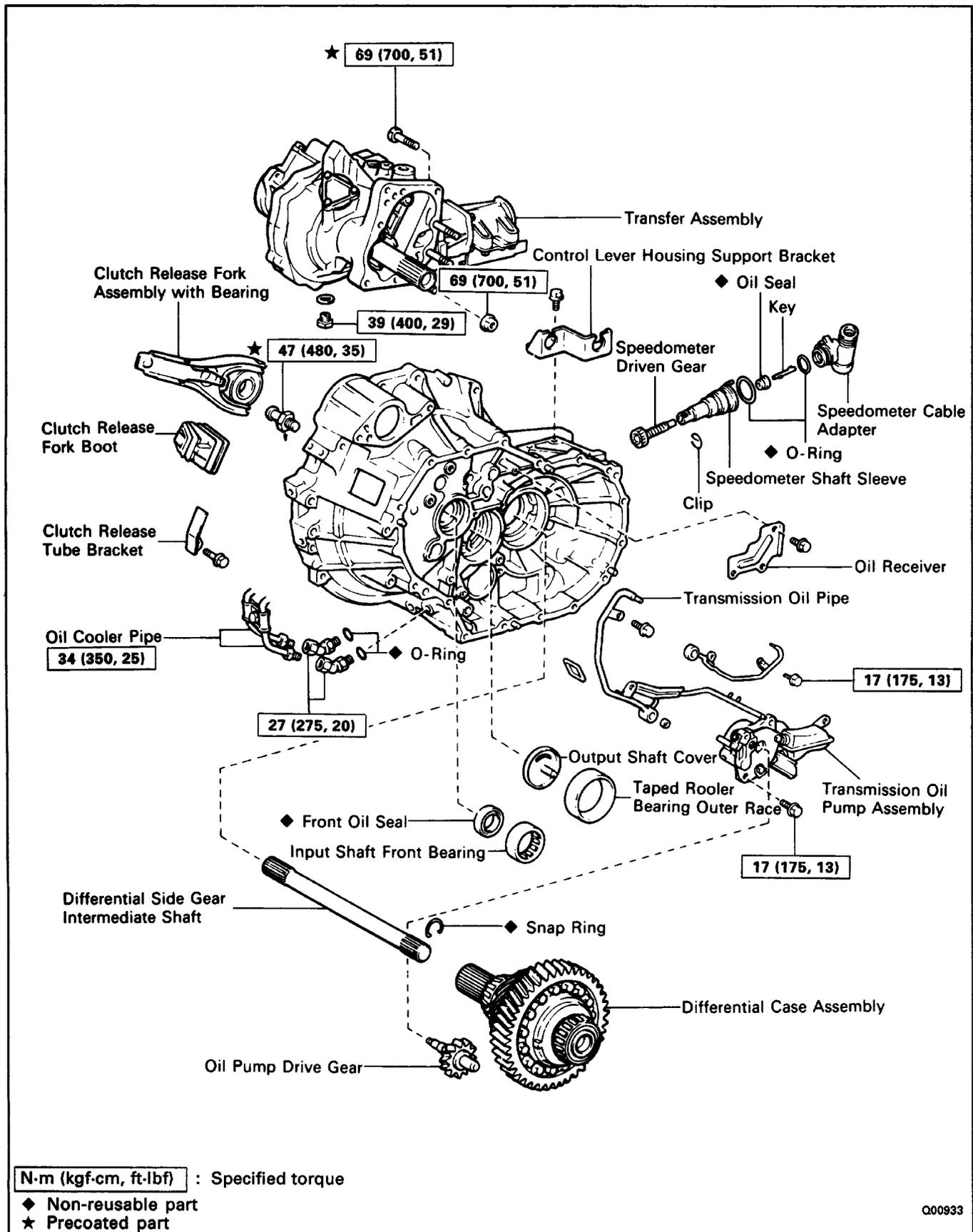


REMOVAL OF COMPONENT PARTS COMPONENTS

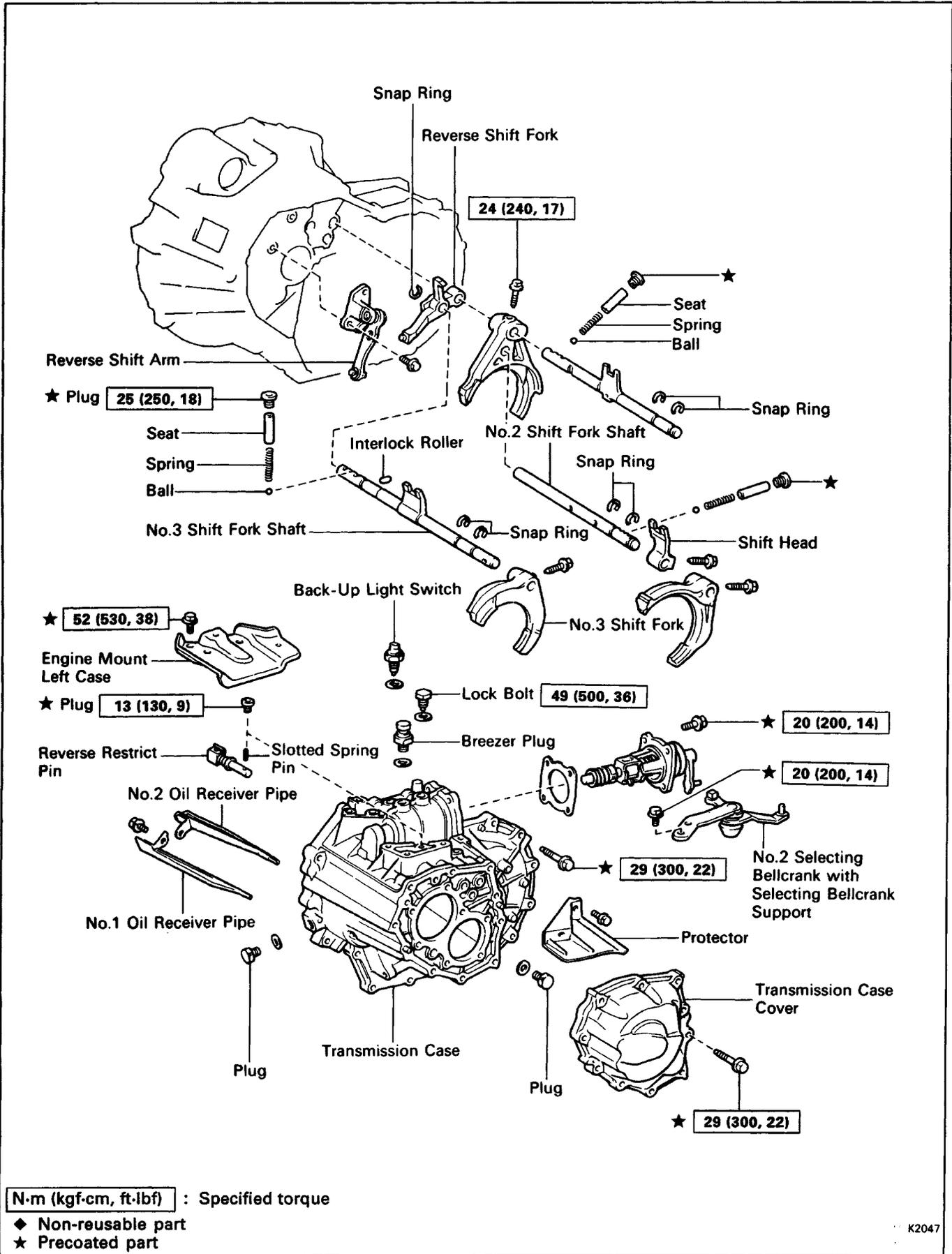


N·m (kgf·cm, ft·lbf) : Specified torque

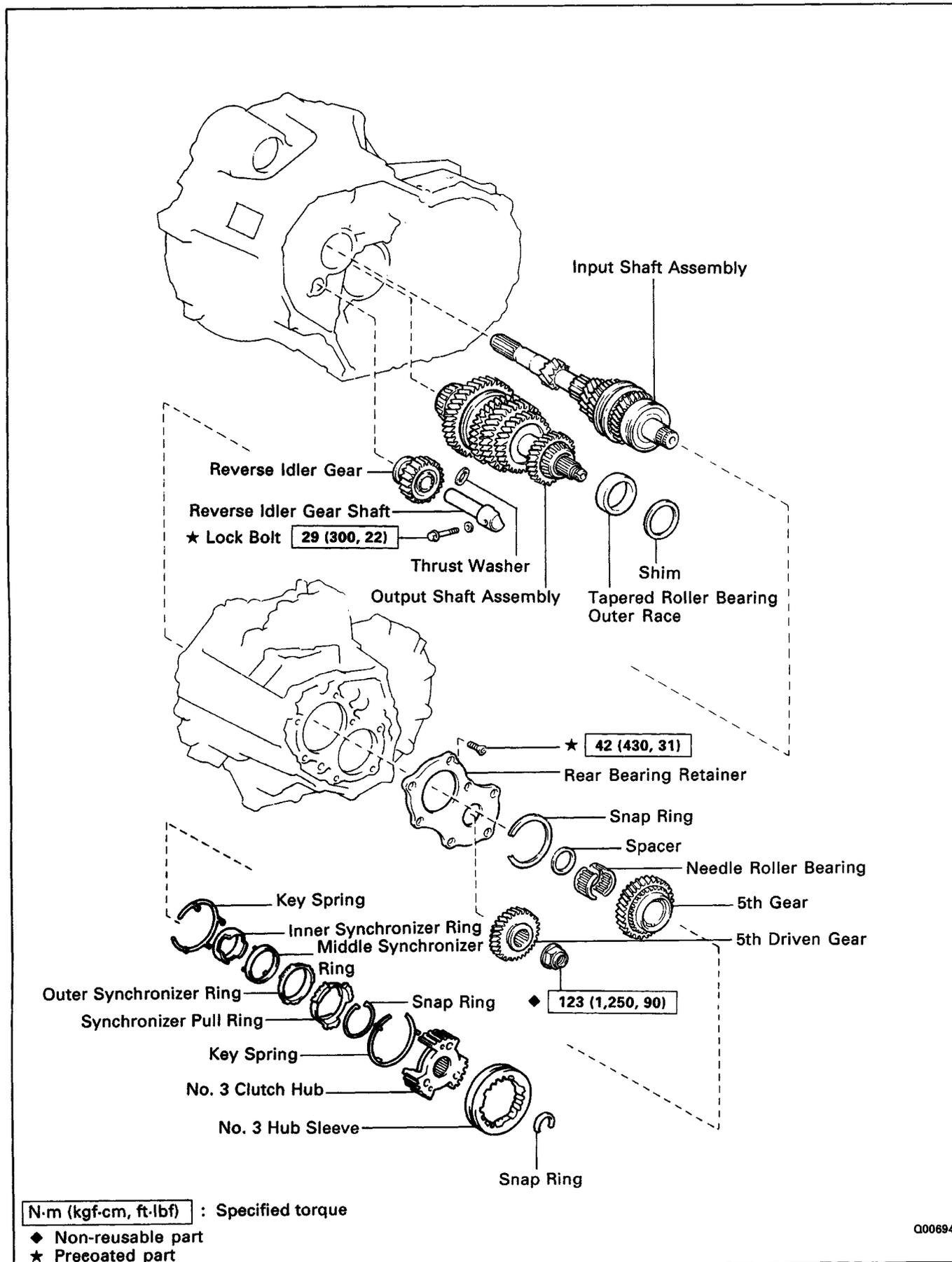
◆ Non-reusable part

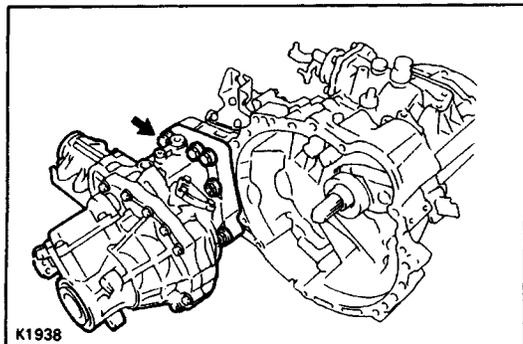
★ Precoated part

