2906G–01

OVERHAUL

HINT:

COMPONENTS : See page 29–11

1. REMOVE FRONT WHEELS

2. REMOVE ENGINE UNDER COVER SUB–ASSY NO.1

3. REMOVE ENGINE UNDER COVER ASSY REAR

4. DRAIN DIFFERENTIAL OIL

5. REMOVE PROPELLER SHAFT ASSY FRONT (See page 30–4)

6. REMOVE FRONT AXLE HUB GREASE CAP LH (See page 30–30)

7. REMOVE FRONT AXLE HUB GREASE CAP RH

HINT:

Remove the RH side by the same procedures with the LH side.

8. REMOVE FRONT AXLE HUB LH NUT (See page 30–30)

9. REMOVE FRONT AXLE HUB RH NUT

HINT:

Remove the RH side by the same procedures with the LH side.

10. SEPARATE FRONT STABILIZER LINK ASSY LH (See page 27–25)

11. SEPARATE FRONT STABILIZER LINK ASSY RH

HINT:

Remove the RH side by the same procedures with the LH side.

12. SEPARATE TIE ROD END SUB–ASSY LH (See page 51–42)

SST 09628–62011

13. SEPARATE TIE ROD END SUB–ASSY RH

HINT:

Remove the RH side by the same procedures with the LH side.

SST 09628–62011

14. SEPARATE FRONT SUSPENSION ARM SUB–ASSY LOWER NO.1 LH (See page 26–23)

15. SEPARATE FRONT SUSPENSION ARM SUB–ASSY LOWER NO.1 RH

HINT:

Remove the RH side by the same procedures with the LH side.

16. SEPARATE FRONT AXLE ASSY LH (See page 30–30)

17. SEPARATE FRONT AXLE ASSY RH

HINT:

Remove the RH side by the same procedures with the LH side.

18. REMOVE FRONT DRIVE SHAFT ASSY LH (See page 30–21)

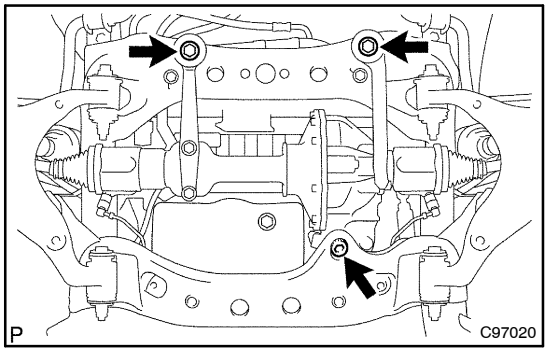
SST 09520–01010, 09520–24010 (09520–32040)

19. REMOVE FRONT DRIVE SHAFT ASSY RH

HINT:

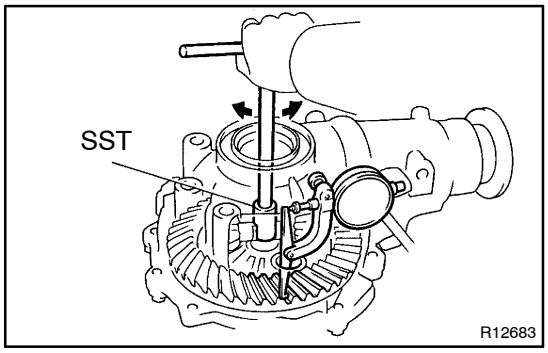
Remove the RH side by the same procedures with the LH side.

SST 09520–01010, 09520–24010 (09520–32040)



20. REMOVE DIFFERENTIAL CARRIER ASSY FRONT

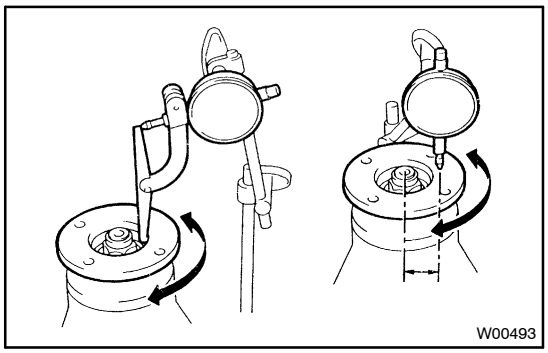
(a) Remove the bolt and separate the front differential breather tube bracket.
(b) Support the front differential with a jack.
(c) Remove the front differential mount nut No.1.
(d) Remove the 2 front mounting bolts and 2 nuts.
(e) Lower the jack and remove the front differential assembly.
(f) Remove the 2 bolts and front differential support No.3.
(g) Remove the 5 bolts and 2 front differential supports.



