

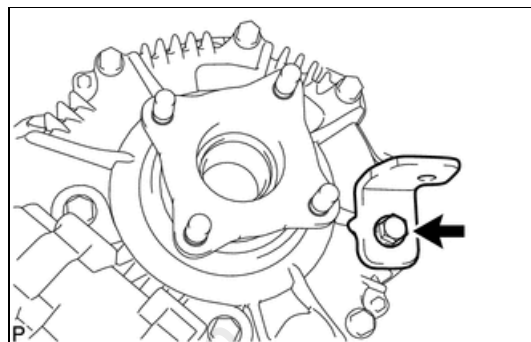
Last Modified: 12-21-2017	6.8:8.0.48	Doc ID: RM100000000T30V
Model Year Start: 2016	Model: LX570	Prod Date Range: [09/2015 -]
Title: JF2A TRANSFER / 4WD / AWD: TRANSFER ASSEMBLY: DISASSEMBLY; 2016 - 2018 MY LX570 [09/2015 -]		

DISASSEMBLY

PROCEDURE

1. REMOVE PROPELLER SHAFT HEAT INSULATOR BRACKET SUB-ASSEMBLY

- (a) Remove the bolt and bracket.

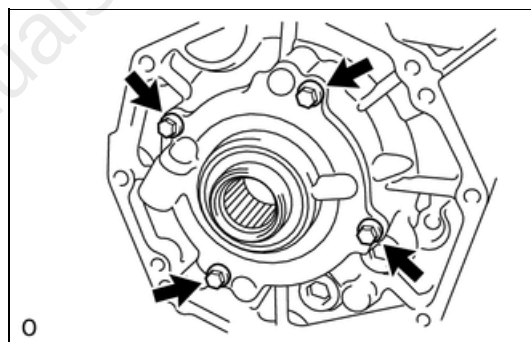


2. REMOVE TRANSFER OIL PUMP PLATE

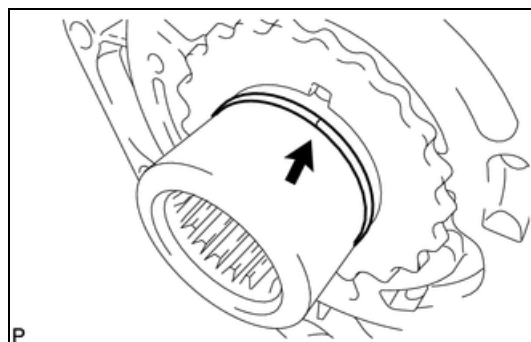
- (a) Remove the 4 bolts, oil pump plate and oil pump driven rotor.

NOTICE:

Do not drop the oil pump driven rotor.



- (b) Remove the O-ring from the oil pump plate.

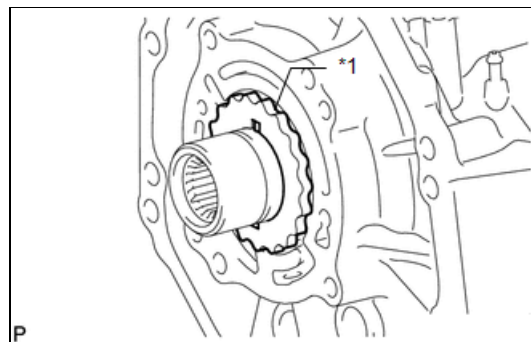


- (c) Remove the transfer oil seal ring from the input shaft.

- (d) Remove the oil pump drive rotor from the input shaft.

Text in Illustration

*1	Oil Pump Drive Rotor
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3. REMOVE TRANSFER CASE STRAIGHT PIN

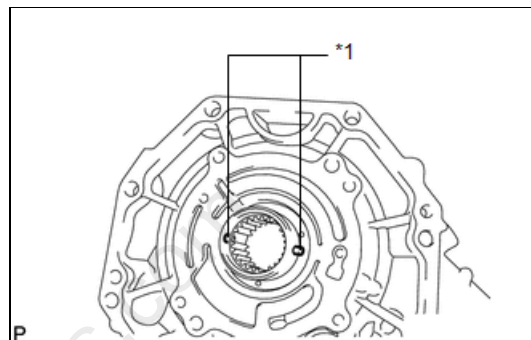
- (a) Remove the 2 straight pins.

Text in Illustration

*1	Transfer Case Straight Pin
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NOTICE:

Do not drop the straight pins.

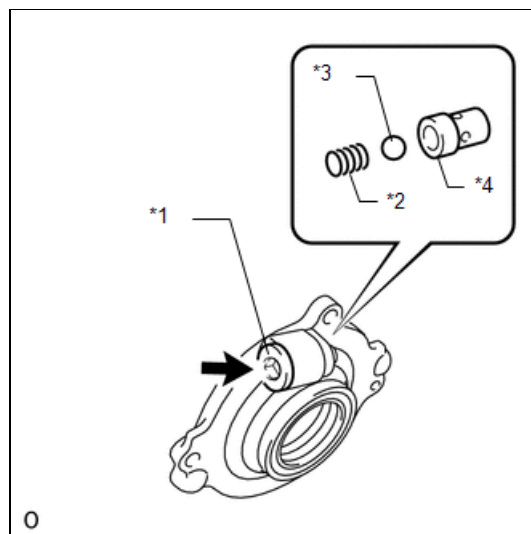


4. REMOVE TRANSFER CASE PLUG

- (a) Using a 10 mm hexagon wrench, remove the transfer case plug, compression spring, ball and relief valve seat.

Text in Illustration

*1	Transfer Case Plug
*2	Compression Spring
*3	Ball
*4	Relief Valve Seat



5. REMOVE TRANSFER OIL PUMP PLATE OIL SEAL

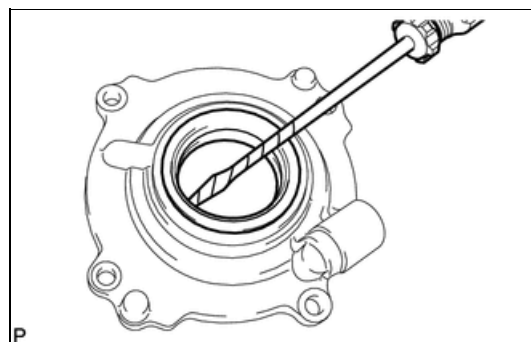
- (a) Using a screwdriver, pry out the oil seal from the oil pump plate.

