

**PART# 1495**  
**(Rocker Switch & 40amp Circuit Breaker)**  
**Installation Instructions**

# DURABUILT

## Solenoid Switch

### PACKING LIST

Part#	Qty	Description	Part#	Qty	Description	Part#	Qty	Description
1464	1	Solenoid	2316	2	1/4" Lock Nut	2476	4	Sheet Metal Screw
1897	1	Rocker switch	2456	2	1/4" x 1 1/2" Bolt	4092	6	3/8 inch x 6 GA Ring Terminal
1468	30'	Cable assembly	1536	6	1/4" SAE Flat Washer	1488	4	1/4 inch x 6 GA Ring Terminal
1487	1	Solenoid Cover	1490	4	5/16-24 Hex Nut	1533	3	18-22 GA Butt Connector
1532	1	Rocker Switch Bracket	2461	4	5/16" Lock Washer	1856	1	40 Amp 12 Volt Circuit Breaker

**CAUTION: AVOID SPRAYING ELECTRONIC COMPONENTS WITH PRESSURE WASHERS AND HOSES.**

1. Mount solenoid box in dry location such as battery box, cab or under cab using 1/4" bolts, washers, and lock nuts provided. Do not tighten down the solenoid box at this time. Attach auto-reset circuit breaker to inside wall of truck's battery box using self drilling screws and washers provided.

**NOTE:** 2-strand wire is supplied with new electric motor kits. If you did not purchase a new electric motor kit, use existing wire already installed on truck.

2. Cut 2-strand wire long enough to run from solenoid to direct drive motor. Crimp two large ring connectors on one end of wire (for solenoid) and two smaller ring connectors on opposite end of wire (for motor). Connect wire to motor and solenoid as shown in diagram below.
3. Cut second piece of wire long enough to run from solenoid to battery. Crimp one end with two large ring connectors (for solenoid). Crimp opposite end with one small ring connector (for circuit breaker) and one large ring connector for negative (-) post of battery. Connect end with two large ring connectors to the posts marked "Batt (+)" and "Batt (-)" on solenoid. Using diagram below, connect opposite end of wire to circuit breaker post marked "AUX" (small ring connector) and negative (-) post of battery (large ring connector) as shown.

**CAUTION:** In step 4, separate strands with a knife to ensure outer coating of wire remains intact. **DO NOT PULL** the 2-strand wire apart to make it a single strand wire. This could pull the coating off the wire and could cause a short in the wire. This could cause equipment damage or personal injury.

4. **CUT** section of remaining 2-strand wire to make it a single strand wire. Cut a length of this wire long enough to run from positive (+) terminal of battery to circuit breaker. Crimp one end with a large ring connector (for positive (+) battery post) and other end with a small ring connector (for circuit breaker). Connect wire to positive (+) battery post and circuit breaker post marked "BAT" as shown in diagram on next page.

### INSTALLING ROCKER SWITCH

**NOTE:** If you purchased the optional toggle switch, refer to steps 5-9 of pag 3 (Part #1497QF)

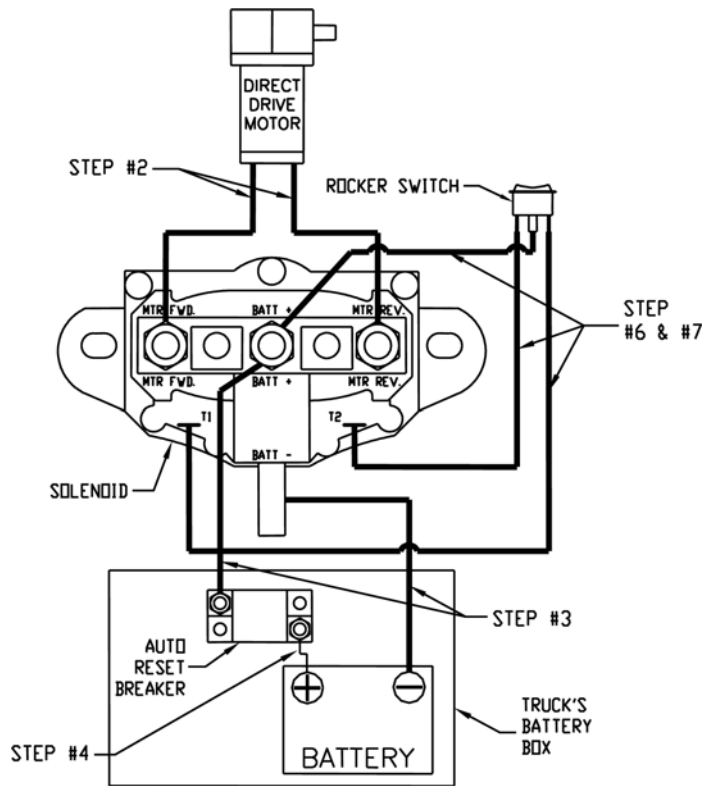
5. Choose one of the three options below for installing the rocker switch:
  - Insert rocker switch into spare cutout in dashboard of truck.
  - Cut a 1 1/2" x 13/16" hole in dashboard for rocker switch and insert rocker switch.
  - Mount supplied rocker switch bracket in a suitable location in cab of truck using self drilling screws and washers provided.
  - Insert rocker switch into bracket.

