

DISASSEMBLY

1. REMOVE BREATHER HOSE
2. REMOVE DYNAMIC DAMPER

Remove the 2 bolts and dynamic damper.

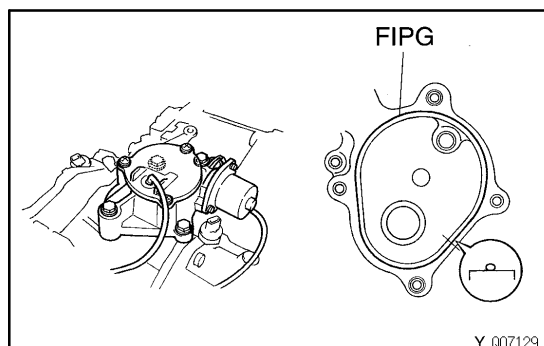
HINT:

At the time of reassembly, apply adhesive to the bolt threads.

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

equivalent

Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)



3. REMOVE MOTOR ACTUATOR

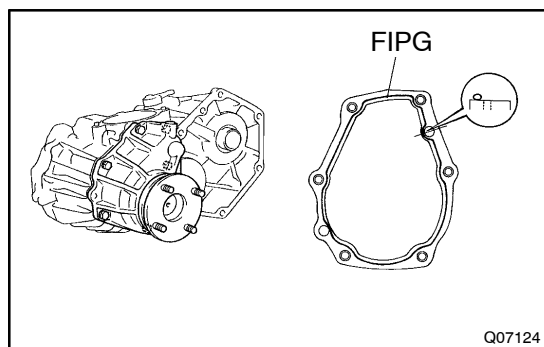
Remove the 4 bolts and motor actuator.

HINT:

- At the time of reassembly, set the motor actuator in differential lock condition.
- At time of reassembly, apply FIPG to the front case.

FIPG: Part No. 08826-00090, THREE BOND 1281 or equivalent

Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)



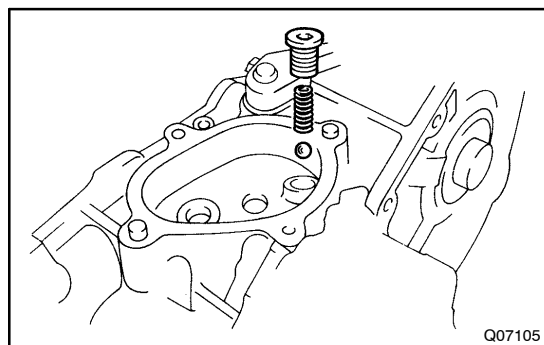
4. REMOVE OUTPUT GEAR FROM FRONT CASE

HINT:

At the time of reassembly apply gear oil to the output gear.

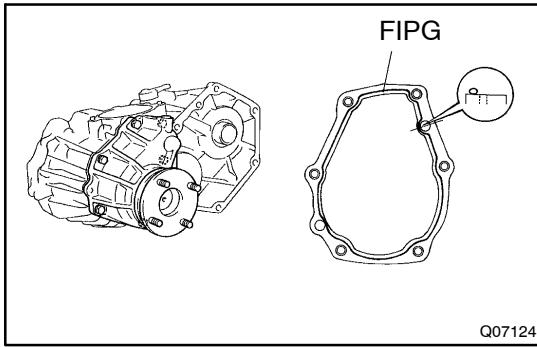
NOTICE:

At the time of reassembly, do not turn the output gear.



5. REMOVE SCREW PLUG, SPRING AND BALL

- (a) Using a torx socket wrench (T40), remove the screw plug.



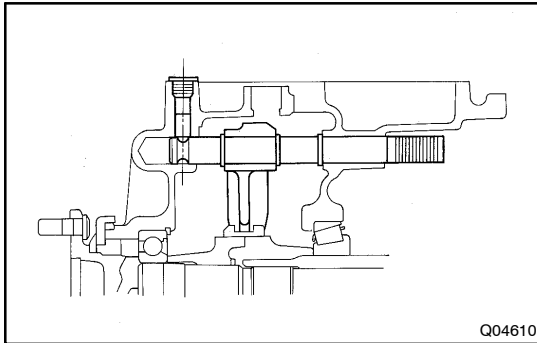
HINT:

At the time of reassembly, apply liquid sealer to the screw plug.

