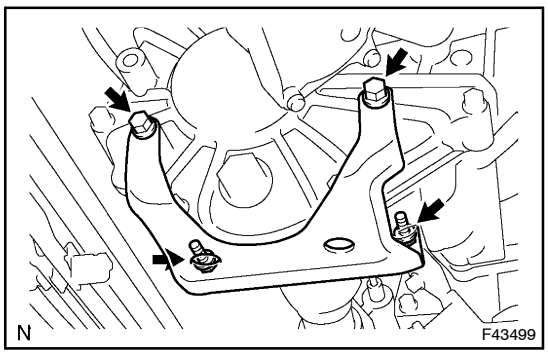
3103J–01

OVERHAUL

HINT:

COMPONENTS : See page 31–45

1. DRAIN TRANSFER OIL



2. REMOVE TRANSFER CASE LOWER PROTECTOR

(a) Remove the 4 bolts and transfer case lower protector.

3. REMOVE MANUAL TRANSMISSION ASSY

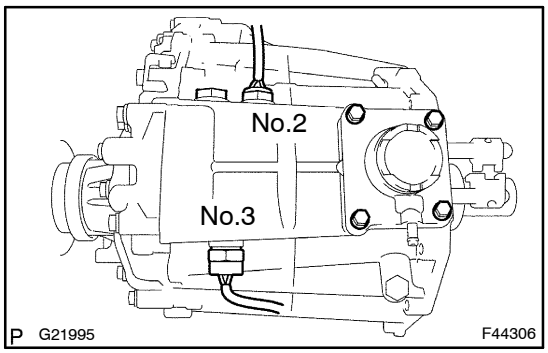
(a) 3RZ–FE : (See page 41–22)

(b) 5L–E : (See page 41–4)

4. REMOVE TRANSFER ASSY

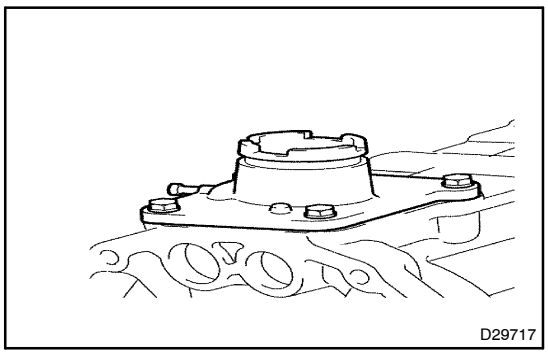
(a) Remove the 8 bolts and 2 clamps.

(b) Remove the transfer from the transmission.



5. REMOVE SWITCH

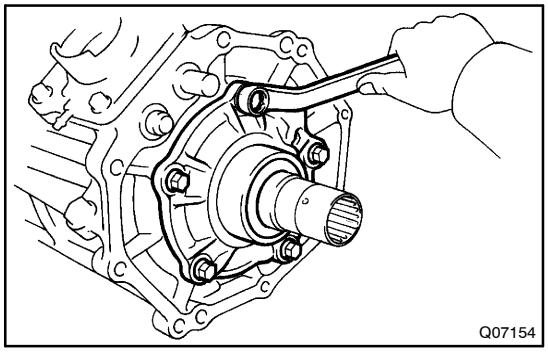
(a) Remove the indicator switch.



6. REMOVE TRANSFER CONTROL SHIFT LEVER RETAINER SUB–ASSY

(a) Remove the 4 bolts and control shift lever retainer sub–assy.

7. REMOVE BREATHER OIL DEFLECTOR SUB–ASSY



8. REMOVE TRANSFER RH BEARING RETAINER SUB–ASSY

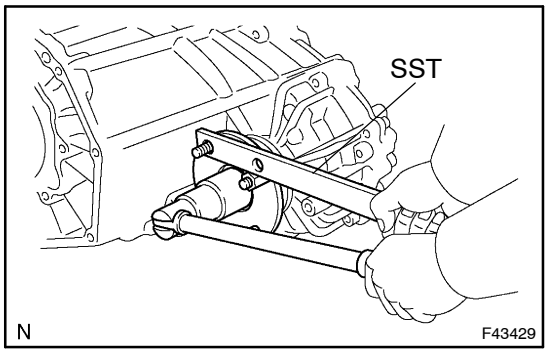
(a) Remove the 5 bolts and front bearing retainer sub–assy.

HINT:

If necessary, tap the extension housing with a plastic hammer to remove it.

9. REMOVE TRANSFER COVER TYPE T OIL SEAL

(a) Using a screwdriver and hammer, remove the oil seal from the front bearing retainer sub–assy.

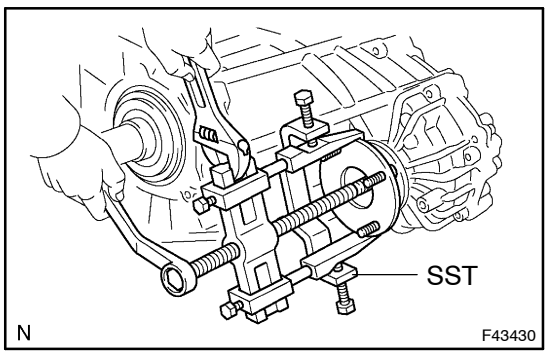


10. REMOVE OUTPUT SHAFT COMPANION FLANGE SUB–ASSY

(a) Using a chisel and hammer, loosen the staked part of the output shaft companion flange lock nut.(front)

(b) Using SST to hold the output shaft companion flange, remove the output shaft companion flange lock nut.(front)

SST 09330–00021



(c) Using SST, remove the output shaft companion flange sub–assy.(front)

SST 09950–40011 (09951–04020, 09952–04010, 09953–04030, 09954–04010, 09955–04051, 09957–04010, 09958–04011)

11. REMOVE TRANSFER OUTPUT SHAFT COMPANION FLANGE OIL SEAL

(a) Using a screwdriver and hammer, remove the oil seal from the output shaft companion flange sub–assy.(rear)

12. REMOVE OUTPUT SHAFT COMPANION FLANGE SUB–ASSY

(a) Remove the rear output shaft companion flange sub–assy in the same way as the front output shaft companion flange sub–assy.(rear)

SST 09330–00021, 09950–40011 (09951–04020, 09952–04010, 09953–04030, 09954–04010, 09955–04051, 09957–04010, 09958–04011)

13. REMOVE TRANSFER OUTPUT SHAFT COMPANION FLANGE OIL SEAL

(a) Using a screwdriver and hammer, remove the oil seal from the rear output shaft companion flange sub–assy.(rear)

14. REMOVE SPEEDOMETER DRIVEN GEAR ASSY W/SENSOR

(a) Remove the bolt and speedmeter driven gear w/sensor.

15. REMOVE EXTENSION HOUSING ASSY

(a) Remove the 5 bolts and extension housing sub–assy.

HINT:

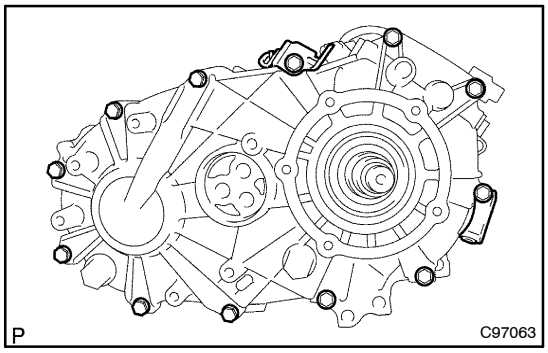
If necessary, tap the extension housing sub–assy with a plastic hammer to remove it.

16. REMOVE TRANSFER COVER TYPE T OIL SEAL

(a) Using a screwdriver and hammer, remove the oil seal.

17. REMOVE TRANSFER OUTPUT WASHER

18. REMOVE TRANSFER SPEEDOMETER DRIVE GEAR



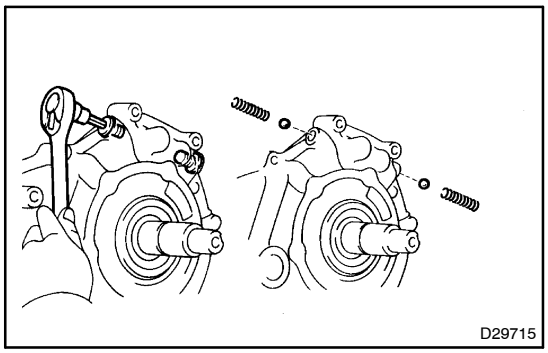
19. REMOVE TRANSFER CASE REAR

(a) Remove the 12 bolts and clamp.

(b) Remove the transfer case rear.

HINT:

If necessary, tap the transfer case rear with a plastic hammer to remove it.



20. REMOVE TRANSFER FRONT DRIVE SHIFT FORK SHAFT

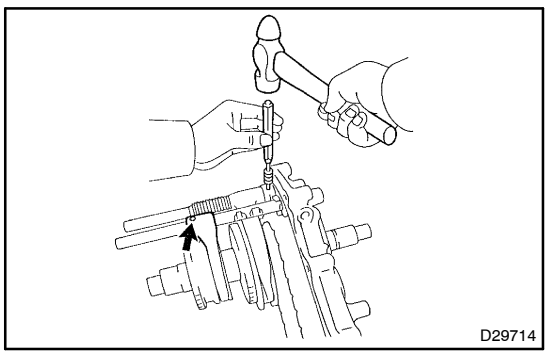
(a) Using a hexagon wrench, remove the 2 plugs.

(b) Using a magnetic finger, remove the 2 springs and balls from the both holes.

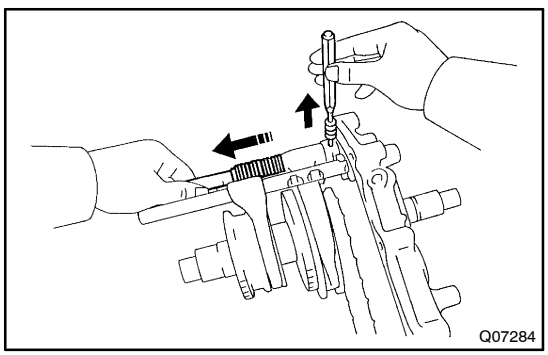
(c) Mount the rear case in a vise.

NOTICE:

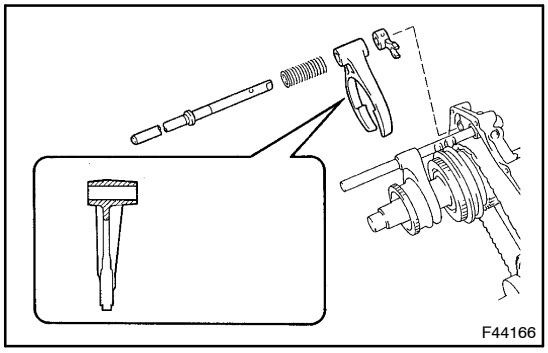
Be careful not to damage the sealing surface.



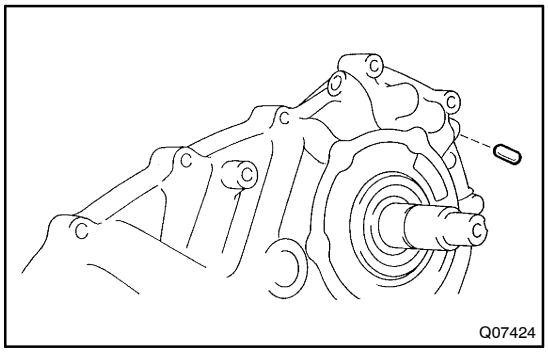
(d) Using a pin punch and hammer, drive out the 2 slotted spring pins from the stopper and high and low shift fork.



