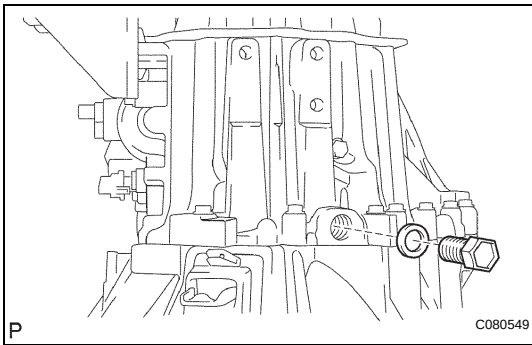


DISASSEMBLY

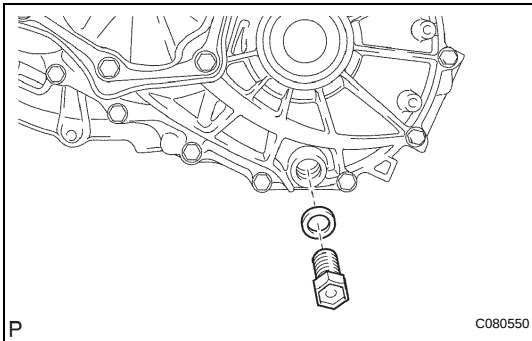
1. REMOVE MANUAL TRANSMISSION FILLER PLUG

- (a) Remove the manual transmission filler plug and gasket from the manual transmission case.



2. REMOVE DRAIN (MTM) PLUG SUB-ASSEMBLY

- (a) Remove the drain (MTM) plug sub-assembly and gasket from the manual transmission case.



3. REMOVE SPEEDOMETER SENSOR (w/o ABS)

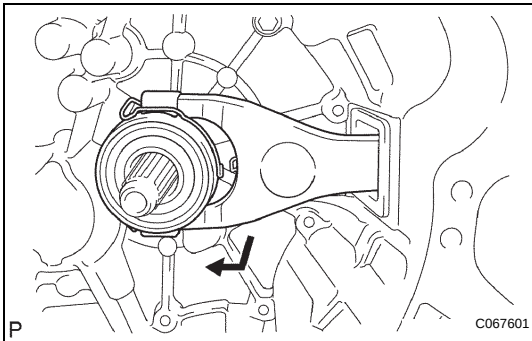
- (a) Remove the bolt and speedometer sensor from the transaxle case.
- (b) Remove the O-ring from the speedometer sensor.

4. REMOVE SPEEDOMETER DRIVEN HOLE COVER SUB-ASSEMBLY (w/ ABS)

- (a) Remove the bolt and speedometer driven hole cover sub-assembly from the transaxle case.
- (b) Remove the O-ring from the speedometer driven hole cover.

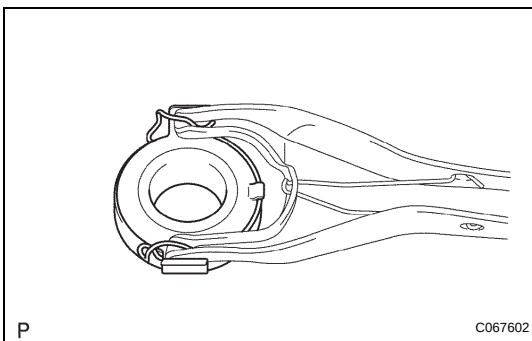
5. REMOVE CLUTCH RELEASE FORK SUB-ASSEMBLY

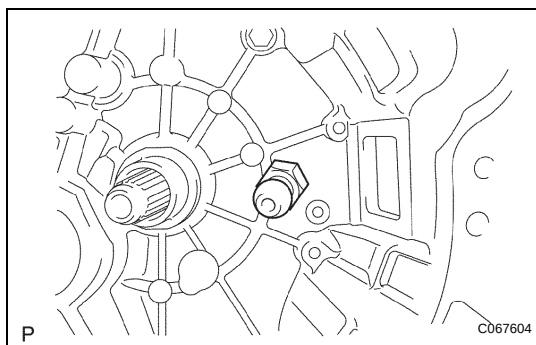
- (a) Remove the clutch release fork sub-assembly with the clutch release bearing assembly from the transaxle case.



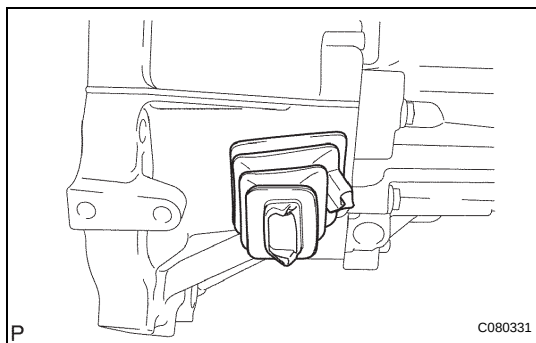
6. REMOVE CLUTCH RELEASE BEARING ASSEMBLY

- (a) Remove the clutch release bearing clip and clutch release bearing assembly from the clutch release fork sub-assembly.

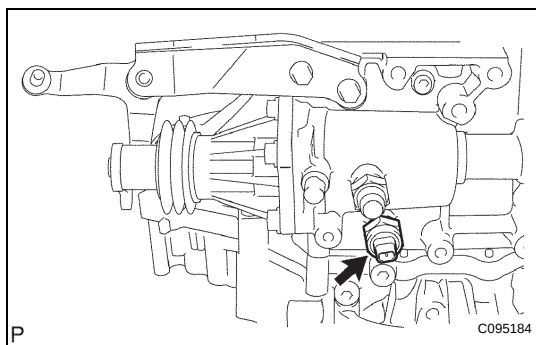


**7. REMOVE RELEASE FORK SUPPORT**

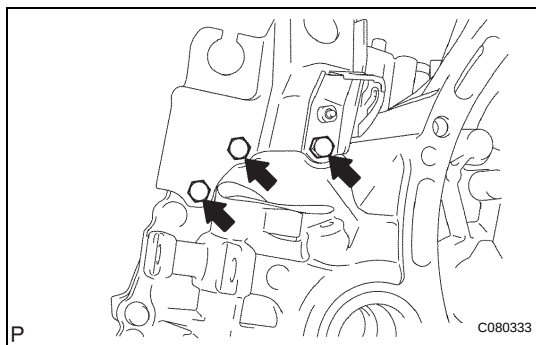
- (a) Remove the clutch release fork support from the transaxle case.

**8. REMOVE CLUTCH RELEASE FORK BOOT**

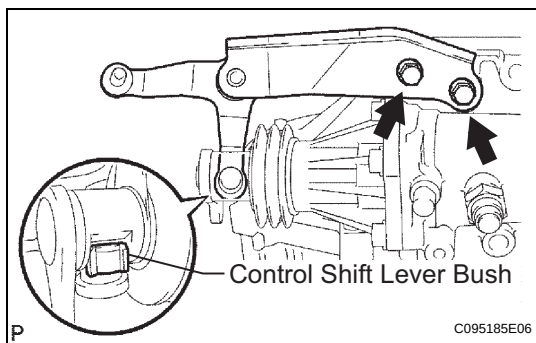
- (a) Remove the clutch release fork boot from the transaxle case.

