31	1	Gear Ring, Output
11	1	Drum	32	4	Screw 6 x 12mm
12	1	End Bearing	33	1	Solenoid Assembly
13	1	Clutch Handle	34	1	Spring Washer 6mm
14	1	Seal Cover	35	1	Remote Control
15	1	Seal	36	6	Screw 10 x 34mm
16	10	Spring Washer 5mm	37	1	Roller Fairlead Model RF22
17	10	Bolt 5 x 55mm	38	6	Nut 10mm
18	1	Gear Ring Housing	39	1	Cable Assembly .375" x 100'
19	1	Retaining Screw 5 x 16mm	40	1	Mount Channel*
20	1	Gear Bushing	41	1	Hand Strap
21	1	Gear Ring Input, Intermediate	42	4	Washer 6mm



Note: Planetary assemblies vary by model of winch. Contact your local **Quality Gear** distributor for part numbers specific to your winch

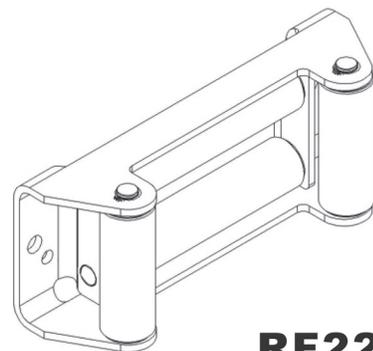
Parts: QGKRF22

Item	Dimensions	
Cable Opening	182mm (L) x 22mm (H)	7.165" x .866"
Roller Sizes:		
Vertical	40mm (D) x 100mm (H)	1.575" x 3.937"
Horizontal	40mm (D) x 186mm (L)	1.575" x 7.323"
Applicable uses	8000-12000 Electric Winch	
Overall Dimensions	293mm (L) x 126mm (W) x 84mm (H)	11.5354" x 4.961" x 3.307"



Roller Fairlead Parts List

Item	Quantity	Part No.	Description
1	1	RF-01	Frame
2	2	RF-02	Long Roller
3	2	RF-03	Long Shaft
4	2	RF-04	Short Roller
5	2	RF-05	Short Shaft
6	8	RF-06	Bushing
7	8	RF-07	Circlip



RF22