**NOTE:** For step 6: Kit includes three extra butt connectors if you prefer to cut and splice excess wire instead of coiling excess.

6. Run 3-strand jacketed wire from solenoid to rocker switch. Connect end of wire with two quick disconnects and one ring terminal to solenoid. Connect end of wire with three quick disconnects to rocker switch. Attach 3-strand jacketed wire to solenoid. Connect ring connector to post marked "BATT +". Connect two quick disconnects to tabs marked "T1" and "T2".
7. Attach 3-strand jacketed wire to rocker switch by connecting the three quick disconnects to three blade terminals on rocker switch. Ensure wire going to center tab on rocker switch is the same wire that is attached to positive (+) post on solenoid (verify they are same color) for tarping system to work properly.
8. Slide solenoid cover under bolt heads and washers holding solenoid in place. Tighten bolts to hold cover and solenoid in place.

### TEST OPERATION

9. Operate rocker switch and verify tarp direction matches label on rocker. If not, swap either the two wires attached to tabs "T1" and "T2" on solenoid **OR** the 2 wires attached to motor.



**Donovan Enterprises**  
**3353 Gran Parkway, Stuart, FL 34997**  
**1-800-327-8287**  
**www.donovan-ent.com**

**PART #1497**  
**(Rocker Switch & 60amp Circuit Breaker)**  
**Installation Instructions**

# DURABUILT

## Solenoid Switch

### PACKING LIST

Part#	Qty	Description	Part#	Qty	Description	Part#	Qty	Description
1464	1	Solenoid	2316	2.0	1/4" Lock Nut	2461	4	5/16" Lock Washer
1897	1	Rocker switch	2456	2.0	1/4" x 1 1/2" Bolt	1533	3	18-22 GA Butt Connector
1468	30'	Cable assembly	1536	6.0	1/4" SAE Flat Washer	758	6	3/8 inch x 4 GA Ring Terminal
1487	1	Solenoid Cover	1490	4.0	5/16-24 Hex Nut	1080	4	1/4 inch x 4 GA Ring Terminal
1532	1	Rocker Switch Bracket				1461	1	60 Amp 12 Volt Circuit Breaker
						2476	4	Sheet Metal Screw

**CAUTION: AVOID SPRAYING ELECTRONIC COMPONENTS WITH PRESSURE WASHERS AND HOSES.**

1. Mount solenoid box in dry location such as battery box, cab or under cab using 1/4" bolts, washers, and lock nuts provided. Do not tighten down the solenoid box at this time. Attach auto-reset circuit breaker to inside wall of truck's battery box using self drilling screws and washers provided.

**NOTE:** 2-strand wire is supplied with new electric motor kits. If you did not purchase a new electric motor kit, use existing wire already installed on truck.

2. Cut 2-strand wire long enough to run from solenoid to direct drive motor. Crimp two large ring connectors on one end of wire (for solenoid) and two smaller ring connectors on opposite end of wire (for motor). Connect wire to motor and solenoid as shown in diagram below.
3. Cut second piece of wire long enough to run from solenoid to battery. Crimp one end with two large ring connectors (for solenoid). Crimp opposite end with one small ring connector (for circuit breaker) and one large ring connector for negative (-) post of battery. Connect end with two large ring connectors to the posts marked "Batt (+)" and "Batt (-)" on solenoid. Using diagram below, connect opposite end of wire to circuit breaker post marked "AUX" (small ring connector) and negative (-) post of battery (large ring connector) as shown.

**CAUTION:** In step 4, separate strands with a knife to ensure outer coating of wire remains intact. **DO NO PULL** the 2-strand wire apart to make it a single strand wire. This could pull the coating off the wire and could cause a short in the wire. This could cause equipment damage or personal injury.