COMPONENTS (Cont'd)



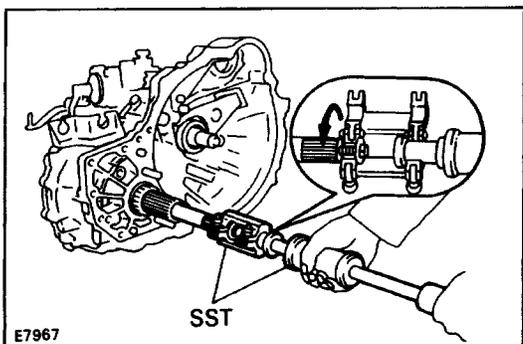
COMPONENTS (Cont'd)





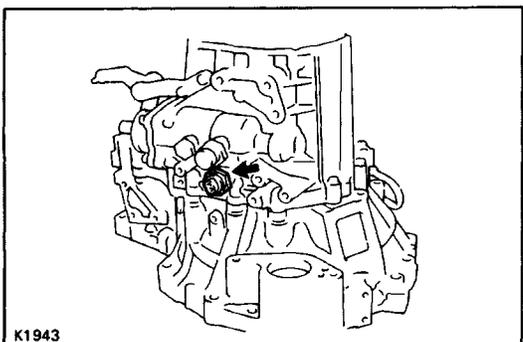
1. REMOVE TRANSFER ASSEMBLY

- (a) Remove the three bolts and five nuts.
- (b) Using a plastic hammer, remove the transfer assembly from the transaxle.