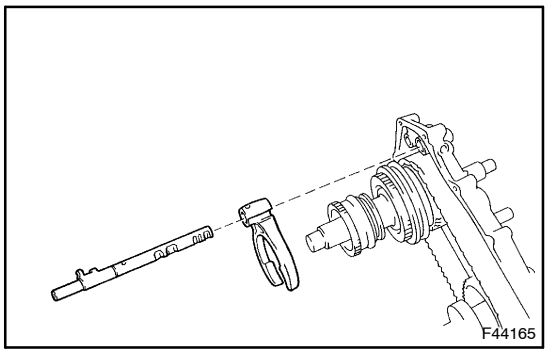
(e) Hold the front drive fork shaft in place by hand, when removing the pin punch.



(f) Remove the front drive fork shaft, shift fork, spring and stopper.

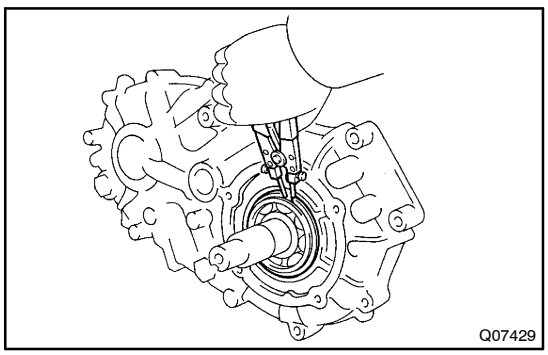


(g) Using a magnetic finger, remove the straight pin.



21. REMOVE TRANSFER HIGH AND LOW SHIFT FORK SHAFT

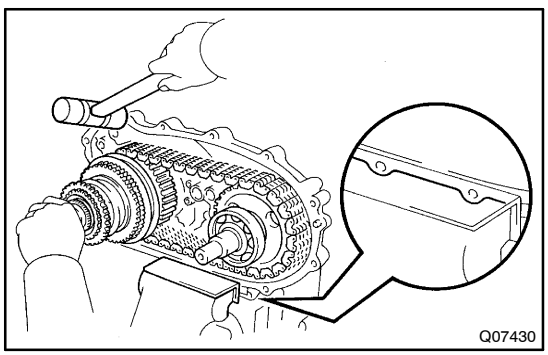
(a) Remove the high and low fork shaft and shift fork.



22. REMOVE REAR OUTPUT SHAFT SUB–ASSY, FRONT DRIVE CHAIN AND DRIVEN SPROCKET SUB–ASSY

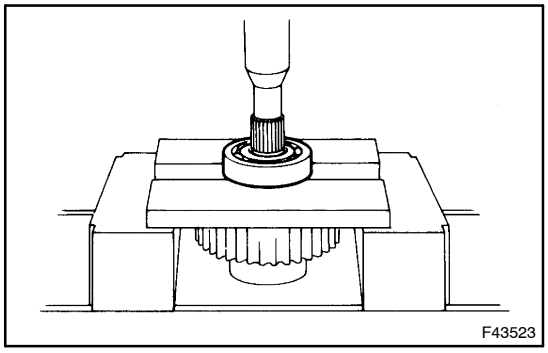
(a) Using a snap ring expander, remove the snap ring.

(b) Mount the transfer case rear in a vise.



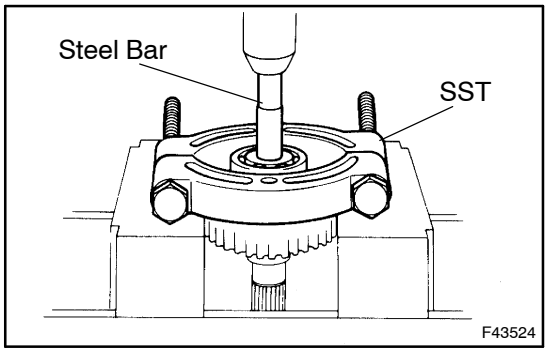
(c) Using a plastic hammer, carefully tap the transfer case rear, and remove the rear output shaft sub–assy together with front drive chain and driven sprocket sub–assy.

(d) Remove the rear output shaft sub–assy, front drive chain and driven sprocket sub–assy.



23. REMOVE TRANSFER DRIVEN SPROCKET BEARING

(a) Using a press, remove the driven sprocket bearing.



24. REMOVE TRANSFER INPUT GEAR RADIAL BALL BEARING

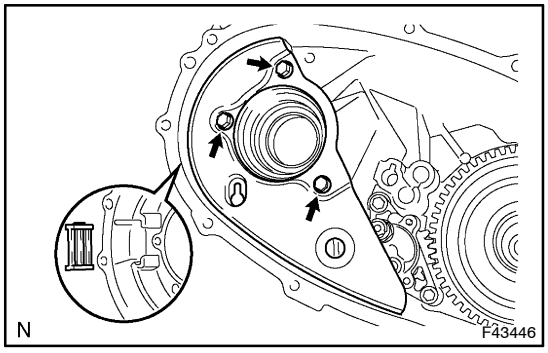
(a) Using SST, a press and steel bar, remove the transfer input gear radial ball bearing.
SST 09555–55010

25. REMOVE TRANSFER CASE NO.1 PLUG

(a) Remove the transfer case No.1 plug (filler plug) and gasket.

26. REMOVE TRANSFER CASE NO.1 PLUG

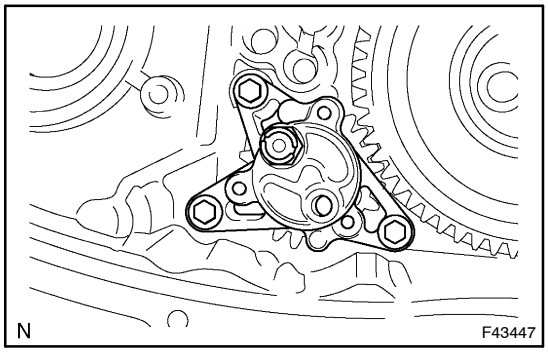
(a) Remove the transfer case No.1 plug (drain plug) and gasket.



27. REMOVE TRANSFER OIL SEPARATOR SUB–ASSY

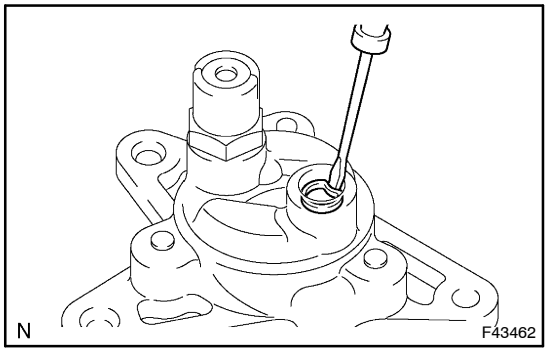
(a) Remove the 3 bolts and oil separator sub–assy.

28. REMOVE TRANSFER CASE MAGNET



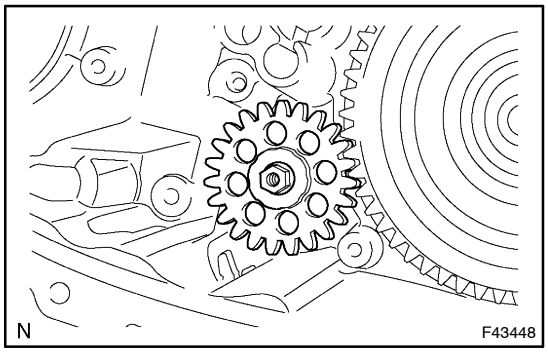
29. REMOVE TRANSFER OIL PUMP BODY SUB–ASSY

(a) Remove the 3 bolts and oil pump body sub–assy.

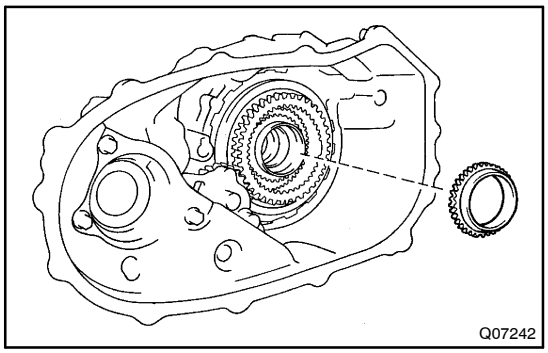


30. REMOVE TRANSFER OIL PUMP BODY O–RING

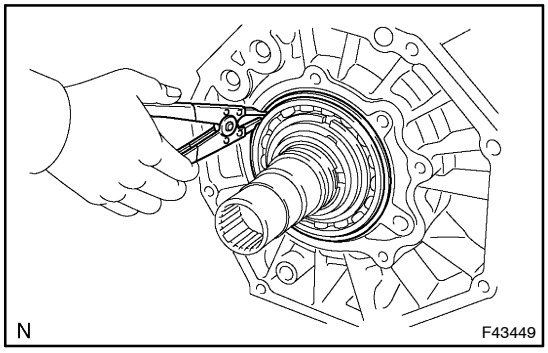
(a) Using a screwdriver, remove the oil pump body O–ring.



31. REMOVE TRANSFER OIL PUMP GEAR

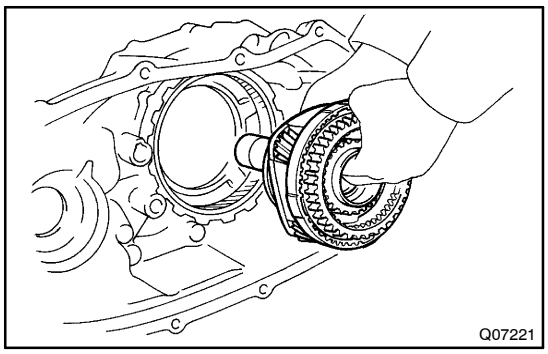


32. REMOVE TRANSFER FRONT DRIVE CLUTCH SYNCHRONIZER RING

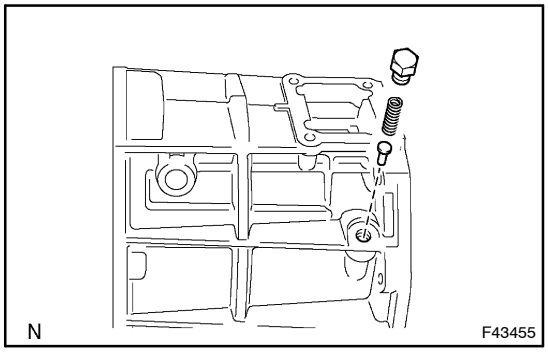


33. REMOVE LOW PLANETARY GEAR ASSY W/INPUT SHAFT SUB–ASSY

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



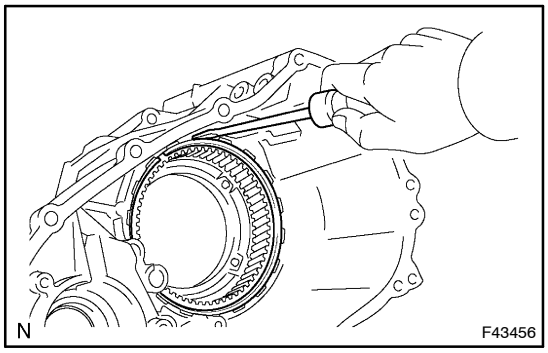
(b) Remove the low planetary gear assy and input shaft sub–assy.