**9. REMOVE BACK UP LIGHT SWITCH ASSEMBLY**

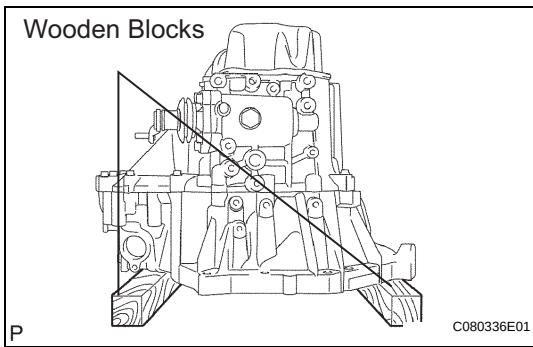
- (a) Remove the back up light switch assembly and gasket from the manual transmission case.

**10. REMOVE FLOOR SHIFT CONTROL LEVER HOUSING SUPPORT BRACKET**

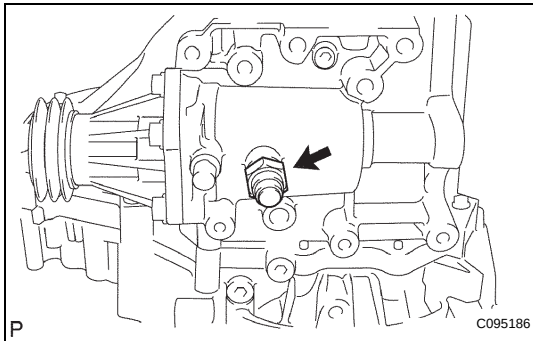
- (a) Remove the 3 bolts and floor shift control lever housing support bracket from the transaxle case.

**11. REMOVE SELECTING BELL CRANK ASSEMBLY**

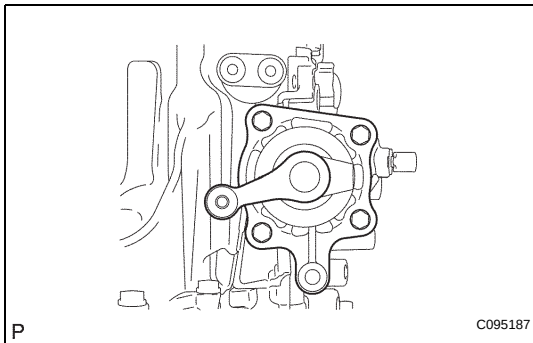
- (a) Remove the 2 bolts and selecting bell crank assembly from the manual transmission case.
(b) Remove the control shift lever bush.

**12. FIX MANUAL TRANSAXLE ASSEMBLY**

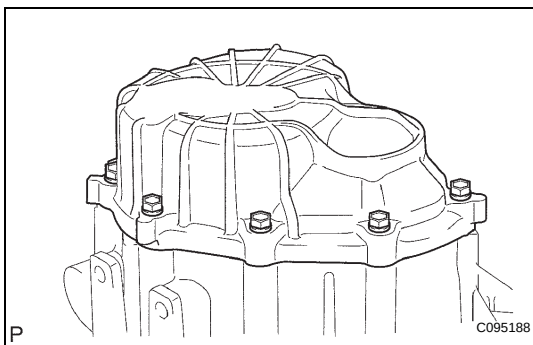
- (a) Place the manual transaxle assembly on wooden blocks.

**13. REMOVE LOCK BALL ASSEMBLY NO. 1**

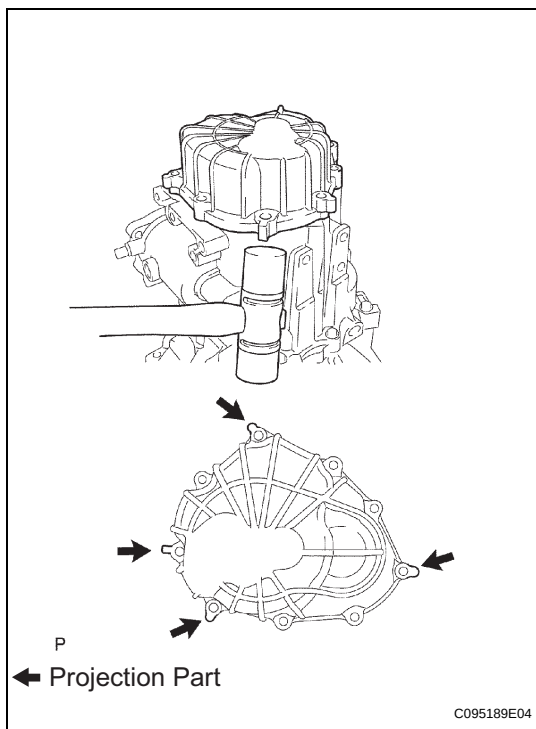
- (a) Remove the lock ball assembly No. 1 from the manual transmission case.

**14. REMOVE SHIFT AND SELECT LEVER SHAFT ASSEMBLY**

- (a) Remove the 4 bolts, shift & select lever shaft assembly and gasket from the manual transmission case.

**15. REMOVE MANUAL TRANSMISSION CASE COVER SUB-ASSEMBLY**

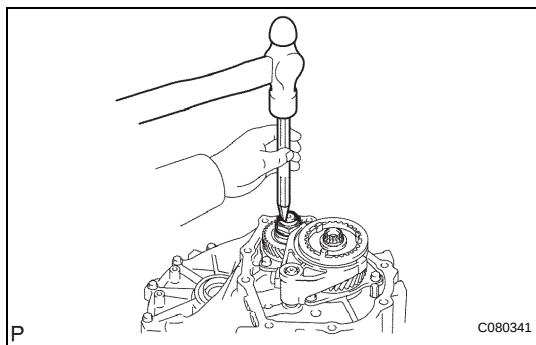
- (a) Remove the 9 bolts.



- (b) Using a plastic hammer, carefully tap the projection of the manual transmission case cover sub-assembly to remove it from the manual transmission case.

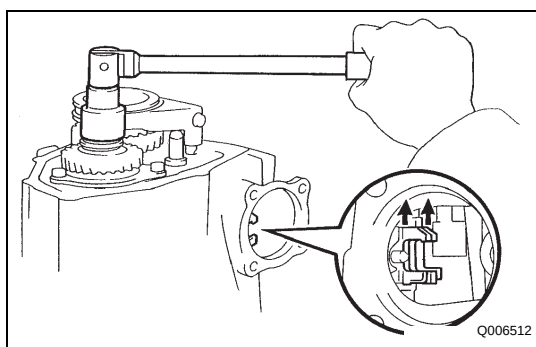
NOTICE:

Do not damage the manual transmission case.

