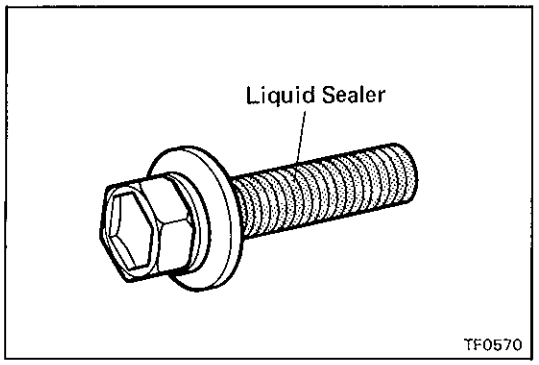


ASSEMBLY OF TRANSFER

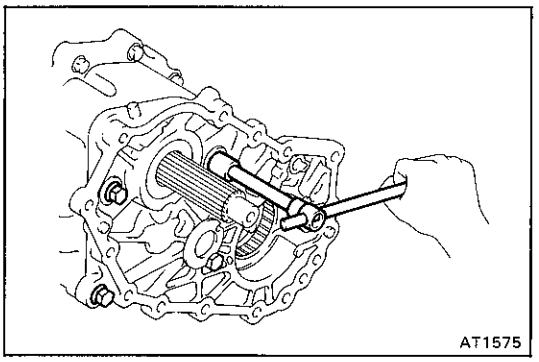
(See page TF-4)

1. INSTALL TRANSFER FRONT CASE

(a) Clean the threads of the bolts and case with cleaning solvent.

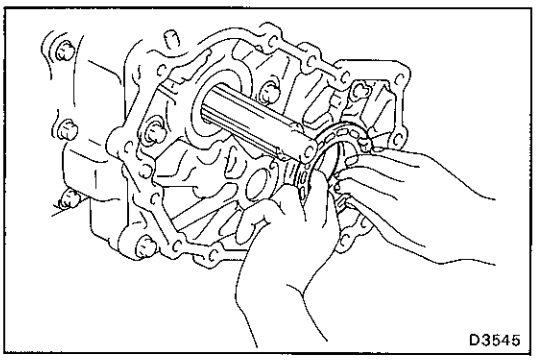
(b) Apply liquid sealer to the bolt threads.

Sealant: Part No.08833-00070, THREE BOND 1324 or equivalent



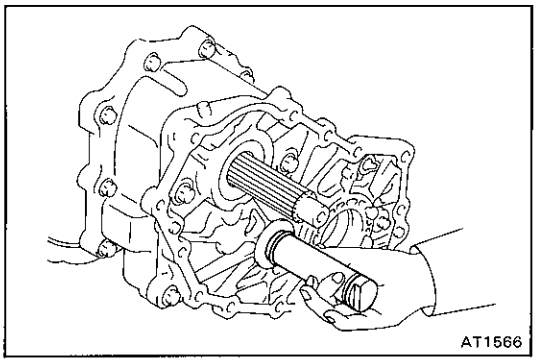
(c) Install a new gasket and transfer front case with the four bolts.

Torque: 650 kg-cm (47 ft-lb, 64 N·m)



2. INSTALL REAR OUTPUT SHAFT FRONT BEARING RETAINER

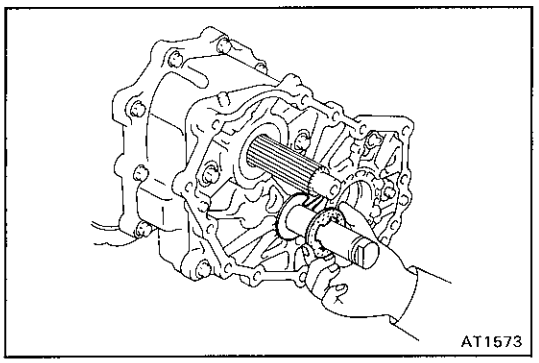
Install the rear output shaft front bearing retainer.



3. INSTALL IDLER GEAR SHAFT AND IDLER GEAR

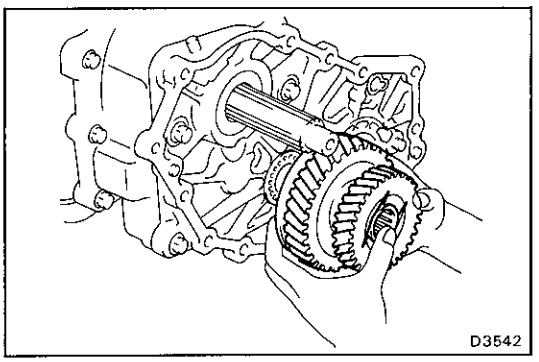
(a) Apply gear oil to a new O-ring and install it to the idler gear shaft front side groove.