21. INSPECT BACKLASH DIFFERENTIAL RING GEAR AND DIFFERENTIAL DRIVE PINION

(a) Using SST and a dial indicator, measure the ring gear backlash.
SST 09564–32011
Backlash: 0.13 – 0.18 mm (0.0051 – 0.0071 in.)

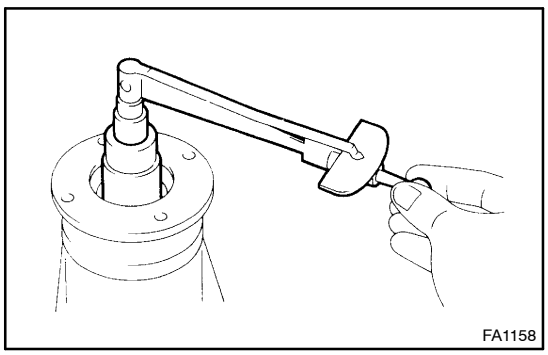
If the backlash is not within the specification, adjust the side bearing preload or repair as necessary.



22. INSPECT FRONT DRIVE PINION COMPANION FLANGE SUB–ASSYFRONT

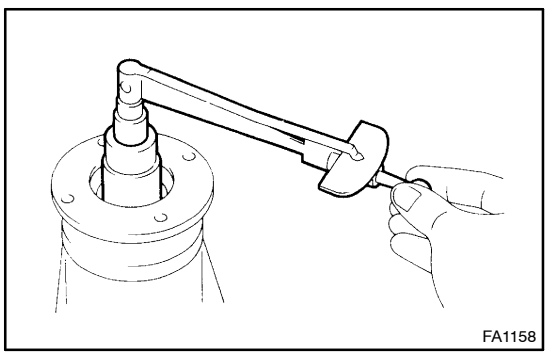
(a) Using a dial indicator, measure the runout of the companion flange vertically and horizontally.
Maximum runout:
Vertical runout: 0.10 mm (0.0039 in.)
Lateral runout: 0.10 mm (0.0039 in.)

If the runout is greater than the maximun, replace the companion flange.



23. INSPECT DRIVE PINION PRELOAD

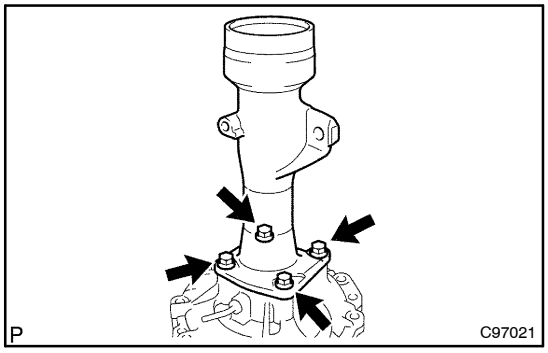
(a) Using a torque wrench, measure the preload of backlash between the drive pinion and ring gear.
0.49 – 0.78 N·m (5 – 8 kgf·cm, 4.3 – 6.9 in.·lbf)



24. INSPECT TOTAL PRELOAD

(a) Using a torque wrench, measure the preload with the teeth of the drive pinion and ring gear in contact.
Total preload (at starting):
Drive pinion preload plus 0.25 – 0.45 N·m (3 – 5 kgf·cm, 2.2 – 4.0 in.·lbf)

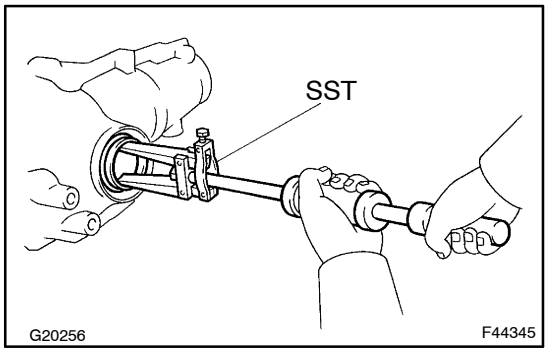
If necessary, disassemble and inspect the differential.



