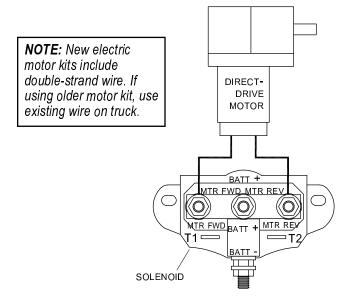
-		
<u>Item</u>	Part #	<u>Description</u>
1.	1800418	Solenoid
2.	1800602	Rocker Switch
3.	1800420	Cable Assembly
4.	1800429	Solenoid Cover
5.	1800440	Rocker Switch Bracket
6.	1800699	Lock Nut - 1/4"
7.	1800783	Bolt - 1/4" x 1 1/2"
8.	1800442	Flat Washer - 1/4" - SAE
9.	1800431	Hex Nut - 5/16"
10.	1800787	Lock Washer - 5/16"
11.	1801486	Ring Terminal - 3/8" x 8 Ga.
12.	1800430	Ring Terminal - 1/4" x 8 Ga.
13.	1800441	Butt Connector - 18-22 Ga.
14.		Circuit Breaker - 40 Amp - 12V
15.	1800802	Sheet Metal Screw - #10 x 1"

WIRE CONTROL BOX

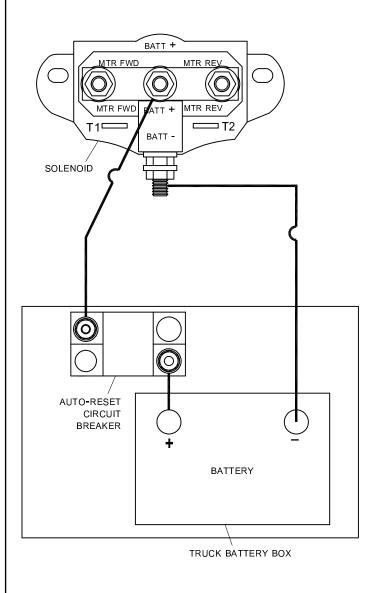
△ CAUTION

Do not spray electronic components with pressure washers or hoses.

- STEP 1: Mount solenoid in dry location, such as battery box, cab or under cab. Fasten with screws •, washers and nuts •. Do not tighten fasteners at this time. Fasten auto-reset circuit breaker to inside wall of truck's battery box with screws •.
- STEP 2: Cut dual-conductor wire long enough to run from solenoid to motor. Crimp 2 large ring-connectors on one end of wire for solenoid, and 2 ring connectors on opposite end of wire for motor. Connect wire to motor and solenoid as shown

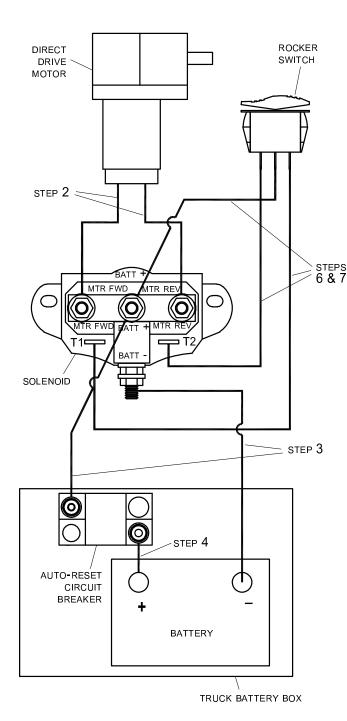


STEP 3: Cut second section of wire long enough to run from solenoid to battery. Crimp end of wire with 2 ring connectors
for solenoid. Crimp other end with ring connector
for negative post on battery (black wire). Connect end
with 2 ring connectors to posts marked BATT+ and
BATT- on solenoid. Connect opposite end of wire to
circuit breaker post marked AUX (1/4" ring connector)
and negative post of battery (3/8" ring connector).



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A CAUTION

Separate wire strands with knife to ensure wire insulation remains intact. Do not pull dual-conductor wire apart to make single strands of wire, insulation could be damaged and cause short in wire. Equipment could be damaged and personal injury could occur.

STEP 4: Cut section of remaining dual-conductor wire to make single strands of wire. Cut wire 18" long or less, enough wire to run from positive + terminal on battery to circuit breaker. Crimp one end with ring-connector for positive + battery post and other end with ring connector for ciruit breaker. Connect wire to positive + battery post and circuit breaker post marked BATT as shown in diagram.

STEP 5: Choose one method below to install rocker switch:

- Insert rocker switch into spare cutout in dashboard of truck cab.
- Cut 1 1/2" x 1 3/16" hole in dashboard of cab and install rocker switch.
- Mount rocker switch bracket in suitable location in cab of truck and fasten with screw and washers. Install rocker switch into bracket.

STEP 6: Run 3-strand jacketed wire from solenoid to rocker switch. Connect end of wire with 2 quick disconnects and 1 ring terminal to solenoid. Connect end of wire with 3 quick disconnects to rocker switch. Connect 3-strand wire to solenoid. Connect ring connector to post marked BATT+. Connect 2 quick disconnects to tabs marked T1 and T2.

NOTE: Kit includes 3 extra butt connectors **®** so excess wire can be cut and spliced instead of coiled.