(b) Install the idler gear shaft to the transfer front case.



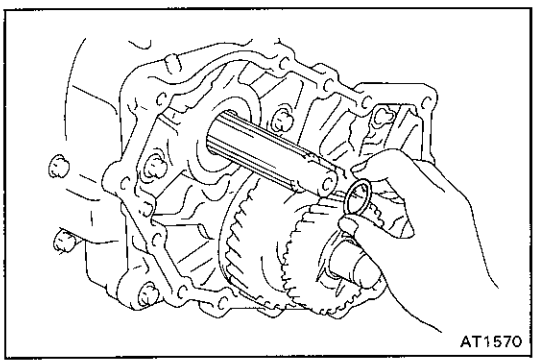
(c) Install the idler gear thrust washer.

HINT: Be sure that the protruding part of the washer fits in the case groove.



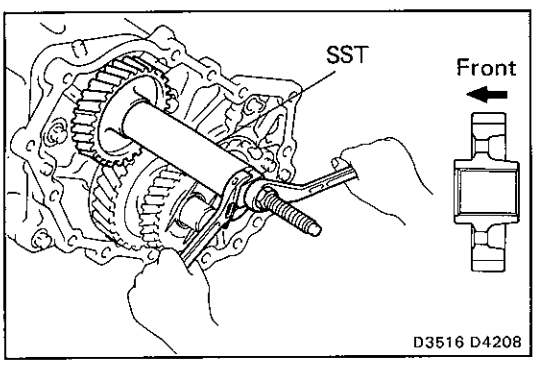
(d) Install the assembled idler gear, bearings and spacer to the idler gear shaft.

(e) Apply gear oil to a new O-ring and install it to the idler gear shaft rear side groove.



4. INSTALL O-RING TO TRANSMISSION OUTPUT SHAFT

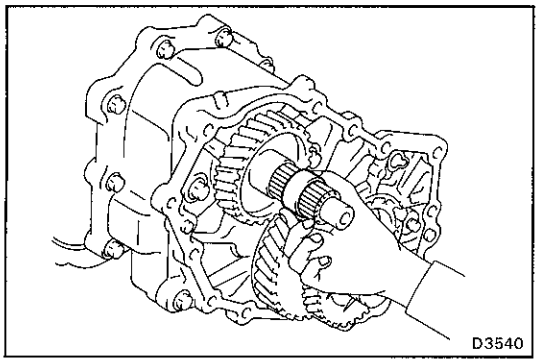
Apply MP grease to a new O-ring and install it to the transmission output shaft.



5. INSTALL TRANSFER INPUT GEAR

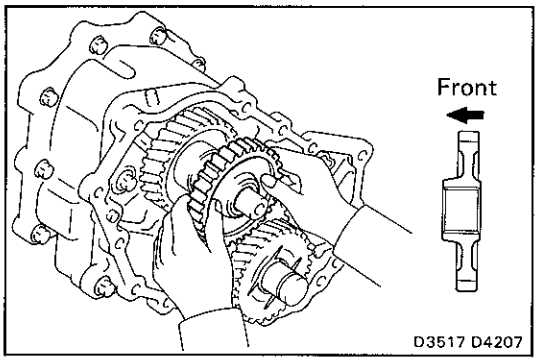
Using SST, install the transfer input gear.

SST 09309-36033

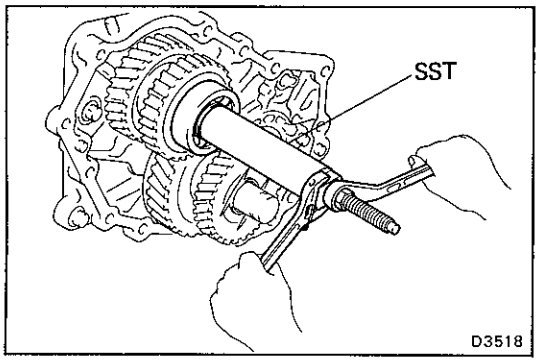


6. INSTALL POWER TAKE-OFF DRIVE GEAR

(a) Install the spacer to the transmission output shaft.

