



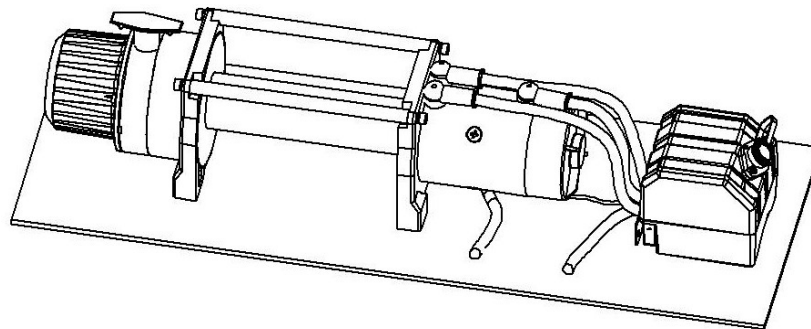
## Remote Mount Solenoid Pack

PN 2302282 and 2302283

Talon 9.5/12.5/14.0/18.0

Tiger Shark 13500/15500/17500

INSTALLATION • OPERATION • SAFETY PRECAUTIONS



**CAUTION**

Read instructions completely before beginning.

### Kit- 2302282

#### Contents

		Part Number
1	Lead Wire, Motor Field (red)	90-22695-28
1	Lead Wire, Motor Armature (blue)	90-22695-44
1	Lead Wire, Motor Field (yellow)	90-22695-45
1	Lead Wire, Solenoid Ground	90-23330-19
5	Terminal Boot	90-23247-04
1	T-Tap Connector (Tiger Shark)	90-14525

### Kit- 2302283

#### Contents

1	Lead Wire, Motor Field (white)	90-22635-43
1	Lead Wire, Motor Armature (blue)	90-22635-44
1	Lead Wire, Motor Field (yellow)	90-22635-45
1	Lead Wire, Solenoid Ground	90-23330-19
5	Terminal Boot	90-23247-04
1	T-Tap Connector (Tiger Shark)	90-14525

90-17397 rev A 5/24/13

## REMOTE MOUNT SOLENOID PACK INSTALLATION

### Step (1)

Check to ensure that the vehicle ground and positive leads from the battery are disconnected before performing any electrical work. Disconnect negative first, followed by positive lead.

### **⚠ DANGER**

**DO NOT ATTEMPT TO INSTALL WIRING WHEN THE BATTERY IS CONNECTED. Automotive batteries contain flammable and explosive gases. Wear eye protection during installation and remove all metal jewelry. Do not lean over battery while making connections.**

### Step (2)

To remote mount the solenoid pack, the unit must be disassembled from the winch. Review the solenoid pack assembly shown in fig 1. (Talon winch shown for illustration purposes only)