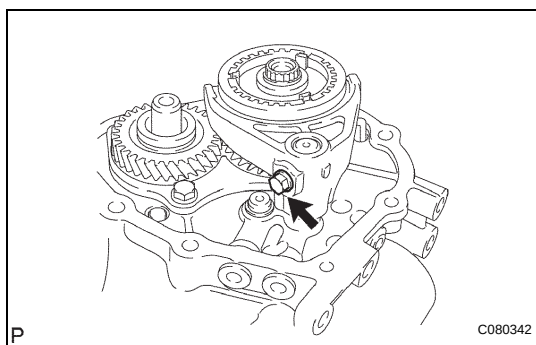


16. REMOVE MANUAL TRANSMISSION OUTPUT SHAFT REAR SET NUT

- (a) Using a chisel and a hammer, loosen the staked part of the manual transmission output shaft rear set nut.

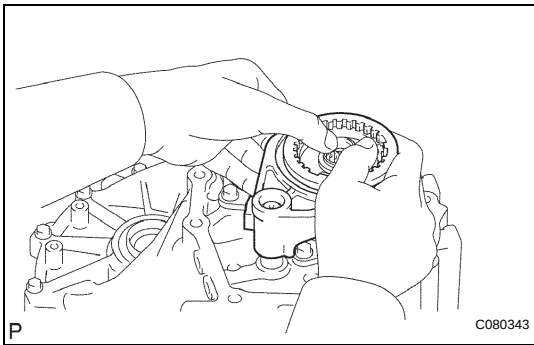


- (b) Engage two gears simultaneously to lock the transmission.
 (c) Remove the manual transmission output shaft rear set nut.
 (d) Disengage the two gears.



17. REMOVE GEAR SHIFT FORK NO. 3

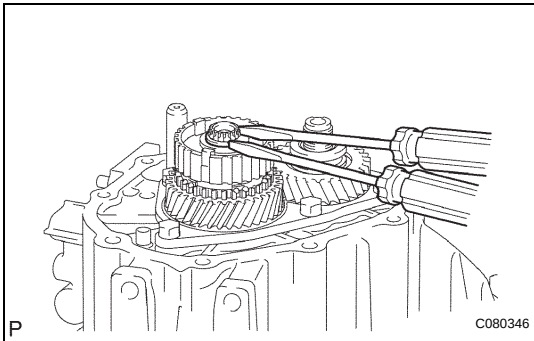
- (a) Remove the gear shift fork lock bolt from the gear shift fork No. 3.



- (b) Remove the transmission hub sleeve No. 3 with the gear shift fork No. 3 from the transmission clutch hub No. 3.

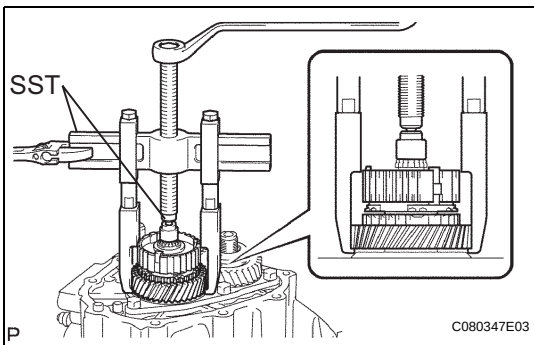
18. INSPECT 5TH GEAR THRUST CLEARANCE (See page MX-47)

19. INSPECT 5TH GEAR RADIAL CLEARANCE (See page MX-47)



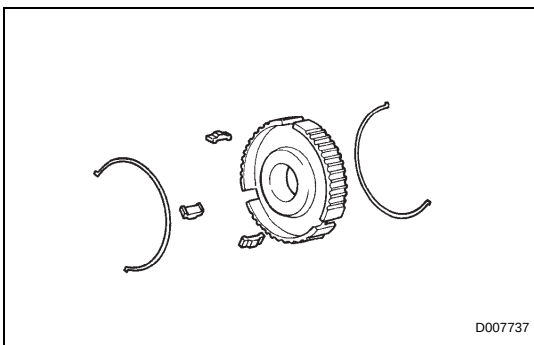
20. REMOVE TRANSMISSION CLUTCH HUB NO. 3

- (a) Using 2 screwdrivers and a hammer, tap out the snap ring.
HINT:
Use a shop rag or piece of cloth to keep the snap ring from flying.

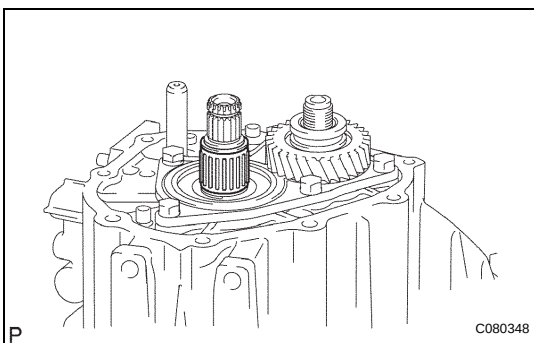


- (b) Using SST, remove the transmission clutch hub No. 3, 5th gear and synchronizer ring No. 3 from the input shaft.

SST 09950-40011 (09951-04020, 09952-04010, 09953-04030, 09954-04010, 09955-04071, 09957-04010), 09950-60010 (09951-00200)

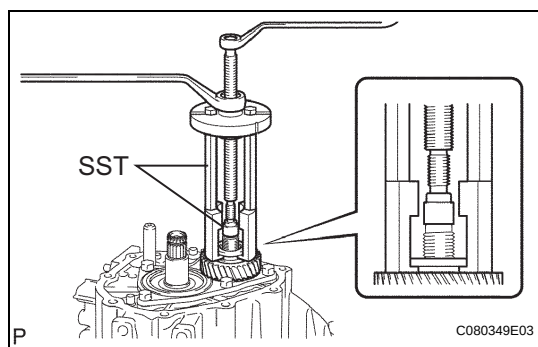


- (c) Remove the 3 synchromesh shifting keys and 2 synchromesh shifting key springs from the transmission clutch hub No. 3.



21. REMOVE 5TH GEAR NEEDLE ROLLER BEARING

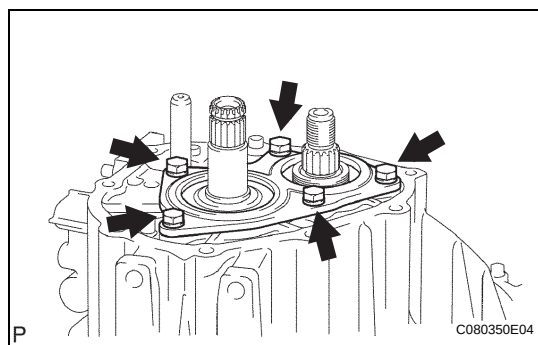
- (a) Remove the 5th gear needle roller bearing and 5th gear bearing spacer from the input shaft.



