



TARPING SYSTEMS & COMPONENTS

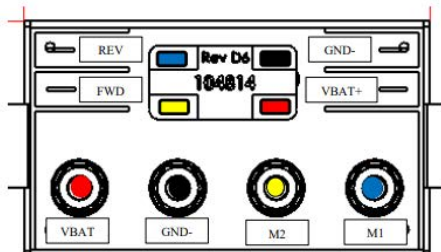
ACN 069 575 711 ABN 34 069 575 711

ROLL RITE CONTROLLER OPERATING GUIDE

CONTROLLER OPTIONS

D6 - 12VOLT AUTO (ONE TOUCH)

G2 - 24VOLT PRESS/HOLD

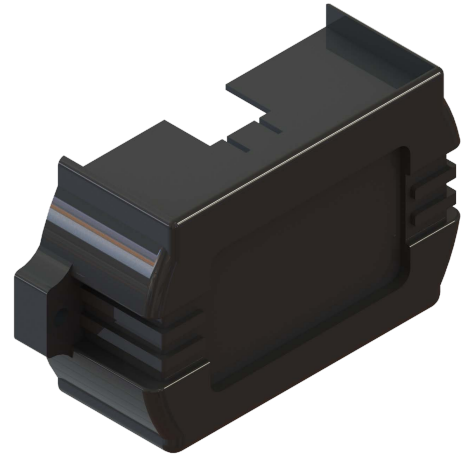


FTB HOOD TARP COLOUR CODE

RED - VBAT+
BROWN - GND-
YELLOW - FWD
WHITE - REV

STS ROLL TARP COLOUR CODE

RED - VBAT+
BROWN - GND-
WHITE - FWD
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Generation 1-Plus Rite Touch® Solid State Motor Reversing Relay (Rear View)

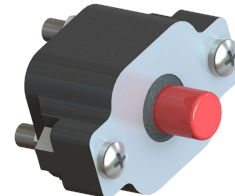
Vehicle Battery Connection Requirement

Power supply must come directly from the positive and negative terminals on the battery. **DO NOT** ground the negative through an isolator or to the chassis. The positive wire must have an approved manually resettable circuit breaker. Correct sized circuit breakers as follows:

12 Volt systems 40 AMP

24 Volt systems 20 AMP

For connections, a 175 AMP Anderson plug is recommended.



Wiring Size Specifications

When wiring the Roll Rite controller into a truck's system. The following minimum wire size is required:

* 6 B&S (Nominal area of 16 mm² per wire): Up to 15m of cable length - Rigid tippers up to 4.5m.

* 3 B&S (Nominal area of 26 mm² per wire): Between 15 to 30m of cable - Dog trailers / Semi tippers.

Undersized wiring can cause intermittent cut outs and low/under powered codes on the controller.



Failure to comply with Retractable Tarps and Roll Rite specifications and installation requirements will void warranty and may lead to potential property damage. More information can be found on the technical info page at www.retractabletarps.com.au

OPERATION

Rite Touch™ Operation (One touch functionality)

- Hold button for < 750 ms = incremental operation
- Hold Button for 750 ms – 2.5 seconds = automatic operation
- Hold button for > 2.5 seconds = normal press and hold operation

Features

- Smart over-current protection for 12 Volt systems
- Low voltage and over voltage detection
- No load/miswired/short circuit detection
- Dynamic braking (motor terminals are shunted when power is not applied)
- Ingress Protection Rating of IP56 minimum
- Intelligent motor protection built into controller to prevent overheating or accumulation of heat

Other Specifications

- Short circuit and ignition protected
- Operating Voltage: 7.5 to 15.5 Volts at no load
- Inrush current: capability to handle motor with inrush of up to 300 Amps
- Operating Temperature range (minimum): -20 to 65°C
- Positive Switching

DUTY CYCLE & LED PROTECTION

Programmed Protection Modes for 12 Volt Operation

MODE	AMP RANGE	FUNCTION
A	N/A	Check for Open load/ miswired/ short circuit condition
B	ALL	Motor overheating protection
C	50 Amp	Allow 50 Amp limit for 1 second (module self-protection)
D	80 Amp	Allow operation for 0.075 seconds (system overload protection)

