



SERVICE BULLETIN

LIMITED
DISTRIBUTION

DATE: June 12, 1995

LIMITED DISTRIBUTION — PERKINS ENGINE COMPANY

SUBJECT: ENGINE GEAR AND PUMP AIR TIMING ANGLE CHANGE PUMP MODELS AFFECTED: DB2435-4989 AND 5033

In order to centralize the pump flange kidney slots with respect to the pump mounting bolts on the engine, Perkins has changed their engine injection pump drive gear and asked Stanadyne to change the air timing angle and the Perkins part number on the affected pump models. These pump models are used on Caterpillar B Series Backhoe applications.

The customer part number and timing angle changes are shown below. Please note that the Stanadyne pump model number did not change.

<u>Pump Model Number</u>	<u>Customer Part No. With Original Pump Drive Gear 101-3878</u>	<u>Air Timing Angle</u>	<u>Customer Part No. With Current Pump Drive Gear 118-9114</u>	<u>Air Timing Angle</u>
DB2-4989	2643U202	287°	2643U213	295°
DB2-5033	2643U203	287°	2643U214	295°

Engine Serial Number Break Information

The following engine serial number information is offered. More information may be obtained from a Caterpillar dealer.

<u>Caterpillar Production:</u>	<u>Backhoe Model</u>	<u>Engine Serial No.</u>
	416B	8SG05559, 8ZK02245
	426B	5YJ01566
	436B	6MJ00667
	428B	7EJ02989
	438B	3KK01195

These serial number breaks are for when the gear change and timing angle were changed but prior to the customer part number change on the pump nameplate.

Perkins Engine Production: 5HK13090

This serial number break includes the the gear change, the timing mark location change as well as the customer part number change on the pump nameplate.

To eliminate the potential for timing problems associated with intermixing of pumps with either of the two timing angles with engines having either of the two engine gears, Stanadyne recommends placing marks at both 287° and 295° on 4989 and 5033 pumps when they are serviced as shown on page 2. It is also suggested that a copy of this bulletin be provided with each repaired or rebuilt 4989 or 5033 pump model being returned or provided to a customer so they will understand the presence of the two timing marks.

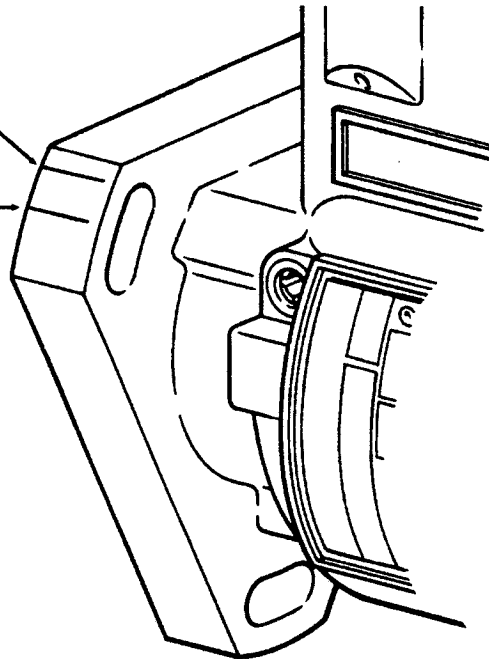
Air Timing of DB2-4989 and DB2-5033 Pump Models

287° Timing Mark Location

(Use for engines with injection
pump drive gear 101-3878)

295° Timing Mark Location

(Use for engines with injection
pump drive gear 118-9114)



**Technical Support Group
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