



Traditionally, setting bridge plugs and firing perforating guns have required two separate wireline runs. In an effort to streamline operations and reduce time on location, the practice of setting bridge plugs and firing perforating guns have been combined on a single, wireline tool string. The Plug and Shoot or Plug and Perf operation has become commonplace in the horizontal gas/shale plays. Owen has developed a Plug and Shoot system consisting of a single sub that connects to standard and proven hardware components used in select-fire perforating. Not only is the hardware standard but the system allows service company personnel to assemble the bottom perforating gun similar to any other select-fire gun in the string. In addition, the Owen system offers advantage over the other systems on the market due to the availability of 350F rated and 450F rated components and eliminates an extra set of wires which has previously been the source of some failures. A dual diode is used to electrically isolate the circuit of the setting tool from the perforating gun. Dual diodes, being hard wired internally, need no outside influence to arm either gun.

**EBDD (DIODE SWITCH)**

Hard wired dual diode switch. Full function can be checked with a meter or shooting panel. White wire connects to through wire in gun (through circuit), black or red wire (according to polarity preference) connects to detonator of upper gun. Lower gun circuit connects to pin on downhole end of switch. This switch is designed to control two guns or first two guns of multiple gun string. Only one dual diode switch can be used per gun string. Polarity designation

- EBDD-P (Positive First) black wire (w/blue stripe) to upper detonator
- EBDD-N (Negative First) red wire (w/blue stripe) to upper detonator
- White through circuit wire designates dual diode from pressure switch
- Rating: 350° F (450° F available) @ 15,000 psi for 1 hour

Item	Part Number	Description
1	S31-XXXX-XXXX	3-1/8IN TAG GUN ASSEMBLY
	S33-XXXX-XXXX	3-3/8IN TAG GUN ASSEMBLY
	S40-XXXX-XXXX	4IN TAG GUN ASSEMBLY
2	-	3-1/8IN SWITCH SUB
	-	3-3/8IN SWITCH SUB
	-	4IN SWITCH SUB
3	PUR-EBDD-000	EB DUAL DIODE SWITCH
4	TAG-SFRN-000	SELECT FIRE RETAINER NUT, PLUG & SHOOT
5	TAG-3125-073	3-1/8IN PLUG & SHOOT ADAPTER SUB
	TAG-3375-073	3-3/8IN PLUG & SHOOT ADAPTER SUB
	TAG-4000-075	4IN PLUG & SHOOT ADAPTER SUB "Optional set screw - PUR-0504-034"
6	AES-1-0087A	CONTACT RECEPTACLE
	ADP-1437-013	CONTACT RECEPTACLE, PLUG AND SHOOT, SOLID
7	ADP-1437-008PS	THREADED CONTACT PIN (FOR APPLIED QC)
	ADP-1437-010PS	THREADED CONTACT PIN (FOR TITAN QC)
8	AES-AS90028	QUICK CHANGE GO
9	-	SETTING TOOL TOP SUB