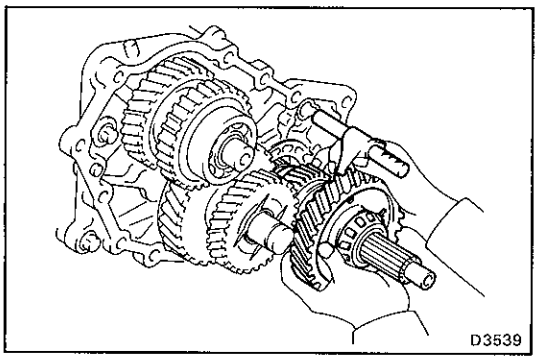


(b) Install the power take-off drive gear to the transmission output shaft.

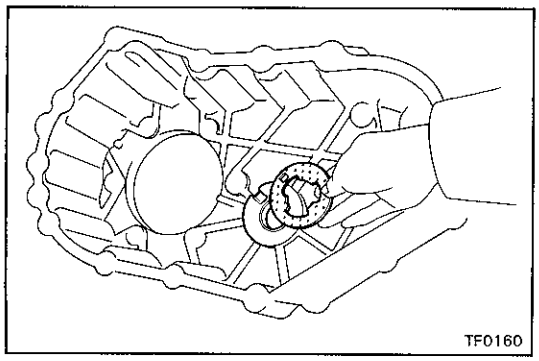


(c) Using SST, install the transfer input gear bearing.

SST 09309-36033



7. INSTALL REAR OUTPUT SHAFT ASSEMBLY WITH HIGH AND LOW SHIFT FORK SHAFT ASSEMBLY

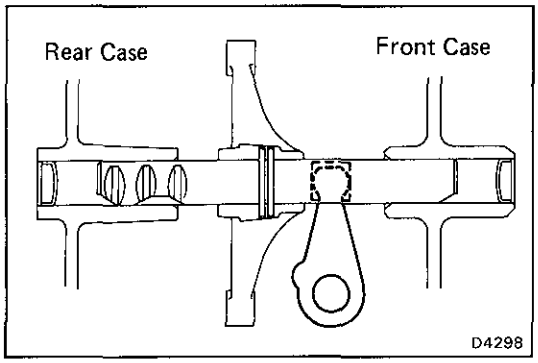


8. INSTALL TRANSFER REAR CASE

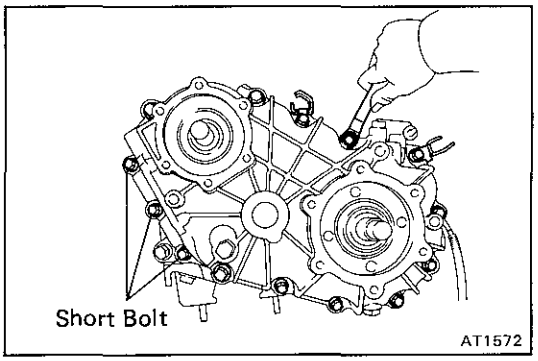
(a) Using MP grease, stick the thrust washer to the transfer rear case.

HINT: Be sure that the protruding part of the washer fits in the case groove.

(b) Place a new gasket on the front case.

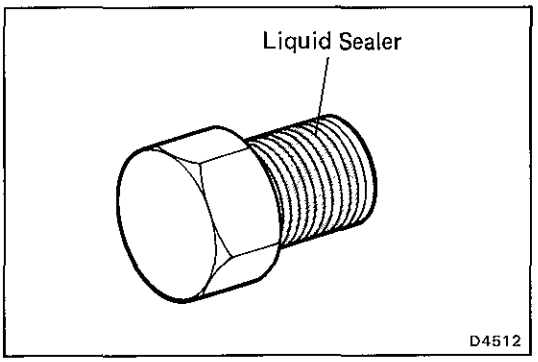


(c) While aligning the cutout of the shift fork shaft and shift inner lever, install the transfer rear case.



(d) Install and torque the fourteen bolts.

Torque:
17 mm head bolt 650 kg-cm (47 ft-lb, 64 N·m)
14 mm head bolt 400 kg-cm (29 ft-lb, 39 N·m)

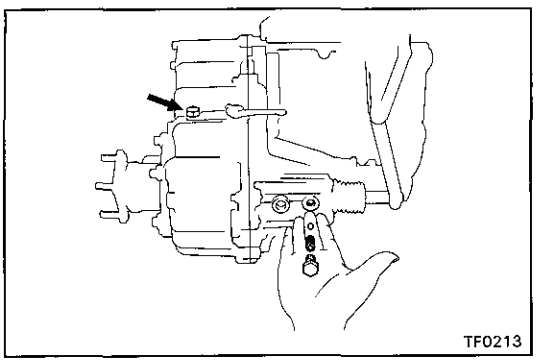


9. INSTALL LOCKING BALLS, SPRINGS AND SHIFT PLUGS

(a) Clean the threads of the plug and case with cleaning solvent.