25. REMOVE FRONT DIFFERENTIAL TUBE ASSY

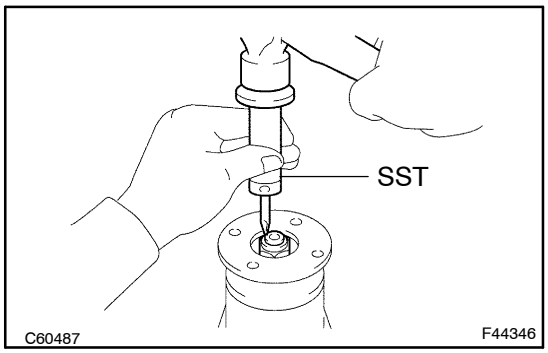
(a) Remove the 4 bolts.

(b) Using a plastic hammer, remove the differential tube.



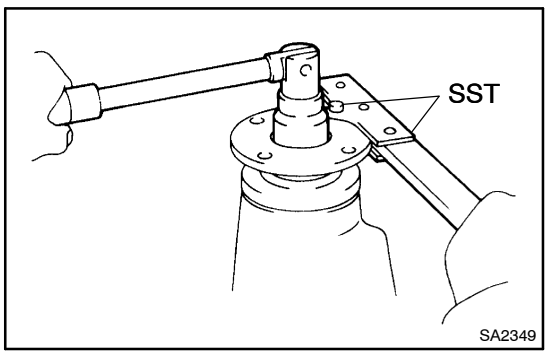
26. REMOVE DIFFERENTIAL SIDE GEAR SHAFT OIL SEAL

(a) Using SST, remove the side oil seal.
SST 09308–00010

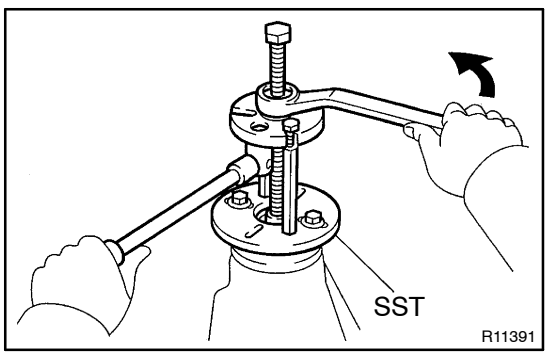


27. REMOVE FRONT DRIVE PINION COMPANION FLANGE FRONT NUT

(a) Using SST and a hammer, unstake the nut.
SST 09930–00010

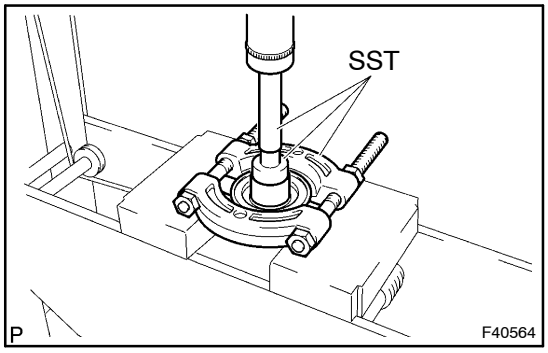


(b) Using SST to hold the companion fllange, remove the nut.
SST 09330–00021



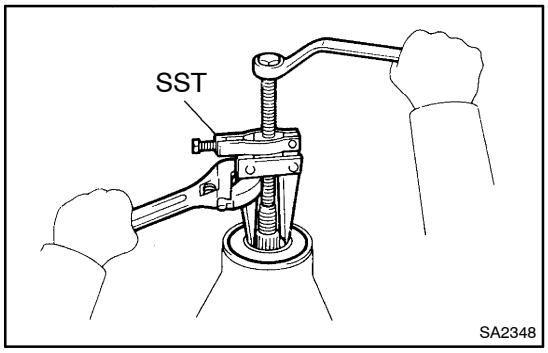
28. REMOVE FRONT DRIVE PINION COMPANION FLANGE SUB–ASSYFRONT

(a) Using SST, remove the companion flange.
SST 09950–30012 (09951–03010, 09953–03010, 09954–03010, 09955–03030, 09956–03020)