4. **CUT** section of remaining 2-strand wire to make it a single strand wire. Cut a length of this wire long enough to run from positive (+) terminal of battery to circuit breaker. Crimp one end with a large ring connector (for positive (+) battery post) and other end with a small ring connector (for circuit breaker). Connect wire to positive (+) battery post and circuit breaker post marked "BAT" as shown in diagram on next page.

### INSTALLING ROCKER SWITCH

**NOTE:** If you purchased the optional toggle switch, refer to steps 5-9 of page 3 (Part #1497QF)

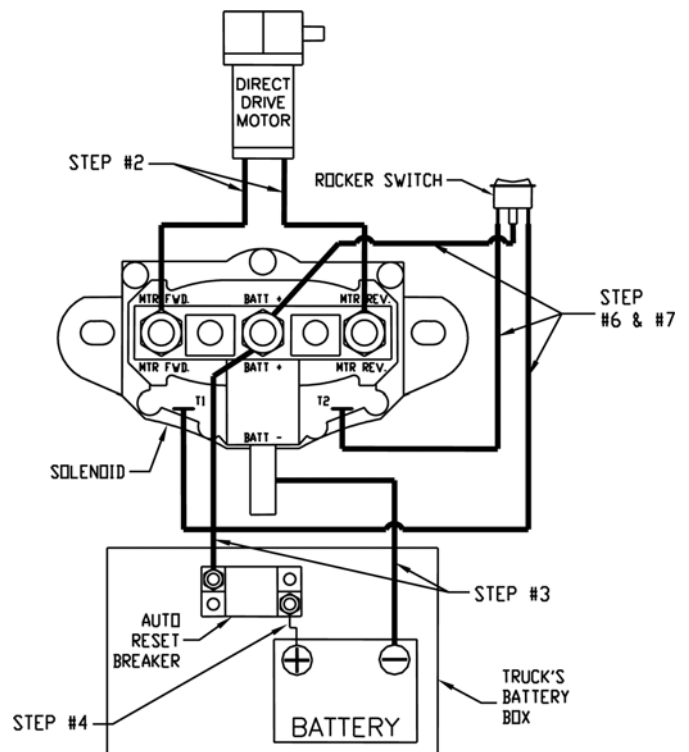
5. Choose one of the three options below for installing the rocker switch:
  - Insert rocker switch into spare cutout in dashboard of truck.
  - Cut a 1 1/2" x 13/16" hole in dashboard for rocker switch and insert rocker switch.
  - Mount supplied rocker switch bracket in a suitable location in cab of truck using self drilling screws and washers provided. Insert rocker switch into bracket.

**NOTE:** For step 6: Kit includes three extra butt connectors if you prefer to cut and splice excess wire instead of coiling excess.

6. Run 3-strand jacketed wire from solenoid to rocker switch. Connect end of wire with two quick disconnects and one ring terminal to solenoid. Connect end of wire with three quick disconnects to rocker switch. Attach 3-strand jacketed wire to solenoid. Connect ring connector to post marked "BATT +". Connect two quick disconnects to tabs marked "T1" and "T2".
7. Attach 3-strand jacketed wire to rocker switch by connecting the three quick disconnects to three blade terminals on rocker switch. Ensure wire going to center tab on rocker switch is the same wire that is attached to positive (+) post on solenoid (verify they are same color) for tarping system to work properly.
8. Slide solenoid cover under bolt heads and washers holding solenoid in place. Tighten bolts to hold cover and solenoid in place.

### TEST OPERATION

9. Operate rocker switch and verify tarp direction matches label on rocker. If not, swap either the two wires attached to tabs "T1" and "T2" on solenoid **OR** the 2 wires attached to motor.



**Donovan Enterprises**  
**3353 Gran Parkway, Stuart, FL 34997**  
**1-800-327-8287**  
**www.donovan-ent.com**

**PART #1497QF**  
**(Toggle Switch & 60amp Circuit Breaker)**  
**Installation Instructions**

# DURABUILT

## Solenoid Switch

### PACKING LIST

Part#	Qty	Description	Part#	Qty	Description	Part#	Qty	Description
1464	1	Solenoid	1487	1	Solenoid Cover	3508	1	Switch Mounting Plate
2316	2	1/4" Lock Nut	1490	4	5/16-24 Hex Nut	1080	4	1/4 inch x 4 GA Ring Terminal
1536	6	1/4" SAE Flat Washer	2461	4	5/16" Lock Washer	758	6	3/8 inch x 4 GA Ring Terminal
2456	2	1/4" x 1 1/2" Bolt	2476	4	Sheet Metal Screw	1461	1	60 Amp 12 Volt Circuit Breaker
4615	1	Toggle Switch and Wire Assembly				1533	3	18-22 GA Butt Connector

**CAUTION: AVOID SPRAYING ELECTRONIC COMPONENTS WITH PRESSURE WASHERS AND HOSES.**

1. Mount solenoid box in dry location such as battery box, cab or under cab using 1/4" bolts, washers, and lock nuts provided. Do not tighten down the solenoid box at this time. Attach auto-reset circuit breaker to inside wall of truck's battery box using self drilling screws and washers provided.

