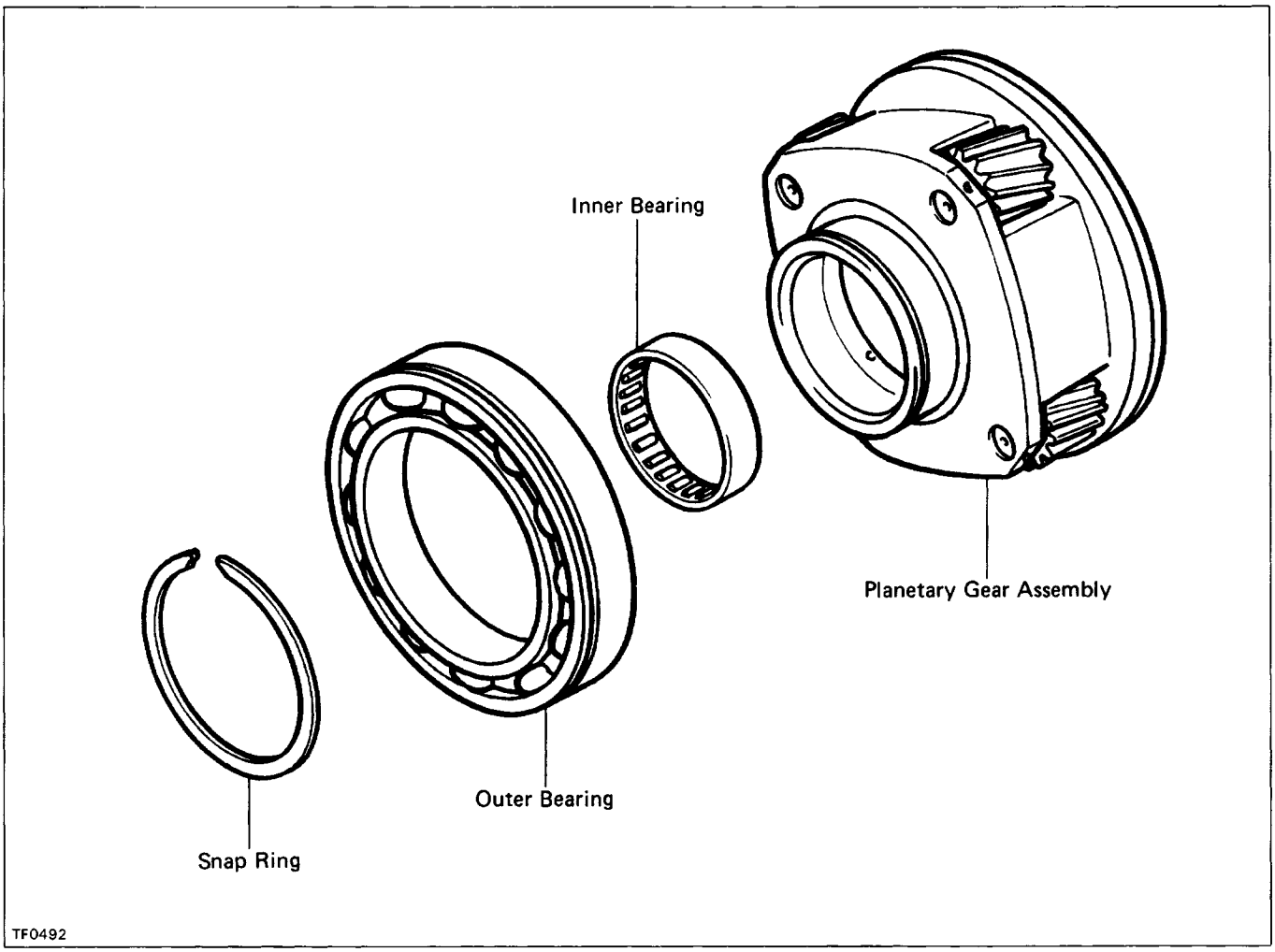
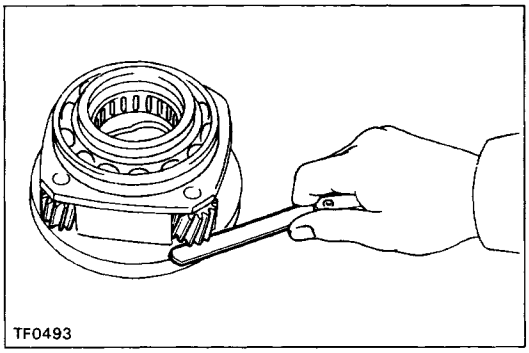
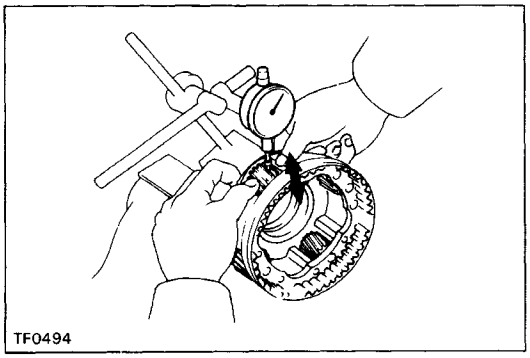
Planetary Gear

COMPONENTS







INSPECTION OF PLANETARY GEAR

1. MEASURE PLANETARY PINION GEAR THRUST CLEARANCE

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

Standard clearance: 0.11 – 0.86 mm (0.0043 – 0.0339 in.)

Maximum clearance: 0.86 mm (0.0339 in.)