34. REMOVE TRANSFER CASE PLUG

35. REMOVE COMPRESSION SPRING

36. REMOVE PIN



37. REMOVE TRANSFER LOW PLANETARY RING GEAR

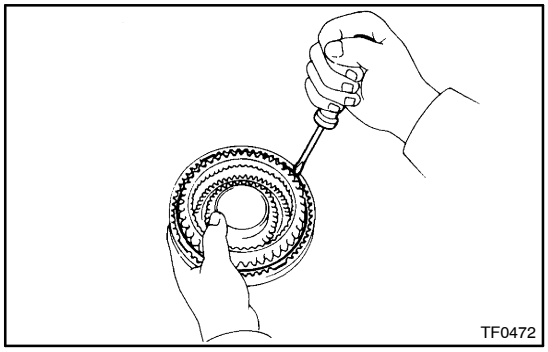
(a) Using a screwdriver, remove the snap ring.

(b) Remove the low planetary ring gear from the front case.

38. REMOVE TRANSFER CASE OIL SEAL

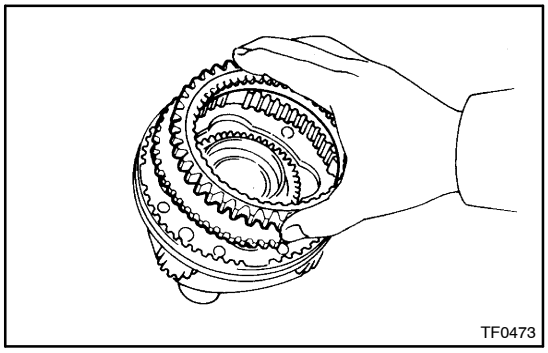
(a) Using a screwdriver and hammer, remove the transfer case oil seal (No.1).

(b) Using a screwdriver and hammer, remove the transfer case oil seal (No.2).

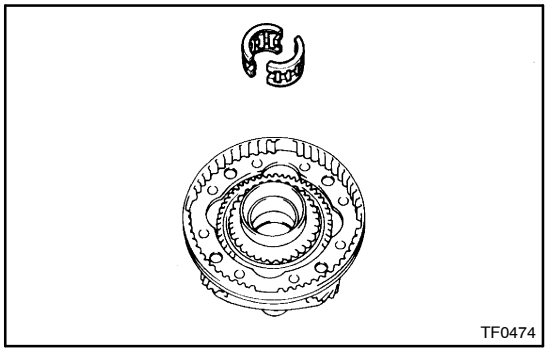


39. REMOVE TRANSFER LOW PLANETARY GEAR SPLINE PIECE

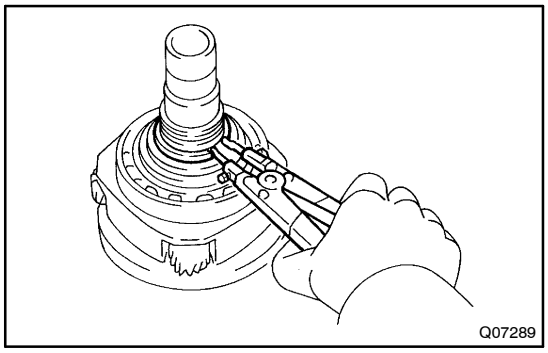
(a) Using a screwdriver, remove the snap ring.



(b) Remove the low planetary gear spline piece.

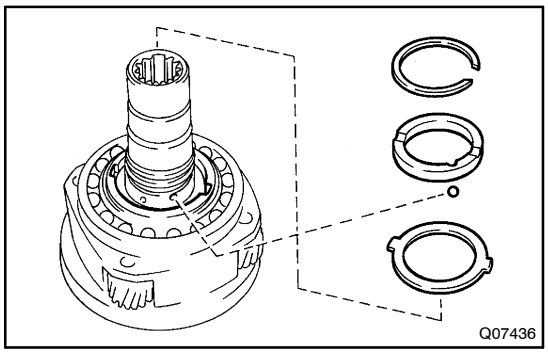


40. REMOVE TRANSFER OUTPUT SHAFT FRONT NEEDLE ROLLER BEARING



41. REMOVE TRANSFER INPUT GEAR STOPPER SHAFT SNAP RING

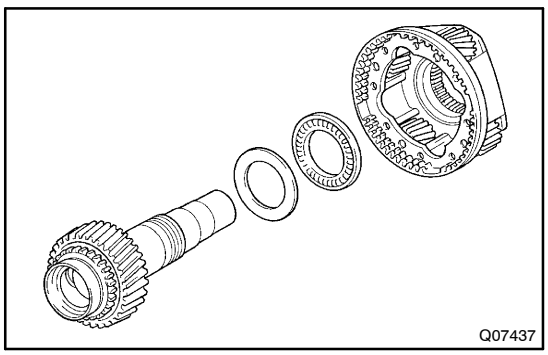
(a) Using a snap ring expander, remove the input gear stopper shaft snap ring.



42. REMOVE TRANSFER INPUT GEAR STOPPER

43. REMOVE TRANSFER INPUT GEAR STOPPER BALL

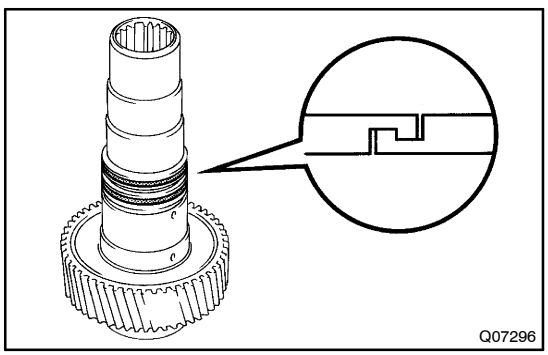
44. REMOVE MANUAL TRANSFER PLANETARY CARR WASHER



45. REMOVE TRANSFER INPUT SHAFT

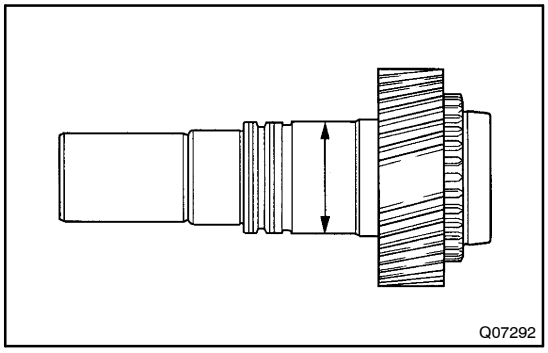
46. REMOVE TRANSFER THRUST BEARING RACE NO.1

47. REMOVE TRANSFER LOW PLANETARY GEAR BEARING



48. REMOVE TRANSFER INPUT SHAFT SEAL RING NO.1

(a) Remove the 2 oil seal rings.

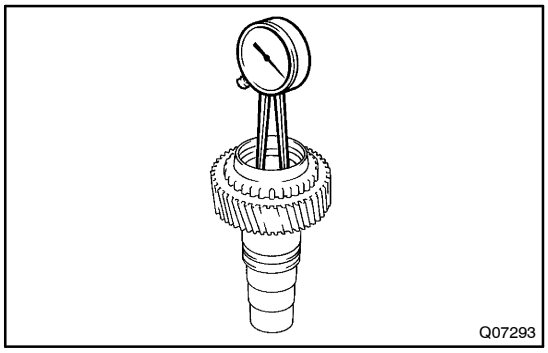


49. INSPECT TRANSFER INPUT SHAFT

(a) Using a micrometer, measure the outer diameter of the input shaft journal surface.

Minimum diameter: 47.59 mm (1.8736 in.)

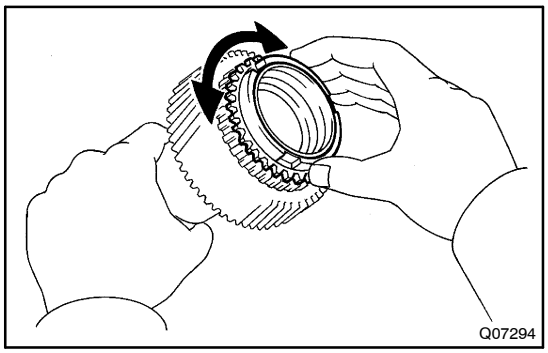
If the outer diameter is less than the minimum, replace the input shaft.



(b) Using a dial indicator, measure the inside diameter of the input shaft bushing.

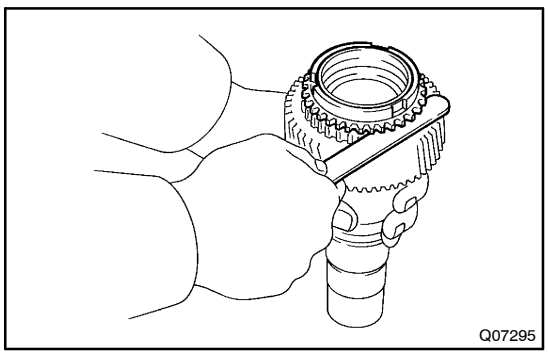
Maximum diameter: 39.14 mm (1.5409 in.)

If the inside diameter exceeds the maximum, replace the input shaft.



50. INSPECT SYNCHRONIZER RING

(a) Turn the ring and push it to check braking.



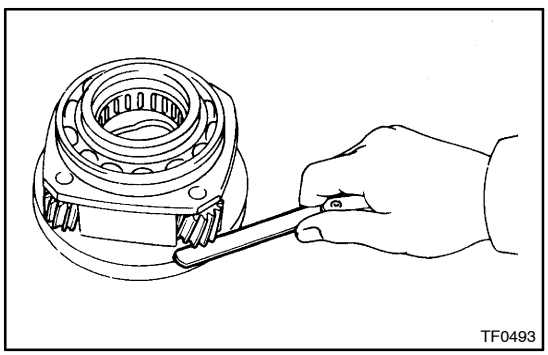
(b) Using a feeler gauge, measure the clearance between the synchronizer ring back and the input shaft spline and.

Standard clearnce:

1.05–1.85 mm (0.0413–0.0728 in.)

0.80 mm(0.0315 in.)

If the clearance is less than minimum, repleace the synchronizer ring.



51. INSPECT PLANETARY PINION GEAR THRUST CLEARANCE

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

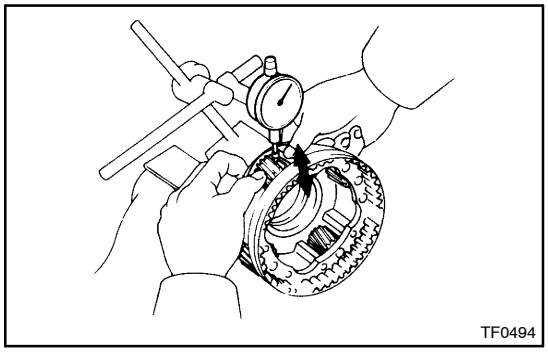
Standard clearance:

0.11 – 0.84 mm (0.0043 – 0.0331 in.)

Maximum clearance:

0.84 mm (0.0331 in.)