**NOTE:** 2-strand wire is supplied with new electric motor kits. If you did not purchase a new electric motor kit, use existing wire already installed on truck.

2. Cut 2-strand wire long enough to run from solenoid to direct drive motor. Crimp two large ring connectors on one end of wire (for solenoid) and smaller ring connectors on other end of wire (for motor). Connect wire to motor and solenoid as shown in diagram below.
3. Cut second piece of wire long enough to run from solenoid to battery. Crimp one end with two large ring connectors (for solenoid) and other end with one small ring connector (for circuit breaker) and one large ring connector (for negative (-) post of battery). Connect this wire to the negative (-) post of battery, circuit breaker post marked "AUX" and solenoid post marked "BATT (-)" as shown in diagram below.

**CAUTION:** In step 4, separate strands with a knife to ensure outer coating of wire remains intact. **DO NOT PULL** the 2-strand wire apart to make it a single strand wire. This could pull the outer coating off the wire and could cause a short in the wire. This could cause equipment damage or personal injury.

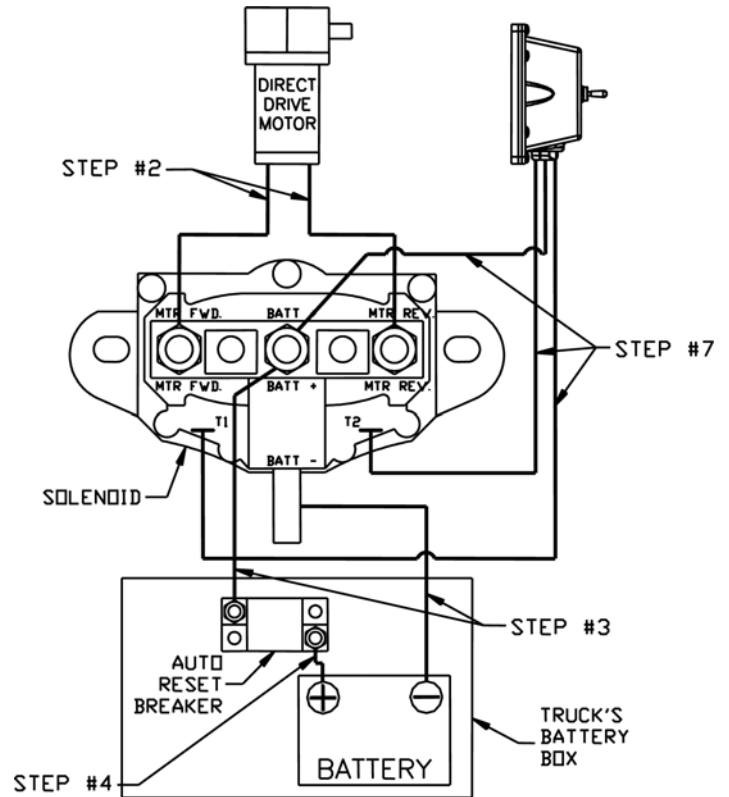
4. **CUT** section of remaining 2-strand wire to make it a single strand wire. Cut a length of this wire long enough to run from positive (+) terminal of battery to circuit breaker. Crimp one end with a large ring connector (for positive (+) battery post) and other end with a small ring connector (for circuit breaker). Connect wire to positive (+) battery post and circuit breaker post marked "BAT" as shown in diagram on next page.

### INSTALLING TOGGLE SWITCH

5. Weld the toggle switch mounting plate in a location that is easily accessible for the driver to operate the tarping system.
6. Mount supplied toggle switch to the switch mounting plate using self drilling screws and washers provided.
7. Run 3-strand jacketed wire coming out of the toggle switch to solenoid. Attach 3-strand jacketed wire to solenoid. Connect ring connector to post marked "BATT +". Connect two quick disconnects to tabs marked "T1" and "T2".
8. Slide solenoid cover under bolt heads and washers holding solenoid in place. Tighten bolts to hold cover and solenoid in place.