29. REMOVE FRONT DIFFERENTIAL DUST DEFLECTOR

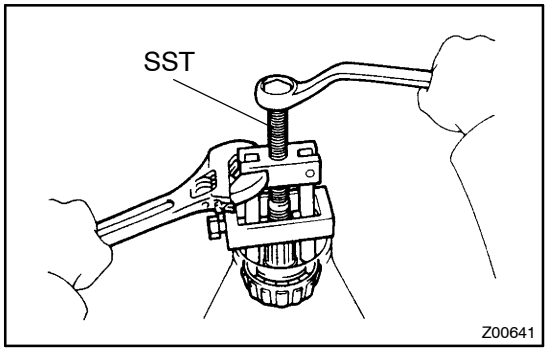
(a) Using SST and a press, remove the dust deflector
SST 09950–00020, 09950–60010 (09951–00510), 09950–70010 (09951–07150)



30. REMOVE FRONT DIFFERENTIAL CARRIER OIL SEAL

(a) Using SST, remove the oil seal from the differential tube.
SST 09308–10010

31. REMOVE FRONT DIFFERENTIAL DRIVE PINION OIL SLINGER



32. REMOVE FRONT DRIVE PINION REAR TAPERED ROLLER BEARING

(a) Using SST, remove the tapered roller bearing (inner) the drive pinion.
SST 09556–22010

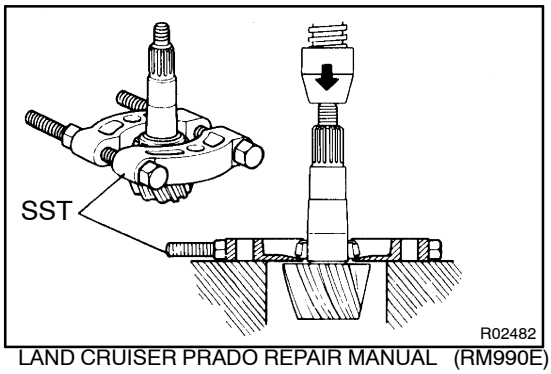
(b) Remove the bearing spacer.

33. REMOVE DIFFERENTIAL SIDE BEARING RETAINER

(a) Remove the 10 bolts and tap out the retainer with a plastic hammer.

34. REMOVE DIFFERENTIAL CASE ASSY

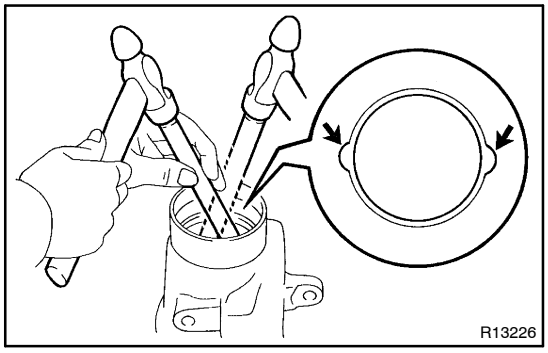
35. REMOVE DIFFERENTIAL DRIVE PINION



36. REMOVE FRONT DRIVE PINION FRONT TAPERED ROLLER BEARING

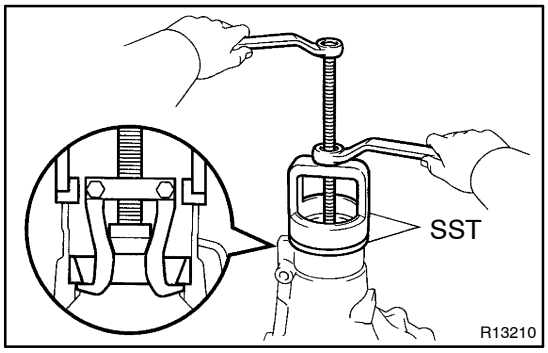
(a) Using SST and a press, remove the tapered roller bearing (inner) and washer from the drive pinion.
SST 09950–00020

HINT:
If the drive or ring gear are damaged, replace them as aset.