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

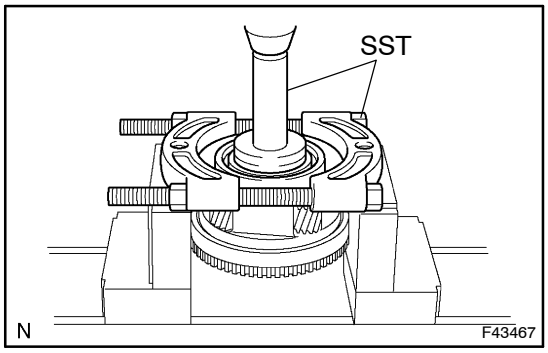


52. INSPECT PLANETARY PINION GEAR RADIAL CLEARANCE

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

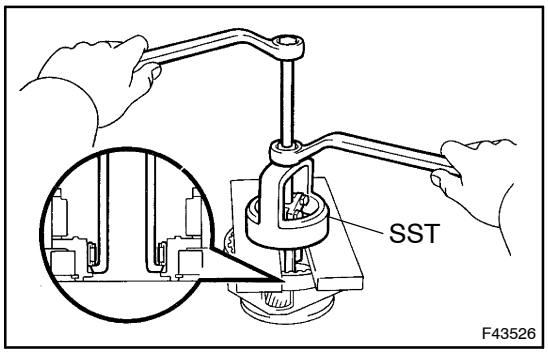
Standard clearance :
0.009 – 0.038 mm (0.0004 – 00015 in.)
Maximum clearance :
0.038 mm (0.0015 in.)

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



53. REMOVE TRANSFER INPUT SHAFT BEARING

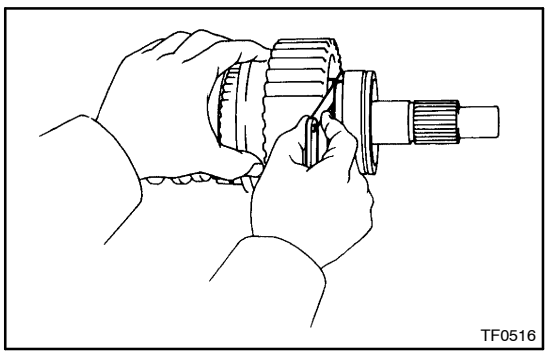
(a) Using a snap ring expander, remove the snap ring.
(b) Using SST and a press, remove the input shaft bearing.
SST 09554–30011, 09555–55010



54. REMOVE TRANSFER LOW PLANETARY GEAR BEARING

(a) Using SST, remove the low planetary gear bearing.
SST 09612–65014 (09612–01030, 09612–01050)

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

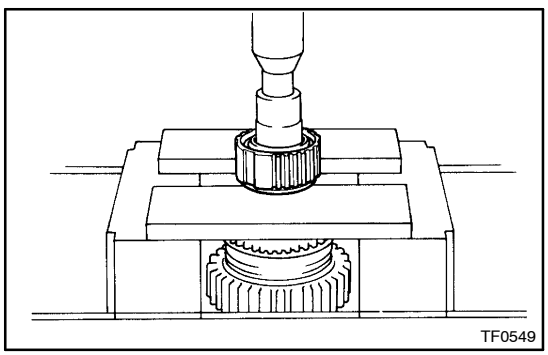


55. INSPECT DRIVE SPROCKET THRUST CLEARANCE

Using a feeler gauge, measure the drive sprocket thrust clearance.

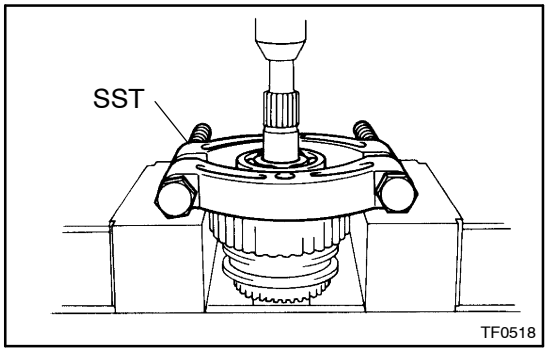
Standard clearance:
0.10 – 0.25 mm (0.0039 – 0.0098 in.)
Maximum clearance:
0.25 mm (0.0098 in.)

If the clearance exceeds the maximum, replace the drive sprocket.



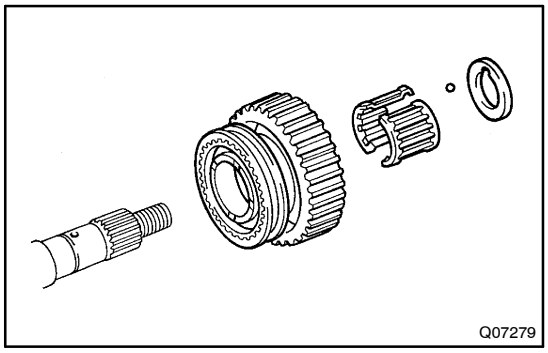
56. REMOVE TRANSFER CLUTCH HUB

(a) Using a snap ring expander, remove the snap ring.
(b) Remove the clutch sleeve.
(c) Using a press, remove the clutch hub.

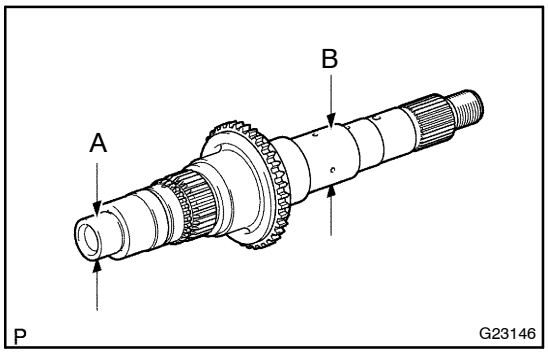


57. REMOVE TRANSFER DRIVE SPROCKET SUB–ASSY

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



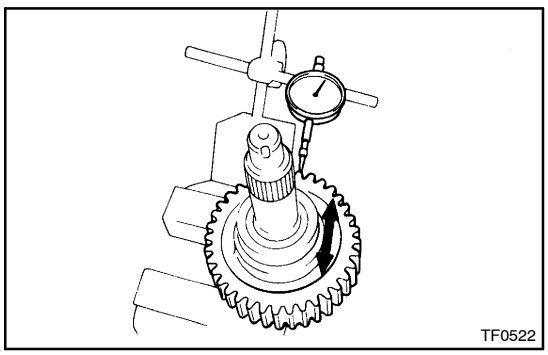
(b) Remove the spacer and ball.
(c) Remove the drive sprocket with the front drive clutch sleeve.
(d) Remove the needle roller bearing.
(e) Remove the synchronizer ring.
(f) Separate the front drive clutch sleeve from the drive sprocket.



58. INSPECT TRANSFER OUTPUT SHAFT REAR

(a) Using a micrometer, measure the outer diameter of the rear output shaft journal surface.
Minimum diameter:
Part A: 27.98 mm (1.1016 in.)
Part B: 36.98 mm (1.4561 in.)

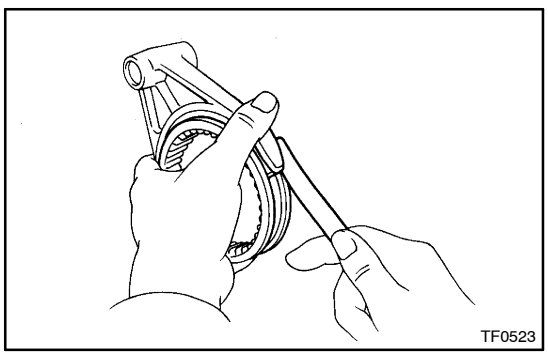
If the outer diameter is less than the minimum, replace the rear output shaft.



59. INSPECT DRIVE SPROCKET RADIAL CLEARANCE

(a) Using a dail indicator, measure the radial clearance between the sprocket and shaft with the needle roller bearing installed.
Standard clearance:
0.010–0.055 nn (0.0004–0.0022 in.)
Maximun clearance :
0.055 mm (0.0022 in.)

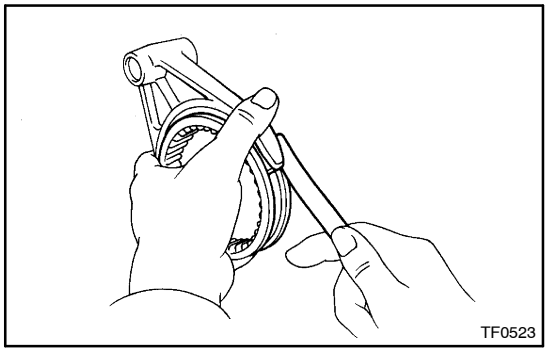
If the clearance exceeds the maximum,replace the drive sprocket rear output shaft or needle roller bearing.



60. INSPECT HIGH AND LOW CLUTCH SLEEVE AND GEAR SHIFT FORK NO.2 CLEARANCE

(a) Using a feeler gauge, measure the clearance between the front drive shift fork and clutch sleeve.
Maximum clearance: 1.0 mm (0.039 in.)

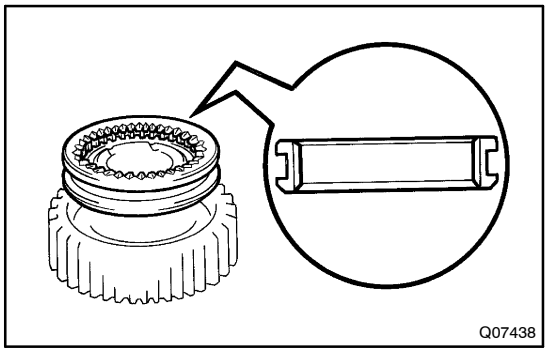
If the clearance exceeds the maximum, replace the shift fork or clutch sleeve.



61. INSPECT FRONT DRIVE CLUTCH SLEEVE AND CTR DIFFERENTIAL LOCK FORK SUB–ASSY CLEARANCE

(a) Using a feeler gauge, measure the clearance between the front drive shift fork and clutch sleeve.
Maximum clearance: 1.0 mm (0.039 in.)

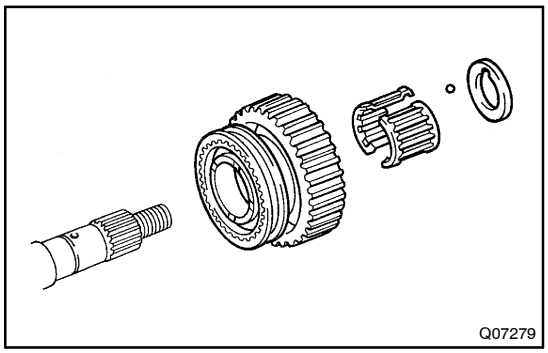
If the clearance exceeds the maximum, replace the shift fork or clutch sleeve.



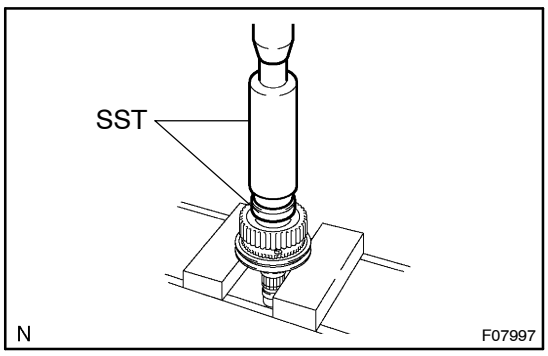
62. INSTALL TRANSFER DRIVE SPROCKET SUB–ASSY

(a) Install the front drive the clutch sleeve onto the drive sprocket.

HINT:
Make sure to install the clutch sleeve in the correct direction.