Sealant: Part No.08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent

Torque:19 N·m (190 kgf·cm, 14 ft·lbf)

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



6. REMOVE TRANSFER INDICATOR SWITCH

Remove the Center Diff Lock indicator switch, L4 position switch, Neutral position switch and 3 gaskets.

Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)

7. REMOVE FRONT EXTENSION HOUSING

Remove the 6 bolts and front extension housing.

HINT:

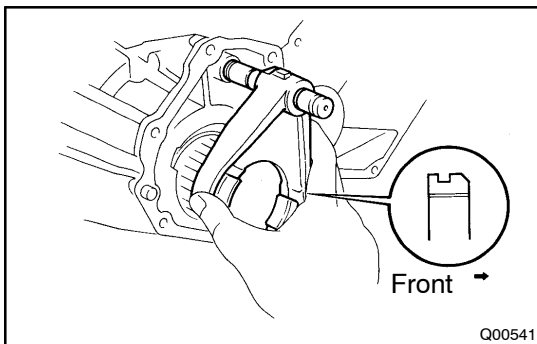
If necessary, tap the front extension housing with a plastic hammer.

HINT:

- At the time of reassembly, set the clutch sleeve in differential lock condition.
- At time of reassemble, apply FIPG to the front case.

FIPG: Part No. 08826-00090, THREE BOND 1281 or equivalent

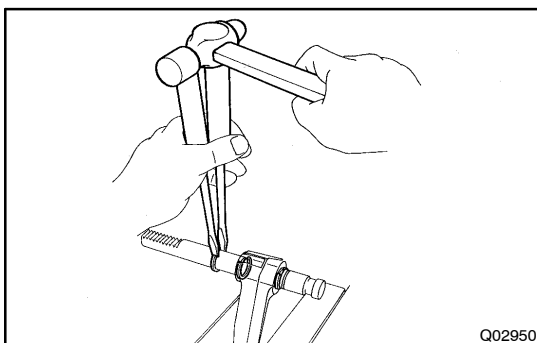
Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)



8. REMOVE CLUTCH SLEEVE, SHIFT FORK NO.2 SHAFT AND SHIFT FORK NO.2

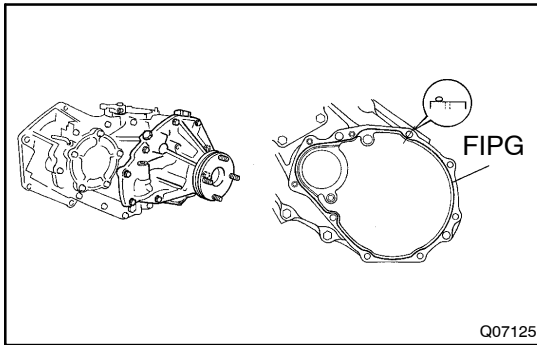
HINT:

At the time of reassembly, make sure to install the clutch sleeve in the correct direction.



9. SEPARATE SHIFT FORK NO.2 SHAFT AND SHIFT FORK NO.2

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



10. REMOVE REAR EXTENSION HOUSING

Remove the 9 bolts and rear extension housing.

HINT:

If necessary, tap the rear extension housing with a plastic hammer.

HINT:

At the time of reassembly, apply FIPG to the rear case.

FIPG: Part No. 08826-00090, THREE BOND 1281 or equivalent

Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)

11. REMOVE RETAINER FROM REAR CASE

Remove the 5 bolts and retainer.