NOTICE:

Be careful not to damage the oil seal and oil pump plate contact surfaces.

HINT:

Tape the screwdriver tip before use.



6. REMOVE FRONT OUTPUT SHAFT COMPANION FLANGE SUB-ASSEMBLY

(a) Using SST and a hammer, release the staked part of the companion flange lock nut.

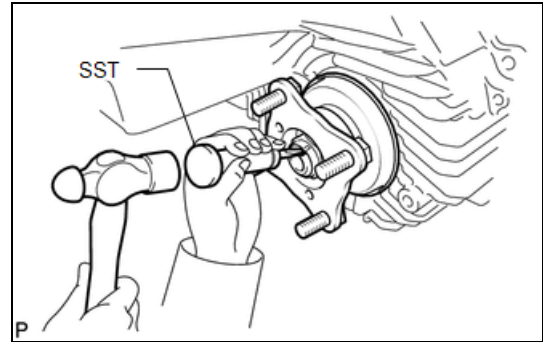
SST: 09930-00010

09931-00010

09931-00020

NOTICE:

- Be sure to use SST with the tapered surface facing the driven sprocket shaft.
- Do not grind the tip of SST with a grinder, etc.
- Completely loosen the staked part of the companion flange lock nut when removing it.
- Do not damage the threads of the driven sprocket.

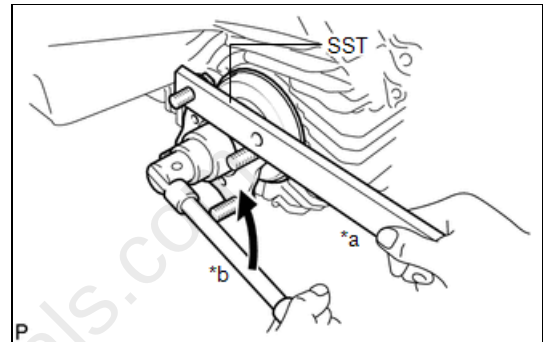


(b) Using SST to hold the front output shaft companion flange sub-assembly, remove the companion flange lock nut.

SST: 09330-00021

Text in Illustration

*a	Hold
*b	Turn



(c) Using SST, remove the front output shaft companion flange sub-assembly.

SST: 09950-40011

09951-04020

09952-04010

09953-04030

09954-04010

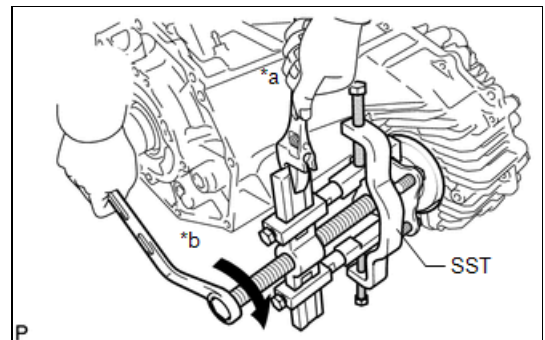
09955-04051

09957-04010

09958-04011

Text in Illustration

*a	Hold
*b	Turn



(d) Remove the O-ring from the front output shaft companion flange sub-assembly.

7. REMOVE TRANSFER OUTPUT SHAFT DUST DEFLECTOR

(a) Using SST and a press, remove the transfer output shaft dust deflector.

SST: 09950-00020

SST: 09950-60010

09951-00340

09951-00470

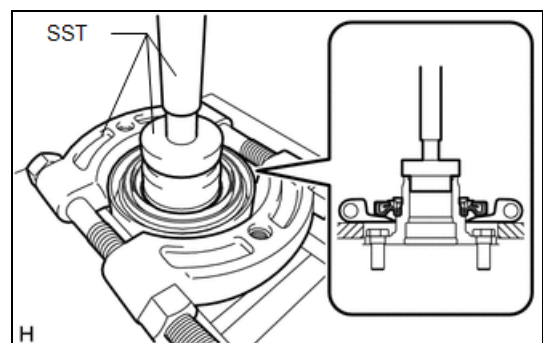
09952-06010

SST: 09950-70010

09951-07100

NOTICE:

Do not drop the front output shaft companion flange sub-assembly.



8. REMOVE FRONT TRANSFER CASE OIL SEAL

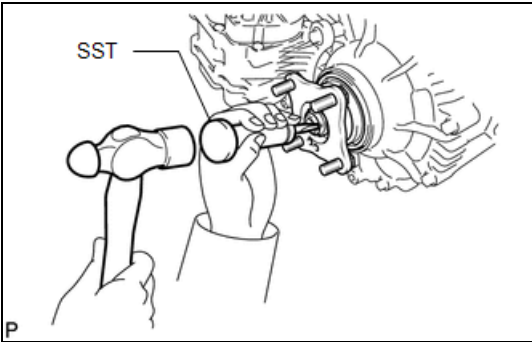
9. REMOVE REAR OUTPUT SHAFT COMPANION FLANGE SUB-ASSEMBLY

(a) Using SST and a hammer, release the staked part of the nut.

SST: 09930-00010
09931-00010
09931-00020

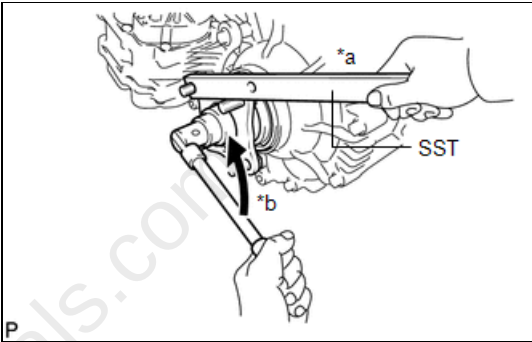
NOTICE:

- Be sure to use SST with the tapered surface facing the shaft.
- Do not grind the tip of SST with a grinder, etc.
- Completely loosen the staked part of the nut when removing it.
- Do not damage the threads of the rear transfer output shaft.