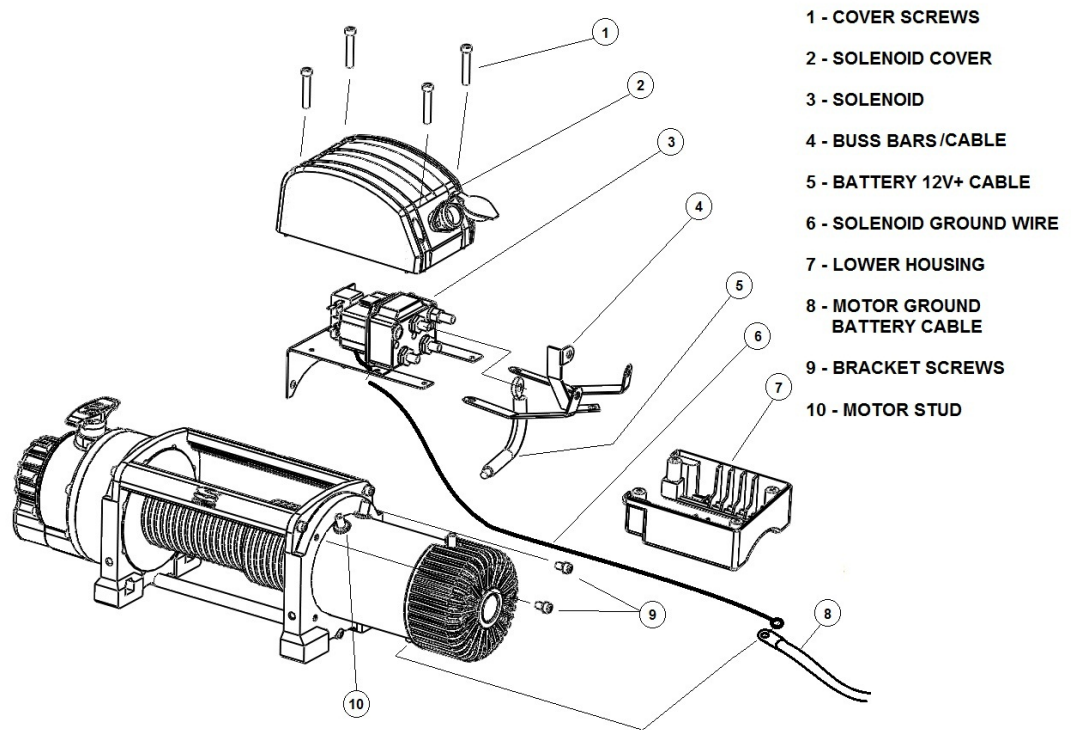


FIG 1

### Step (3)

Remove the 4 screws holding on the cover. Place cover to the side without disconnecting leads. Remove the bolt holding the 2 gage red battery cable to the solenoid. This bolt also holds the 20 gage red or blue wire from the winch socket.

Remove the red 2 gage battery cable from the assembly. Disconnect the 20 gage ground wire at solenoid connection and also on the bottom of the motor.

NOTE: Talon will use the supplied ground wire only. Tiger Shark will use both the existing wire and the supplied wire.

#### Step (4)

Remove the lower housing by carefully spreading open the housing at the drum support end. Slide the lower housing back away from the winch and remove.

#### Step (5)

Disconnect the buss bars or wires from the solenoid by removing the 3 solenoid bolts and nut.

#### Step (6)

Unbolt the solenoid bracket by removing the 2 mounting bracket screws on the drum support. Lift solenoid assembly from winch motor and set aside.

#### Step (7)

Remove the buss bars and/or wires from the motor. Hold the lower lock nut and remove top nut. **Important: Do not allow the motor terminals to rotate; this could cause internal wire breakage. See fig 5.**

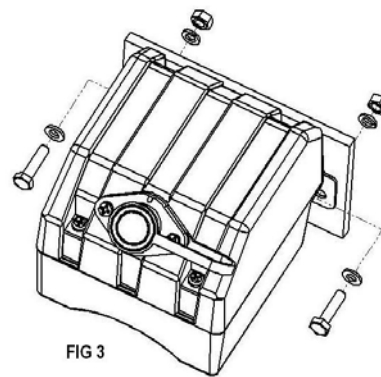
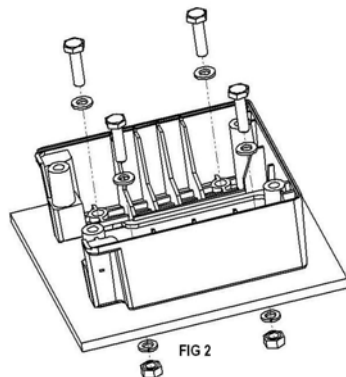
The buss bars are not used when remote mounting solenoid.