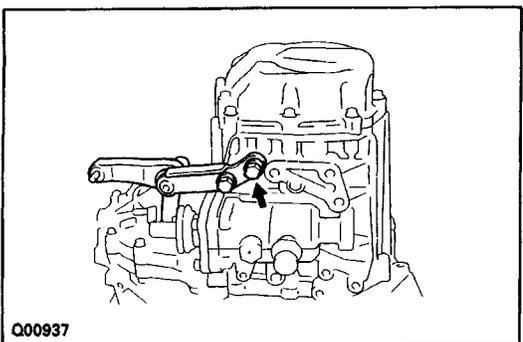


2. REMOVE DIFFERENTIAL SIDE GEAR INTERMEDIATE SHAFT

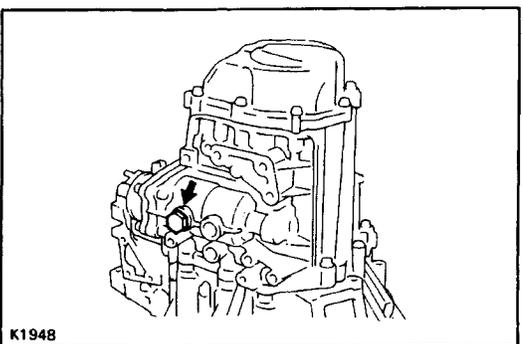
- (a) Screw in a suitable bolt with washer into the side gear intermediate shaft.
- (b) Using SST, remove the side gear intermediate shaft.
SST 09910-00015 (09911-00011, 09912-00010)



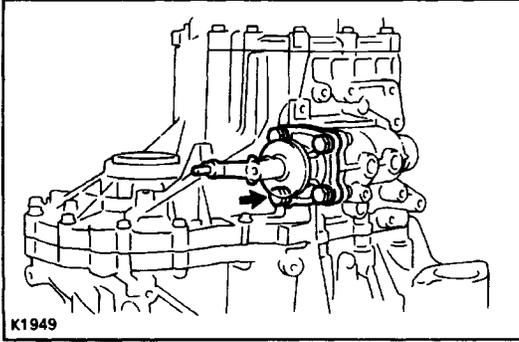
3. REMOVE RELEASE FORK AND BEARING
4. REMOVE BACK-UP LIGHT SWITCH



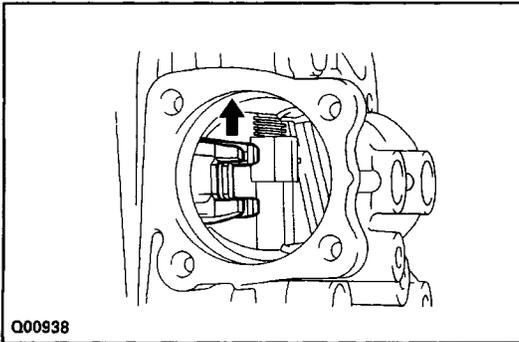
5. REMOVE SPEEDOMETER DRIVEN GEAR
6. REMOVE NO.2 SELECTING BELLCRANK WITH SELECTING BELLCRANK SUPPORT



7. REMOVE SHIFT AND SELECT LEVER SHAFT LOCK BOLT



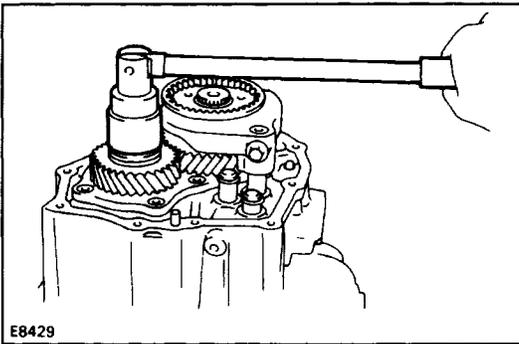
8. REMOVE SHIFT AND SELECTING LEVER ASSEMBLY



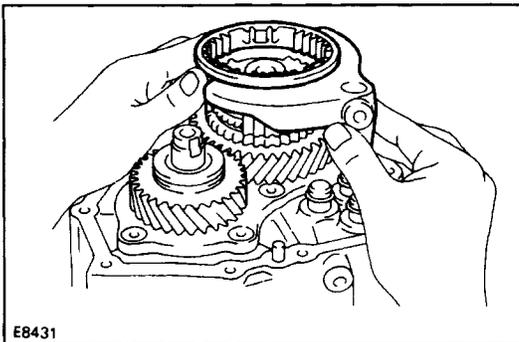
9. REMOVE TRANSMISSION CASE COVER

10. REMOVE OUTPUT SHAFT LOCK NUT

- (a) Unstake the lock nut.
- (b) Engage the gear double meshing.

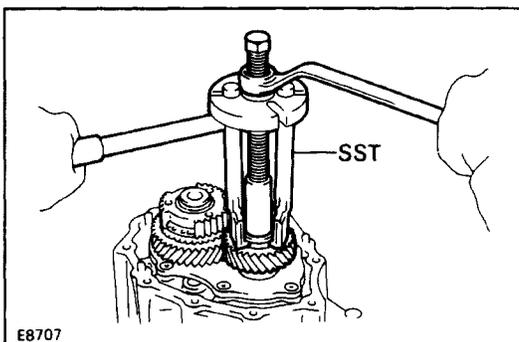


- (c) Remove the lock nut.
- (d) Disengage the gear double meshing.



11. REMOVE NO-3 HUB SLEEVE AND FIFTH SHIFT FORK

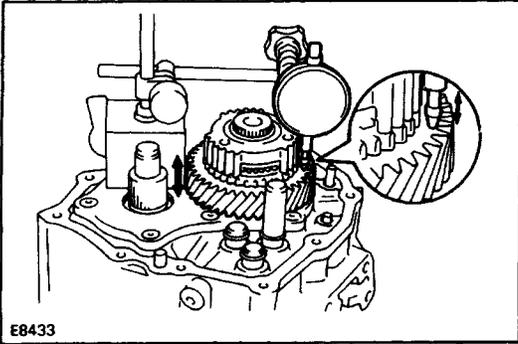
- (a) Remove the No.3 shift fork set bolt.
- (b) Remove the No.3 hub sleeve and No.3 shift fork.



12. REMOVE FIFTH DRIVEN GEAR

Using SST, remove the 5th driven gear.

SST 09310-17010 (09310-07010, 09310-07020
09310-07040, 09310-07050)

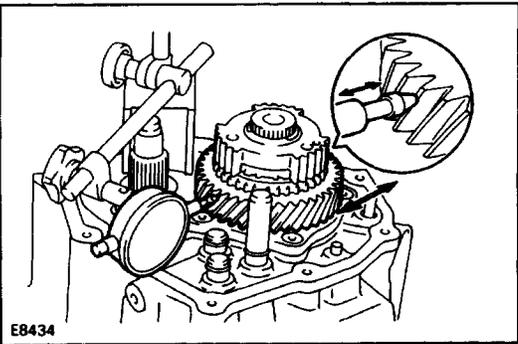


13. MEASURE FIFTH GEAR THRUST CLEARANCE

(a) Using a dial indicator, measure the thrust clearance.

Standard clearance: 0.10–0.57 mm
(0.0039–0.0224 in.)

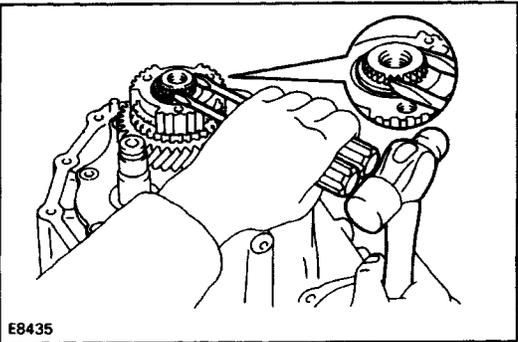
Maximum clearance: 0.65 mm (0.0256 in.)



(b) Using a dial indicator, measure the oil clearance.