(b) Apply liquid sealer to the plug threads.

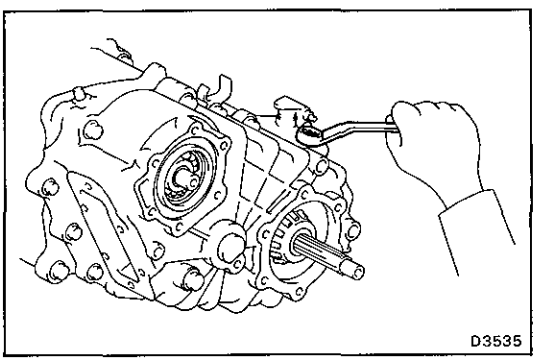
Sealant: Part No.08833-00070, THREE BOND 1324 or equivalent



[Direct Shift Type]

Install the locking balls and springs, and torque the plugs.

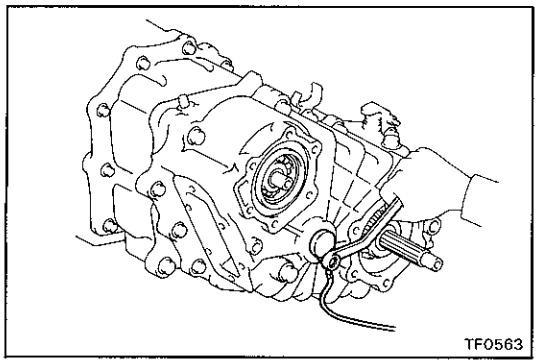
Torque: 450 kg-cm (33 ft-lb, 44 N·m)



[Vacuum Shift Type]

Install the locking ball and spring, and torque the plug.

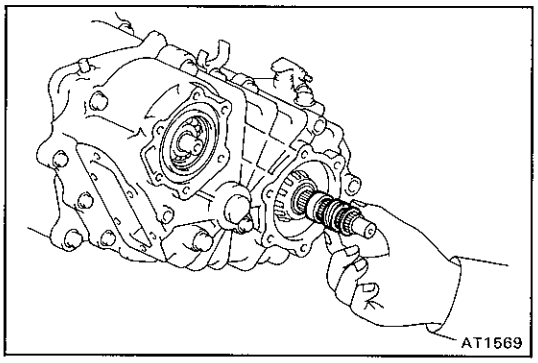
Torque: 450 kg-cm (33 ft-lb, 44 N·m)



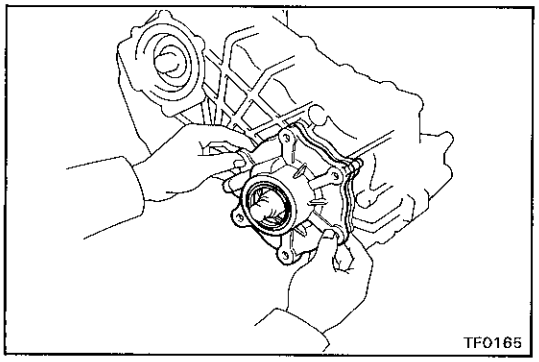
10. INSTALL IDLER GEAR SHAFT LOCK PLATE

Install the lock plate and bolt. Torque the bolt.

Torque: 210 kg-cm (15 ft-lb, 21 N·m)



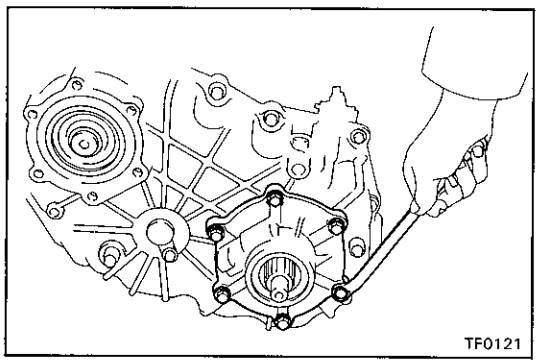
11. INSTALL SPACER, SPEEDOMETER DRIVE GEAR AND WASHER