#### **▲ WARNING**

**Ensure that the wiring harness does not interfere or come in contact with any hot or moving engine, suspension, steering, braking, or exhaust parts.**

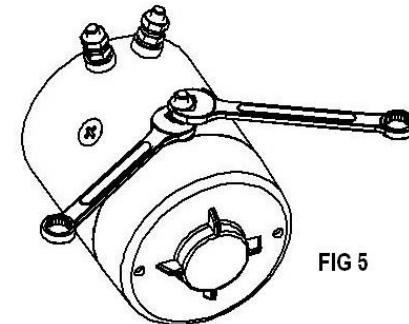
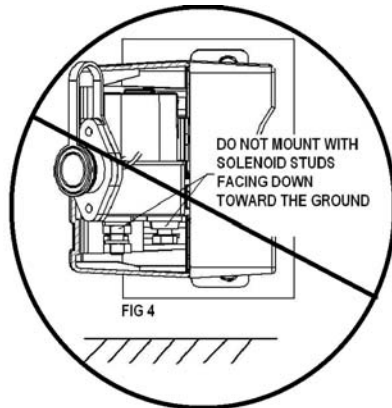
#### Step (8)

Find a location to mount the solenoid control pack. Mount the solenoid pack so the lead wires will reach the winch. The solenoid control pack is typically mounted to a horizontal or vertical surface. The solenoid pack can be foot mounted (Talon only) or bulkhead mounted. See fig 2 and fig 3. Foot mounting uses 4 mounting holes in the lower housing. Use (4) bolts (not included) to secure the lower housing to horizontal surface. Bulkhead mounting uses (2) bolts (not included) to secure to vertical surface.



**⚠ WARNING**

*Do not mount solenoid pack such that the studs of the solenoid face down. See fig 4. Mounting the control pack with the solenoid studs facing down loads the return springs with the weight of the solenoid armature. With shock and vibration loading this could cause premature spring failure due to fatigue.*



**HOLD LOWER LOCK NUT TO KEEP MOTOR STUD FROM TURNING**

**Step (9)**

Assemble the three motor 2 gage lead wires to the solenoid.

(See proper wiring diagram on pages 6 or 7).

The motor and lead wires are color coded. Assemble the 10 gage solenoid ground wire to the solenoid.

**For Talon models:**

Use supplied ground wire to replace existing ground wire. Attach to solenoid ground inside solenoid box where existing wire was removed in step 3.

**For Tiger Shark models:**

Use supplied ground, T-Tap connector, and existing ground wire to suit your installation.

Attach the red or white and yellow leads to the solenoid, slide boots on wire before attaching wire terminals to studs. Attach the battery 2 gage red lead wire and the 20 gage power lead wire from cover socket to the same solenoid bolt. Reuse the protective sleeve supplied on the battery lead. (See FIG 7 and FIG 8)

Attach the blue lead to the solenoid. Reuse the protective sleeve from the removed wire in step 7.

**⚠ WARNING**

*Be sure connectors and power leads are not contacting metal surfaces or each other.*

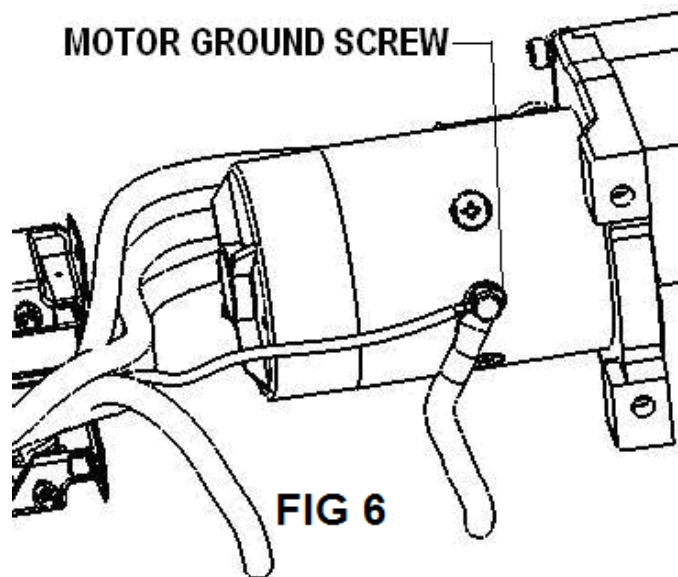
### Step (10)

Place the solenoid with bracket on the lower housing. Run the solenoid lead wires out the end of the lower housing, under the metal bracket flange. Use cable ties as required to hold lead wires in place. Recheck tightness of all connections.