STEP 7: Connect 3-stranded jacketed wire to rocker switch. Connect 3 quick-disconnects to 3 blade terminals on rocker switch. Ensure wire going to center tab on rocker switch is same wire connected to positive + post on solenoid (verify they are same color) for tarp system to work correctly.

STEP 8: Slide solenoid cover under bolt head and washers holding solenoid in place. Tighten bolt to hold cover and solenoid in place.

TEST OPERATION

STEP 9: Operate rocker switch and verify tarp direction matches label on rocker. If not, swap 2 wires connected to tabs T1 and T2 on solenoid or 2 wire connected to motor.

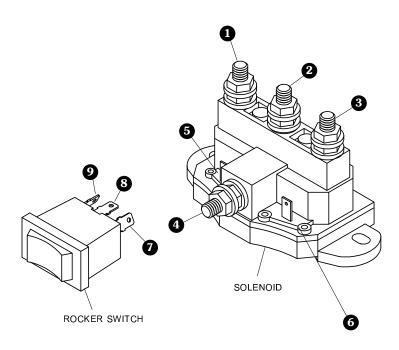
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IF DURABUILT™ MOTOR ONLY OPERATES IN ONE DIRECTION:

TRY THIS	RESULT
Switch wires connected to motor and operate motor.	If motor still runs only in same direction as before switching wires, replace motor.
	If motor runs only in opposite direction, motor is good.
2. Remove wires with quick disconnects from terminals 6 and 6 on solenoid. Run jumper from positive battery	If motor does not move at all, jumper is bad. Refasten jumper to battery and try again.
post to terminal 3 on solenoid and observe motor. Move jumper to terminal 3 and observe motor.	If motor only turns one direction, solenoid is bad. Replace solenoid.
	If motor operates in both directions, solenoid is good. Refasten wires to tabs ூ and ூ on solenoid.
3. Remove wires on rocker switch posts • and •. With voltmeter, fasten one lead to tab • on rocker switch (with wire still attached) and other lead to ground.	Verify voltage measures about 12 volts. If not 12 volts, reposition lead wires and verify ground is good.
4. Leave one lead wire on ground and, with voltmeter, place other lead wire on rocker switch tab ②. Operate switch in both directions while looking at voltmeter. Move lead wire from tab ② to tab ②, operating switch in both directions while observing voltmeter.	If voltage measures 12 volts at any time during only one test, switch is faulty. Replace switch. If voltage measures 12 volts at any time during both tests, replace wire from solenoid to switch.





IF DURABUILT MOTOR DOES NOT OPERATE

一	TRY THIS RESULT				
		RESULT			
bles	Remove wires connected to motor. Connect jumper cables from battery to motor and use voltmeter to verify 12	If there are not close to 12 volts at motor, jumper is bad. Reconnect jumper to battery and motor and repeat step 1.			
volts at motor.		If there are about 12 volts at motor, motor is bad. Replace motor.			
		If motor operates, motor is good. Reconnect wires to motor.			
2.	Remove wires connected to solenoid posts ① and ③ . Connect jumper cables from battery to wires. Use voltmeter to verify 12 volts at connection.	If there are not about 12 volts at meter, jumper is bad. Reconnect jumper and repeat step 2.			
meter to veri	meter to verify 12 voits at connection.	If there are about 12 volts and motor does not run, wire from solenoid to motor are bad. Replace wire.			
		If motor operates, wire from solenoid to motor is good. Reconnect wires to solenoid.			
3. Switch wires connected to motor and operate motor.		If motor still only runs in same direction as before wires were switched, replace motor.			
		If motor runs only in opposite direction from before wires were switched, motor is good.			
pos	Check circuit breaker. Place one lead on circuit breaker post where wires go to solenoid and other lead on negative post on battery.	If voltage measures zero volts, circuit breaker is bad. Replace circuit breaker.			
		If voltage measures about 12 volts, circuit breaker is good.			
le	Use voltmeter to check voltage at solenoid. Place one lead on terminal ② and other lead on terminal ②. Operate rocker switch while watching voltage.	If there are about 12 volts initially and voltage goes to zero while operating toggle switch, either circuit breaker is bad, connection is loose or there is bad ground. Check all electrical connections and wires. If no problem is found, replace circuit breaker.			
		If there are consistantly about 12 volts, all components up to sole- noid are working correctly.			
6.	Remove wires with quick disconnects from solenoid 3 and 3 . Run jumper cable from positive battery terminal to terminal 3 on solenoid and observe motor. Move jumper to termnal 3 and observe motor.	If motor does not move at all, solenoid is bad. Replace solenoid.			
		If motor operates in both directions, solenoid is good. Reconnect wires to terminals ⑤ and ⑥ on solenoid.			
7.	Remove outer wires from blades ② and ③ on rocker switch. Connect one lead to center blade ③ on switch (with wire still connected) and second lead to ground.	Verify there are about 12 volts. If not, reposition leads and verify ground is good. Repeat step 3.			
8.	Test 1: Using voltmeter, leave one lead on ground and place other lead on rocker switch blade ② . Operate switch in both directions while watching voltmeter.	If there are consistently 12 volts for only one test, switch is bad. Replace switch.			
	est 2: Switch lead from blade ② to blade ② and operate switch in both directions while watching voltmeter.	If there are consistently 12 volts during both tests, wire from solenoid to rocker switch is bad. Replace wire.			

See illustration on previous page.

