



Troubleshooting Guide

| Symptom | Possible Cause(s) | Corrective Action |
|--------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.0 POWER | | |
| Motor will not operate or runs in one direction only. | 1. Connections (including Quick Connects) | 1. Check all power connections to winch, and solenoid for loose or broken connections. |
| | 2. Motor Function | 2. If possible, connect the winch motor directly to the battery via a set of jumper cables or other means to determine if the motor is working properly. Switching the wires on the motor terminals should reverse the running direction of the motor. See Component Troubleshooting |
| 1.1 CONTROL WIRING | | |
| Motor will not operate or runs in one direction only. | 1. Connections (including Quick Connects) | 1. Roggle Switch: Check all wiring connections to switch, for loose or broken connections. Power Distribution Module (PDM): Check all wiring connections to PDM, for loose or broken connections. Solenoid: Check all wiring connections to solenoid, for loose or broken connections. |
| | 2. Defective Control Components | 2. Roggle Switch: See Component Troubleshooting PDM: See Component Troubleshooting Solenoid: See Component Troubleshooting |
| 2.0 WIRING | | |
| Winch runs backwards | 1. Motor wires reversed | 1. Check all wiring |
| | 2. Switch wires reversed | 2. Check all wiring |
| | 3. Switch installed incorrectly | 3. Check switch installation |

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| 3.0 GEARS | | |
| Motor runs but drum does not turn. | 1. Freespool clutch not engaged | 1. Engage freespool clutch |
| | 2. Damaged gears | 2. Replace gears or winch transmission |
| 4.0 WIRELESS CONTROL WIRING | | |
| Winch runs in manual mode but not with wireless. | 1. Connections | 1. Check battery connections to (PDM) (Power Distribution Module) |
| | | 1. Check Ignition Lead Connection to PDM |
| | | 1. Check Antenna Connection to PDM |
| | | 1. Check PDM Connections to Solenoid |
| | | 1. Make sure that all of the above connections are locked into their appropriate receptacles. |
| 4.1 ELECTRICAL CONTROL COMPONENTS | | |
| Winch runs in manual mode but not with wireless. | 1. Malfunctioning (PDM) (Power Distribution Module) | 1. Troubleshoot PDM See Component Troubleshooting |
| | 2. Program Fault | 2. Reprogram PDM See Component Troubleshooting Replace (PDM) if necessary |
| 5.0 MOTOR | | |
| Motor runs extremely hot. | 1. Long period of operation | 1. Allow to cool |
| | 2. Damaged motor | 2. Replace or repair motor |
| 5.1 MOTOR | | |
| Motor runs but with insufficient power or line speed. | 1. Weak battery | 1. Recharge or replace battery |
| | 2. Battery to winch wires too long | 2. Keep winch within distance allowed by lead wires |
| | 3. Poor battery connection | 3. Check battery terminals for corrosion Clean as required |
| | 4. Bad circuit breaker | 4. Pull breaker out of line and test winch with load |
| | 5. Poor ground | 5. Check and clean connections |
| | 6. Damaged motor | 6. Repair or replace motor or brushes |