



Power Roller Cutout Option

Models Affected: BE-SL/DS/TS/QS*

Tech Tip
TT-956

Subject:

The Power Roller Cutout option for the Operator Aboard Battery Extractor (BE) prevents accidental discharge of batteries from the BE roller bed. The option disables the power rollers of the BE, requiring additional input from the operator to move a battery completely off the BE.

Description:

The Power Roller Cutout option consists of one or two photo-electric sensors, two solenoid control valves, and a push-button-operated, normally closed switch. A single photo-electric sensor can be used to protect against discharge from both compartments on either the left or right of the BE (BE-PRC-1). If protection is required on both sides, two sensors are required (BE-PRC-2). The sensor(s) are mounted at the outer edge on the operator's side of the near roller compartment. The corresponding reflector(s) are mounted at the far side of the far roller compartment so that a battery in either roller compartment will be recognized. When the photo-electric sensor's beam is interrupted, the solenoid valves installed in each of the power roller drive motor circuits are activated, disabling the power rollers in both compartments. The operator must depress and hold the override button on the dashboard in order to enable the power rollers while the battery is blocking the photo-electric sensor. Once the battery passes beyond the sensor beam the power roller operation returns to normal.

Recommendation:

The BE-PRC-1 and BE-PRC-2 are available options on all BE's which utilize power rollers. Parts kits are also available for field installation on existing BE units. Contact the BHS Technical Support Department or your local BHS Dealer for information on the required kit for your specific BE.

Information on the Power Roller Cutout kits, as well as all parts kits, Tech Tips, Planned Maintenance Checklists, and more are available on our website at BHS1.com. Find BHS Technical Literature under the Library tab.

* Power Roller Cutout is standard on QS models



Photo-electric sensor and reflector as mounted on SL and DS extractors.



Solenoid valves mounted in center compartment under extractor arm.



Power Roller Cutout override button mounted on dashboard.

BHS		Technical Support Department	
BATTERY HANDLING SYSTEMS		1.877.BHS.4YOU (1.877.247.4866) • BHS1.com	
		M-F 8:00 A.M. - 5:00 P.M. CT (GMT-6)	
BE-TS SINGLE SIDE POWER ROLLER CUT-OUT RETRO KIT P/N: 80332001			
QTY	PART#	DESCRIPTION	PAGES LIST CONTINUED
1	41217069	COMPONENT MOUNTING PLATE	2 HW0104 WASHER-FLAT-1/8" SAE
1	43815229	CONDUCTOR GUARD	4 HW0103 WASHER-LOCK-1/4"
1	41217170	MOUNTING PLATE-PHOTO EYE	1 00142001-11 HOSE ASSEMBLY-1/4" X 2 1/4"
1	41217171	MOUNTING PLATE-REFLECTOR	1 00142001-01 HOSE ASSEMBLY-1/4" X 1 1/4"
1	E1321	PHOTO EYE	1 E0358 CONTACT BLOCK-NC
1	E1321-R	REFLECTANT REFLECTOR	1 E0358 PUSH BUTTON
3	ES011	BOX-JUNCTION-2" X 4"	2 HW0216 SCREW-#10-24 X 2"
1	ES012	COVER-BOX JUNCTION	2 SS0126 BOLT-#8-32 X 1/4" 20 X 2"
5	ES016	RESTRAINT-1/2"	2 SS0003 SCREW-#8-32 X 3/8"
11	ES017	LOCKOUT-CONDUIT-1/2"	2 SS0202 NUT-#8-32 X 1/4"
4	ES023	RESTRAINT-1/2" 30 DEG	8 HW0300 BOLT-SELF DRIP-1/4" 20 X 1 1/2"
2	HC0281	VALVE-2 WAY SOLENOID-NO	28 ES055 16-3 SCL CABLE
2	BU001	1/2" CLOSE NIPPLE	1 41215167 BRACKET MOUNTING INSTRUCTIONS
1	H1600	ADAPTER-30 DEG-#6 JIC X #8 SAE	1 41230003 ELECTRICAL SCHEMATIC
2	H1546	ADAPTER-#6 JIC X #8 SAE	1 43086017 PLACARD-POWER ROLLER C/O
2	HW0035	BOLT-#8-32 X 1/4" 20 X 2"	1 80332001-1 INSTALLATION INSTRUCTIONS
2	HW0002	NUT-HEX-1/4" 20	

Parts kits available for installation on existing extractors.

For more information call: 1.877.BHS.4YOU
(Outside the U.S. +1 314 890 0953)