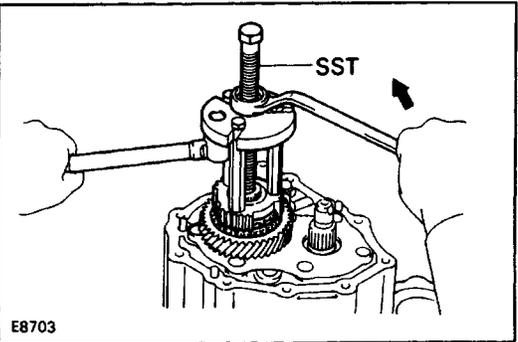
Standard clearance: 0.009–0.050 mm
(0.0004–0.0020 in.)

Maximum clearance: 0.070 mm (0.0028 in.)



14. REMOVE NO-3 CLUTCH HUB AND FIFTH GEAR

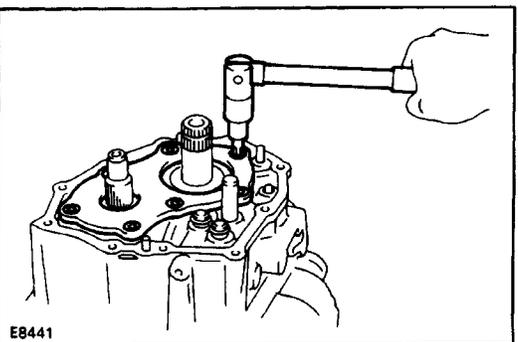
(a) Using two screwdrivers and hammer, tap out the snap ring.



(b) Using SST, remove the No.3 clutch hub with synchronizer ring and 5th gear.

SST 09310-17010 (09310-07010, 09310-07020
 09310-07030, 09310-07050)

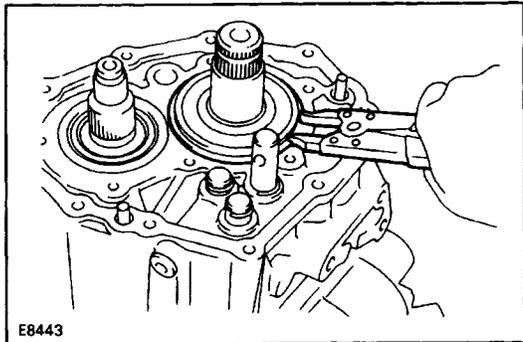
15. REMOVE NEEDLE ROLLER BEARING AND SPACER



16. REMOVE REAR BEARING RETAINER

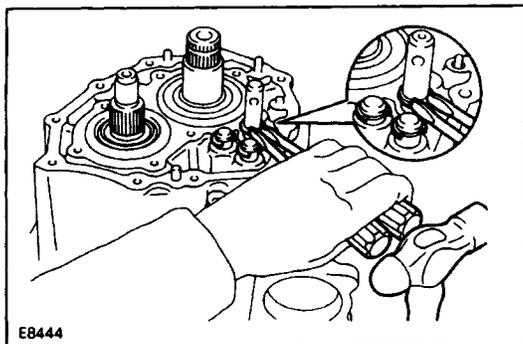
(a) Using a torx wrench, remove the seven torx screws and bearing retainer.

(b) Remove the adjust shim.

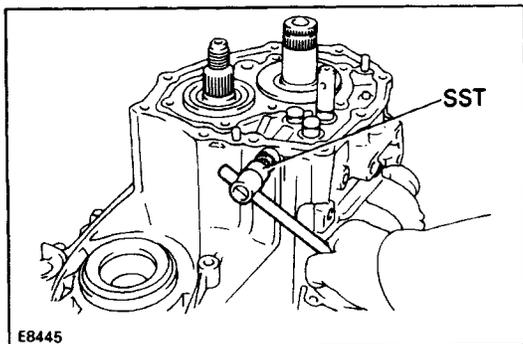


17. REMOVE SNAP RING

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

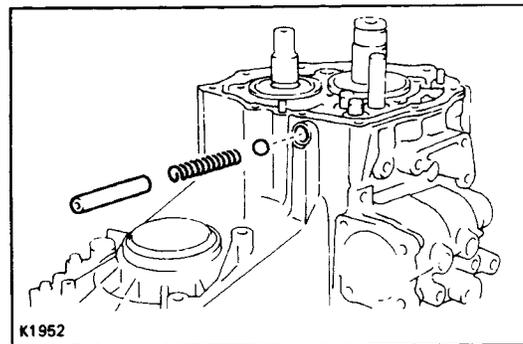


(b) Using two screwdrivers and a hammer, remove the three snap rings.

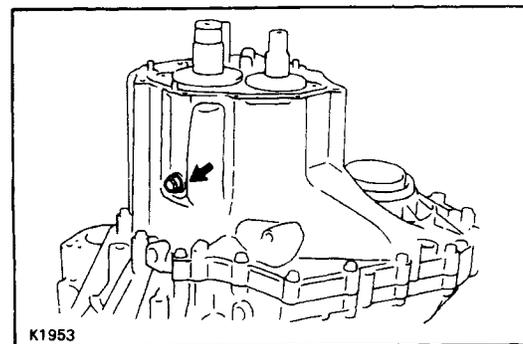


18. REMOVE PLUG, SEAT, SPRING AND LOCKING BALL

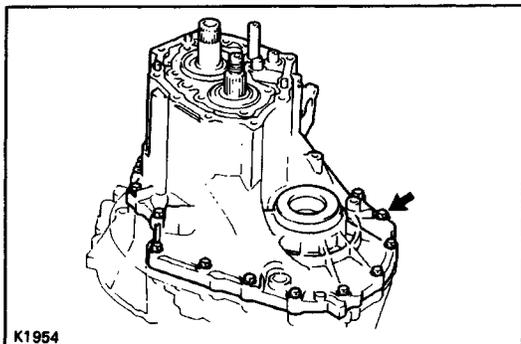
(a) Using SST, remove the plug.
SST 09313-30021



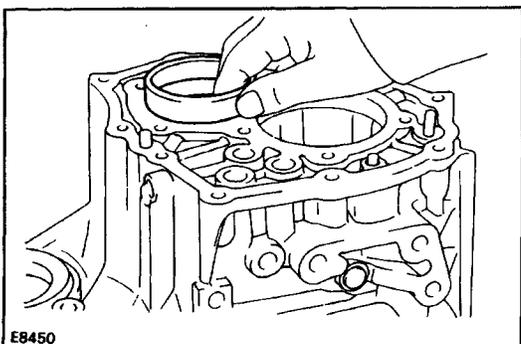
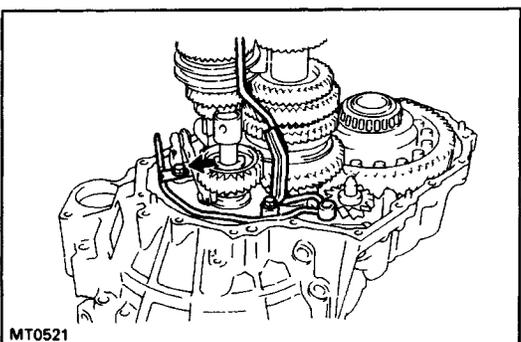
(b) Using a magnetic finger, remove the seat, spring and ball.