22. REMOVE 5TH DRIVEN GEAR

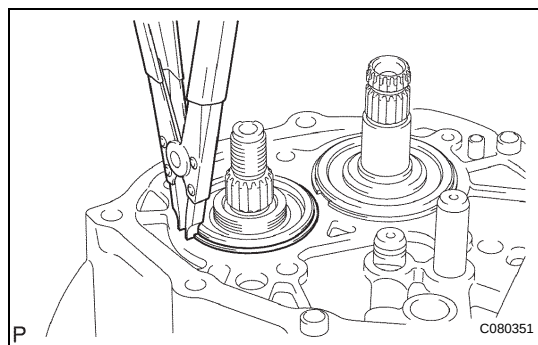
- (a) Using SST, remove the 5th driven gear from the output shaft.

SST 09950-30012 (09951-03010, 09953-03010, 09954-03010, 09955-03011, 09957-04010), 09950-60010 (09951-00190)



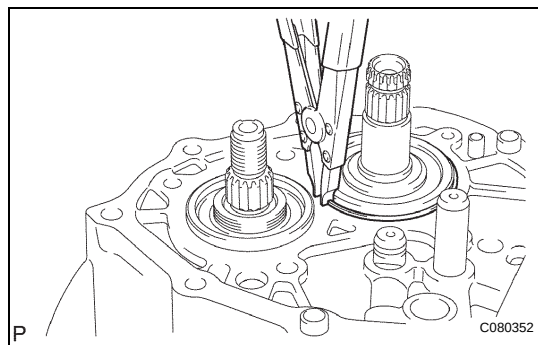
23. REMOVE BEARING RETAINER REAR (MTM)

- (a) Remove the 5 bolts and bearing retainer rear (MTM) from the manual transmission case.



24. REMOVE OUTPUT SHAFT REAR BEARING HOLE SNAP RING

- (a) Using a snap ring expander, remove the output shaft rear bearing hole snap ring from the output shaft.



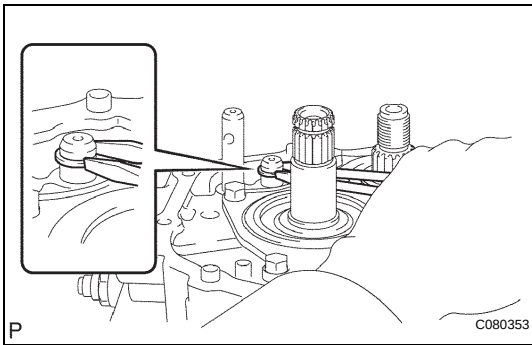
25. REMOVE INPUT SHAFT REAR BEARING HOLE SNAP RING

- (a) Using a snap ring expander, remove the input shaft rear bearing hole snap ring from the input shaft.

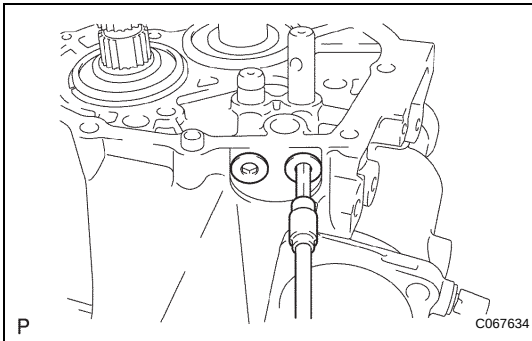


26. REMOVE REVERSE IDLER GEAR SHAFT BOLT

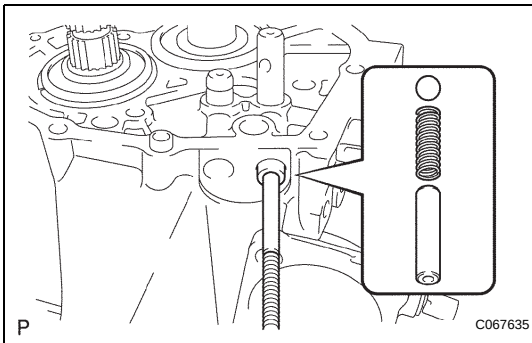
- (a) Remove the reverse idler gear shaft bolt and gasket from the manual transmission case.

**27. REMOVE SHIFT FORK SHAFT SHAFT SNAP RING**

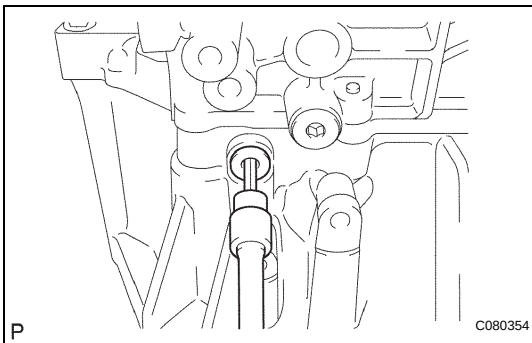
- (a) Using 2 screwdrivers and a hammer, tap out the snap ring from the gear shift fork shaft No. 2.
HINT:
Use a shop rag or piece of cloth to keep the snap ring from flying.

**28. REMOVE SHIFT DETENT BALL**

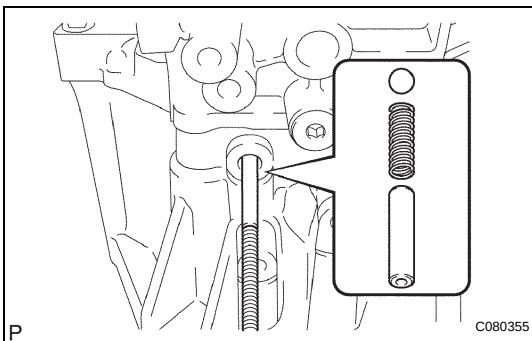
- (a) Using a hexagon wrench, remove the 2 shift detent ball plugs from the manual transmission case.



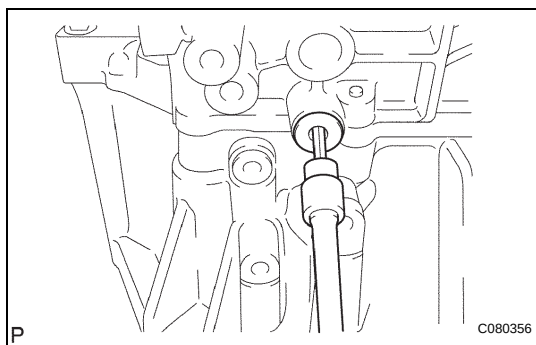
- (b) Using a magnetic finger, remove the 2 seats, 2 springs and 2 shift detent balls from the manual transmission case.



- (c) Using a hexagon wrench, remove the shift detent ball plug from the transaxle case.

