

WIRING YOUR RECOVERY WINCH

The SHIFTR recovery winch utilizes a series-wound 12V DC motor. High-current delivery is managed by the solenoid pack mounted atop the motor housing, which acts as the directional switch for the drum.

WINCH TERMINAL VIEW



3-CORE CONTROL CABLE PLUG

7 Connects to the SmartControl™ box.



TERMINAL IDENTIFIERS

F1 (FIELD 1)

1 Connected to the solenoid; energized for “In” or “Out” rotation.

F2 (FIELD 2)

2 Connected to the solenoid; energized for the opposite rotation.

A (ARMATURE)

3 The common feed from the solenoid to the motor brushes.

GROUND (NEGATIVE)

4 A heavy-gauge cable connecting the motor frame directly to the trailer battery negative terminal. Provides the return path for the high-current draw and the reference for the control circuit.

POSITIVE TERMINAL

(on battery)



NEGATIVE TERMINAL

(on battery)



WARNING:

NEVER CONNECT THE BATTERY LEADS DIRECTLY TO THE MOTOR TERMINALS. POWER MUST ALWAYS BE ROUTED THROUGH THE SOLENOID PACK.

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CABLE REFERENCE



CABLE NAME

CONNECTS TO

F2-LEAD

1 Black cable, with black boot — **2** F2 (FIELD 2)

MAIN POSITIVE

2 Red, long cable (reaches battery) — **5** POSITIVE TERMINAL ON BATTERY

A-LEAD

3 Red cable, with red boot — **3** A (ARMATURE)

F1-LEAD

4 Black cable with yellow boot — **1** F1 (FIELD 1)

CONTROL GROUND

5 Black, thin, wire — **4** GROUND (NEGATIVE)

MAIN GROUND

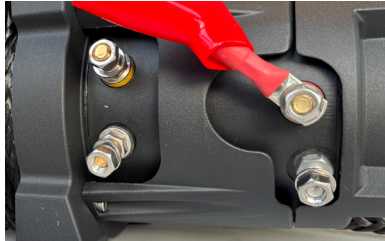
6 Black, long, cable (packed separately in box) — **4** GROUND (NEGATIVE) + **6** NEGATIVE TERMINAL ON BATTERY

3-CORE CONTROL CABLE

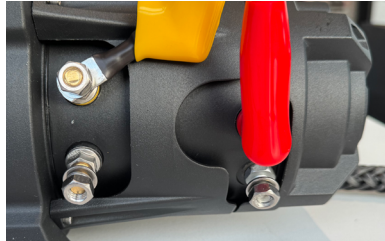
7 3-pin weatherproof plug on flexible lead — **7** 3-CORE CONTROL CONNECTOR (Inside toolbox)

WIRING STEPS

TOOLS NEEDED: 13MM SOCKET WRENCH + EXTENSION



1 A-LEAD -> A (ARMATURE)



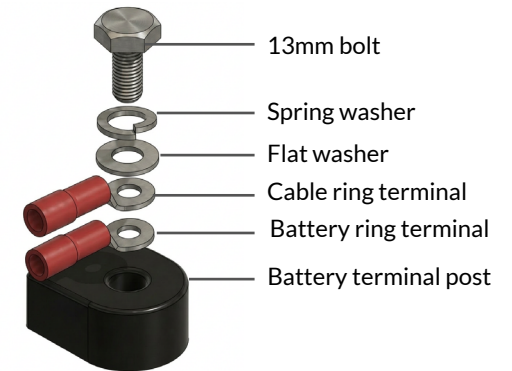
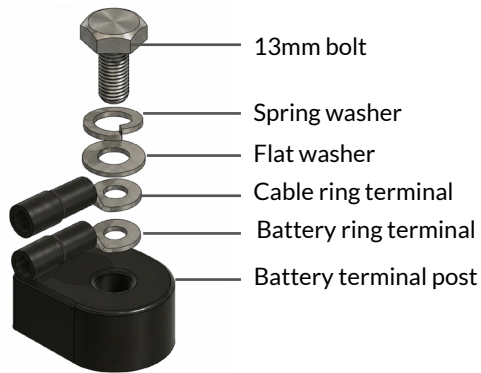
2 F1-LEAD -> F1 (FIELD 1)



3 F2-LEAD -> F2 (FIELD 2)

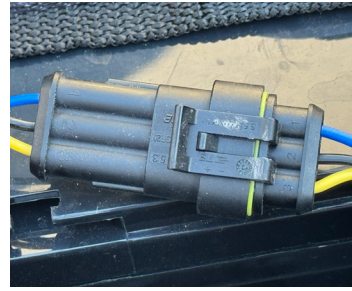
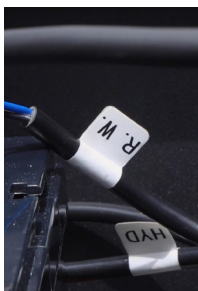


4 CONTROL GROUND + MAIN GROUND -> GROUND NEGATIVE



5 DISCONNECT NEGATIVE TERMINAL BEFORE WORKING ON POSITIVE TERMINAL

6 MAIN POSITIVE -> POSITIVE TERMINAL ON BATTERY (RECONNECT NEGATIVE AFTERWARD)



7 3-CORE CONTROL CABLE -> 3-CORE CONTROL CABLE PLUG (LABELLED RW)

THE CONTROL LOGIC (SMART CONTROL™ INTERFACE)

Beyond the heavy-gauge power cables, your winch is managed by the SmartControl™ Box. This interface allows for wireless operation via the remote. A 3-core control cable connects the SmartControl™ box to the solenoid pack.

Function: This cable carries low-voltage signals. It does not power the motor; it only "triggers" the solenoid to click into place.

Maintenance Tip: Ensure the 3-core plug is seated firmly and free of corrosion. If the winch motor has power but won't respond to the remote, the issue is likely in this control circuit or the pairing of the remote to the SmartControl™ box.