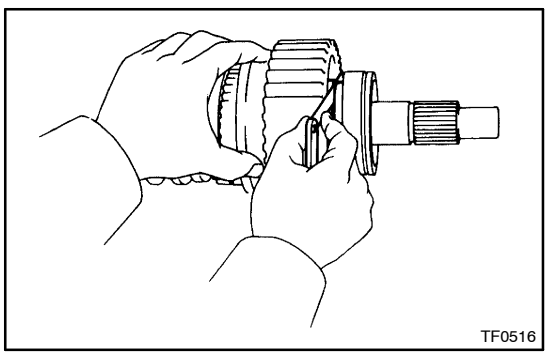


(b) Apply gear oil to the shaft and needle roller bearing.
(c) Install the needle roller bearing in the drive sprocket.
(d) Install the drive sprocket with the front drive clutch sleeve assembly.
(e) Install the spacer to align it with the ball.



63. INSTALL TRANSFER OUTPUT SHAFT REAR RADIAL BALL BEARING

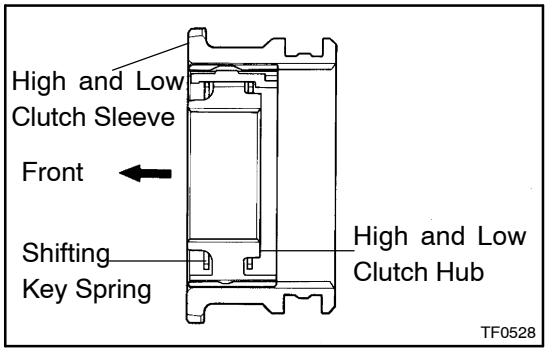
(a) Using SST and a press, install a new bearing with the outer race snap ring groove toward the rear.
SST 09316–60011 (09316–00011, 09316–00071)



64. INSPECT DRIVE SPROCKET THRUST CLEARANCE

(a) Using afeeler gauge, measure the drive sprocket thrust clearance..
Standard clearance:
0.10 – 0.25 mm (0.0039 – 0.0098 in.)
Maximum clearance:
0.25 mm (0.0098 in.)

If the clearance exceeds the maximum, replace the drive sprocket.



65. INSTALL TRANSFER HIGH AND LOW CLUTCH SLEEVE

(a) Install the clutch hub and 3 shifting keys on to the clutch sleeve.

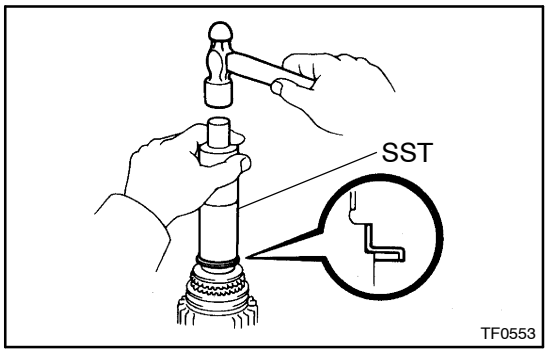
NOTICE:

Make sure that the high and low clutch hub is installed facing in the correct direction.

(b) Install the 2 sfifting key springs under the shifting keys.

NOTICE:

Position the key spring so that their end gaps are not aligned.

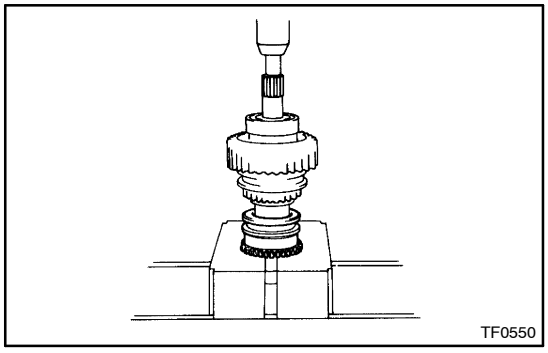


66. INSTALL TRANSFER CLUTCH HUB

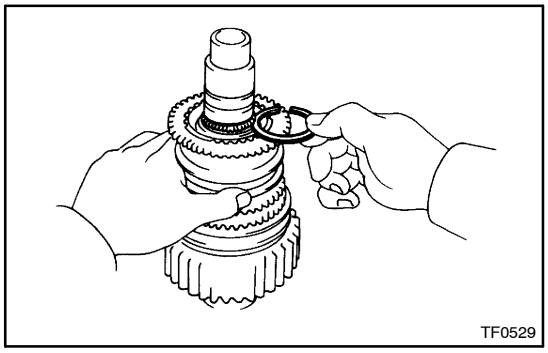
(a) Using SST and a hammer, drive in a new key retainer.
SST 09316–60011 (09316–00011)

NOTICE:

Be careful not deform or damage the key retainer.



(b) Using a prees, install the high and low clutch hub assembly02.

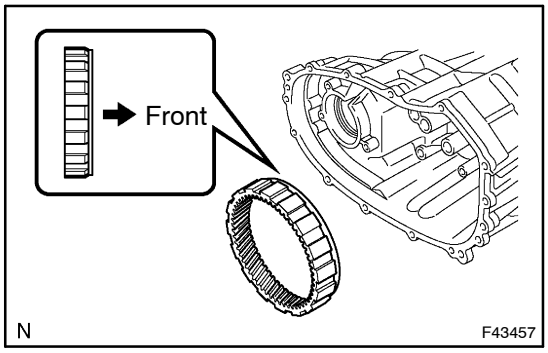


67. INSTALL TRANSFER OUTPUT SHAFT SHAFT SNAP RING

(a) Select a snap ring that allows the minimum axial play and install it to the shaft.

Mark	Thickness mm (in.)
A	2.10 – 2.15 (0.0827 – 0.0846)
B	2.15 – 2.20 (0.0846 – 0.0866)
C	2.20 – 2.25 (0.0866 – 0.0886)
D	2.25 – 2.30 (0.0886 – 0.0906)
E	2.30 – 2.35 (0.0906 – 0.0925)
F	2.35 – 2.40 (0.0925 – 0.0945)
G	2.40 – 2.45 (0.0945 – 0.0965)
H	2.45 – 2.50 (0.0965 – 0.0984)
J	2.50 – 2.55 (0.0984 – 0.1004)

Mark	Thickness mm (in.)
K	2.00 – 2.05 (0.0787 – 0.0807)
L	2.05 – 2.10 (0.0807 – 0.0827)

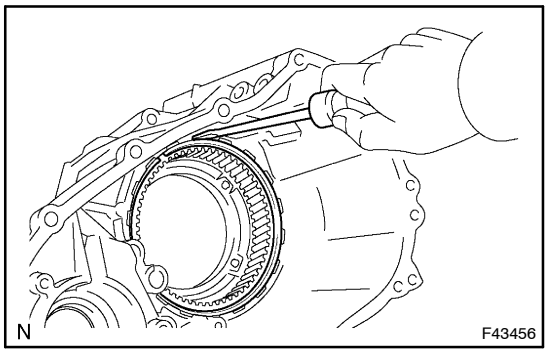


68. INSTALL TRANSFER LOW PLANETARY RING GEAR

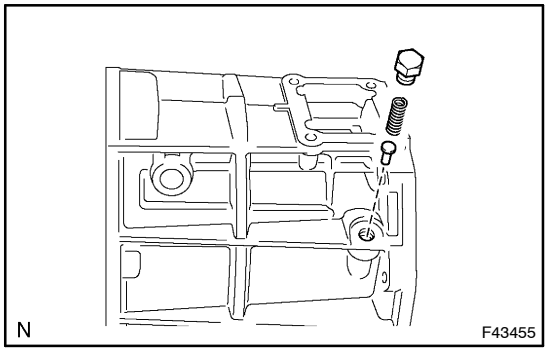
(a) Install the low planetary ring gear to the front case.

NOTICE:

Make sure to install the low planetary ring gear in the correct direction.



(b) Using a screwdriver, install the snap ring.



69. INSTALL PIN

70. INSTALL COMPRESSION SPRING

71. INSTALL TRANSFER CASE PLUG

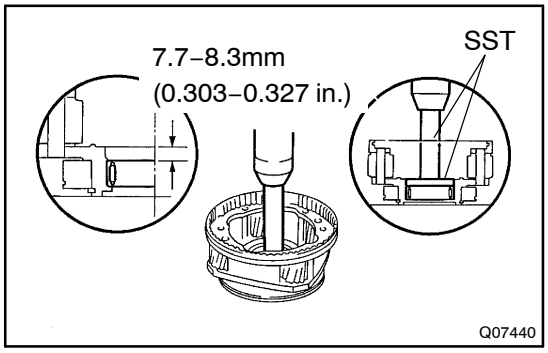
(a) Apply sealant to the transfer case plug threads.

Sealant:

Part No. 08833–00080, THREE BOND 1344, LOCTITE 242 or equivalent

(b) Install the tansfer case plug.

Torque: 19 N·m (190 kgf·cm, 14 ft·lbf)

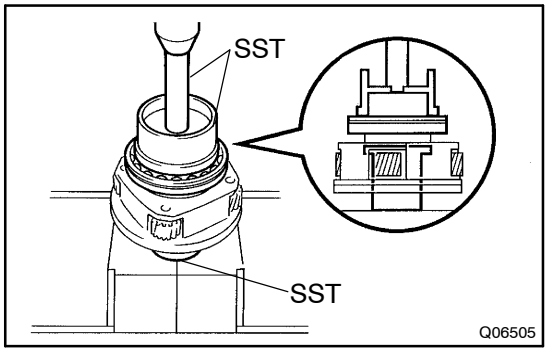


72. INSTALL TRANSFER LOW PLANETARY GEAR BEARING

(a) Using SST and a press, drive in a new bearing.

SST 09950–60010 (09951–00570), 09950–70010 (09951–07100)

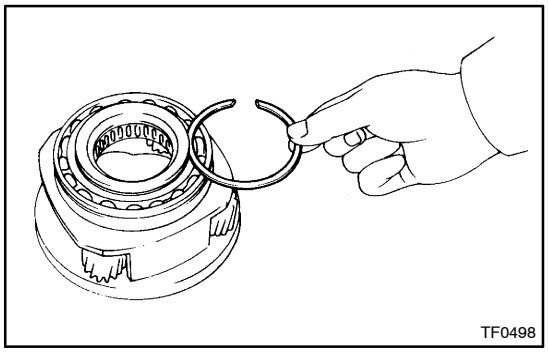
Bearing press in depth: 7.7 – 8.3 mm (0.303 – 0.327 in.)



73. INSTALL TRANSFER INPUT SHAFT BEARING

(a) Using SST and a press, install a new bearing with the groove facing forward.

SST 09223–15020, 09515–30010, 09950–70010 (09951–07100)

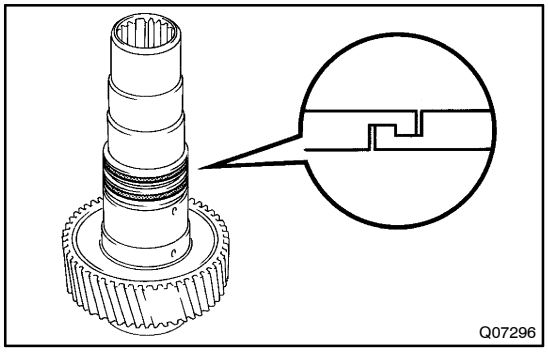


74. INSTALL TRANSFER INPUT BEARING SHAFT SNAP RING

(a) Select a snap ring that allows 0.1 mm (0.0039 in.) or less 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)

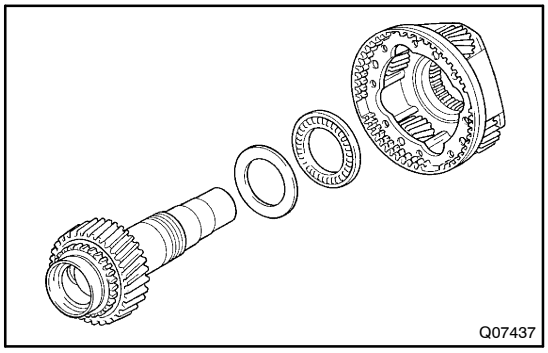
(b) Using a snap ring expander, install a new snap ring.