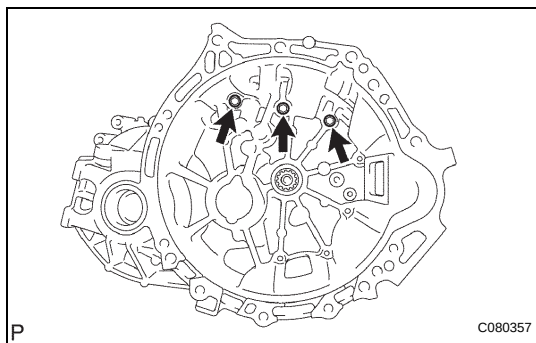


- (d) Using a magnetic finger, remove the seat, spring and shift detent ball from the transaxle case.



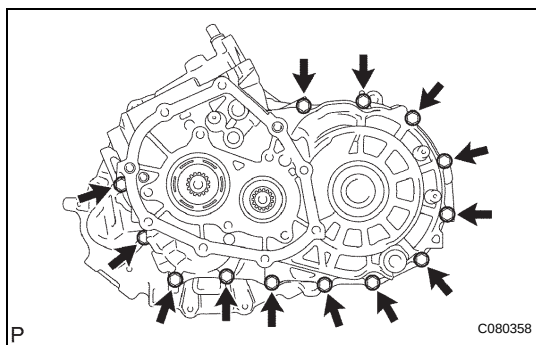
29. REMOVE LOCK BALL ASSEMBLY NO. 1

- (a) Using a hexagon wrench, remove the lock ball assembly No. 1 from the manual transmission case.

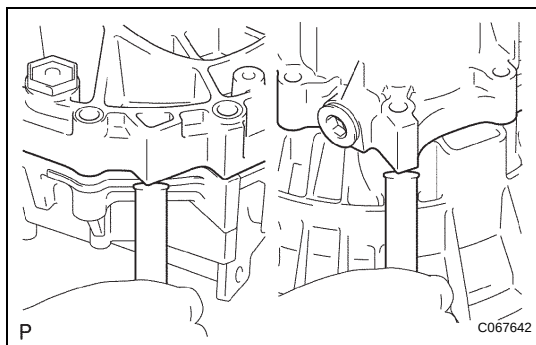


30. REMOVE MANUAL TRANSMISSION CASE

- (a) Remove the 3 bolts from the transaxle case side.



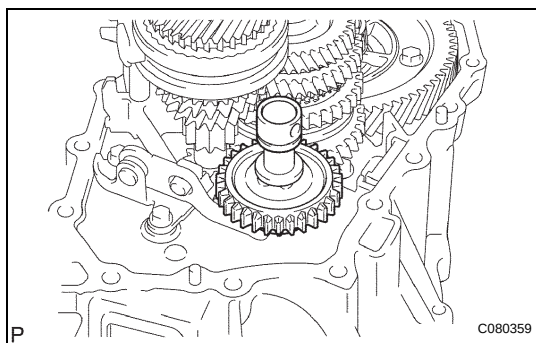
- (b) Remove the 13 bolts from the manual transmission case side.



- (c) Using a brass bar and a hammer, carefully tap the projection of the manual transmission case to remove it from the transaxle case.

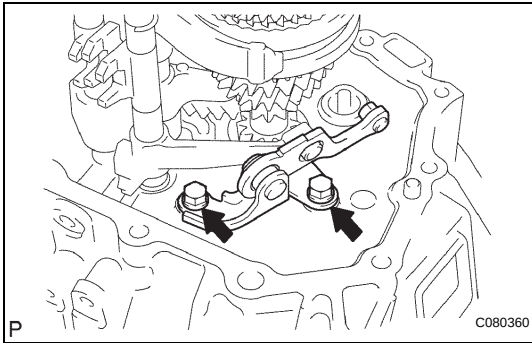
NOTICE:

Do not damage the manual transmission case and transaxle case.



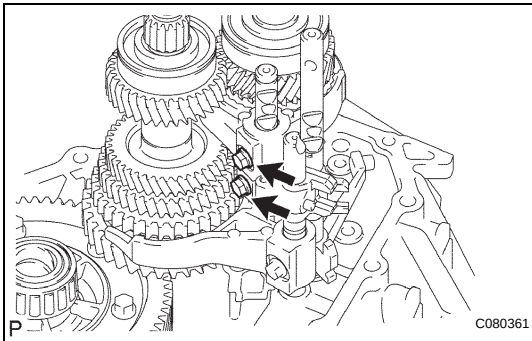
31. REMOVE REVERSE IDLER GEAR SUB-ASSEMBLY

- (a) Remove the reverse idler gear sub-assembly, thrust washer and reverse idler gear shaft from the transaxle case.



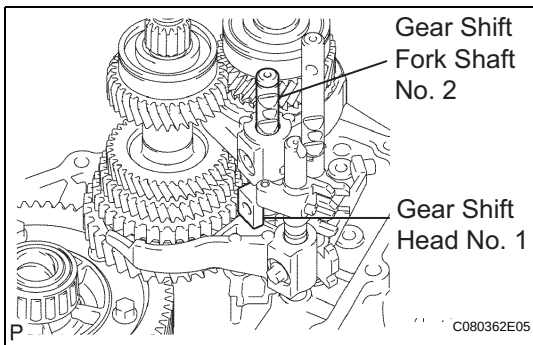
32. REMOVE REVERSE SHIFT ARM BRACKET ASSEMBLY

- (a) Remove the 2 bolts and reverse shift arm bracket assembly from the transaxle case.

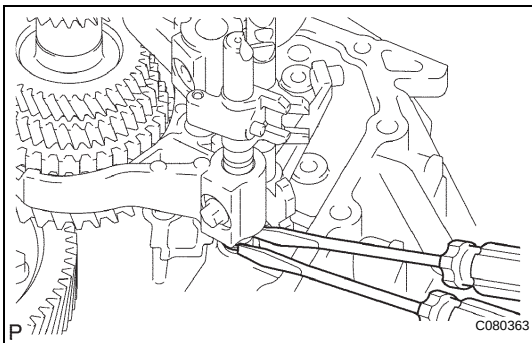


33. REMOVE GEAR SHIFT FORK SHAFT NO. 2

- (a) Remove the 2 bolts from the gear shift fork No. 2 and gear shift head No. 1.

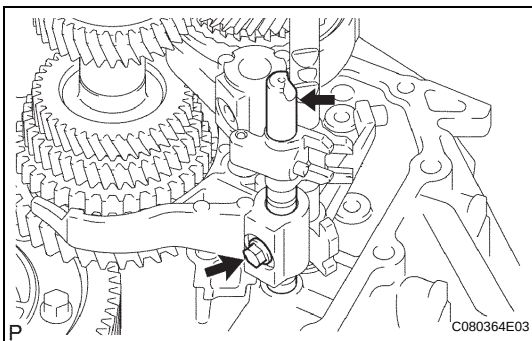


- (b) Remove the gear shift fork shaft No. 2 and gear shift head No. 1 from the transaxle case.