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

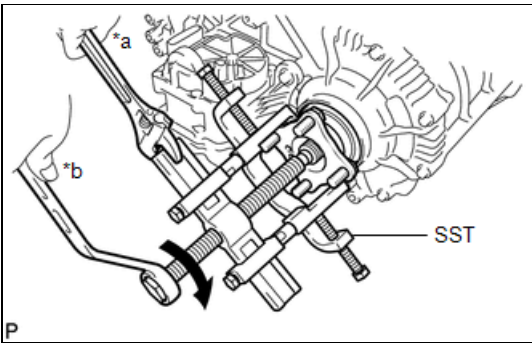
SST: 09330-00021
Text in Illustration



(c) Using SST, remove the companion flange.

SST: 09950-40011
09951-04020
09952-04010
09953-04030
09954-04010
09955-04051
09957-04010
09958-04011

Text in Illustration



(d) Remove the O-ring from the companion flange.

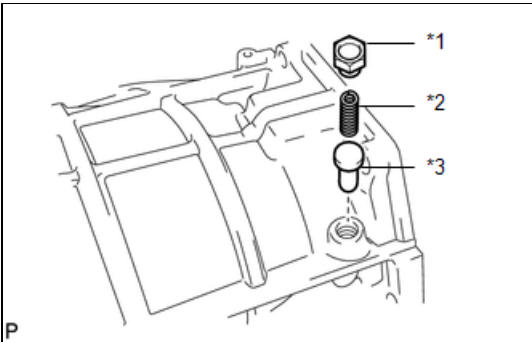
10. REMOVE TRANSFER CASE REAR OIL SEAL

INFO

11. REMOVE NO. 1 TRANSFER CASE PLUG

(a) Remove the No. 1 transfer case plug, compression spring and pin.

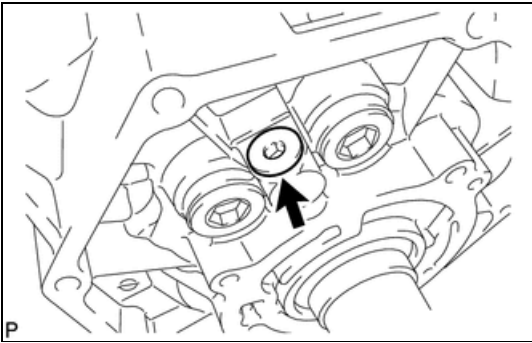
Text in Illustration



*1	No. 1 Transfer Case Plug
*2	Compression Spring
*3	Pin

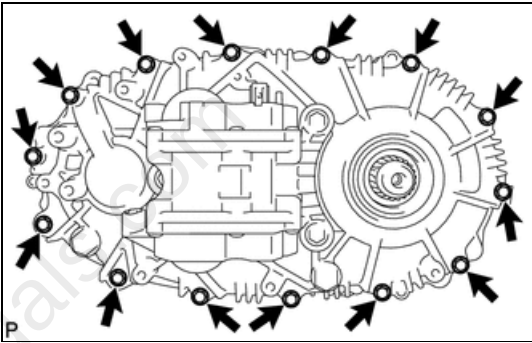
12. REMOVE TRANSFER CASE PLUG

(a) Using a 6 mm hexagon wrench, remove the plug.



13. REMOVE REAR TRANSFER CASE ASSEMBLY

(a) Remove the 14 bolts.



(b) Remove the rear transfer case.

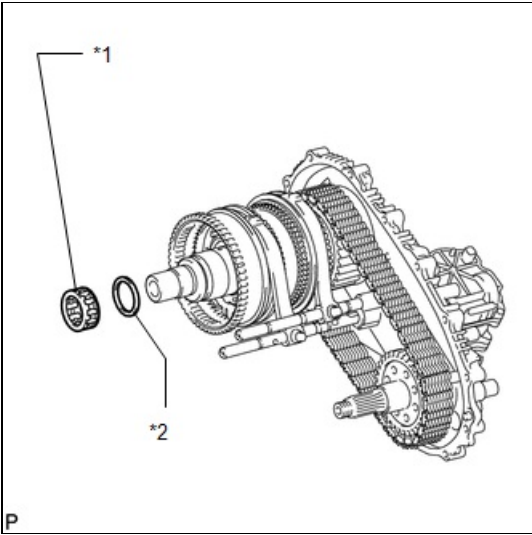
HINT:
If necessary, tap the rear transfer case with a plastic-faced hammer to remove it.

14. REMOVE FRONT TRANSFER OUTPUT SHAFT NEEDLE ROLLER BEARING

(a) Remove the front transfer output shaft needle roller bearing and spacer from the output shaft.

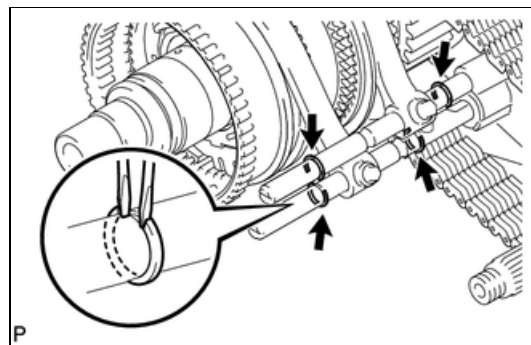
Text in Illustration

*1	Front Transfer Output Shaft Needle Roller Bearing
*2	Spacer

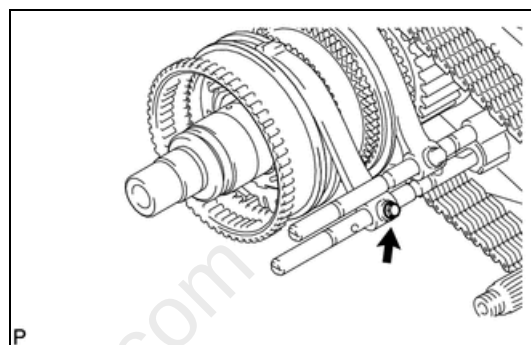


15. REMOVE NO. 2 TRANSFER GEAR SHIFT FORK

(a) Using 2 screwdrivers and a hammer, tap off the 4 shift fork shaft snap rings.