12. ADJUST REAR OUTPUT SHAFT BEARINGS PRELOAD

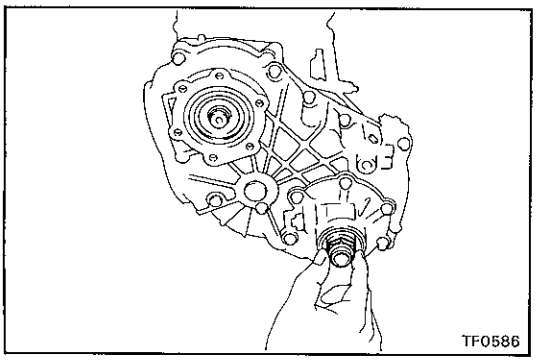
(a) Align the rib with the transfer rear case.

(b) Install the rear bearing retainer.



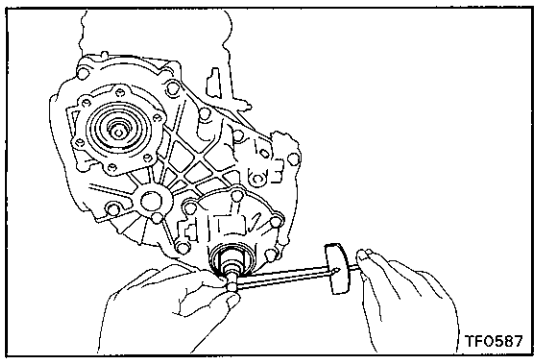
(c) Install and torque the six bolts.

Torque: 350 kg-cm (25 ft-lb, 34 N·m)



(d) Temporarily install a new rear companion flange lock nut.

(e) Shift the outer lever of the transfer high and low shift lever to N position.


TF0587

(f) Using a torque meter, measure the preload of the rear output shaft bearings.

Torque: (at starting)

New bearing	**15 – 24.7 kg-cm (13.0 – 21.4 in.-lb, 1.5 – 2.4 N·m)**
Reused bearing	**7 – 12 kg-cm (6.1 – 10.4 in.-lb, 0.7 – 1.2 N·m)**

If the preload is not within specification, remove the outer race of the rear output shaft rear bearing with SST.

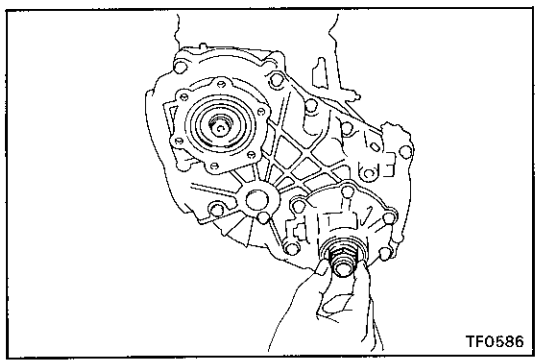
SST 09514-35011

Reselect an adjusting shim.

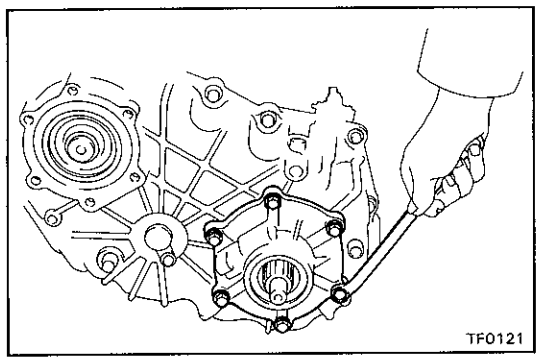
Mark	Thickness mm(in.)	Mark	Thickness mm(in.)
0	0.15 (0.0059)	10	1.00 (0.0394)
4	0.40 (0.0157)	11	1.10 (0.0433)
5	0.50 (0.0197)	12	1.20 (0.0472)
6	0.60 (0.0236)	13	1.30 (0.0512)
7	0.70 (0.0276)	14	1.40 (0.0551)
8	0.80 (0.0315)	15	1.50 (0.0591)
9	0.90 (0.0354)		

HINT:

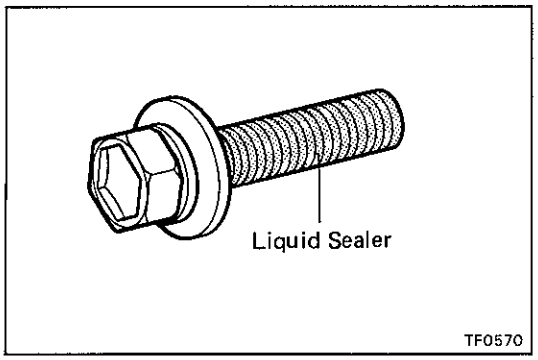
- If the preload is more than specification decrease the thickness of the shim, if less than specification, increase the thickness of shim.
- The preload will change about 10.0 kg-cm (8.7 in.-lb, 1.0 N·m) with each shim thickness.