75. INSTALL TRANSFER INPUT SHAFT SEAL RING NO.1

HINT:

- Apply gear oil to the 2 oil seal rings.
- Engage securely to eliminate clearance as shown in the illustration.



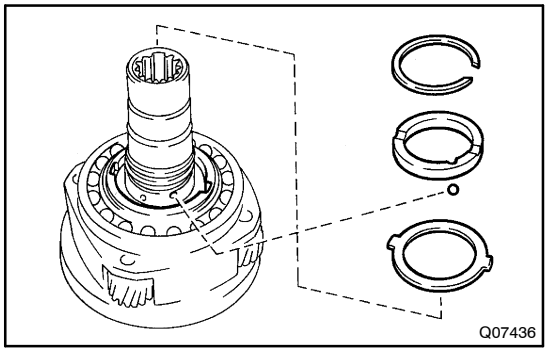
76. INSTALL TRANSFER LOW PLANETARY GEAR BEARING

NOTICE:

Make sure to install the transfer low planetary gear in the correct direction.

77. INSTALL TRANSFER THRUST BEARING RACE NO.1

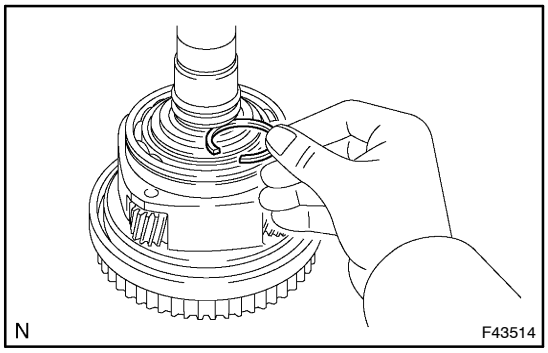
78. INSTALL TRANSFER INPUT SHAFT



79. INSTALL MANUAL TRANSFER PLANETARY CARR WASHER

80. INSTALL TRANSFER INPUT GEAR STOPPER BALL

81. INSTALL TRANSFER INPUT GEAR STOPPER

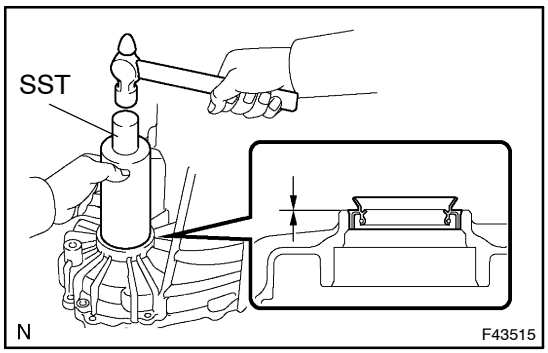


82. INSTALL TRANSFER INPUT GEAR STOPPER SHAFT SNAP RING

(a) Select a input gear stopper snap ring that allows 0.05 – 0.15 mm (0.0020 – 0.0059 in.) axial play.

Mark	Thickness mm (in.)
A	2.10 – 2.15 (0.0827 – 0.0846)
B	2.15 – 2.20 (0.0846 – 0.0866)
C	2.20 – 2.25 (0.0866 – 0.0886)
D	2.25 – 2.30 (0.0886 – 0.0906)
E	2.30 – 2.35 (0.0906 – 0.0925)
F	2.35 – 2.40 (0.0925 – 0.0945)
G	2.40 – 2.45 (0.0945 – 0.0965)
H	2.45 – 2.50 (0.0965 – 0.0984)
J	2.50 – 2.55 (0.0984 – 0.1004)
K	2.55 – 2.60 (0.1004 – 0.1204)
L	2.60 – 2.65 (0.1024 – 0.1043)
M	2.65 – 2.70 (0.1043 – 0.1063)
N	2.70 – 2.75 (0.1063 – 0.1083)
P	2.75 – 2.80 (0.1083 – 0.1102)
Q	2.80 – 2.85 (0.1102 – 0.1122)
R	2.85 – 2.90 (0.1122 – 0.1142)
S	2.90 – 2.95 (0.1142 – 0.1161)
T	2.95 – 3.00 (0.1161 – 0.1181)
U	3.00 – 3.05 (0.1181 – 0.1201)

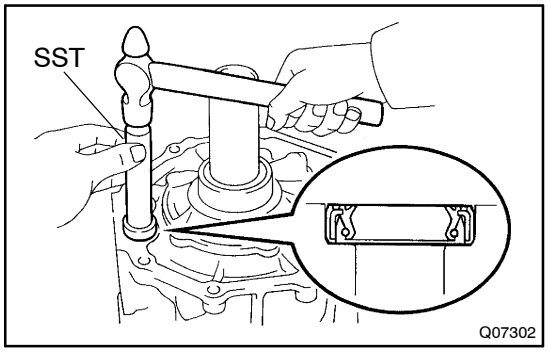
(b) Using a snap ring expander, install a new input gear stopper snap ring.



83. INSTALL TRANSFER CASE OIL SEAL

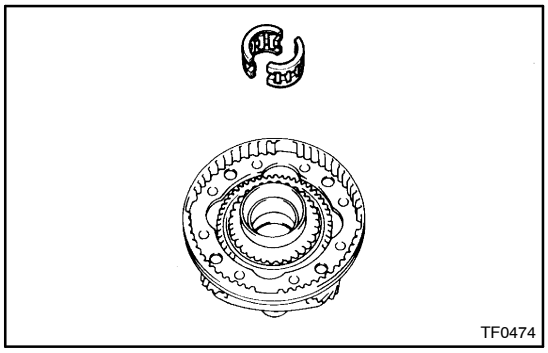
(a) Using SST and a hammer, drive in a new oil seal until its surface is flush with the case upper surface. (No.1)
SST 09316–60011 (09316–00011)

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



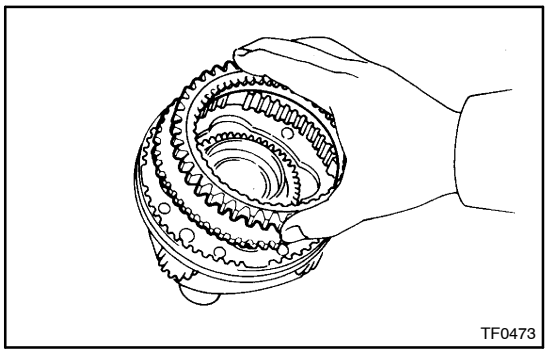
(c) Using SST and a hammer, drive in a new oil seal until its surface is flush with the case upper surface. (No.2)
Oil seal drive in depth:
–0.5 – 0.5 mm (–0.020 – 0.020 in.)

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



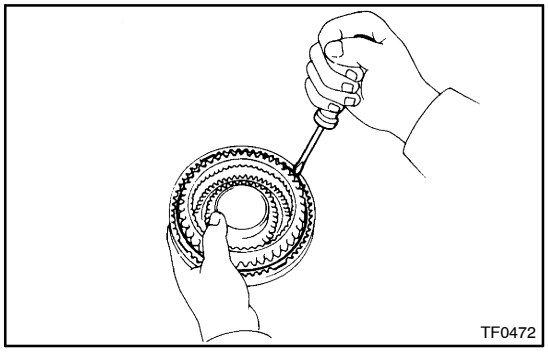
84. INSTALL TRANSFER OUTPUT SHAFT FRONT NEEDLE ROLLER BEARING

SST 09304–12012

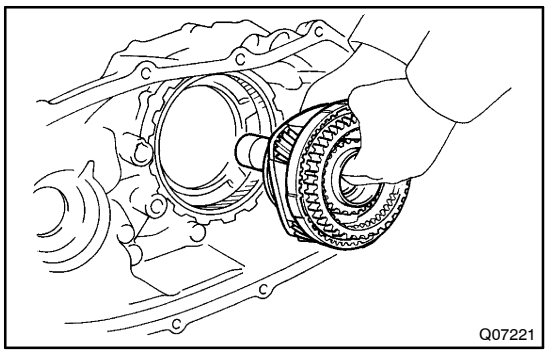


85. INSTALL TRANSFER LOW PLANETARY GEAR SPLINE PIECE

(a) Install the low planetary gear spline piece.



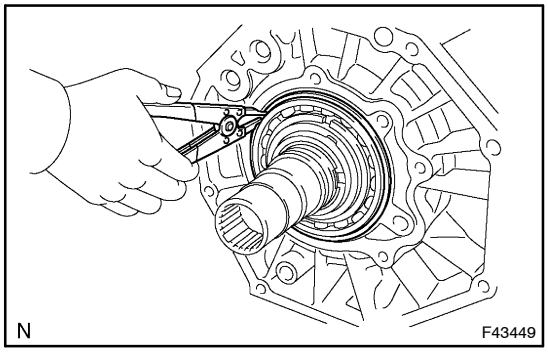
(b) Using a screwdriver, install the spline piece.



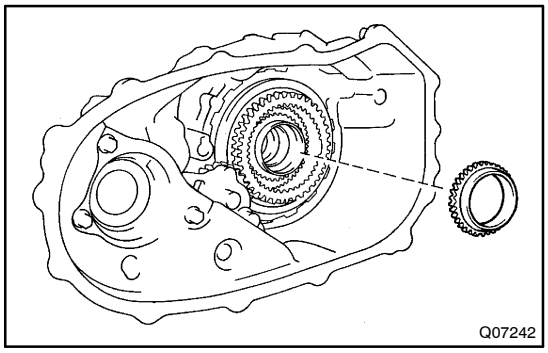
86. INSTALL LOW PLANETARY GEAR ASSY W/INPUT SHAFT SUB–ASSY

(a) Install the low planetary gear assy and input shaft sub–assy.

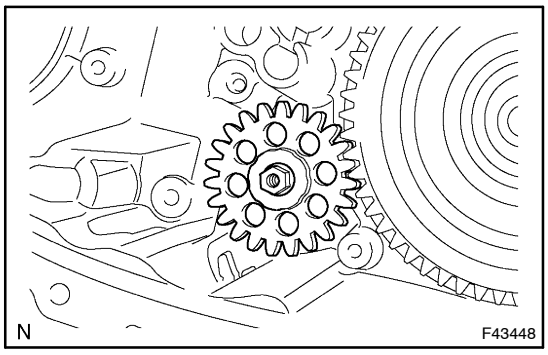
HINT:
If necessary, heat the front case to about 50 – 80°C (122 – 176°F).



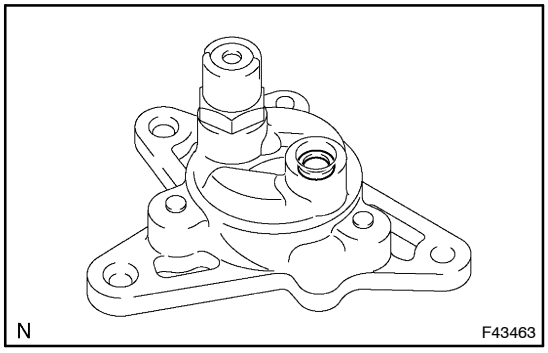
(b) Using a snap ring expander, install the snap ring.