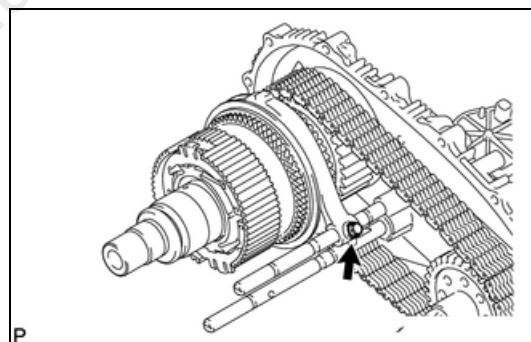


(b) Remove the bolt. Then remove the No. 2 gear shift fork together with the high and low clutch sleeve from the shift actuator.

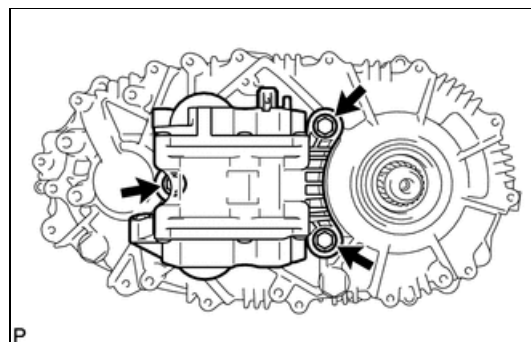


16. REMOVE TRANSFER SHIFT ACTUATOR ASSEMBLY

(a) Remove the No. 1 gear shift fork bolt.



(b) Remove the 3 bolts.



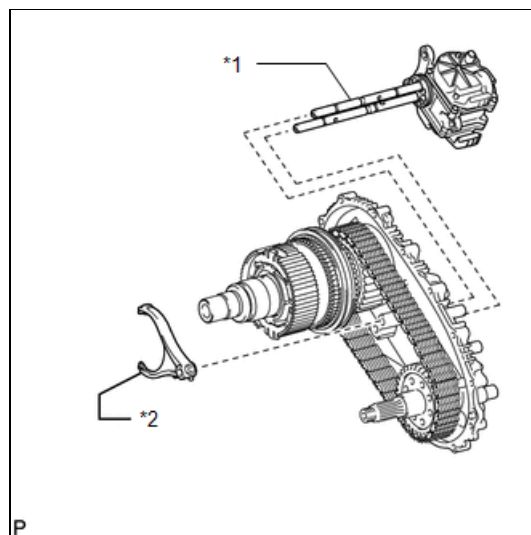
(c) Remove the transfer shift actuator assembly and No. 1 transfer gear shift fork from the rear transfer case.

NOTICE:

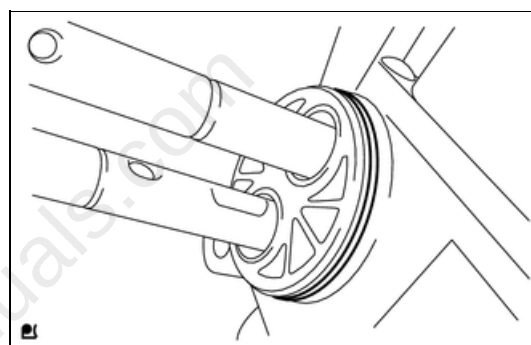
Take care not to drop the No. 1 transfer gear shift fork.

Text in Illustration

*1	Transfer Shift Actuator Assembly
*2	No. 1 Transfer Gear Shift Fork

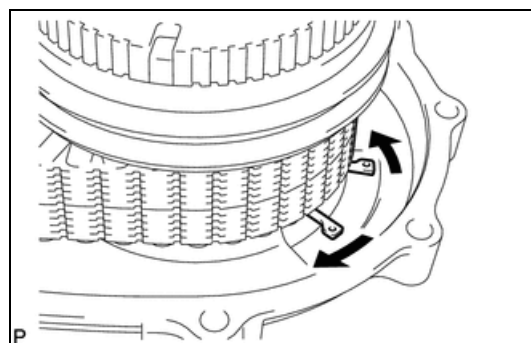


(d) Remove the O-ring from the transfer shift actuator assembly.

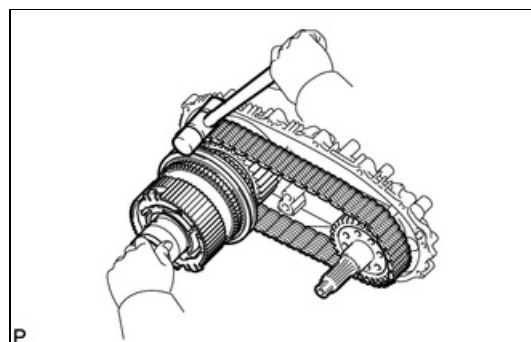


17. REMOVE REAR TRANSFER OUTPUT SHAFT ASSEMBLY

(a) Using a snap ring expander, expand the snap ring as shown in the illustration.



(b) Using a plastic-faced hammer, carefully tap the rear transfer case, and remove the output shaft together with the drive chain and driven sprocket.



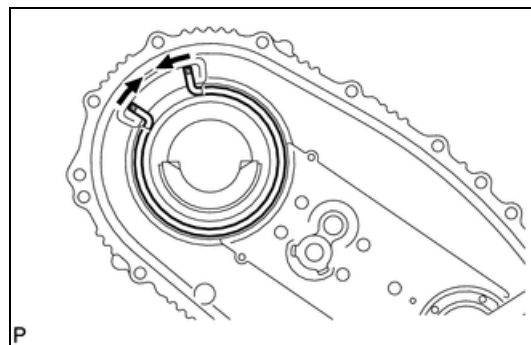
(c) Remove the output shaft and driven sprocket from the drive chain.

NOTICE:

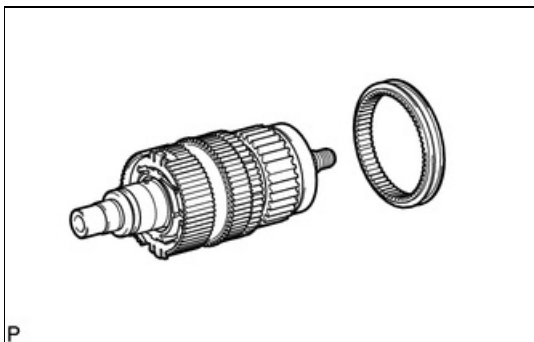
Do not drop the output shaft.