TF0586

(g) Remove the rear companion flange lock nut.


TF0121

13. REMOVE REAR BEARING RETAINER

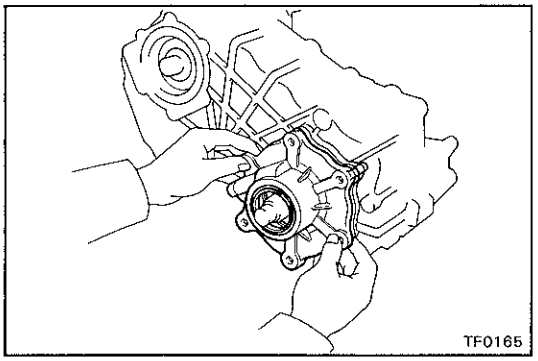


14. INSTALL REAR BEARING RETAINER

(a) Clean the threads of the bolts and case with cleaner.

(b) Apply liquid sealer to the bolts threads.

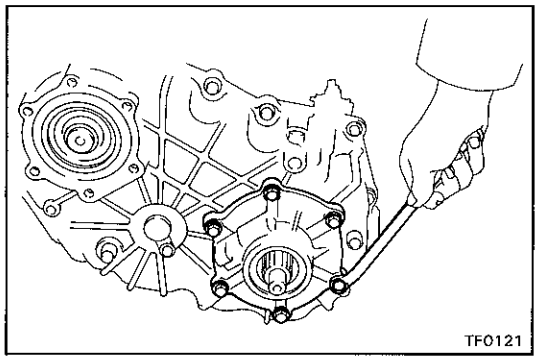
Sealant: Part No.08833-00070, THREE BOND 1324 or equivalent



(c) Place a new gasket on the rear case.

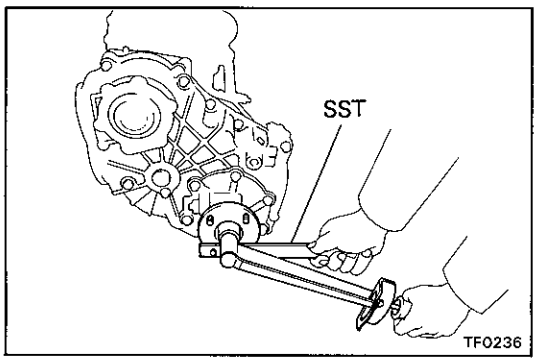
(d) Align the rib with the transfer rear case.

(e) Install the rear bearing retainer.



(f) Install and torque the six bolts.

Torque: 350 kg-cm (25 ft-lb, 34 N·m)



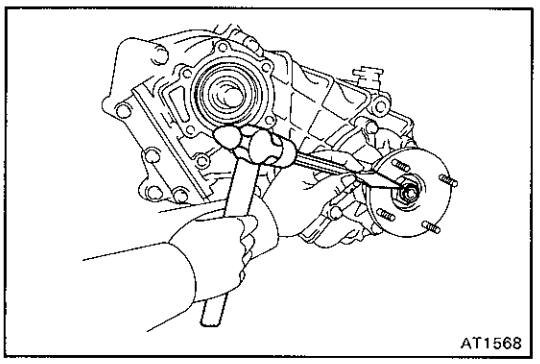
15. INSTALL REAR COMPANION FLANGE

(a) Install the companion flange and plate washer.

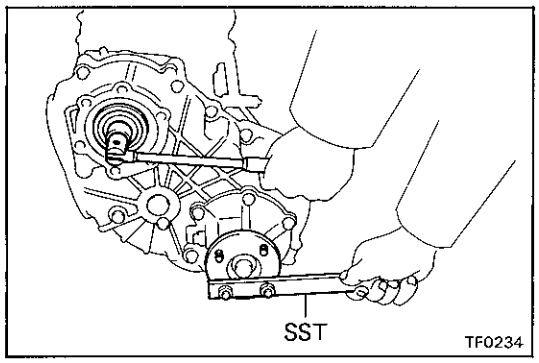
(b) Using SST and two nuts to hold the companion flange, install a new companion flange lock nut.

