

1959 Corvette: Fuel Injection Fuel Meter Pump Drive Shaft Seal Replacement

Subject: Fuel Injection Fuel Meter Pump Drive Shaft Seal Replacement

Model and Year: 1959 Corvette

Source: Parts Kit Instructions

Date: January 23, 1959

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FUEL INJECTION FUEL METER PUMP DRIVE SHAFT SEAL REPLACEMENT

Customer complaints of gasoline leaking at the rear of the fuel meter fuel pump are attributable to worn drive shaft seal. This seal is available in service under kit #7017174 which consists of a #5620791 seal, a #5630009 shaft, and two #7014104 gaskets (two required only on jobs equipped with siphon breaker plates). It is recommended that the drive shaft be replaced whenever a seal is replaced to prevent minute scratches on the shaft from contributing to early seal failure. The following procedure applies:

1. Remove high pressure fuel pump from fuel meter.
2. Mark relationship of pump body, gear housing, and front cover.
3. Remove four Allen head screws and remove front cover.
4. Using china marking pencil, mark relationship of idler gear to drive gear.
5. Remove gear housing and idler gear.
6. Remove drive gear by extending shaft beyond gear so that drive pin may be removed.
7. Screw reworked tap (fig. 1) into seal. CAUTION: Tap must be seated in seal in no more than 2 or 3 turns or damage to the rear bushing will occur.
8. Drive seal and tap out of pump housing using old drive shaft inserted from bearing end.
9. Slide drive shaft through the pump body and remove through seal end to avoid the possibility of burrs scratching the bushing.
10. Place a new seal in position in pump body with open end of seal downward.
11. Press into place using seal installer tool (fig. 2).
12. Lubricate new drive shaft and install into pump housing from seal end.
13. Install drive gear, idler gear, and gear housing in their original relative positions and remove china markings.
14. Assemble front cover and install screws finger tight. At the same time, rotate drive shaft counterclockwise (looking into the drive cable end). If the shaft turns freely, the gear housing is properly centered.
15. Tighten two of the Allen head screws diagonally across the front cover. If the shaft turns freely, tighten the remaining two and recheck the shaft for free rotation.
16. If the pump does not bind, tighten the four attaching screws to 40 inch-pounds.
17. If at any time the pump tends to turn hard, loosen the four Allen head screws, reposition the gear housing, and repeat steps 14, 15 and 16.

SEAL REMOVER

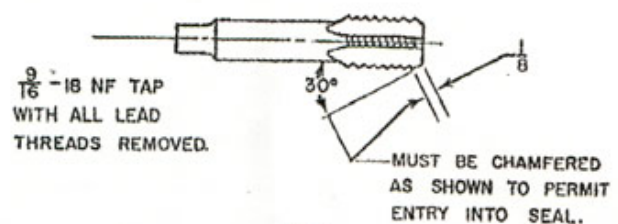
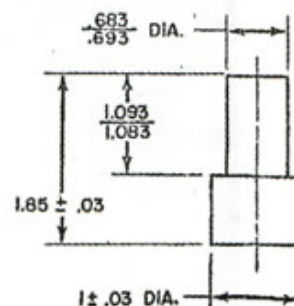


FIG. 1

SEAL INSTALLER



NOTE: 1.093 - 1.083
DIMENSION MUST
BE MAINTAINED TO
PREVENT BOTTOMING
OF SEAL & BLOCKING
OF SEAL DRAIN HOLE.

FIG. 2

Online URL:

<https://www.corvetteactioncenter.com/tech/knowledgebase/article/1959-corvette-fuel-injection-fuel-meter-pump-drive-shaft-seal-replacement-911.html>