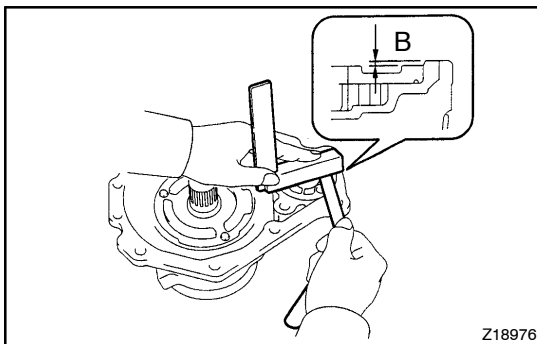
Torque: 39 N·m (400 kgf·cm, 28 ft·lbf)

12. REMOVE ADJUSTING SHIM

HINT:

At the time of assembly, select adjusting shims for the idler gear rear taper roller bearing.

- Using vernier calipers, measure dimension A.
- Lightly hold down the bearing outer race in the thrust direction to eliminate any looseness before making the measurement.

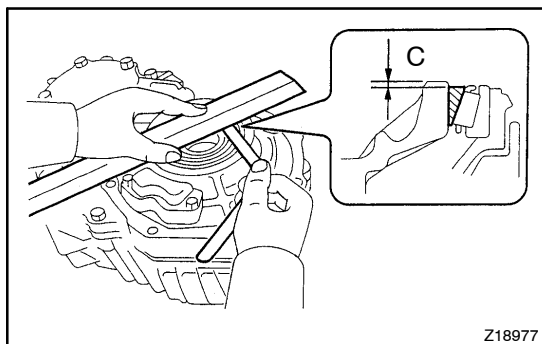


- Using a steel straight edge and feeler gauge, measure the clearance of dimension B.
- Calculate the required thickness of the adjusting shim.

Thickness: Dimension A + Dimension B + (0.022 – 0.049 mm, 0.0009 – 0.0019 in.)

- From the following table, select a shim so that its thickness is within the range of the calculation.

Mark	Thickness mm (in.)	Mark	Thickness mm (in.)
2	0.30 (0.0118)	8	3.20 (0.1260)
3	0.45 (0.0177)	9	3.40 (0.1339)
4	2.40 (0.0945)	10	3.60 (0.1417)
5	2.60 (0.1024)	11	3.80 (0.1496)
6	2.80 (0.1102)	12	4.00 (0.1575)
7	3.00 (0.1181)	13	0.55 (0.0216)



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HINT:

At the time of reassembly, select adjusting shims for the output shaft taper roller bearing.

- Using a steel straight edge and feeler gauge, measure the clearance of dimension C.
- Lightly hold down the bearing outer race in the thrust direction to eliminate any looseness before making the measurement.
- Calculate the required thickness of the adjusting shim.

Thickness:

Dimension C + (0.014 – 0.039 mm, 0.0006 – 0.0015 in.)

- From the following table, select a shim so that its thickness is within the range of the calculation.

Mark	Thickness mm (in.)	Mark	Thickness mm (in.)
B	0.30 (0.0118)	H	1.80 (0.0709)
C	0.45 (0.0177)	J	2.00 (0.0787)
D	1.00 (0.0394)	K	2.20 (0.0866)
E	1.20 (0.0472)	L	2.40 (0.0945)
F	1.40 (0.0551)	M	2.60 (0.1024)
G	1.60 (0.0630)	N	0.55 (0.0216)

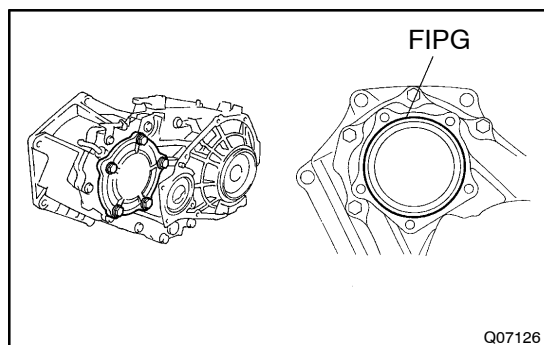
13. REMOVE OIL STRAINER FROM REAR CASE

Remove the 2 set bolts and oil strainer.