87. INSTALL TRANSFER FRONT DRIVE CLUTCH SYNCHRONIZER RING

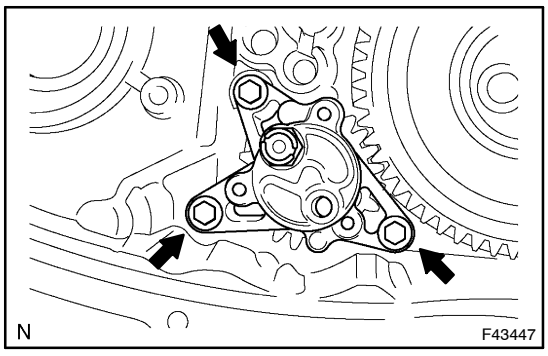


88. INSTALL TRANSFER OIL PUMP GEAR



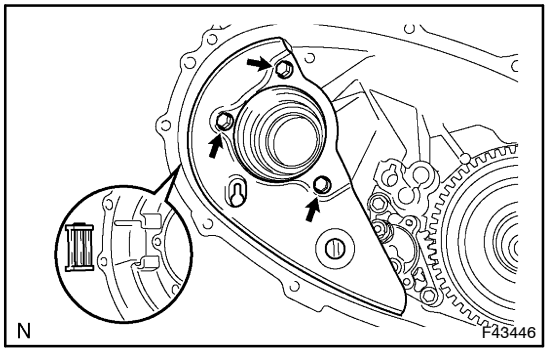
89. INSTALL TRANSFER OIL PUMP BODY O–RING

(a) Coat a new O–ring with gear oil and install it to the oil pump body.



90. INSTALL TRANSFER OIL PUMP BODY SUB–ASSY

(a) Install the oil pump body sub–assy with the 3 bolts.
Torque: 7.5 N·m (76 kgf·cm, 66 in.·lbf)



91. INSTALL TRANSFER CASE MAGNET

92. INSTALL TRANSFER OIL SEPARATOR SUB–ASSY

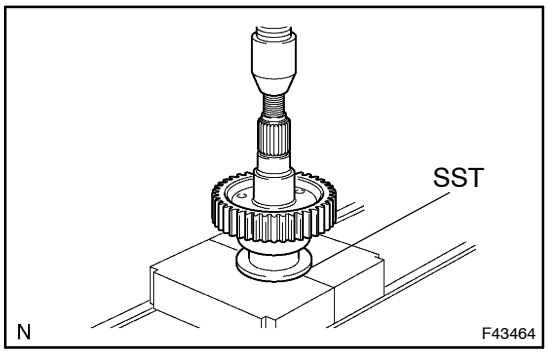
(a) Install the oil separator sub–assy with the 3 bolts.
Torque: 7.5 N·m (76 kgf·cm, 66 in.·lbf)

93. INSTALL TRANSFER CASE NO.1 PLUG

(a) Install the case No.1 plug (filler plug) and a new gasket.
Torque: 37 N·m (377 kgf·cm, 27 ft·lbf)

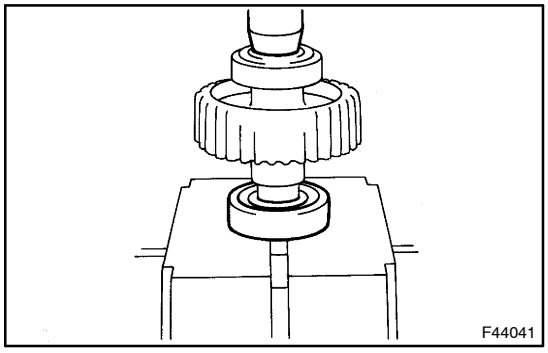
94. INSTALL TRANSFER CASE NO.1 PLUG

(a) Install the case No.1 plug (drain plug) and a new gasket.
Torque: 37 N·m (377 kgf·cm, 27 ft·lbf)



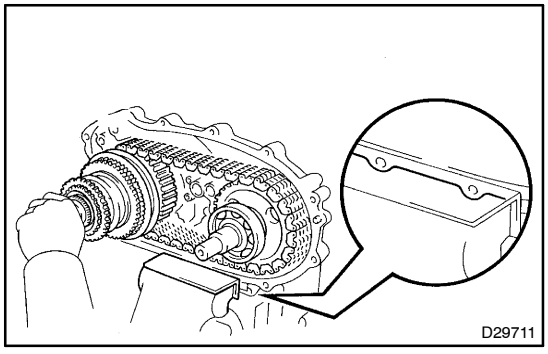
95. INSTALL TRANSFER INPUT GEAR RADIAL BALL BEARING

(a) Using SST and a press, install a new input gear radial ball bearing.
SST 09316–60011 (09316–00031)



96. INSTALL TRANSFER DRIVEN SPROCKET BEARING

(a) Using a press, install a new driven sprocket bearing.

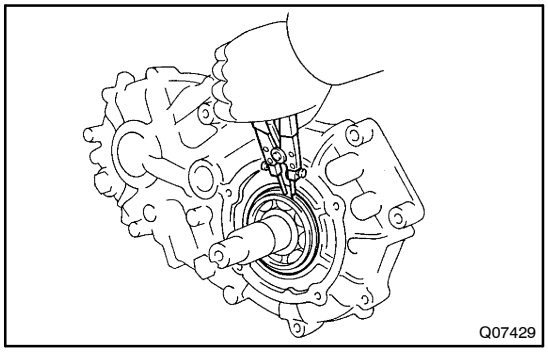


97. INSTALL REAR OUTPUT SHAFT SUB–ASSY, FRONT DRIVE CHAIN AND DRIVEN SPROCKET SUB–ASSY

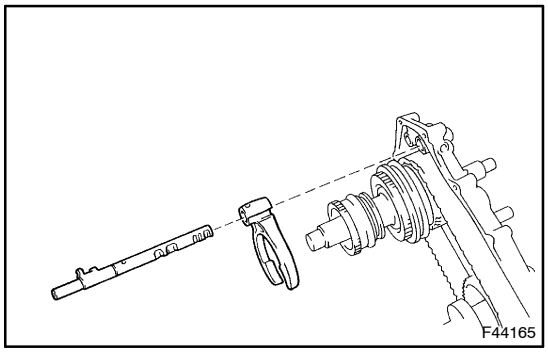
(a) Install the rear output shaft sub–assy and drive sprocket to the front drive chain.

(b) Install the rear output shaft sub–assy, front drive chain and driven sprocket sub–assy to the rear case.

HINT:
Check that the rear output shaft sub–assy and driven sprocket sub–assy turn lightly.
If necessary, that the rear case about 50 – 80°C (122 – 176°F).


Q07429

(c) Using s snap ring expander the snap ring.


F44165

98. INSTALL TRANSFER HIGH AND LOW SHIFT FORK SHAFT

(a) Install the high and low fork sfaft and shift fork.

NOTICE:

Make sure to install the high and low shift fork in the correct direction.

(b) Install the spring and ball to the hole.

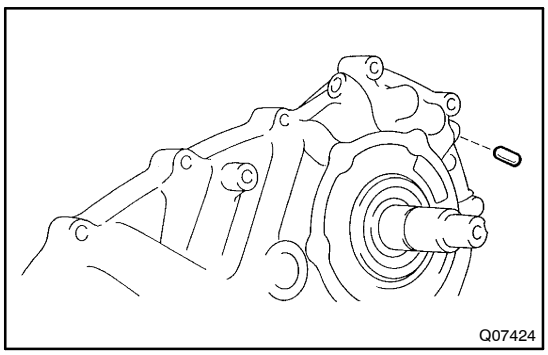
(c) Apply sealant to the plug No.1 threads.

Sealant:

Part No. 08833–00083, THREE BOND 1344, LOCTITE 242 or equivalent

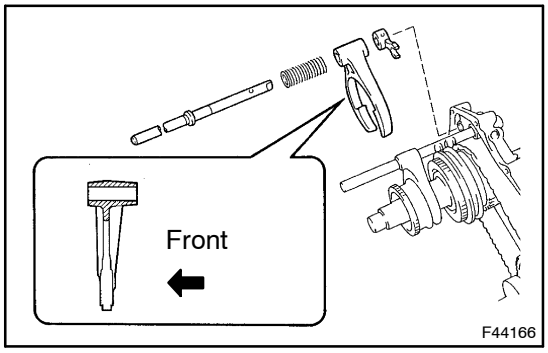
(d) Using a hexagon wrench, install the plug No.1.

Torque: 19 N·m (190 kgf·cm, 14 ft·lbf)


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99. INSTALL TRANSFER FRONT DRIVE SHIFT FORK SHAFT

(a) Install a straight pin to the hole.

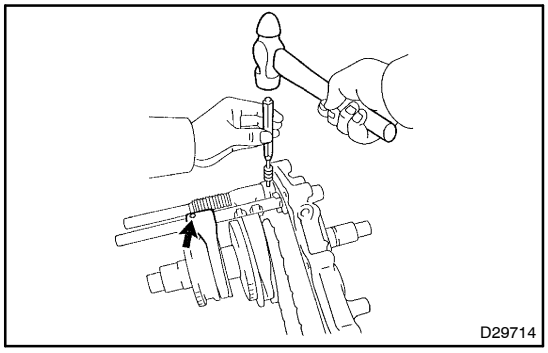


F44166

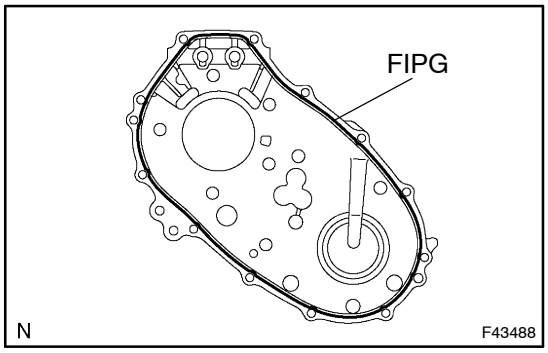
(b) Install the front drive fork shaft, shift fork, spring and stopper.

NOTICE:

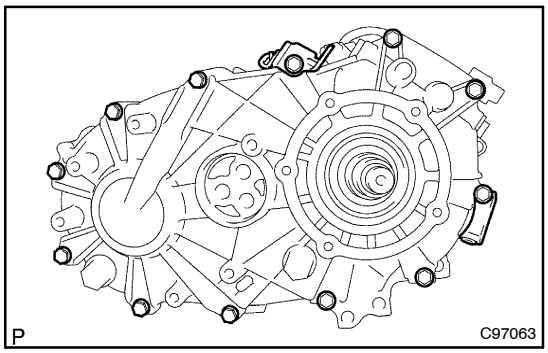
Make sure to install the front drive fork shaft, shift fork, spring and stopper in the correct diection.