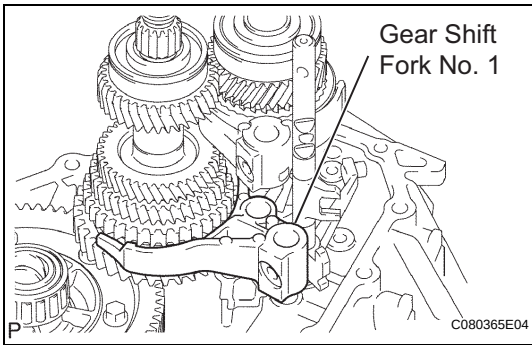


34. REMOVE GEAR SHIFT FORK SHAFT SUB-ASSEMBLY NO. 1

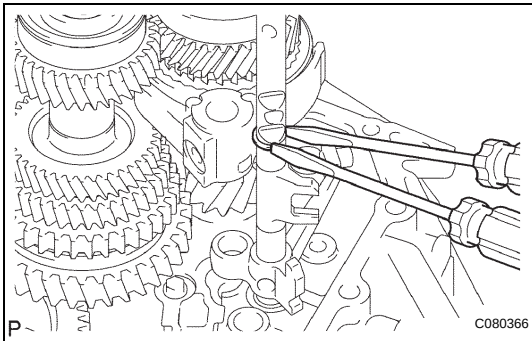
- (a) Using 2 screwdrivers and a hammer, tap out the snap ring.
HINT:
Use a shop rag or piece of cloth to keep the snap ring from flying.



- (b) Remove the gear shift fork lock bolt and gear shift fork shaft sub-assembly No. 1 from the gear shift fork No. 1.



- (c) Remove the gear shift fork No. 1.

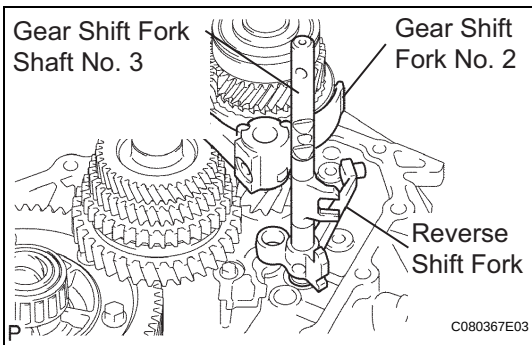


35. REMOVE GEAR SHIFT FORK SHAFT NO. 3

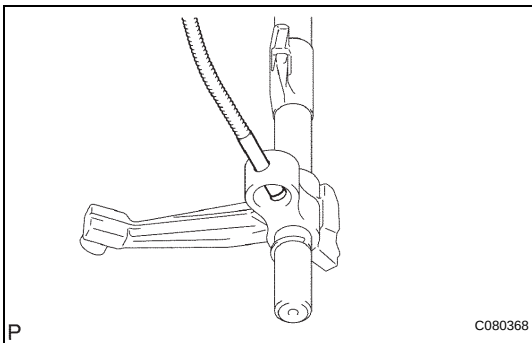
- (a) Using 2 screwdrivers and a hammer, tap out the snap ring from the gear shift fork shaft No. 3.

HINT:

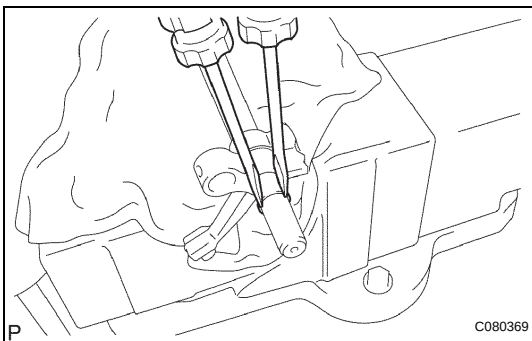
Use a shop rag or piece of cloth to keep the snap ring from flying.



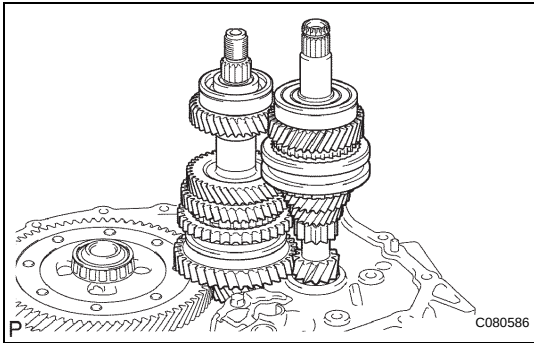
- (b) Remove the shift fork shaft No. 3 with the reverse shift fork and gear shift fork No. 2 from the transaxle case.



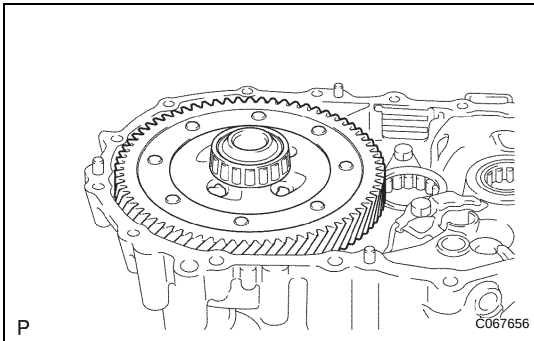
- (c) Using a magnetic finger, remove the 2 balls from the reverse shift fork.



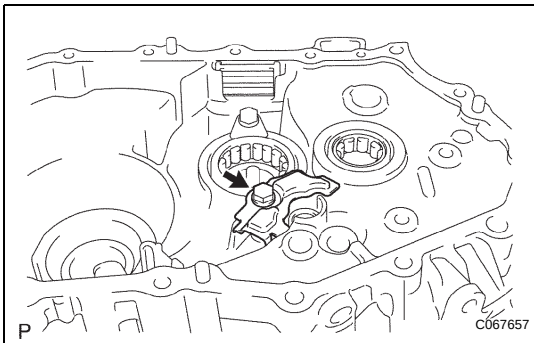
- (d) Using 2 screwdrivers and a hammer, tap out the snap ring.
- HINT:
- Use a shop rag or piece of cloth to keep the snap ring from flying.
- (e) Remove the reverse shift fork from the gear shift fork shaft No. 3.

**36. REMOVE INPUT SHAFT ASSEMBLY**

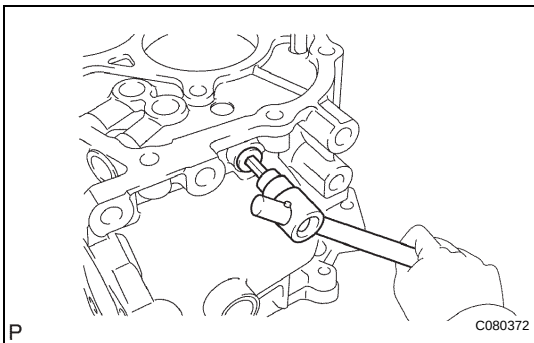
- (a) Remove the input and output shaft assembly from the transaxle case.