Assemble the cover with the 4 screws. Attach the three lead wires to the winch motor. Hold the lower lock nut. **Important: Do not allow the motor terminals to rotate; this could cause internal wire breakage. See fig 5.**

Use terminal boots on all three motor connections. Slide boots on wire before attaching wire terminals to studs.

Assemble the 10 gage solenoid ground with the 2 gage motor ground and attach the ring terminal on the bottom of the motor or battery negative whichever is closer. Use supplied T-Tap connector to connect supplied ground wire to existing ground wire on Tiger Shark. See fig 6.



### Step (11)

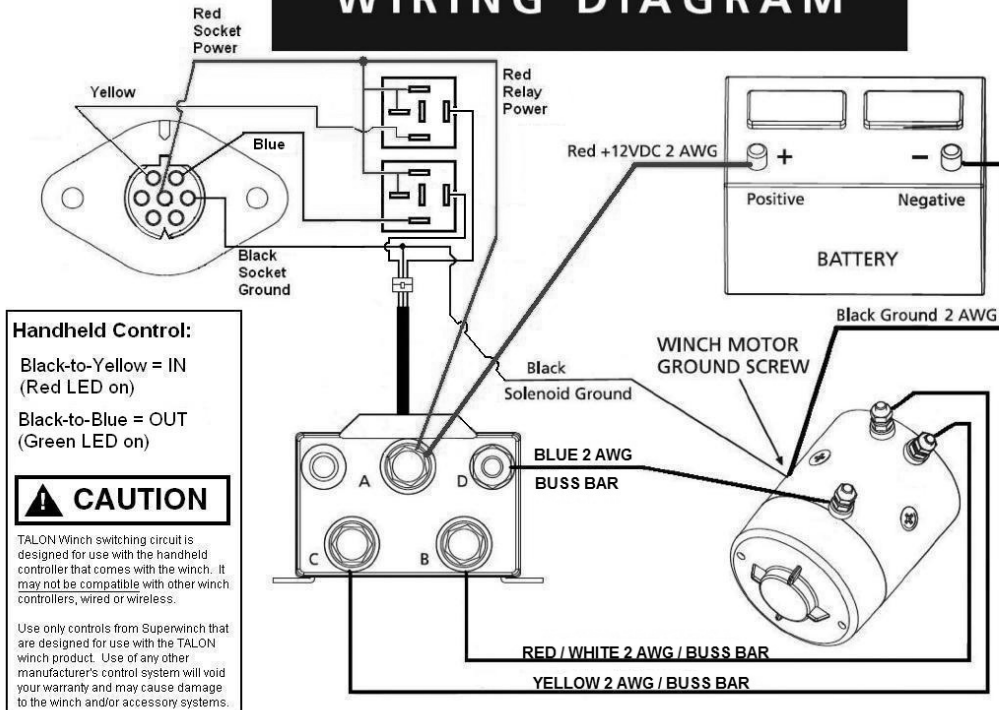
Connect positive battery lead first, followed by negative battery lead. Place winch in freespool position, and test winch forward and reverse operation. If winch operates in opposite direction, recheck wiring.

### Step (12)

Always recheck tightness of all connections before winch use.

