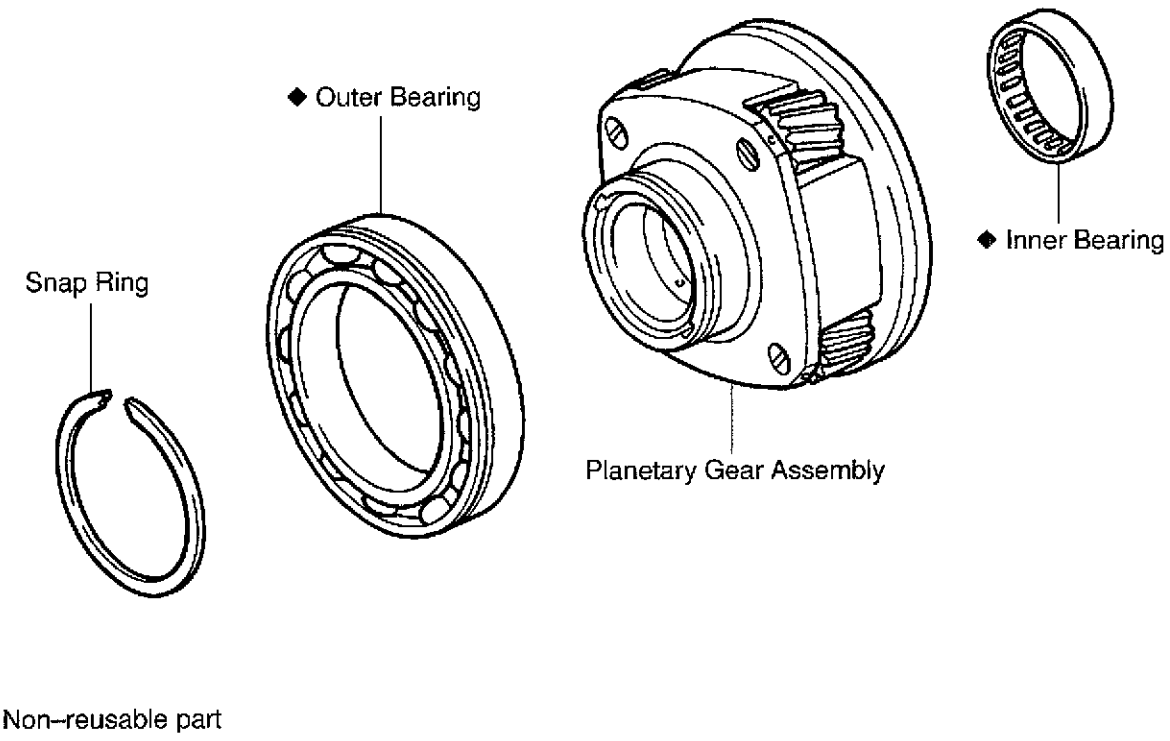
PLANETARY GEAR

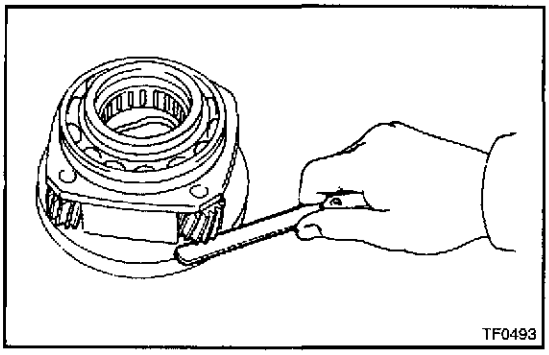
COMPONENTS

TR03G-01



TP03H-01

INSPECTION

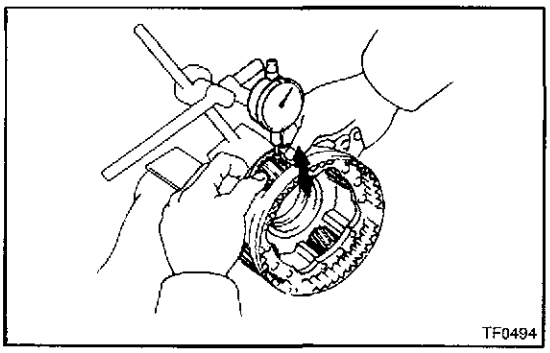


1. INSPECT PINION GEAR THRUST CLEARANCE

Using a feeler gauge, measure the planetary pinion gear thrust clearance.

Standard clearance:
0.11 – 0.84 mm (0.0043 – 0.0331 in.)
Maximum clearance: 0.84 mm (0.0331 in.)

