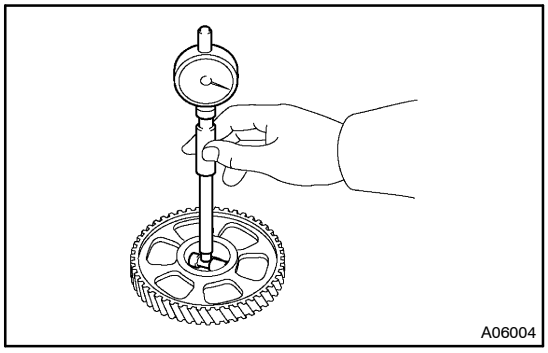
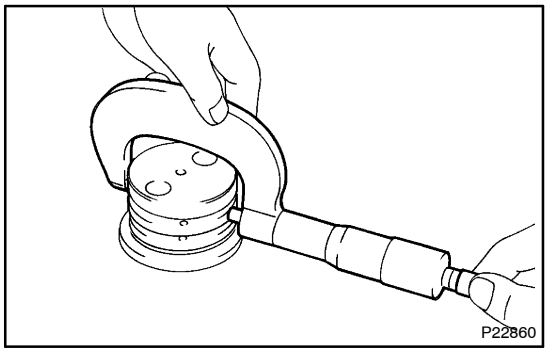
EM0WI–01

INSPECTION



1. INSPECT IDLER GEAR

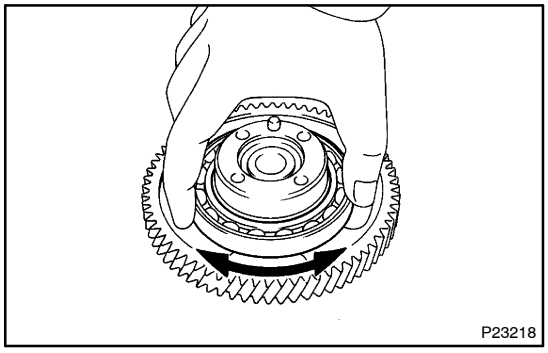
(a) Using a cylinder gauge, measure the inside diameter of the idler gear.
Idler gear inside diameter:
45.000 – 45.025 mm (1.7717 – 1.7726 in.)



(b) Using a micrometer, measure the diameter of the idler gear shaft.
Idler gear shaft diameter:
44.950 – 44.975 mm (1.7697 – 1.7707 in.)

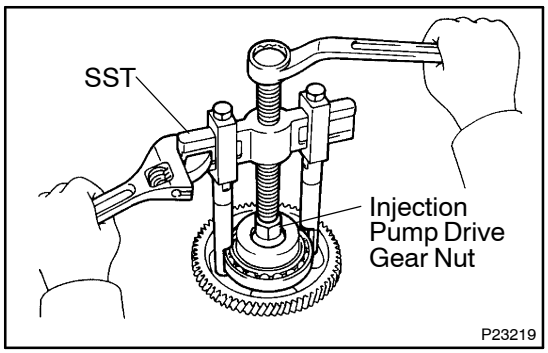
(c) Subtract the idler gear shaft diameter measurement from the idler gear inside diameter measurement.
Standard oil clearance:
0.025 – 0.075 mm (0.0010 – 0.0030 in.)
Maximum oil clearance: 0.20 mm (0.0079 in.)

If the clearance is greater than maximum, replace the gear and shaft.



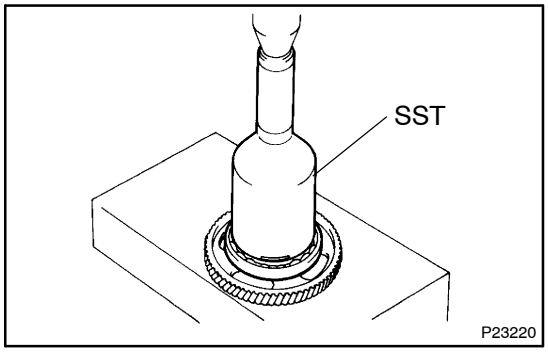
2. INSPECT INJECTION PUMP DRIVE GEAR BEARING

Check that bearing is not rough or worn.

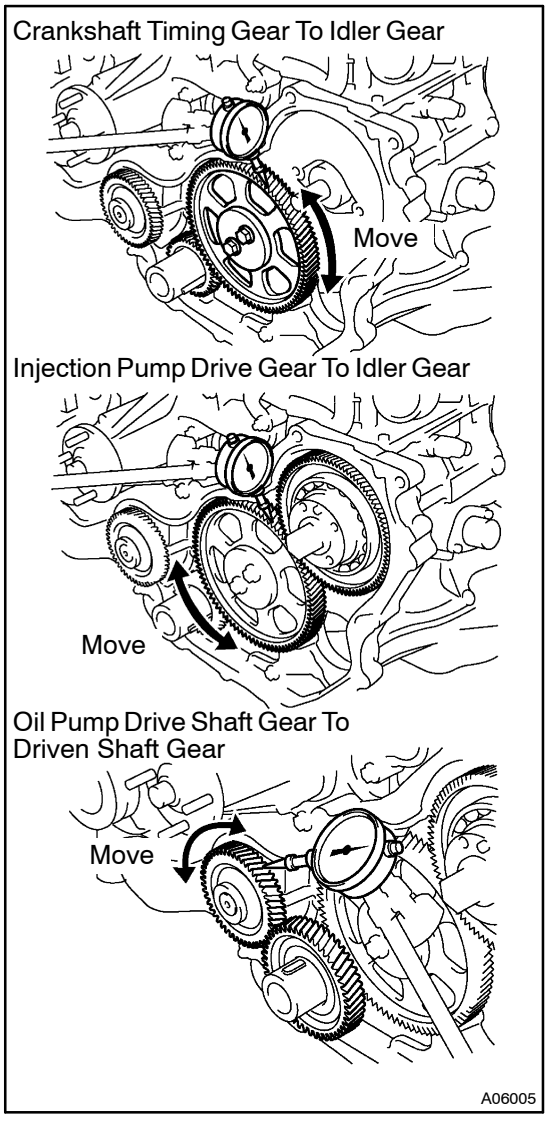


3. IF NECESSARY, REPLACE INJECTION PUMP DRIVE GEAR BEARING

(a) Remove bearing
Using SST, remove the bearing
SST 09950–40010 (09951–04010, 09952–04010, 09953–04020, 09954–04010, 09955–04040)



(b) Install bearing
Using SST and a press, press in a new bearing.
SST 09502–12010
09223–15020
09950–70010 (09951–07100)



4. CHECK BACKLASH OF TIMING GEARS

(a) Install the gears.

(b) Using a dial indicator, measure the backlash.
Standard gear backlash:
0.05 – 0.15 mm (0.0020 – 0.0059 in.)
Maximum gear backlash: 0.30 mm (0.0118 in.)

If the gear backlash is greater than maximum, replace the gears as a set.

(c) Remove the gears.