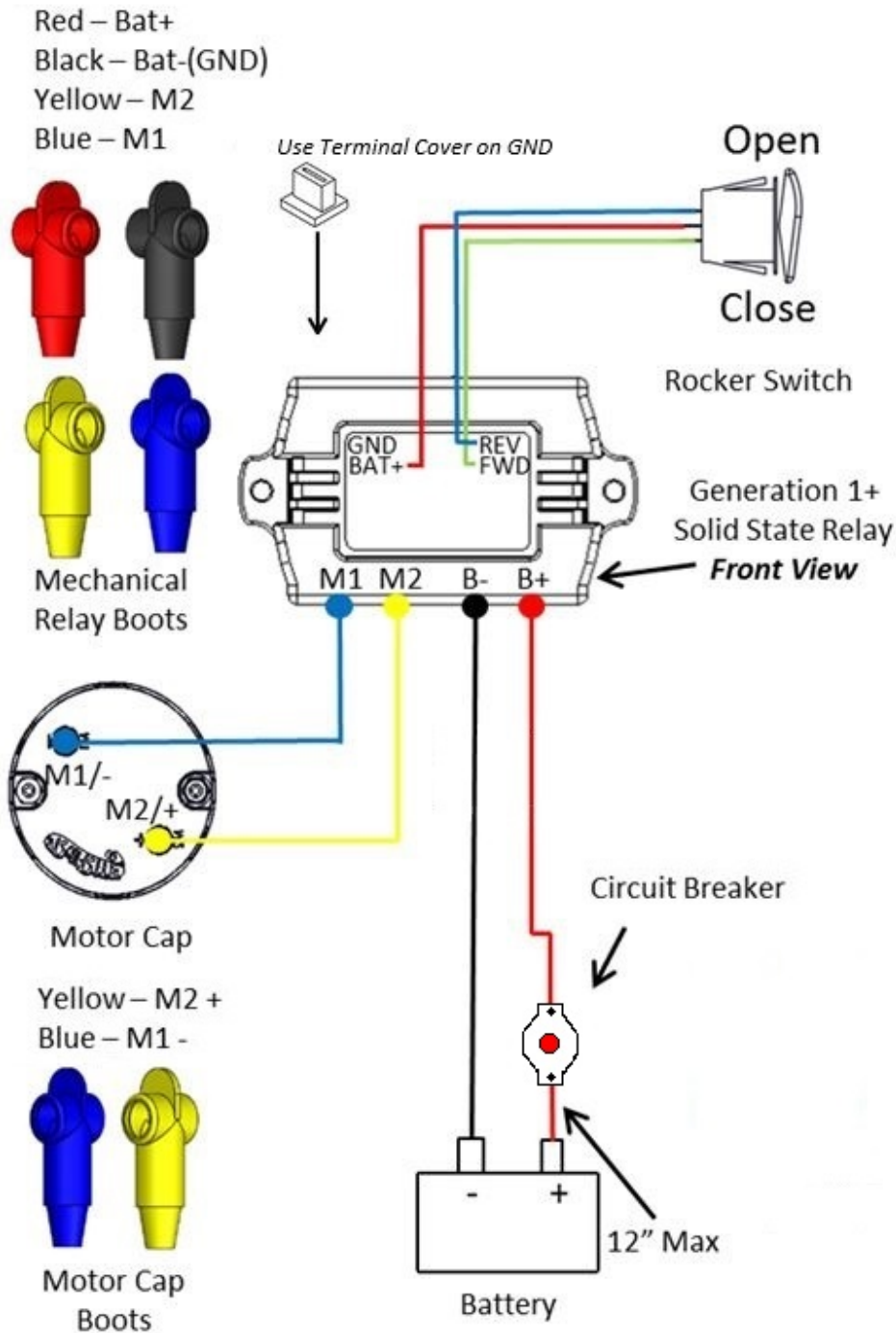
Power Status Indicators

LED ACTIVITY	CONDITION	LED DURATION
SOLID	Operating Normally	During normal operation
2 FLASH	System Protection (80 Amps + 75 ms)	Code will repeat twice then reset
3 FLASH	Module Self Protection (50 Amp + 1 s)	Code will repeat until next button press
4 FLASH	Motor Overheat Protection*	Code will repeat until next button press
5 FLASH	Over Voltage Protection (V > 15.5 V)	Code will repeat until next button press
6 FLASH	Under Voltage Protection (V < 7.5 V)	Code will repeat until next button press
7 FLASH	Wiring Fault (no load, miswired, short)	Code will repeat until next button press

*Note:

$$(Voltage \times Amperage \times (Operating Time) - 18 \times (Stationary time)) < 58,500 \text{ Joules}$$

ROLL RITE CONTROLLER WIRING DIAGRAM



- * All terminals must be covered with boots
- * Correct gauge wiring as specified MUST be used
- * Supplied circuit breaker must be installed as close to the battery as possible
- * Connecting the system to the opposite poles may cause permanent damage
- * System to be wired as per the wiring diagram ONLY
- * If using a connector, only a 175 Amp Anderson Connector plug may be used
- * Only a Retractable Tarps approved manually resettable circuit breaker may be used
- * Do not supply power directly to motor terminals on motor or controller
- * Supplying power directly to controller M1 & M2 terminals will damage controller and is not covered under warranty.