### TEST OPERATION

9. Operate toggle switch and verify tarp direction matches label on rocker. If not, swap the two wires attached to tabs "T1" and "T2" on solenoid **OR** 2 wires attached to motor.



# PART #85N

(Rotary Switch & 40amp Circuit Breaker)

## Installation Instructions

### PACKING LIST

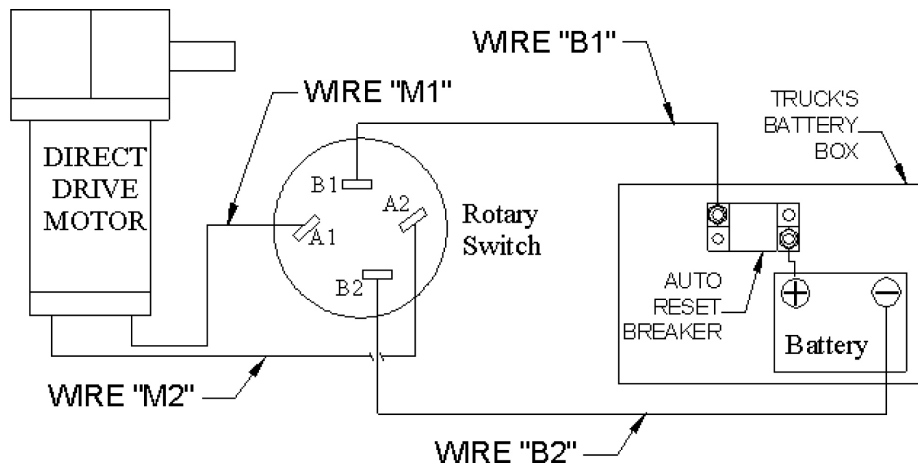
Part#	Qty	Description	Part#	Qty	Description	Part#	Qty	Description
600	1	Rotary Switch	2476	2	Sheet Metal Screw	4092	2	3/8" x 8 GA Ring Terminal
1749	1	Rotary Switch Bracket	2432	2	1/4" x 5/8" Bolt	1488	8	1/4" x 8 GA Ring Terminal
2457	2	1/4" Flat Washer	2316	2	1/4" Lock Nut	1796	1	40 Amp Circuit Breaker

#### **CAUTION: AVOID SPRAYING ELECTRONIC COMPONENTS WITH PRESSURE WASHERS AND HOSES.**

1. Mount supplied switch bracket in a suitable location in cab of truck using 1/4" bolts, washers, and lock nuts provided. Attach auto-reset circuit breaker to inside wall of truck's battery box using self drilling screws and washers provided.

**NOTE:** 2-strand wire is supplied with new electric motor kits. If you did not purchase a new electric motor kit, use existing wire already installed on truck.

2. Cut 2-strand wire long enough to run from rotary switch to direct drive motor. Crimp four smaller ring connectors (two on each end) on ends of wire. Connect wire from A1 post on switch to either post on motor. Connect wire from A2 post on switch to remaining open post on motor..



3. Cut second piece of wire long enough to run from rotary switch to battery. Crimp one end with two small ring connectors (for switch). Crimp opposite end with one small ring connector (for circuit breaker) and one large ring connector for negative (-) post of battery. Connect end with two small ring connectors to the posts marked "B1" and "B2" on switch. Using diagram above, connect opposite end of wire to circuit breaker post marked "AUX" (small ring connector) and negative (-) post of battery (large ring connector) as shown (wires labeled B1 and B2).

**CAUTION: In step 4, separate strands with a knife to ensure outer coating of wire remains intact. Do not pull the 2-strand wire apart to make it a single strand wire. This could pull the coating off the wire and could cause a short in the wire. This could cause equipment damage or personal injury.**

4. Cut section of remaining 2-strand wire to make it a single strand wire. Cut a length of this wire long enough to run from positive (+) terminal of battery to circuit breaker. Crimp one end with a large ring connector (for positive (+) battery post) and other end with a small ring connector (for circuit breaker). Connect wire to positive (+) battery post and circuit breaker post marked "BAT" as shown in diagram above.

#### **TEST OPERATION**

5. Operate Rotary switch and verify tarp direction matches label on Rotary. If not, swap the two wires attached to posts labeled "A1" and "A2" on rotary switch or 2 wires attached to motor.

**Donovan Enterprises**  
3353 Gran Parkway, Stuart, FL 34997  
1-800-327-8287  
www.donovan-ent.com