SST 09330-00021

Torque: 1,300 kg-cm (94 ft-lb, 127 N·m)



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



16. INSTALL TRANSMISSION OUTPUT SHAFT LOCK NUT

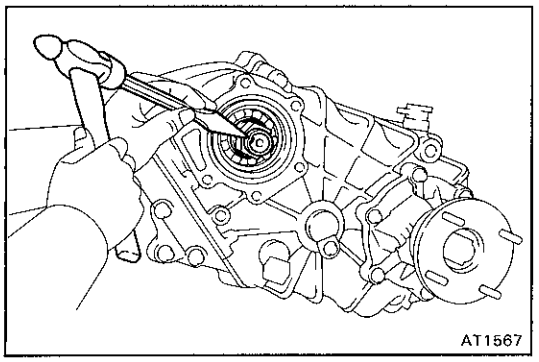
(a) Shift the outer lever of the transfer high and low shift lever to H2 or L4 position.

(b) Install the plate washer.

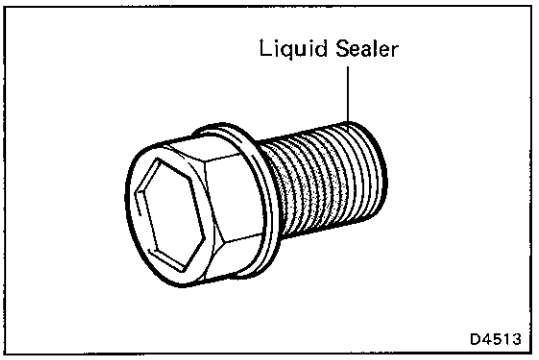
(c) Using SST and two nuts to hold the companion flange, install a new transmission output shaft lock nut.

SST 09330-00021

Torque: 1,300 kg-cm (94 ft-lb, 127 N·m)



(d) Using a hammer and chisel, stake the transmission output shaft lock nut.

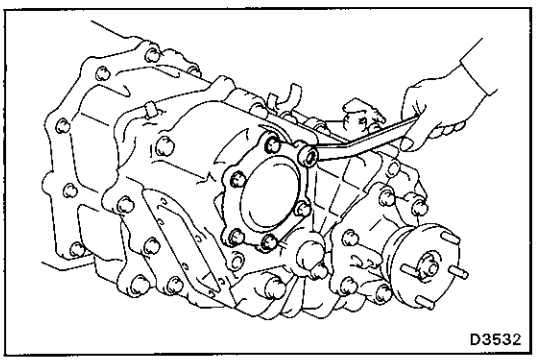


17. INSTALL TRANSFER NO.2 CASE COVER

(a) Clean the threads of the bolts and case with cleaning solvent.

(b) Apply liquid sealer to the bolt threads.

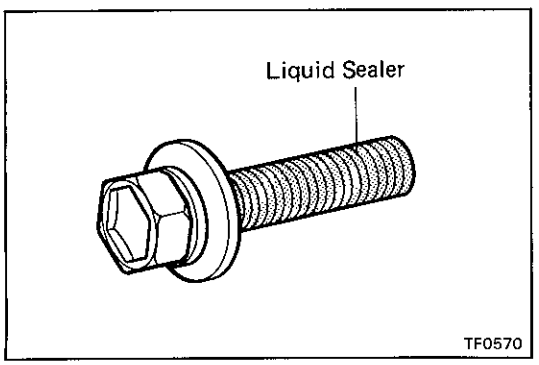
Sealant: Part No.08833-00070, THREE BOND 1324 or equivalent



(c) Install a new gasket and the transfer No.2 case cover with the six bolts.

(d) Torque the bolts.

Torque: 155 kg-cm (11 ft-lb, 15 N·m)

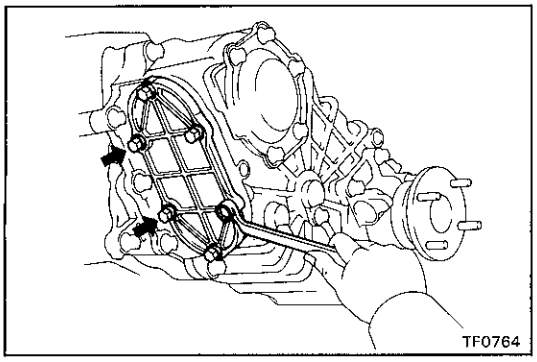


18. INSTALL POWER TAKE-OFF COVER

(a) Clean the threads of the two bolts and case with cleaning solvent.