Torque: 4.9 N·m (50 kgf·cm, 43 in·lbf)

14. REMOVE CASE COVER

- (a) Remove the 5 bolts.



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HINT:

At the time of reassembly, apply liquid sealer to the bolt threads.

Sealant: Part No.08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent

Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)

- (b) Using a brass bar and hammer, tap the case cover and remove it.

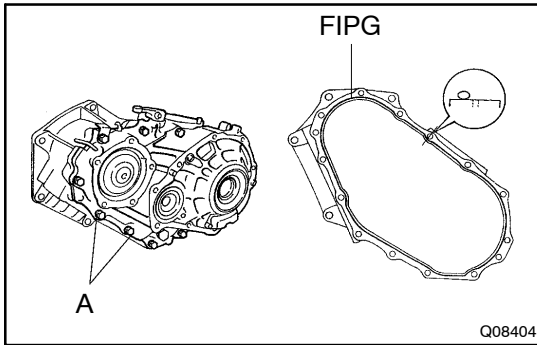
HINT:

At the time of reassembly, apply FIPG to the rear case.

FIPG: Part No. 08826-00090, THREE BOND 1281 or equivalent

15. SEPARATE FRONT CASE AND REAR CASE

- (a) Using a snap ring expander, remove the snap ring from the rear case.
- (b) Remove the 8 bolts.

**HINT:**

At the time of reassembly, apply liquid sealer to the "A" bolt threads.

Sealant: Part No.08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent

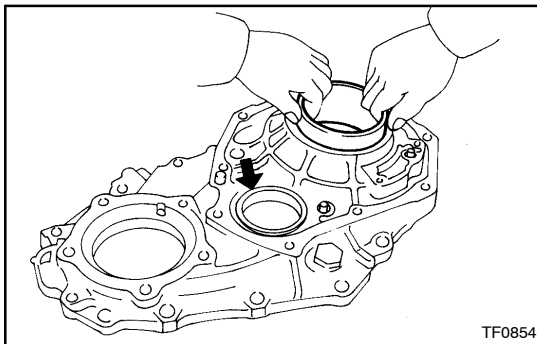
Torque:37 N·m (380 kgf·cm, 27 ft·lbf)

- (c) Using a brass bar and hammer, tap the rear case and separate it.

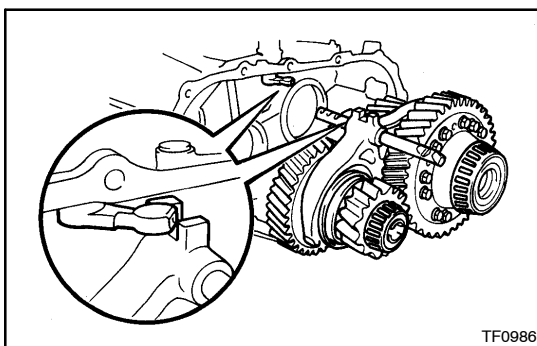
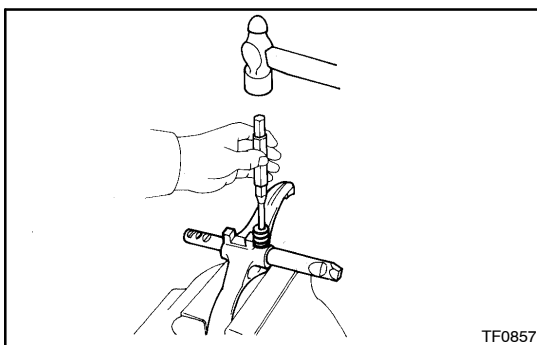
HINT:

At the time of reassembly, apply FIPG to the front case.