**37. REMOVE DIFFERENTIAL CASE ASSEMBLY**

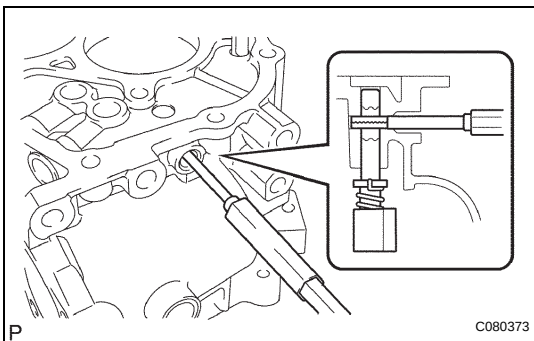
- (a) Remove the differential case assembly from the transaxle case.

**38. REMOVE MANUAL TRANSAXLE CASE RECEIVER**

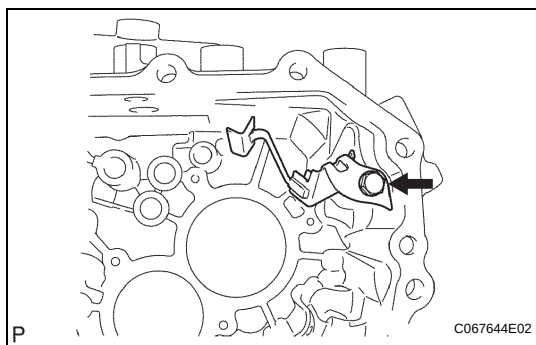
- (a) Remove the bolt and manual transaxle case receiver from the transaxle case.

**39. REMOVE REVERSE RESTRICT PIN ASSEMBLY**

- (a) Using a hexagon wrench, remove the reverse restrict pin plug from the manual transmission case.



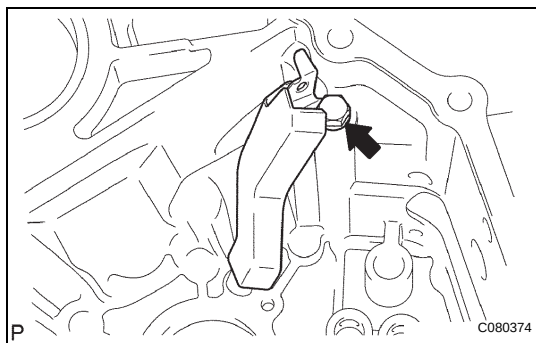
- (b) Using a pin punch ($\phi 5$ mm) and a hammer, drive out the slotted pin and remove the reverse restrict pin assembly from the manual transmission case.

**40. REMOVE OIL RECEIVER PIPE NO. 1 (MTM)**

- (a) Remove the bolt and oil receiver pipe No. 1 (MTM) from the manual transmission case.

NOTICE:

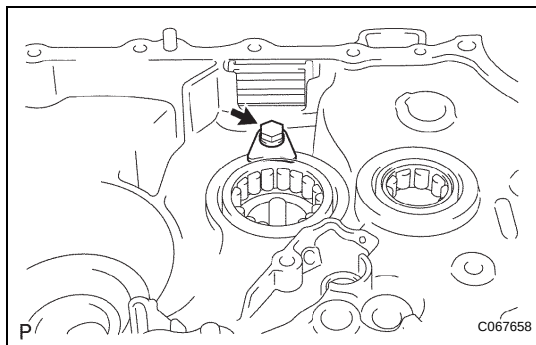
Be careful not to damage the oil receiver pipe No. 1 (MTM).

**41. REMOVE OIL RECEIVER PIPE NO. 2 (MTM)**

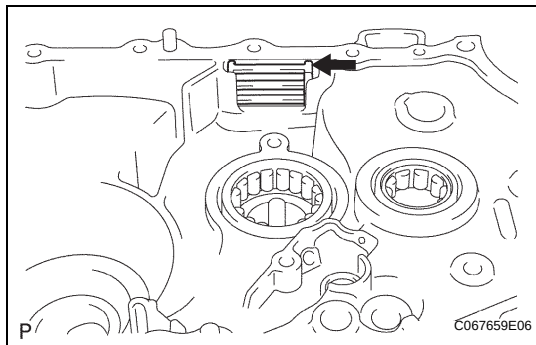
- (a) Remove the bolt and oil receiver pipe No. 2 (MTM) from the manual transmission case.

NOTICE:

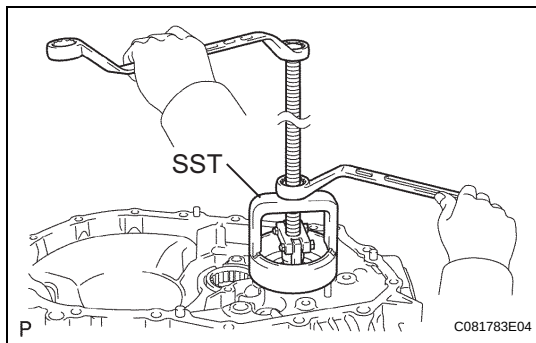
Be careful not to damage the oil receiver pipe No. 2 (MTM).

**42. REMOVE BEARING LOCK PLATE**

- (a) Remove the bolt and bearing lock plate from the transaxle case.

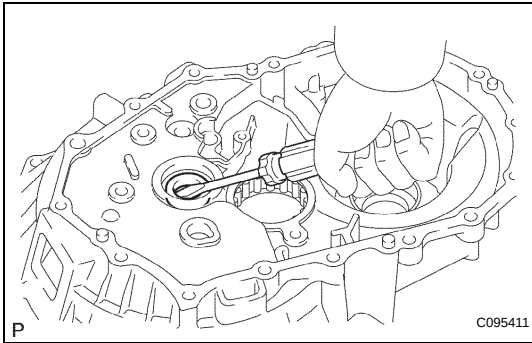
**43. REMOVE TRANSMISSION MAGNET**

- (a) Remove the transmission magnet from the transaxle case.

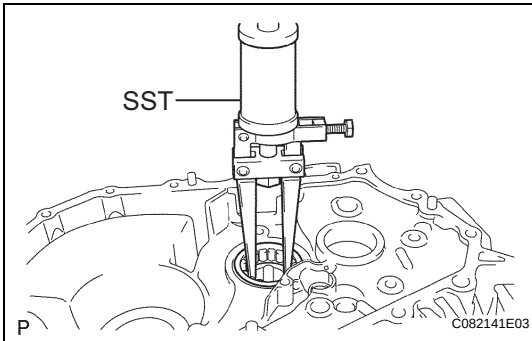
**44. REMOVE INPUT SHAFT FRONT BEARING**

- (a) Using SST, remove the input shaft front bearing from the transaxle case.