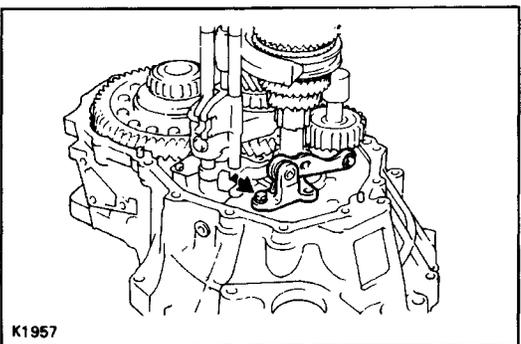
19. REMOVE REVERSE IDLER GEAR SHAFT RETAINING BOLT

**20. REMOVE TRANSMISSION CASE**

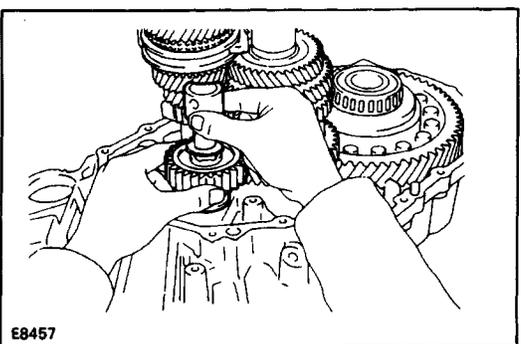
Remove the seventeen bolts and tap off the case with a plastic hammer.

**21. REMOVE OUTPUT SHAFT REAR TAPERED ROLLER BEARING OUTER RACE****22. REMOVE NO.2 OIL PIPE**

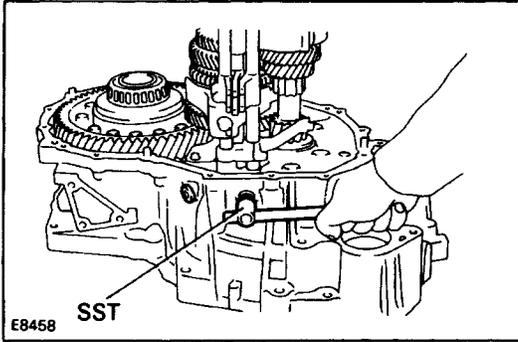
- (a) Remove the gasket.
- (b) Remove the two bolts and oil pipe.

**23. REMOVE REVERSE SHIFT ARM**

Remove the bolt and pull off the bracket.

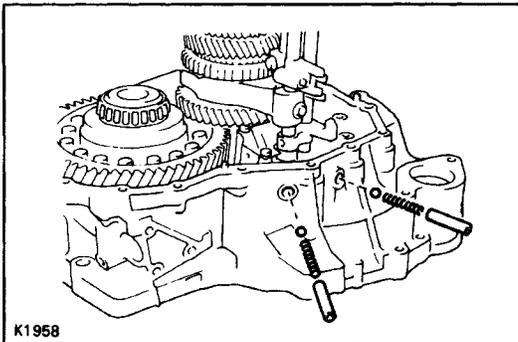
**24. REMOVE REVERSE IDLER GEAR AND SHAFT**

Pull out the shaft, remove the reverse idler gear.

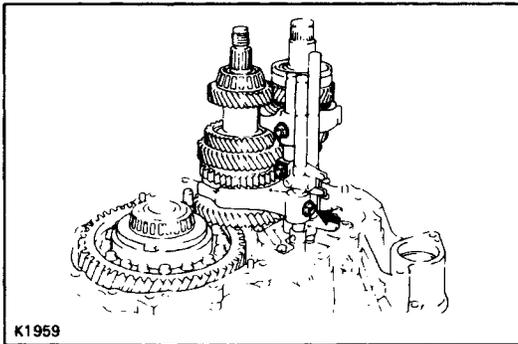


25. REMOVE PLUGS, SEATS, SPRINGS AND BAILS

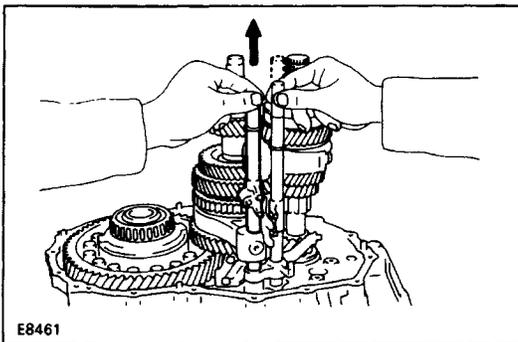
- (a) Using SST, remove the two plugs.
SST 09313-30021



- (b) Using a magnetic finger, remove the two seats, springs and bails.

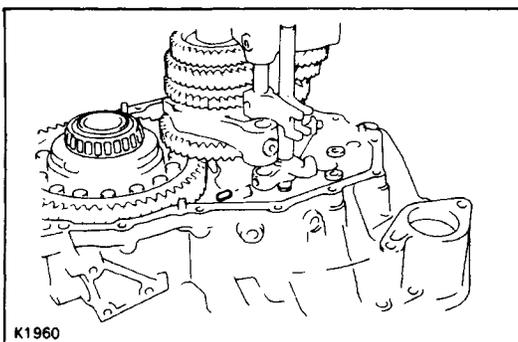


26. REMOVE SET BOLTS



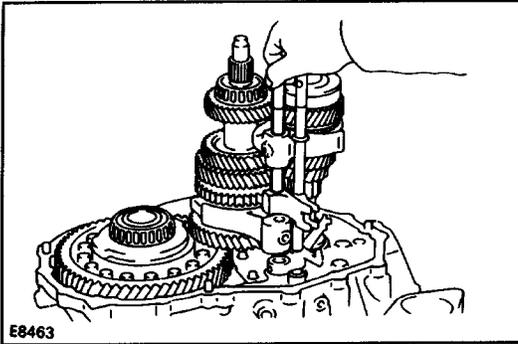
27. REMOVE NO.1 SHIFT FORK SHAFT

- Pull up No.3 shift fork shaft, remove the No.1 shift fork shaft.



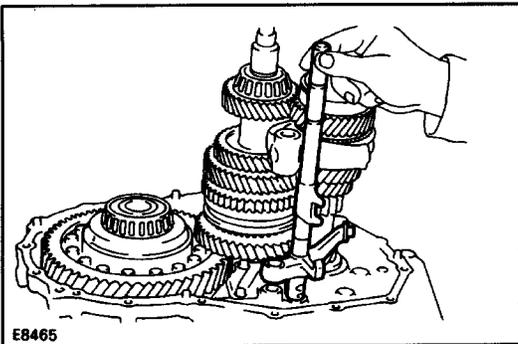
28. REMOVE INTERLOCK ROLLER

- Using a magnetic finger, remove the interlock roller from the reverse shift fork.



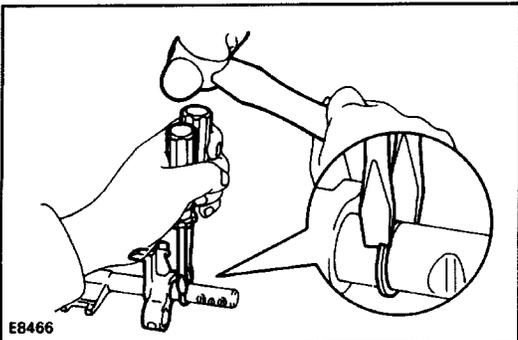
29. REMOVE NO.2 SHIFT FORK SHAFT, SHIFT HEAD AND NO.1 SHIFT FORK

- (a) Pull out the No.2 shift fork shaft.
- (b) Remove the shift head and No-1 shift fork.