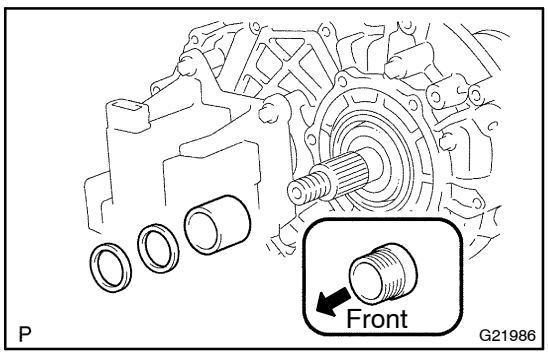
(c) Using a pin punch and hammer, install the 2 slotted pins.
(d) Install the spring and ball to the hole.
(e) Apply sealant to the plug No.2 threads.
Sealant:
Part No. 08833–00083, THREE BOND 1344, LOCTITE 242 or equivalent
(f) Using a hexagon wrench, install the plug No.2.
Torque: 19 N·m (190 kgf·cm, 14 ft·lbf)



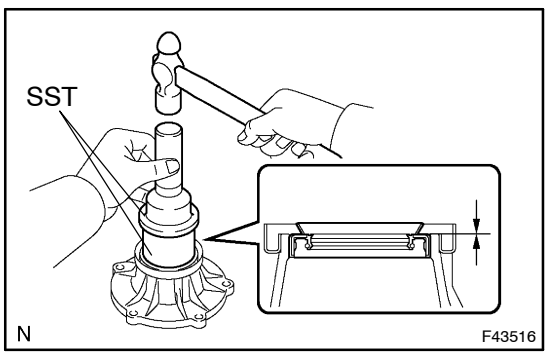
100. INSTALL TRANSFER CASE REAR
(a) Apply FIPG to the case rear, as shown.
FIPG:
Part No. 08826–00090, THREE BOND 1281 or equivalent



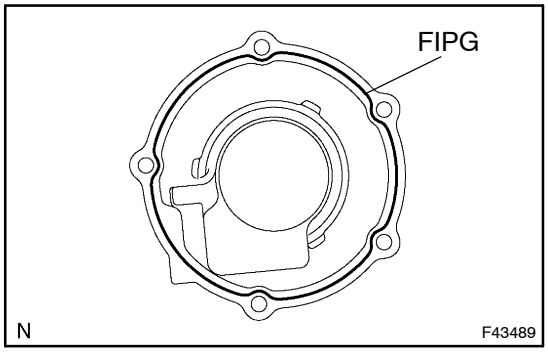
(b) Install the clamp and case rear with the 12 bolts.
Torque: 28 N·m (285 kgf·cm, 21 ft·lbf)



101. INSTALL TRANSFER SPEEDOMETER DRIVE GEAR
(a) Install a speedmeter driven gear.
102. INSTALL TRANSFER OUTPUT WASHER
(a) Install the 2 output washers.



103. INSTALL TRANSFER COVER TYPE T OIL SEAL
(a) Using SST and a hammer, drive in a new oil seal until its surface is flush with the housing upper surface.
SST 09223–46011, 09631–32020
(b) Coat the lip of the oil seal with MP grease.



104. INSTALL EXTENSION HOUSING ASSY

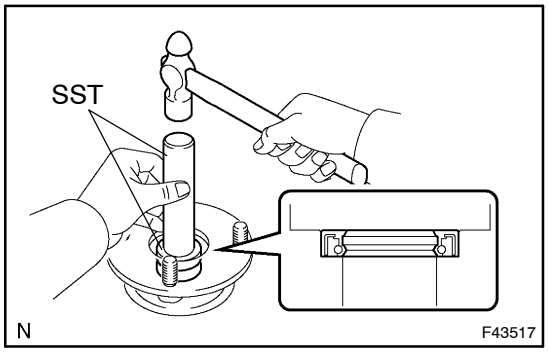
(a) Apply FIPG to the extension housing sub–assy, as shown.
FIPG:
Part No. 08826–00090, THREE BOND 1281 or equivalent

(b) Apply sealant to the bolt threads.
Sealant:
Part No. 08833–00080, THREE BOND 1344, LOCTITE 242 or equivalent

(c) Install the extension housing sub–assy with the 5 bolts.
Torque: 12 N·m (122 kgf·cm, 9 ft·lbf)

105. INSTALL SPEEDOMETER DRIVEN GEAR ASSY W/SENSOR

(a) Install the bolt and speedmeter driven gear w/sensor.

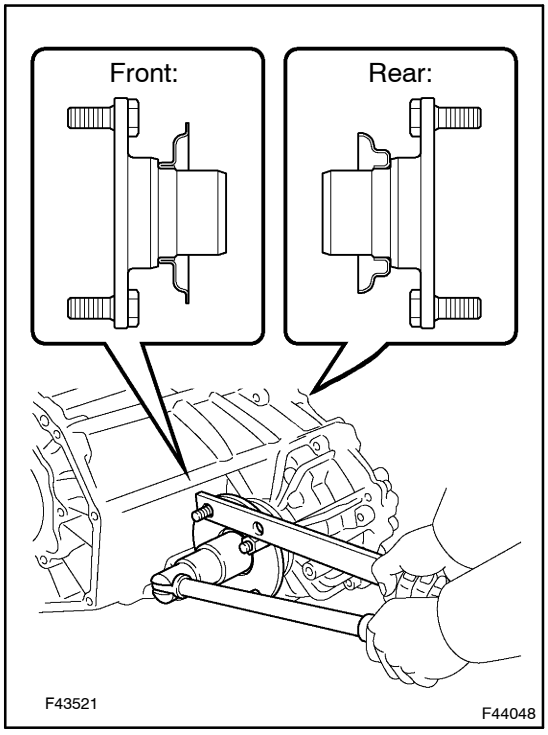


106. INSTALL TRANSFER OUTPUT SHAFT COMPANION FLANGE OIL SEAL

(a) Using SST and a hammer, drive in a new oil seal (front).
SST 09950–60010 (09951–00320), 09950–70010 (09951–07100)

107. INSTALL TRANSFER OUTPUT SHAFT COMPANION FLANGE OIL SEAL

(a) Drive in a new oil seal (rear) in the same way as the oil seal (front).
SST 09950–60010 (09951–00320), 09950–70010 (09951–07100)



108. INSTALL OUTPUT SHAFT COMPANION FLANGE SUB–ASSY

(a) Install the companion flange sub–assy (front) to the drive sprocket sub–assy.

(b) Using SST to hold the companion flange, install a new companion flange lock nut.

Torque: 118 N·m (1,200 kgf·cm, 87 ft·lbf)

(c) Using a chisel and hammer, stake the companion flange lock nut.

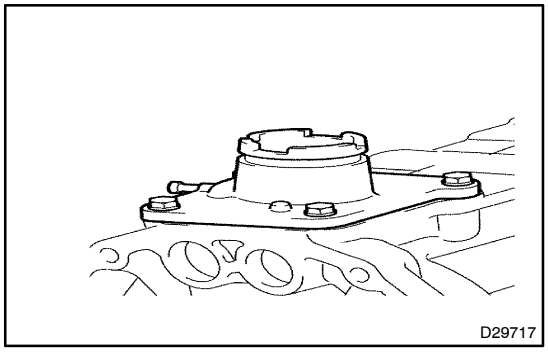
SST 09330–00021, 09950–40011 (09951–04020, 09952–04010, 09953–04030, 09954–04010, 09955–04051, 09957–04010, 09958–04011)

109. INSTALL OUTPUT SHAFT COMPANION FLANGE SUB–ASSY

(a) Using SST, install the companion flange sub–assy (rear) in the same way as the companion flange sub–assy (front).

Torque: 118 N·m (1,200 kgf·cm, 87 ft·lbf)

SST 09330–00021, 09950–40011 (09951–04020, 09952–04010, 09953–04030, 09954–04010, 09955–04051, 09957–04010, 09958–04011)

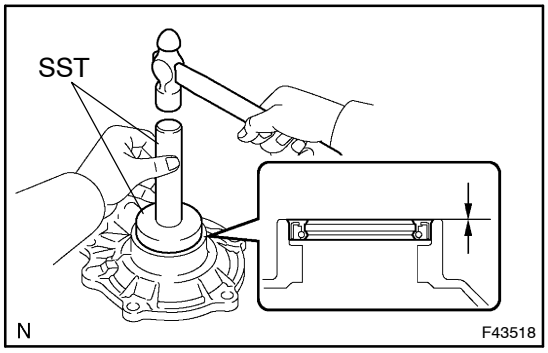


110. INSTALL BREATHER OIL DEFLECTOR SUB–ASSY

111. INSTALL TRANSFER CONTROL SHIFT LEVER RETAINER SUB–ASSY

(a) Install the control shift lever retainer sub–assy with the 4 bolts.

Torque: 18 N·m (184 kgf·cm, 13 ft·lbf)

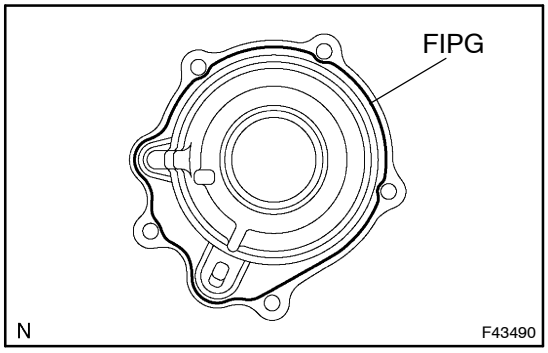


112. INSTALL TRANSFER COVER TYPE T OIL SEAL

(a) Using SST and a hammer, drive in a new oil seal until its surface is flush with the retainer upper surface.

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

SST 09950–60010 (09951–00590), 09950–70010 (09951–07100)

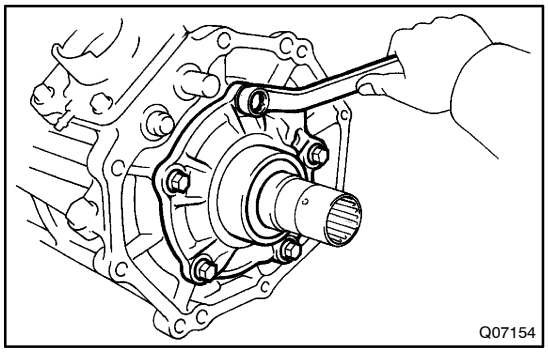


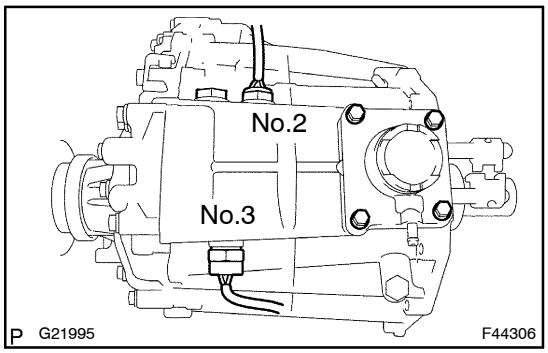
113. INSTALL TRANSFER RH BEARING RETAINER SUB–ASSY

(a) Apply FIPG to the front bearing retainer sub–assy, as shown.
FIPG:
Part No. 08826–00090, THREE BOND 1281 or equivalent

(b) Apply sealant to the bolt thread.
Sealant:
Part No. 08833–00080, THREE BOND 1344, LOCTITE 242 or equivalent

(c) Install the front bearing retainer sub–assy with the 5 bolts.
Torque: 12 N·m (117 kgf·cm, 8 ft·lbf)





114. INSTALL SWITCH

(a) Install the indicator switch.
Torque: 37 N·m (377 kgf·cm, 27 ft·lbf)

115. INSTALL TRANSFER ASSY

(a) Install the transfer to the transmission.

(b) Install the 2 clamps and 8 bolts.
Torque: 24 N·m (240 kgf·cm, 17 ft·lbf)

116. INSTALL MANUAL TRANSMISSION ASSY

(a) 3RZ–FE : (See page 41–22)

(b) 5L–E : (See page 41–4)

117. INSTALL TRANSFER CASE LOWER PROTECTOR

(a) Install the 4 bolts and transfer case lower protector.
Torque: 18 N·m (184 kgf·cm, 13 ft·lbf)

118. ADD TRANSFER OIL (See page 31–3)