Do not drop the output shaft washers.

- (d) Using a snap ring expander, remove the snap ring from the rear transfer case.



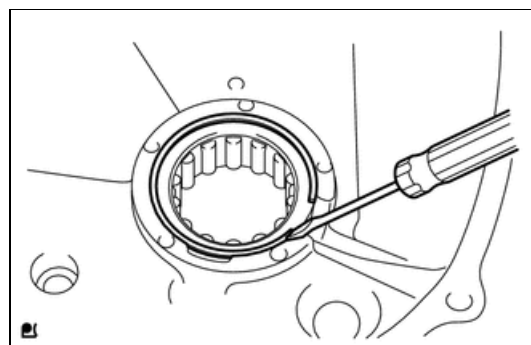
18. REMOVE FRONT DRIVE CLUTCH SLEEVE



- (a) Remove the clutch sleeve from the output shaft.

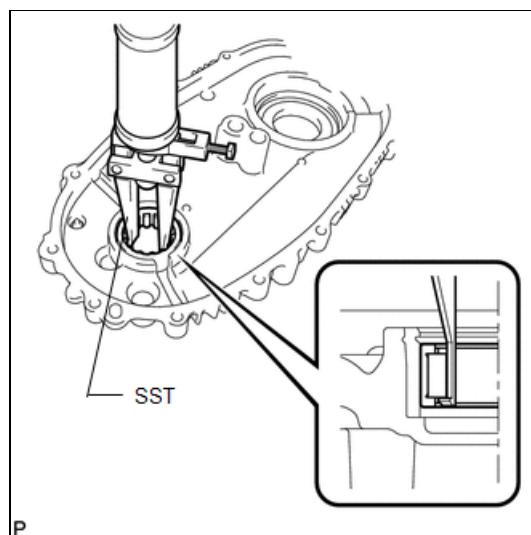
19. REMOVE SIDE GEAR SHAFT HOLDER BEARING

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



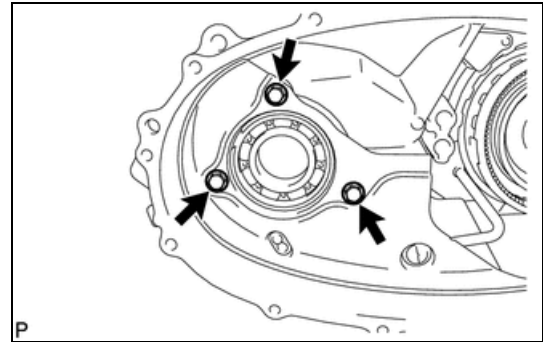
- (b) Using SST, remove the bearing.

SST: 09308-00010



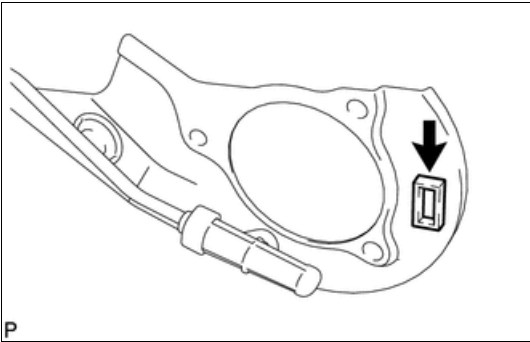
20. REMOVE TRANSFER OIL SEPARATOR SUB-ASSEMBLY

- (a) Remove the 3 bolts and oil separator.



- (b) Remove the O-ring from the oil separator.

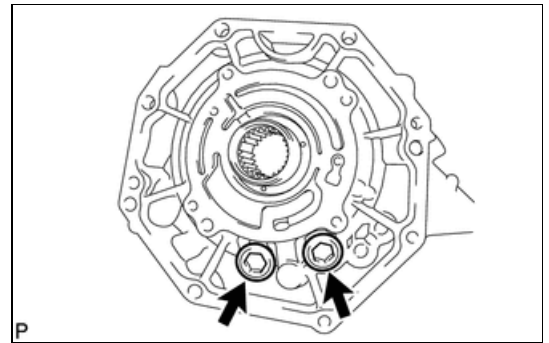
21. REMOVE TRANSFER CASE MAGNET



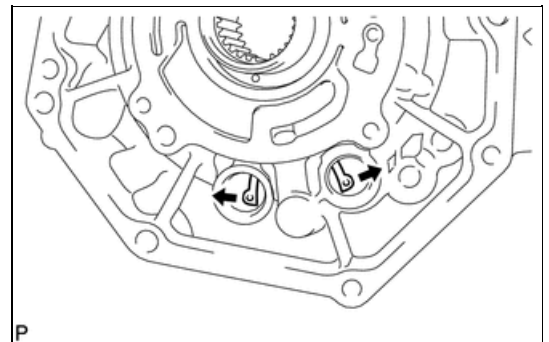
- (a) Remove the magnet from the oil separator.

22. REMOVE TRANSFER INPUT SHAFT ASSEMBLY

- (a) Using a 14 mm hexagon wrench, remove the 2 case plugs from the front transfer case.

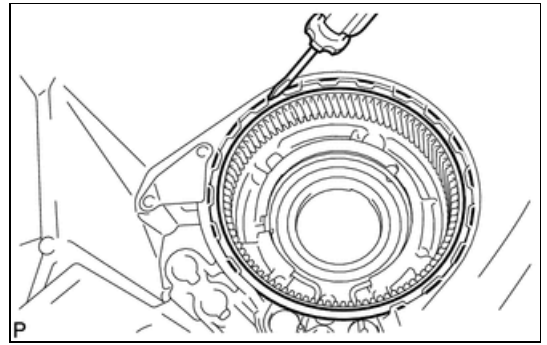


- (b) Using a snap ring expander, expand the snap ring as shown in the illustration. Then remove the input shaft from the front transfer case.