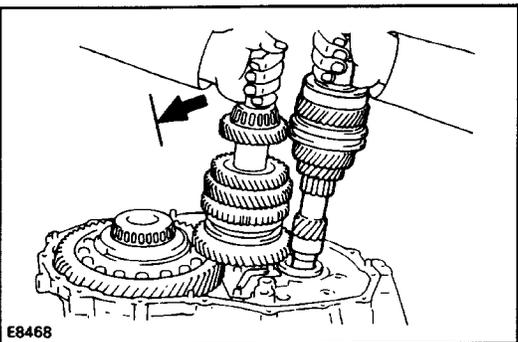
30. REMOVE NO-3 SHIFT FORK SHAFT WITH REVERSE SHIFT FORK AND NO.2 SHIFT FORK

- (a) Pull out the No.3 shift fork shaft with reverse shift fork.
- (b) Remove the No.2 shift fork.



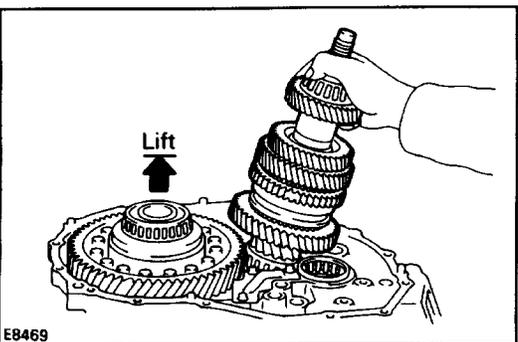
31. REMOVE REVERSE SHIFT FORK

Using two screwdrivers and a hammer, remove the snap ring and reverse shift fork from the No.3 shift fork shaft.

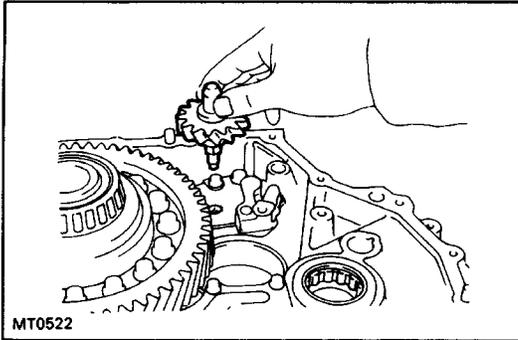


32. REMOVE INPUT AND OUTPUT SHAFT ASSEMBLY

- (a) Leaning the output shaft to the differential side, remove the input shaft assembly.

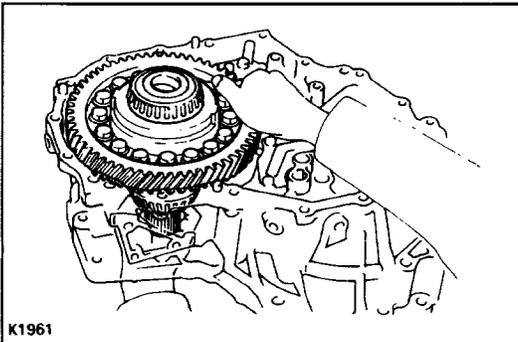


- (b) Lift up the differential case assembly, remove output shaft assembly.

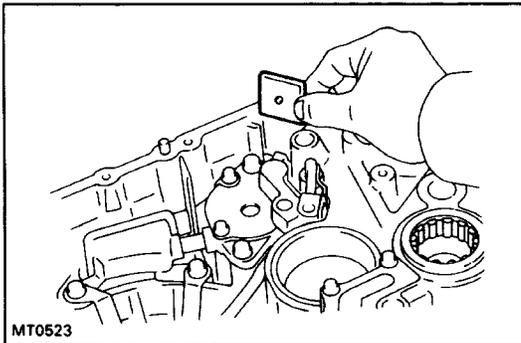


33. REMOVE DIFFERENTIAL ASSEMBLY
 (a) Remove the oil pump drive gear.

(b) Remove the differential case assembly.

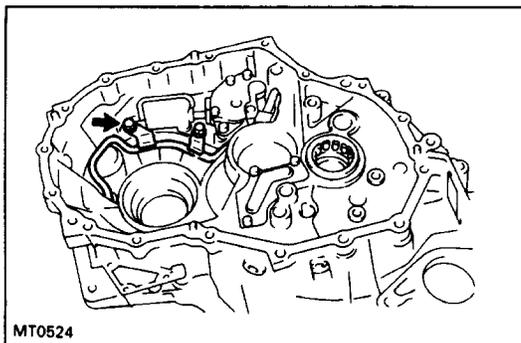


34. REMOVE MAGNET FROM TRANSAXLE CASE



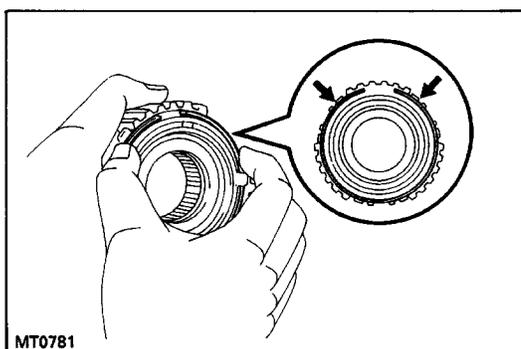
35. REMOVE OIL PUMP ASSEMBLY

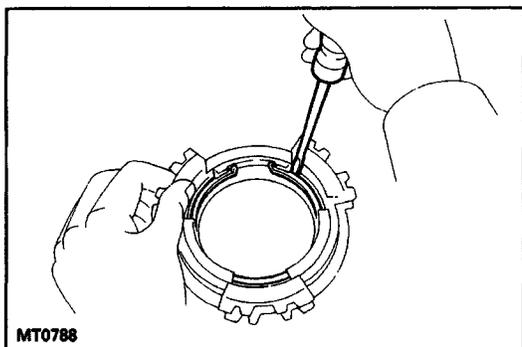
Remove the four bolts, oil pipe and oil pump.



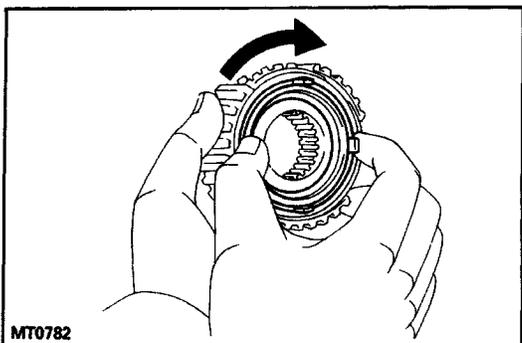
36. REMOVE NO. 5 SYNCHRONIZER RING WITH KEY SPRING FROM NO. 3 CLUTCH HUB

(a) Remove the No. 5 synchronizer ring with key spring from No. 3 clutch hub.





