

Jacobs Engine Brake[™] Service Letter No. 455R

SUBJECT: Solenoid Valve Application Guide For Caterpillar Products

MODELS AFFECTED: 310, 310A, 317, 317A/B/C/D/E, C336, 336A, 340, 340A, 346A/B/C/D, 349 and 349A

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A number of new solenoid valve designs and configurations have been developed recently by Jacobs. The new solenoid valves have been incorporated into new production engine brakes as running changes. The new solenoid valves can also be used as service parts for older model brakes. The table below lists the current production and the recommended service part solenoid valve application for the engine brakes used on Caterpillar engines.

Brake	Current Production		Service Part	
Model	12 VDC	24 VDC	12 VDC	24 VDC
310	-	-	01-021255	-
310A	021255	021253	01-021255	01-021253
312A	021255	021253	01-021255	01-021253
317	-	-	01-021254	-
317A/B/C	-	-	01-021254	-
317D/E	021254	-	01-021254	-
C336	020239	020236 S/L-B	01-020239	01-020236 S/L-B
	-	020235 D/L-B	-	01-020235 D/L-B
336A	020239	020236	01-020239	01-020236
340	-	-	01-019650	-
340A	019650	021253	01-019650	01-021253
346A/B/C	-	-	01-020237	01-020238 S/L-S ^{(1) (3)}
346D	020237	020238 S/L-S	01-020237	01-020238 S/L-S ^{(1) (3)}
	-	020235 D/L-B	-	01-020235 D/L-B ⁽³⁾
349	-	-	01-020239(2)	-
349A	020239	-	01-020239(2)	-

Notes:

- ⁽¹⁾ Use harness P/N 018458 to connect to bullet-type spacer terminal. Use harness P/N 007450 to connect to blade-type spacer terminal.
- ⁽²⁾ Use harness P/N 021075 to connect to blade-type spacer terminal. Use harness P/N 020977 to connect to bullet-type spacer terminal.
- ⁽³⁾ When installing the solenoid, check to ensure the screw, screw terminal or blade is positioned so that it does not contact the brake housing.

The table below presents a description of the configuration of the solenoid valve part numbers listed above.

Part No.	Head Style	Voltage	Electrical Lead Attachment Style
019650	12-point head	12 VDC	Dual Lead Horizontal Blade
020235	6-point head	24 VDC	Dual Lead Vertical Blade (D/L-B)
020236	6-point head	24 VDC	Single Lead Vertical Blade (S/L-B)
020237	6-point head	12 VDC	Single Lead Screw
020238	6-point head	24 VDC	Single Lead Screw (S/L-S)
020239	6-point head	12 VDC	Single Lead Vertical Blade
021253	6-point head	24 VDC	Dual Lead Horizontal Blade
021254	6-point head	24 VDC	Single Lead Horizontal Blade
021255	6-point head	12 VDC	Dual Lead Horizontal Blade

The solenoid changes listed above are product improvements and are not subject to campaign. Inventory of originally specified solenoid valve part numbers as published in Jacobs Parts Manuals and Service Letters may continue to be used.