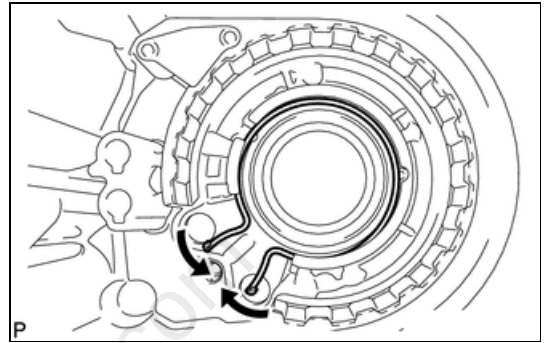


23. REMOVE TRANSFER LOW PLANETARY RING GEAR

- (a) Using a screwdriver, remove the snap ring. Then remove the low planetary ring gear from the front transfer case.

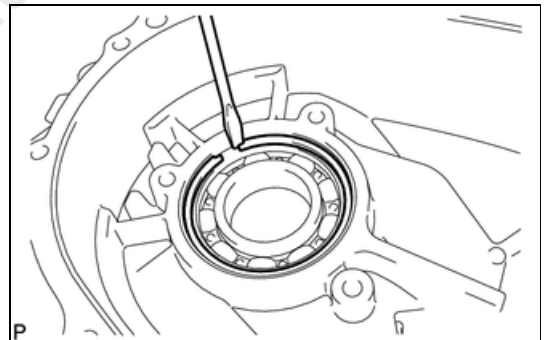


- (b) Using a snap ring expander, remove the snap ring from the front transfer case.



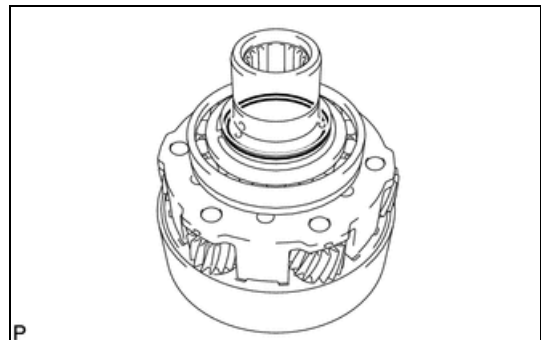
24. REMOVE TRANSFER DRIVEN SPROCKET BEARING

- (a) Using a screwdriver, remove the snap ring. Then remove the bearing from the front transfer case.



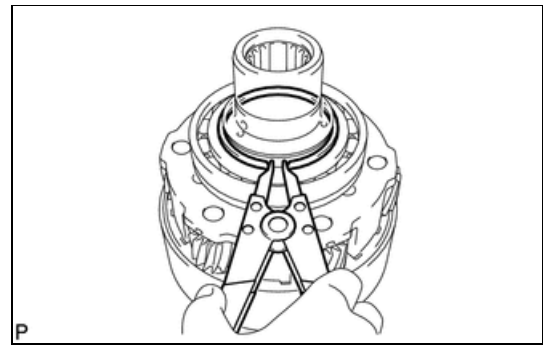
25. REMOVE NO. 1 TRANSFER INPUT SHAFT SEAL RING

- (a) Remove the seal ring from the input shaft.



26. REMOVE TRANSFER INPUT SHAFT BEARING

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



(b) Using SST and a press, press out the bearing.

SST: 09555-55010

SST: 09950-60010

09951-00490

SST: 09950-70010

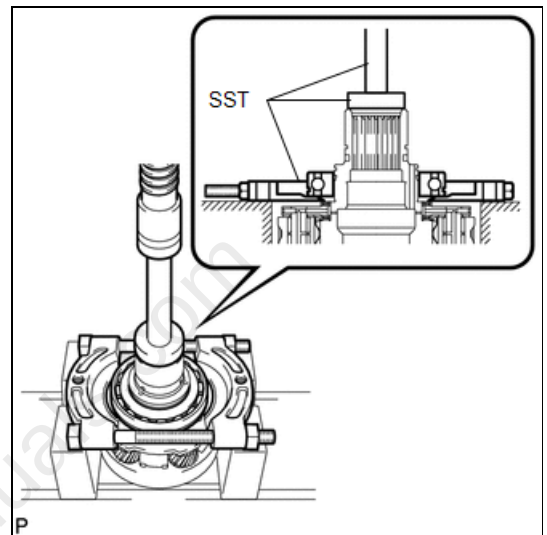
09951-07100

NOTICE:

Be careful not to drop or damage the input shaft, low planetary gear and low planetary gear bearings.

HINT:

When the bearing is removed, the input shaft, low planetary gear, and 2 low planetary gear bearings will come off.



27. REMOVE TRANSFER INPUT SHAFT BIMETAL FORMED BUSH

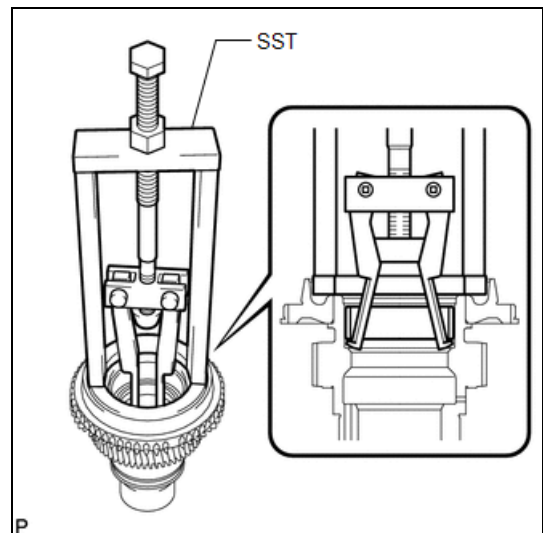
(a) Using SST, remove the bush.