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

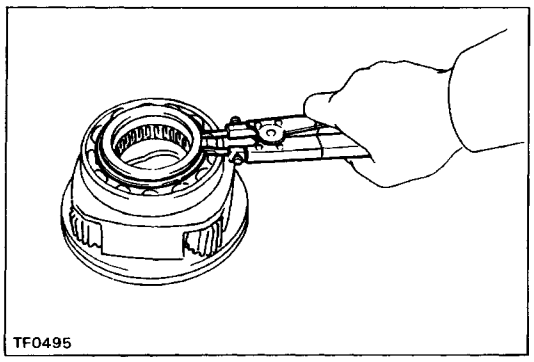
2. CHECK OIL CLEARANCE OF PLANETARY PINION GEAR

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

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

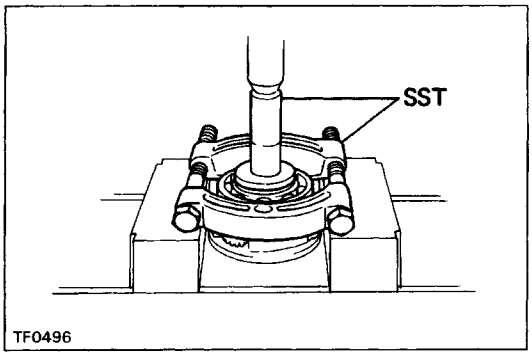
Maximum clearance: 0.038 mm (0.0015 in.)

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

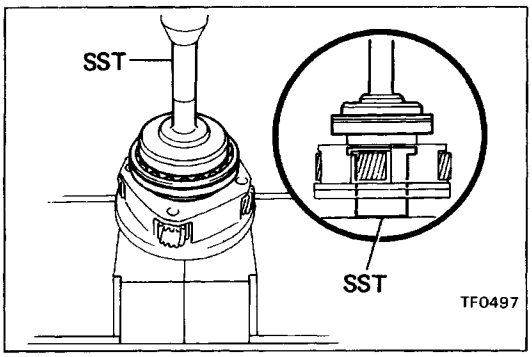


3. IF NECESSARY, REPLACE PLANETARY GEAR OUTER BEARING

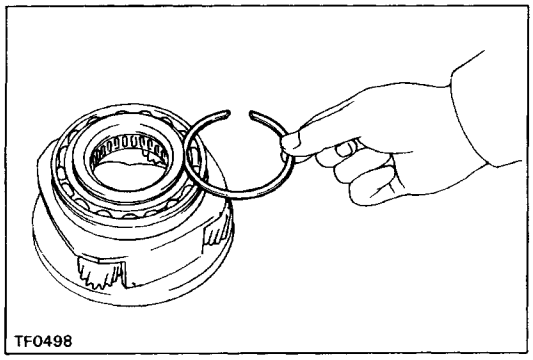
(a) Using snap ring pliers, remove the snap ring.



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

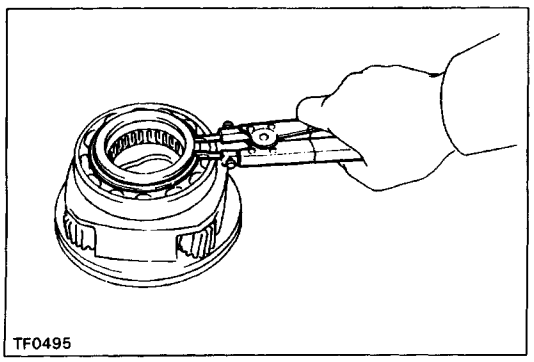


(c) Using SST and a press, install a new bearing with the outer race snap ring groove toward the front.
SST 09223–15010 and 09515–30010

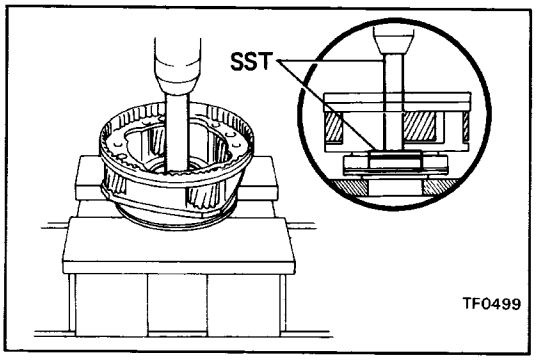


(d) Select a snap ring that will allow minimum axial play.

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)

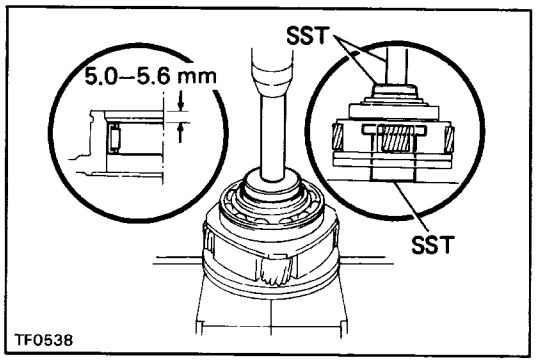


(e) Using snap ring pliers, install the snap ring.



4. IF NECESSARY, REPLACE PLANETARY GEAR INNER BEARING

(a) Using SST and a press, remove the bearing.
SST 09550–10012 (09252–10010, 09557–10010)



(b) Using SST and a press, install a new bearing.
SST 09550–10012 (09252–10010, 09557–10010) and 09515–30010
Bearing depth: 5.0 – 5.6 mm (0.197 – 0.220 in.)