# Talon 9.5/12.5/14.0/18.0

## WIRING DIAGRAM



# TALON WIRING HOOK UP DIAGRAM Talon 9.5/12.5/14.0/18.0

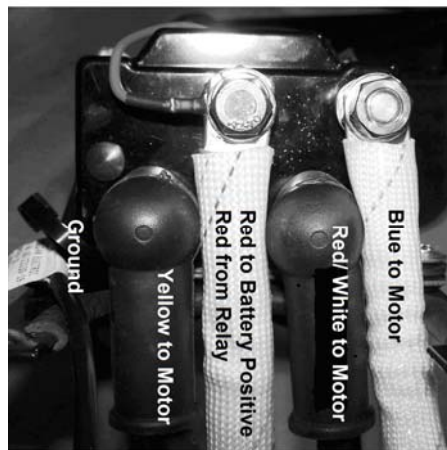


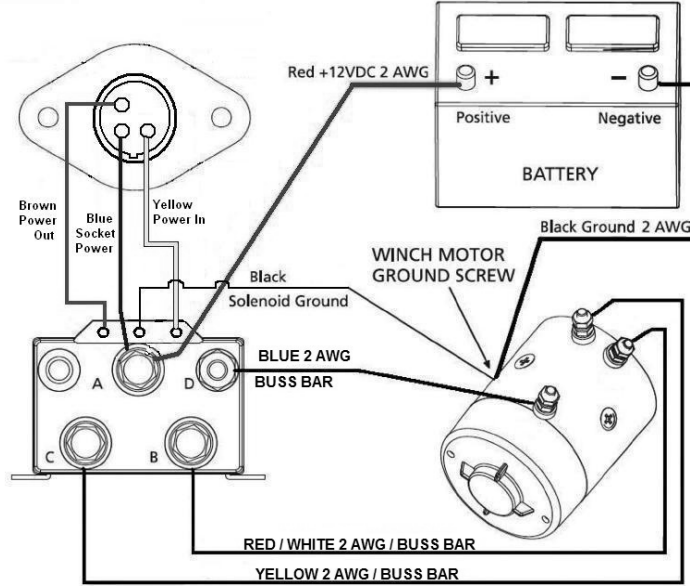
FIG 7

# Tiger Shark 13500/15500/17500

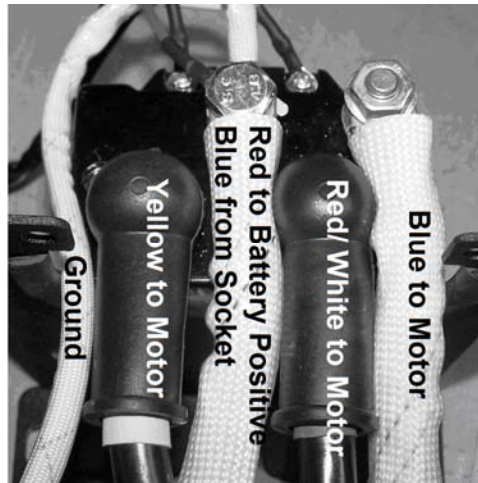
## WIRING DIAGRAM

**Handheld Control:**  
**Blue-to-Brown = Out**  
**Blue-to-Yellow = In**

**CAUTION**  
 Tiger Shark switching circuit is designed for use with the handheld control that comes with the winch. It may not be compatible with other winch controllers, wired or wireless.  
 Use only controls from Superwinch that are designed for use with this Tiger Shark winch product. Use of any other manufacturer's control system will void your warranty and may cause damage to the winch and/or accessory systems.



## TIGER SHARK WIRING HOOK UP DIAGRAM 13500/15500/17500



**FIG 8**

Superwinch, LLC.  
 359 Lake Rd  
 Dayville, CT 06241, USA  
 Tel.: (800) 323-2031  
 Fax : (860) 963-0811  
 e-mail: info@superwinch.com

Superwinch, Ltd.  
 Union Mine Road  
 Pitts Cleave,  
 Tavistock, Devon, PL19 0NS, UK  
 Tel.: +44 (0) 1822 614101  
 Fax: +44 (0) 1822 615204