SST: 09387-00041

09387-01021

09387-01030

09387-01040



28. REMOVE TRANSFER INPUT SHAFT PLUG

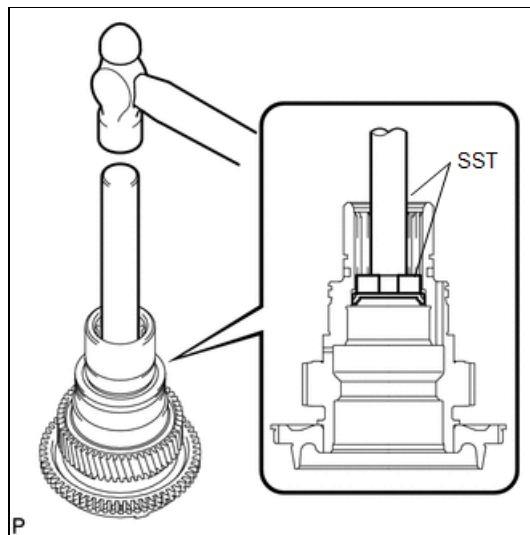
(a) Using SST and a hammer, tap out the input shaft plug.

SST: 09950-70010

09951-07150

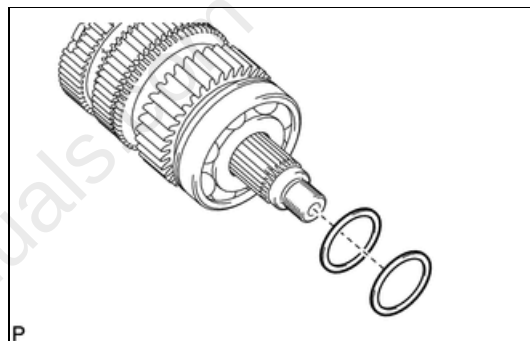
SST: 09950-60010

09951-00300



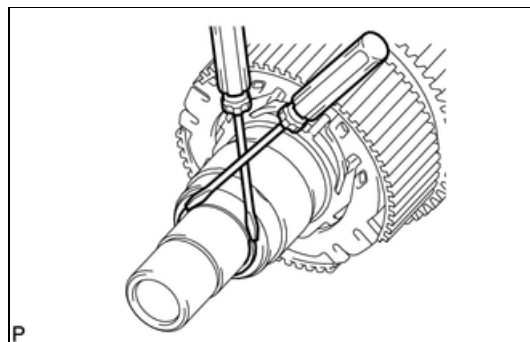
29. REMOVE TRANSFER OUTPUT SHAFT WASHER

(a) Remove the 2 output shaft washers from the output shaft.

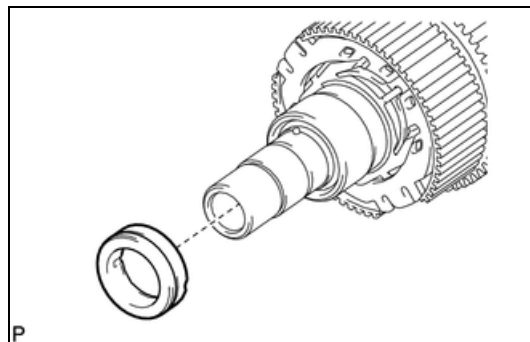


30. REMOVE NO. 1 TRANSFER OUTPUT SHAFT SPACER

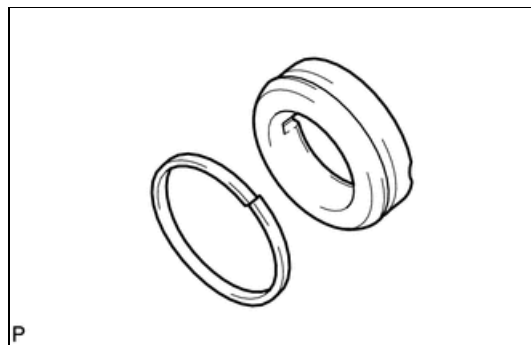
(a) Using 2 screwdrivers and a hammer, tap off the snap ring.



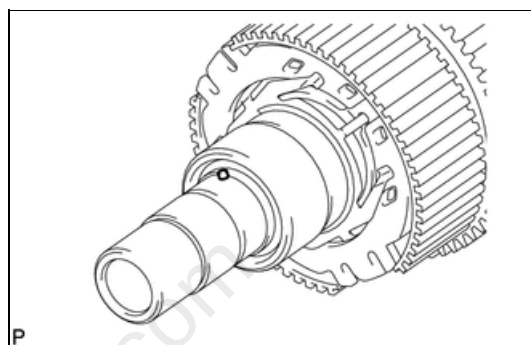
(b) Remove the output shaft spacer from the output shaft.



(c) Remove the seal ring from the output shaft spacer.

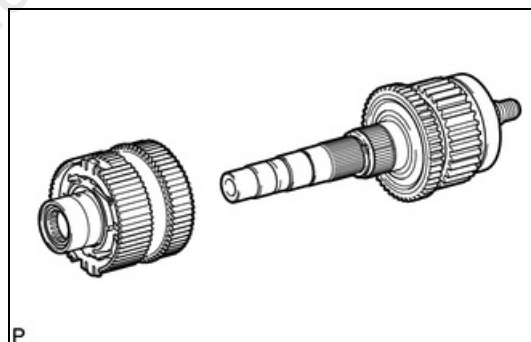


(d) Remove the straight pin from the output shaft.



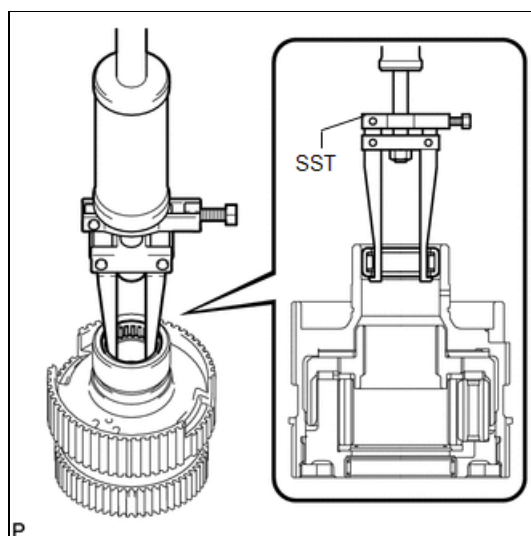
31. REMOVE CENTER DIFFERENTIAL CASE

(a) Remove the center differential case from the output shaft.



(b) Using SST, remove the needle roller bearing.

