

SERVICE BULLETIN



SERVICE DEPARTMENT
DODGE

DIVISION OF CHRYSLER CORPORATION

TO ALL DIRECT DEALERS AND DEALERS:

Effective with engine #T126-1100 a change was made in the W series Diesel engines from a timing chain to a gear drive for the camshaft and fuel injection pump.

This necessitated changes in the fuel injection pump. These changes are such that in no case should the old type pump be used on trucks with the gear drive although the new pumps can be used on trucks with the timing chain.

PROCEDURE FOR SETTING CAMSHAFT AND FUEL PUMP TIMING ON
DODGE DIESEL ENGINES EQUIPPED WITH TIMING GEARS INSTEAD
OF A TIMING CHAIN

The camshaft is gear-driven by the crankshaft. The correct camshaft timing is established by registering the mark "O" on the camshaft gear with the mark "O" on the crankshaft gear. The fuel pump is gear-driven by the camshaft gear. The fuel pump drive gear which runs in mesh with the camshaft gear is mounted to the fuel pump drive shaft hub by four cap screws and a pinch plate. The holes in the pump drive gear are elongated to allow accurate setting of the fuel pump timing.

When replacing any of the engine timing gears, if the fuel pump is not to be removed the proper fuel pump timing can be established by the following procedure.

With the camshaft in time, set #1 piston 14 degrees before top center on the firing stroke, as indicated by the marks on the vibration damper. Remove the timing marks cover from the front of the fuel pump and rotate the pump drive shaft in a clockwise direction until the timing mark "R" is directly under the timing pointer. Then install the fuel pump drive gear. Hold the timing mark "R" directly under the timing pointer while tightening the four drive gear attaching capscrews. This is important because the holes in the drive gear are elongated.

IF THE FUEL PUMP IS REMOVED AND REPLACED WITHOUT
REMOVING THE GEAR CASE, THE PROPER FUEL PUMP TIMING
CAN BE ESTABLISHED AS FOLLOWS:

June 24, 1941

No. D-91

ENGINE

CHANGE IN

FUEL

INJECTION

PUMP

TIMING

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W SERIES

DIESEL

TRUCKS

(over)

3046
Prtd. in U.S.A.

14765

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No. D-91

ENGINE

CHANGE IN

FUEL

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W SERIES

DIESEL

TRUCKS

Set #1 piston 14 degrees before top center on the firing stroke. Install the pump so that the timing mark "R" is under the timing pointer. After the pump has been installed, if the timing mark "R" is not exactly under the timing pointer with #1 piston 14 degrees before top center on the firing stroke, remove the plate from the front of the gear case, loosen the four capscrews which hold the drive gear to the pump drive shaft hub and with a short wide screw driver inserted in the slot in the end of the shaft turn the shaft enough to bring the timing mark "R" directly under the pointer and hold it there while the capscrews are retightened.

Enter this bulletin number and subject in your W Series Truck Shop Manual under Group - ENGINE.

B. B. SETTLE
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DODGE DIVISION.