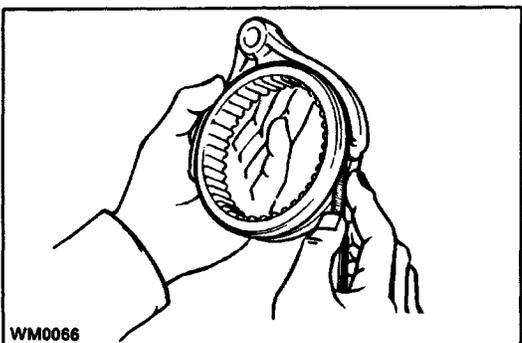
- (b) Using a screwdriver, remove the snap ring.
 HINT: Wrap vinyl tape on the screwdriver to prevent damaging the synchronizer ring.
 (c) Remove the synchronizer rings.



INSPECTION OF COMPONENT PARTS

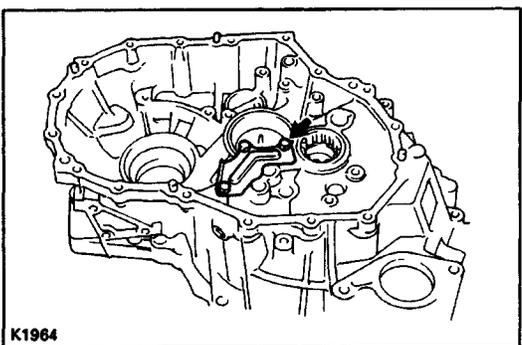
1. INSPECT NO. 5 SYNCHRONIZER RINGS

- (a) Check for wear or damage.
 (b) Check the braking effect of the synchronizer ring.
 Turn the middle No. 5 synchronizer ring in one direction while pushing it to the outer No. 5 synchronizer ring and check that the ring is locked.
 If the braking effect is insufficient, replace the synchronizer ring.



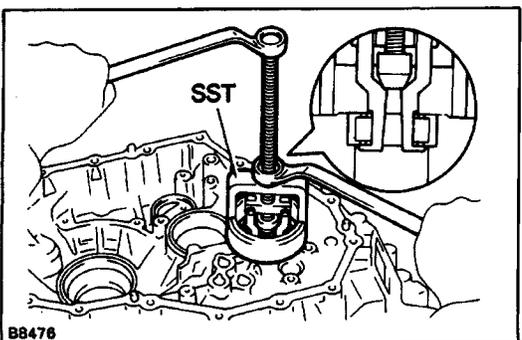
2. MEASURE CLEARANCE OF SHIFT FORK AND HUB SLEEVE

- Using a feeler gauge, measure the clearance between the hub sleeve and shift fork.
 Maximum clearance: 1.0 mm (0.039 in.)
 If the clearance exceeds the limit, replace the shift fork or hub sleeve.

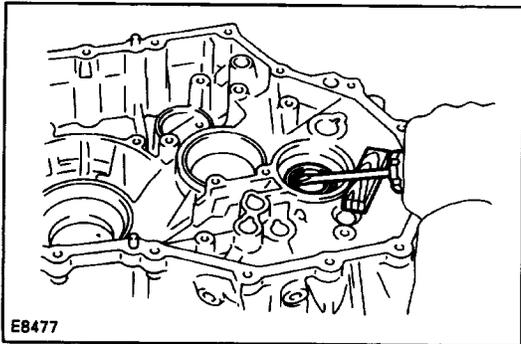


3. IF NECESSARY, REPLACE INPUT SHAFT BEARING AND OIL SEAL

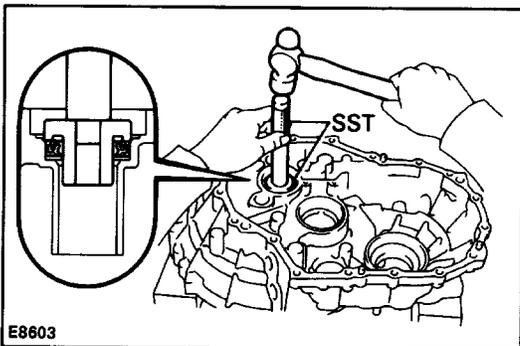
- (a) Remove the three bolts and transaxle case receiver.



- (b) Using SST, pull out the bearing.
 SST 09612-65014



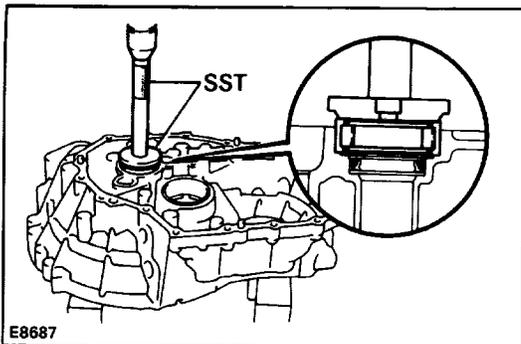
(c) Using a screwdriver, remove the oil seal.



(d) Using SST, drive in a new oil seal.

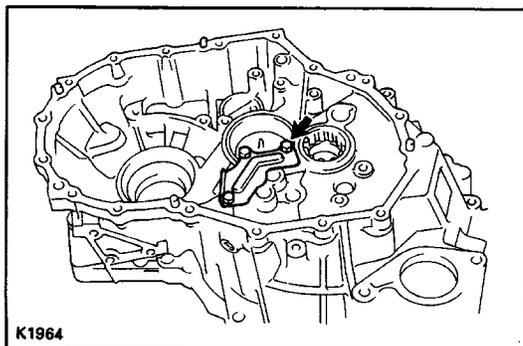
SST 09608-12010 (09608-00020, 09608-00080)

(e) Coat the lip of oil seal with MP grease.



(f) Using SST, drive in a new bearing.

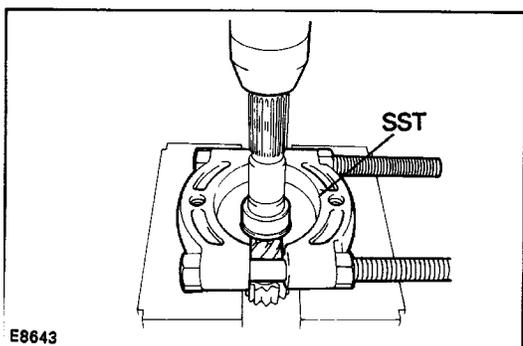
SST 09608-12010 (09608-00020, 09608-00060)



(g) Install the transaxle case receiver.

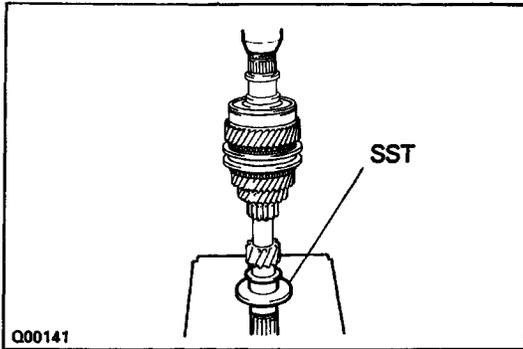
(h) Install and torque the three bolts.

Torque: 7.4 N-m (75 kgf-cm, 65 MAW)

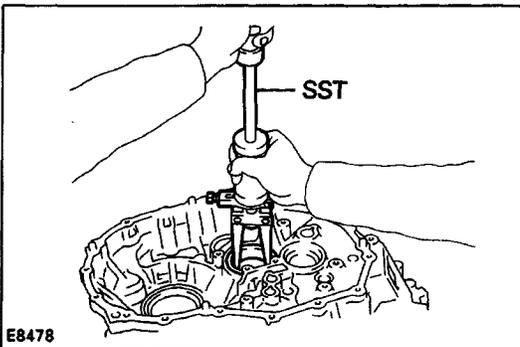


(i) Using SST and a press, remove the inner race.