SST: 09308-00010



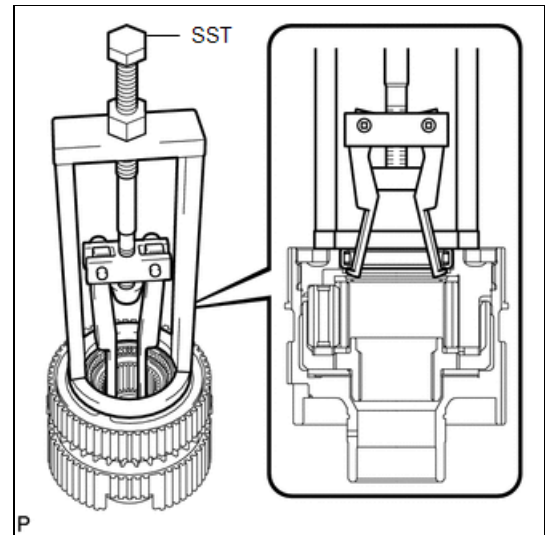
(c) Using SST, remove the needle roller bearing.

SST: 09387-00041

09387-01021

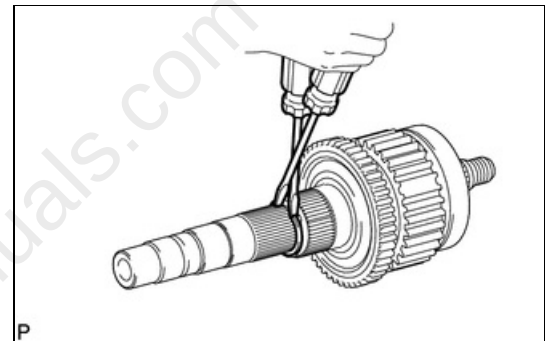
09387-01030

09387-01040

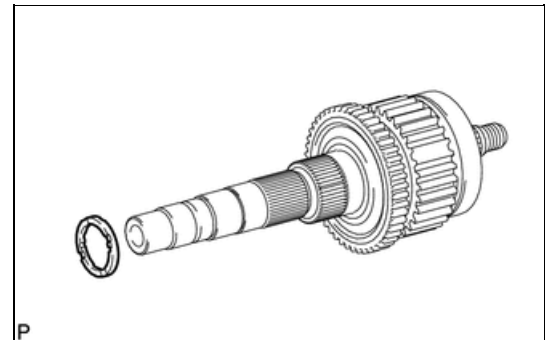


32. REMOVE TRANSFER OUTPUT SHAFT SPACER

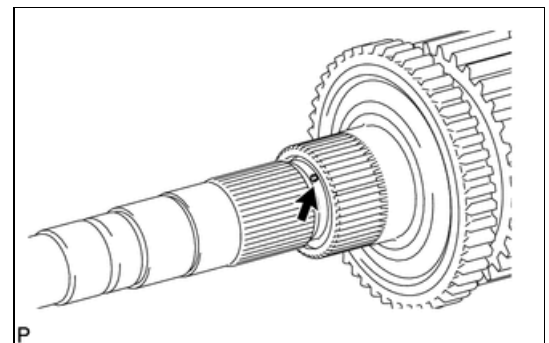
(a) Using 2 screwdrivers and a hammer, tap off the snap ring.



(b) Remove the output shaft spacer from the output shaft.

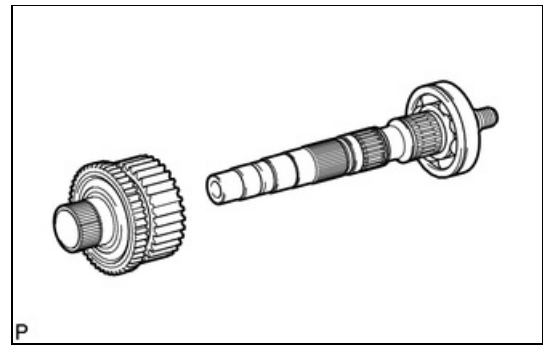


(c) Remove the straight pin from the output shaft.



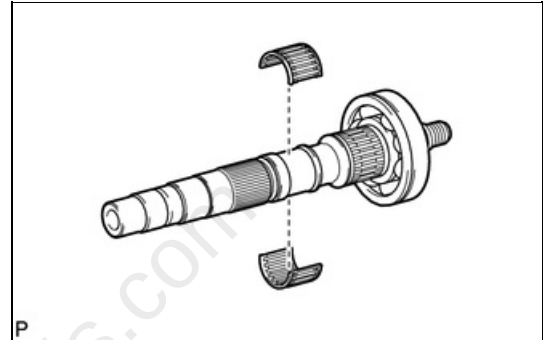
33. REMOVE TRANSFER DRIVE SPROCKET SUB-ASSEMBLY

(a) Remove the drive sprocket from the output shaft.



34. REMOVE TRANSFER DRIVE SPROCKET BEARING

(a) Remove the bearing from the output shaft.



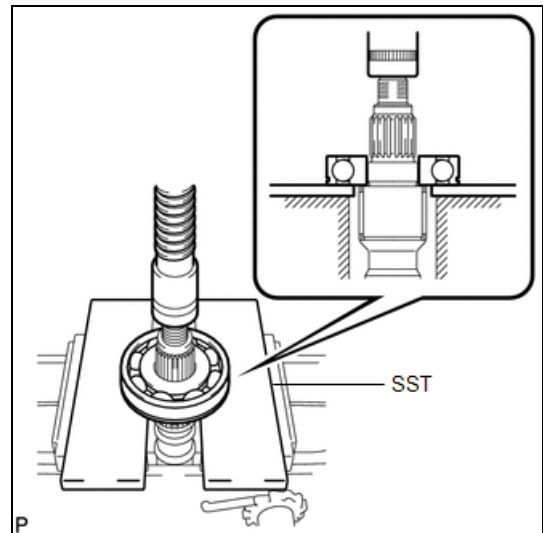
35. REMOVE REAR TRANSFER OUTPUT SHAFT

(a) Using SST and a press, press out the bearing.

SST: 09527-10011

NOTICE:

Be careful not to drop or damage the output shaft.



(b) Remove the needle roller bearing from the output shaft.