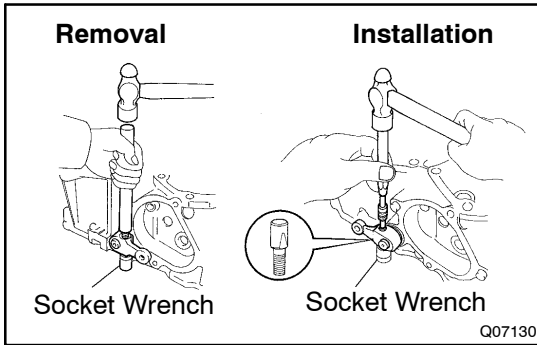
FIPG: Part No. 08826-00090, THREE BOND 1281 or equivalent

**16. REMOVE 2 BEARING RACES FROM REAR CASE****17. REMOVE INPUT SHAFT ASSEMBLY**

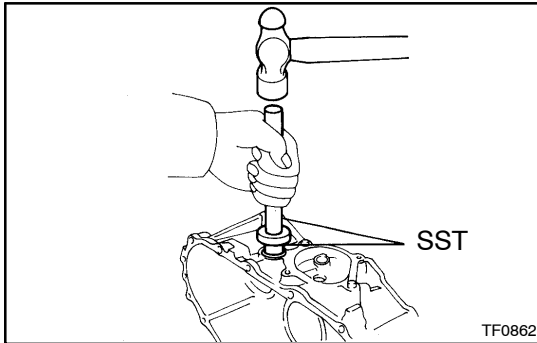
Using a plastic hammer, remove the input shaft assembly.

**18. REMOVE IDLER GEAR ASSEMBLY, CENTER DIFFERENTIAL ASSEMBLY, SHIFT FORK NO.1 AND SHIFT FORK NO.1 SHAFT FROM FRONT CASE****19. SEPARATE SHIFT FORK NO.1 AND SHIFT FORK NO.1 SHAFT**

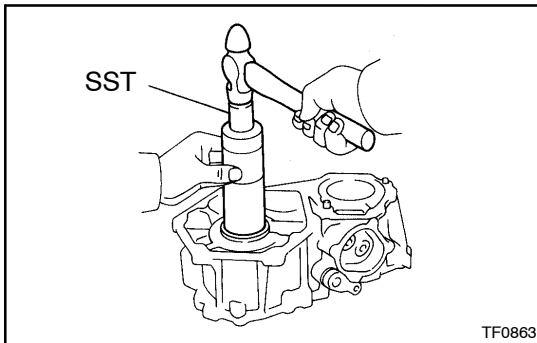
- (a) Using a pin punch and hammer, drive out the slotted spring pin.
- (b) Separate the shift fork No.1 and shift fork No.1 shaft.



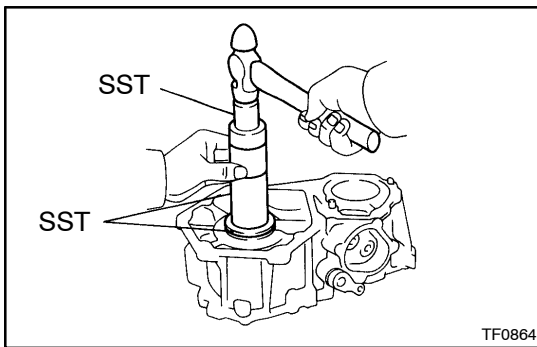
- 20. REMOVE SHIFT OUTER LEVER AND INNER LEVER**
- (a) Remove the nut and washer from the shift outer lever.
Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)
 - (b) Using a brass bar, hammer and socket wrench, tap out the lever lock pin.
 - (c) Remove the shift outer lever, washer and inner lever from the front case.