SST 09612-65014 (09612-01050, 09612-01060)

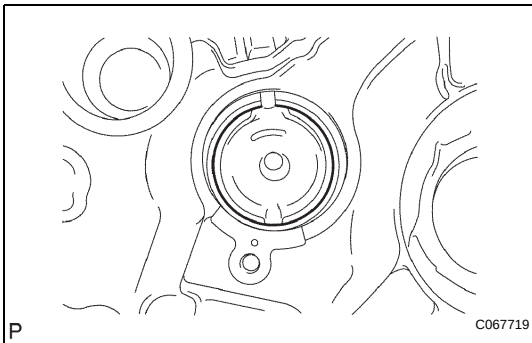
**45. REMOVE FRONT TRANSAXLE CASE OIL SEAL**

- (a) Using a screwdriver, remove the front transaxle case oil seal from the transaxle case.

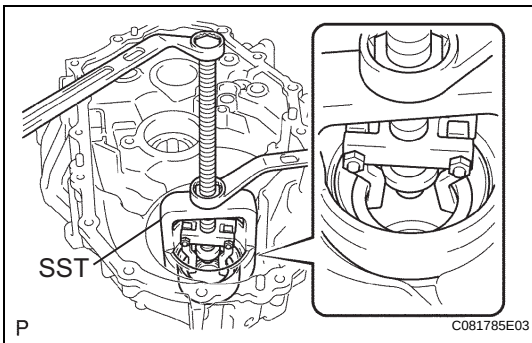
**46. REMOVE OUTPUT SHAFT FRONT BEARING**

- (a) Using SST, remove the output shaft front bearing from the transaxle case.

SST 09308-00010

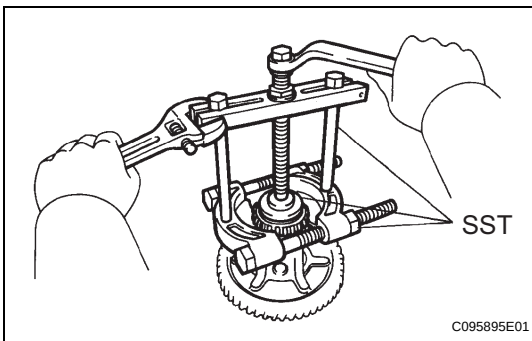
**47. REMOVE OUTPUT SHAFT (MTM) COVER**

- (a) Remove the output shaft (MTM) cover from the transaxle case.

**48. REMOVE FR DIFFERENTIAL CASE FRONT TAPERED ROLLER BEARING**

- (a) Using SST, remove the FR differential case front tapered roller bearing (outer race) and shim from the transaxle case.

SST 09612-65014 (09612-01040, 09612-01050)

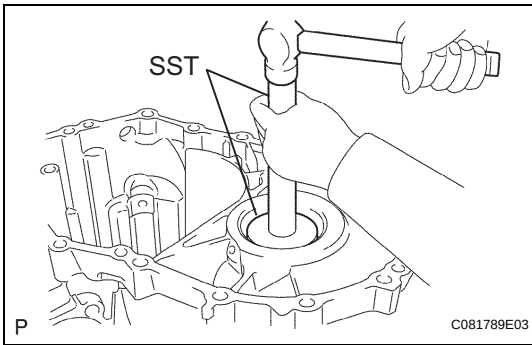


- (b) Using SST, remove the FR differential case front tapered roller bearing (inner race) from the front differential case.

SST 09950-00020, 09950-00030, 09950-40011 (09957-04010), 09950-60010 (09951-00360)

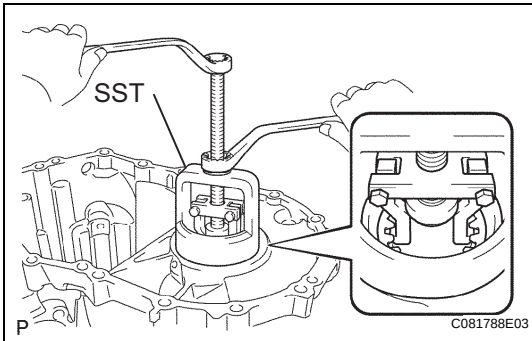
NOTICE:

Be careful not to damage the bearing.

**49. REMOVE TRANSAXLE CASE OIL SEAL**

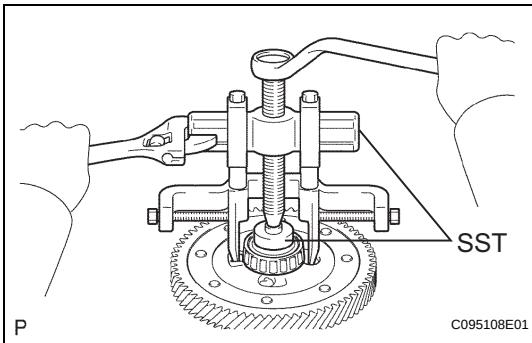
- (a) Using SST and a hammer, drive out the transaxle case oil seal from the transaxle case.

SST 09950-60010 (09951-00530), 09950-70010 (09951-07150)

**50. REMOVE FR DIFFERENTIAL CASE REAR TAPERED ROLLER BEARING**

- (a) Using SST, remove the FR differential case rear tapered roller bearing (outer race) and shim from the manual transmission case.

SST 09612-65014 (09612-01040, 09612-01050)

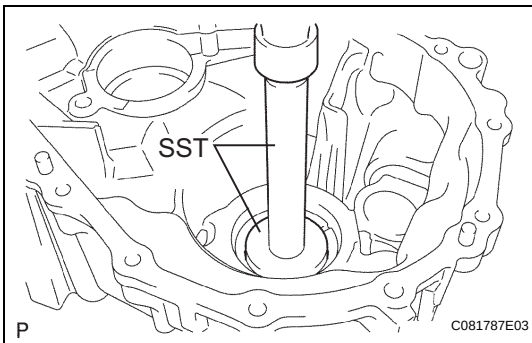


- (b) Using SST and a hammer, remove the FR differential case rear tapered roller bearing (inner race) from the front differential case.

SST 09950-40011 (09951-04010, 09952-04010, 09953-04020, 09954-04010, 09955-04061, 09957-04010, 09958-04011), 09950-60010 (09951-00360)

NOTICE:

Be careful not to damage the bearing.

**51. REMOVE TRANSMISSION CASE OIL SEAL**

- (a) Using SST and a hammer, remove the transmission case oil seal from the manual transmission case.

SST 09950-60010 (09951-00600), 09950-70010 (09951-07100)

52. INSPECT SYNCHRONIZER RING NO. 3 (See page [MX-47](#))**53. INSPECT TRANSMISSION HUB SLEEVE NO. 3 (See page [MX-48](#))****54. INSPECT 5TH GEAR (See page [MX-48](#))****55. INSPECT REVERSE IDLER GEAR SUB-ASSEMBLY (See page [MX-49](#))**