(b) Apply liquid sealer to the two bolts threads.

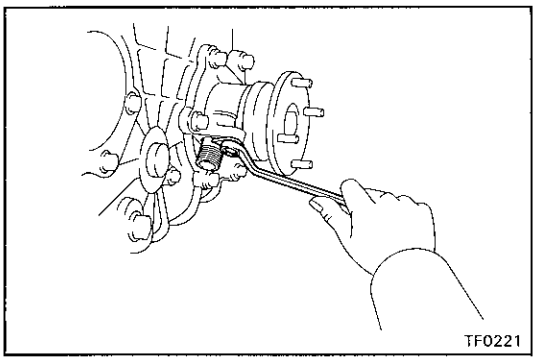
Sealant: Part No.08833-00070, THREE BOND 1324 or equivalent


TF0764

(c) Install a new gasket and the power take-off cover with the two sealer coated bolts indicated by arrows and four bolts as shown.

Torque:

Sealer coated bolts	**170 kg-cm (12 ft-lb, 17 N·m)**
Other bolts	**195 kg-cm (14 ft-lb, 19 N·m)**


TF0221

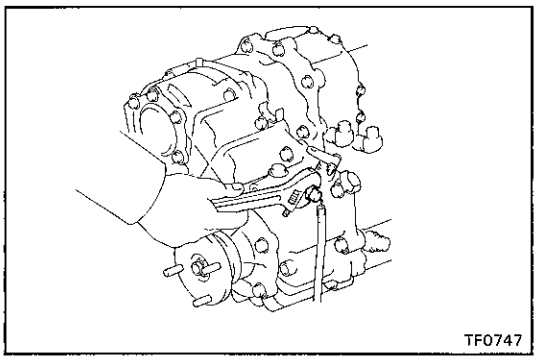
19. INSTALL SPEEDOMETER DRIVEN GEAR

(a) Apply gear oil to a new O-ring.

(b) Install the O-ring to the speedometer driven gear.

(c) Install the speedometer driven gear with lock plate and bolt.

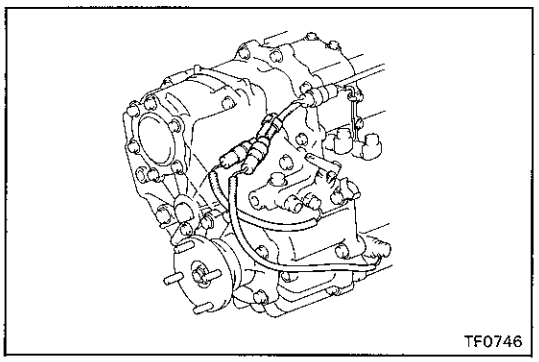
Torque: 130 kg-cm (9 ft-lb, 13 N·m)


TF0747

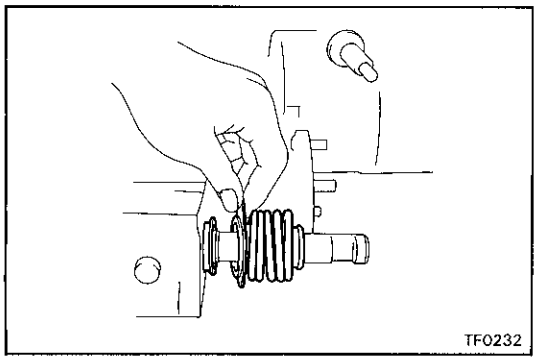
20. INSTALL TRANSFER L4 POSITION SWITCH

(a) Install the transfer L4 position switch.

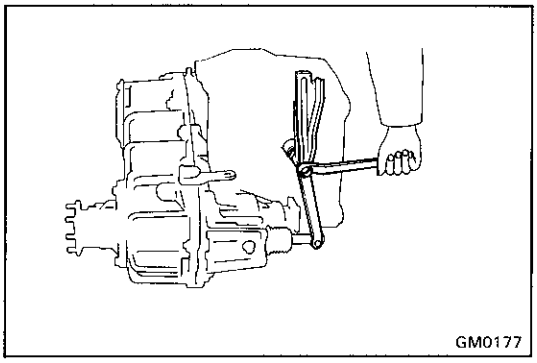
Torque: 250 kg-cm (18 ft-lb, 25 N·m)


TF0746

(b) Connect the two connectors.


TF0232

21. (Direct Shift Type)
INSTALL DUST BOOT



22. **(Direct Shift Type)**
INSTALL TRANSFER FRONT DRIVE SHIFT LEVER