- 21. IF NECESSARY, REPLACE SHIFT LEVER OIL SEAL**
- (a) Using a screwdriver, pry out the oil seal.
 - (b) Using SST and a hammer, drive in a new oil seal.
SST 0608-00081, 09950-70010 (09951-07150)



- 22. IF NECESSARY, REPLACE INPUT SHAFT OIL SEAL**
- (a) Using SST and a hammer, drive out the oil seal.
SST 09316-60011 (09316-00011)

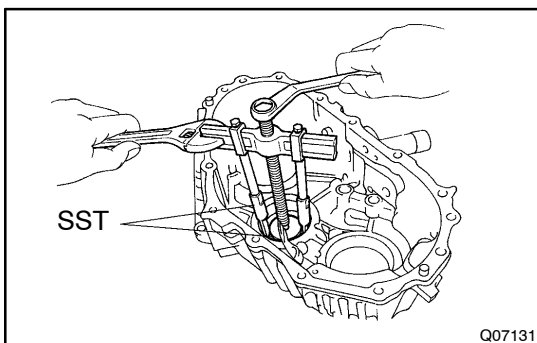


- (b) Using SST and a hammer, drive in a new oil seal.
SST 09316-60011 (09316-00011, 09316-00031)

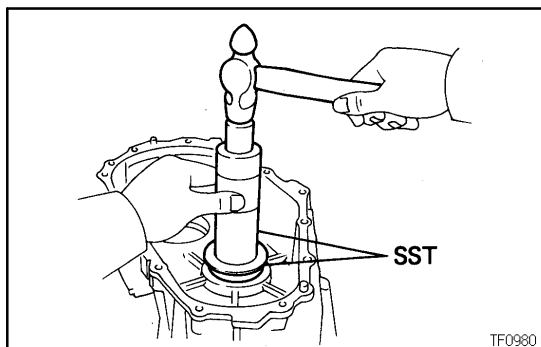
23. REMOVE OIL RECEIVER FROM FRONT CASE

Remove the bolt and oil receiver.

Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)



- 24. REMOVE 2 BEARING RACES FROM FRONT CASE**
- (a) Using SST, remove the bearing race (for idler gear).
SST 09950-40010, 09950-60010 (09951-00320)



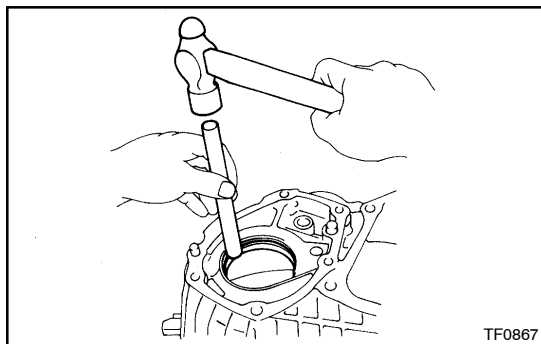
Using SST and a hammer, install the bearing race (for idler gear).

HINT:

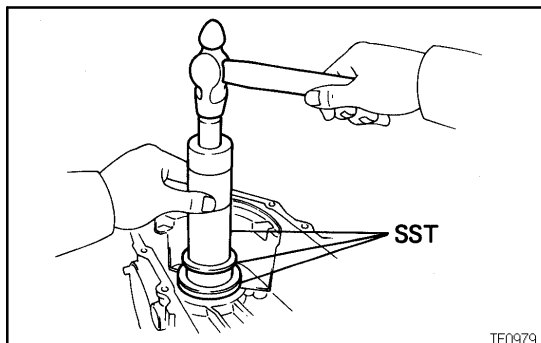
At time of reassembly, please refer to the following item.

Using SST and a press, install the bearing race (for the idler gear).

SST 09316-60011 (09316-00011, 09316-00041)



(b) Using a brass bar and hammer, remove the bearing race (for output shaft).



HINT:

- At the time of reassembly, using SST and a hammer, install the bearing race (for output shaft).
- At the time of reassembly, please refer to the following item.

Using SST and a press, install the bearing race (for the output shaft).

SST 09316-20011, 09316-60011 (09316-00011, 09316-00031)

25. INSPECT TRANSFER INDICATOR SWITCH

Check that there is continuity between the terminals, as shown.

Switch Position	Specified
Push	Continuity
Free	No continuity

If continuity is not as specified, replace the switch.