SST 09950-00020



Using SST and a press, install a new input shaft front bearing inner race.
SST 09316-60010 (09316-00020)

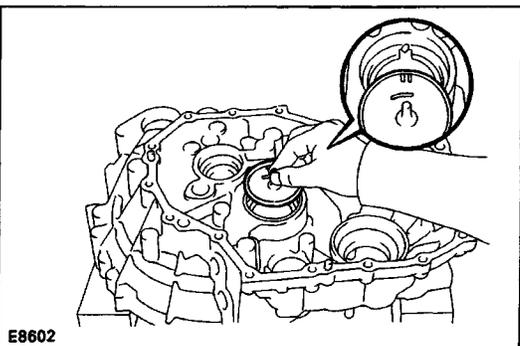


4. IF NECESSARY, REPLACE OUTPUT SHAFT FRONT OUTER RACE AND OUTPUT SHAFT COVER

(a) Using SST, pull out the outer race.

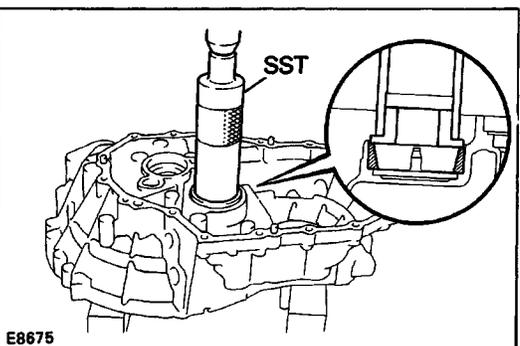
SST 09308-00010

(b) Remove the output shaft front cover.

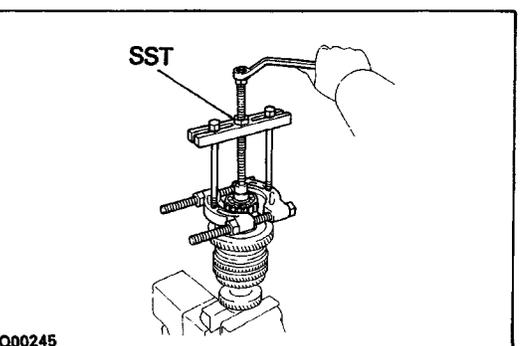


(c) Install the output shaft front cover.

HINT: Install the output shaft cover projection into the case side groove.

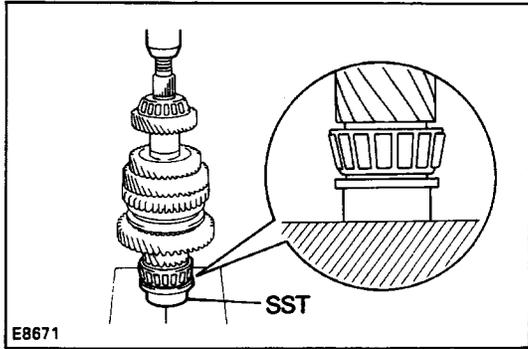


(d) Using SST and a press, press in a new outer race.
SST 09316-60010 (09316-00010, 09316-00020)



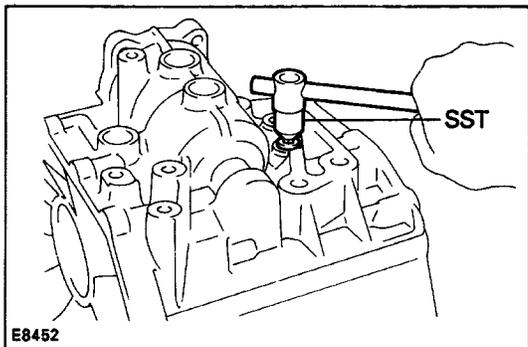
(e) Using SST and a socket wrench, remove the bearing.

SST 09950-00020, 09950-00030

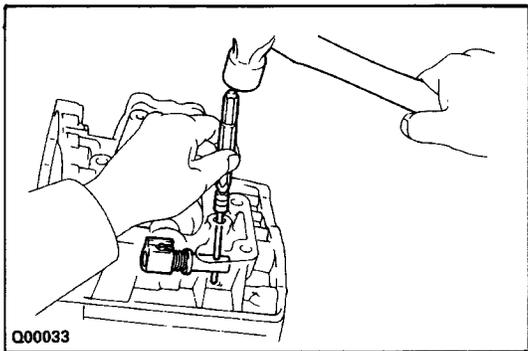


(f) Using SST and a press, install a new bearing.
SST 09316-60010 (09316-00070)

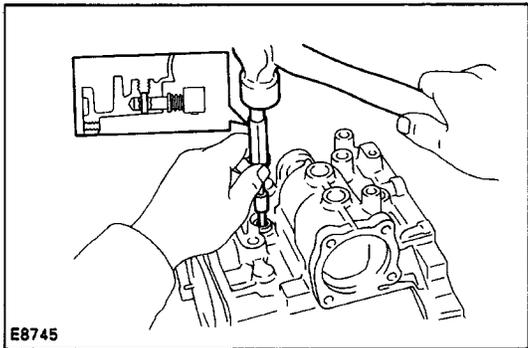
5. IF NECESSARY, REPLACE REVERSE RESTRICT PIN



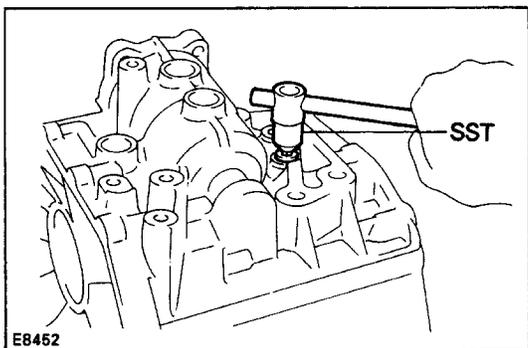
(a) Using SST, remove the screw plug.
SST 09313-30021



(b) Using a pin punch and hammer, drive out the slotted spring pin.



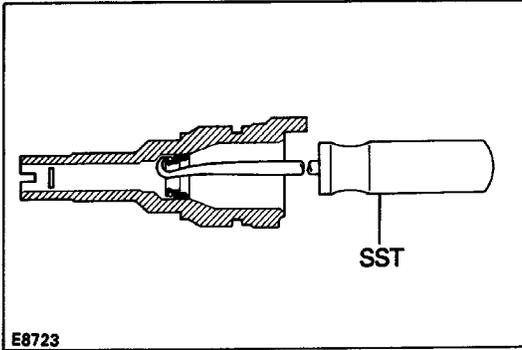
(c) Replace the reverse restrict pin.
(d) Using a pin punch, drive in the slotted spring pin.



(e) Apply liquid sealant to the plug threads.
Sealant: Part No. 08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent
(f) Using SST, install the screw plug.
SST 09313-30021

6. IF NECESSARY, REPLACE SPEEDOMETER DRIVEN GEAR OIL SEAL

- (a) Using SST, pull out the oil seal.
SST 09921-00010



- (b) Using SST, drive in a new oil seal.
SST 09201-60011

Drive in depth: 33 mm (1.30 in.)

- (c) Coat the lip of oil seal with MP grease.