If the clearance exceeds the maximum, replace the planetary gear assembly

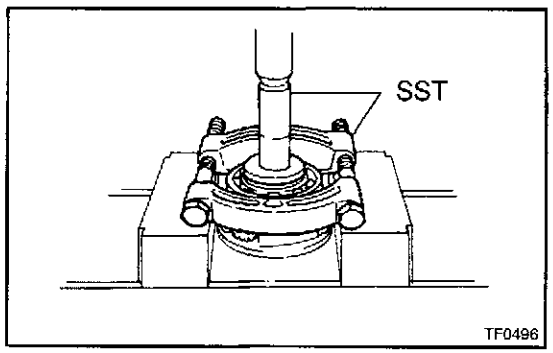


2. INSPECT PLANETARY PINION GEAR RADIAL CLEARANCE

Using a dial indicator, measure the radial clearance of the planetary pinion gear.

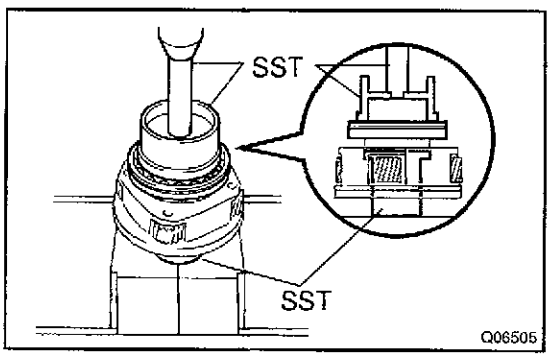
Standard clearance:
0.009 – 0.038 mm (0.0004 – 0.0015 in.)
Maximum clearance: 0.038 mm (0.0015 in.)

If the clearance exceeds the maximum, replace the planetary gear assembly.

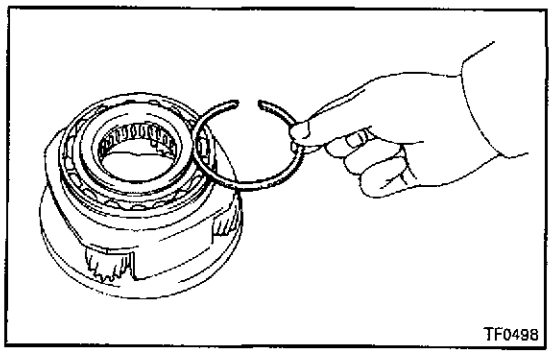


3. IF NECESSARY, REPLACE PLANETARY GEAR OUTER BEARING

(a) Using a snap ring expander, remove the snap ring.
(b) Using SST and a press, remove the outer bearing.
SST 09554–30011, 09555–55010



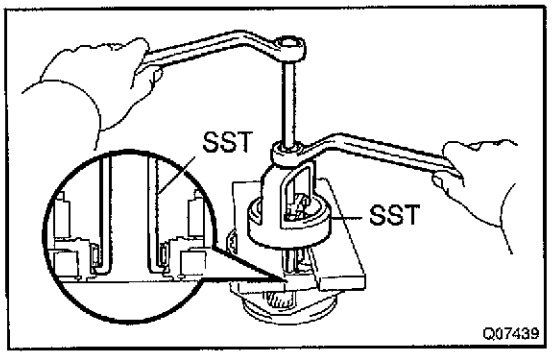
(c) Using SST and a press, install a new bearing with the groove faced forward.
SST 09223–15020, 09515–30010,
09950–70010 (09951–07100)



(d) Select a snap ring that will allow minimum axial play.

Mark	Thickness mm (in.)
1	1.45 – 1.50 (0.0571 – 0.0591)
2	1.50 – 1.55 (0.0591 – 0.0610)
3	1.55 – 1.60 (0.0610 – 0.0630)
4	1.60 – 1.65 (0.0630 – 0.0650)
5	1.65 – 1.70 (0.0650 – 0.0669)

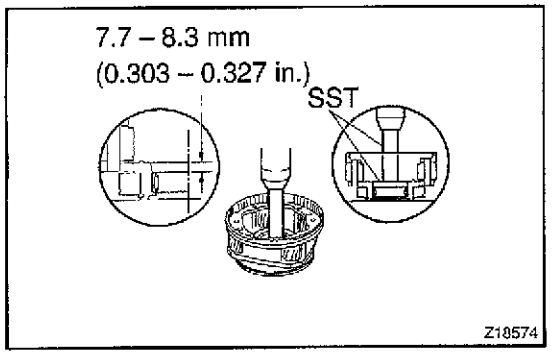
(e) Using a snap ring expander, install the snap ring.



4. IF NECESSARY, REPLACE PLANETARY GEAR THRUST INNER BEARING

(a) Using SST and a press, remove the inner bearing.
SST 09612–65014 (09612–01030, 09612–01050)

NOTICE:
Hang the SST securely to the clearance between the thrust inner bearing and planetary gear.



(b) Using SST and a press, install a new bearing.
SST 09950–60010 (09951–00570),
09950–70010 (09951–07100)
Bearing depth: 7.7 – 8.3 mm (0.303 – 0.327 in.)