37. REMOVE FRONT DRIVE PINION FRONT TAPERED ROLLER BEARING

(a) Using a brass bar and hammer, remove the tapered roller bearing (outer).

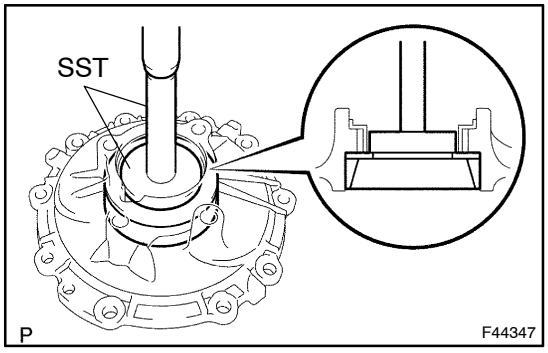


38. REMOVE FRONT DRIVE PINION REAR TAPERED ROLLER BEARING

(a) Using SST, remove the rear tapered roller bearing (outer).
SST 09502–12010, 09612–65014 (09612–01020, 09612–01050)

39. REMOVE FRONT DIFFERENTIAL OIL STORAGE RING

(a) Using a brass bar and hammer, remove the oil storage ring.

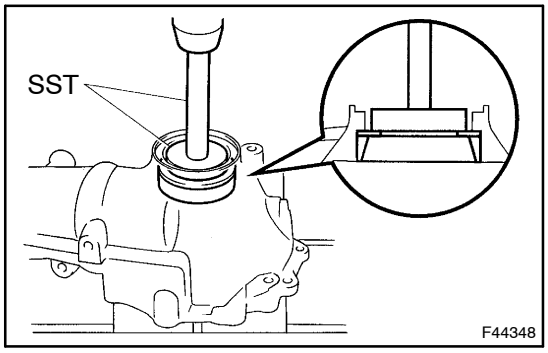


40. REMOVE FRONT DIFFERENTIAL CASE BEARING

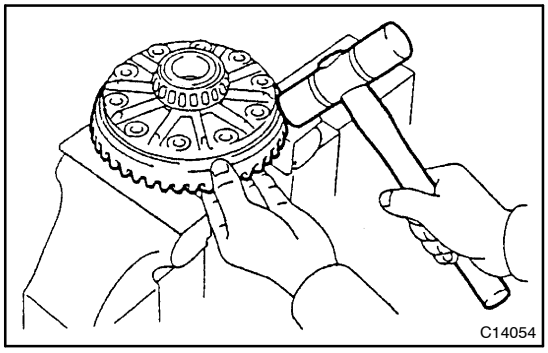
HINT:

- Measure the case washer and note the thickness.
- Tag the bearing outer races to show the lacation for reassembly.

(a) Using SST and a press, remove the case bearing (outer) and plate washer from the bearing retainer.
SST 09950–60020 (09951–00680), 09950–70010 (09951–07150)

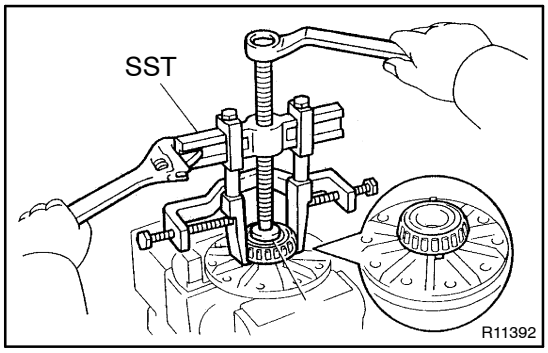


(b) Using SST and a press, remove the case bearing (outer) and plate washer from the differential carrier assy.
SST 09950–60020 (09951–00680), 09950–70010 (09951–07150)



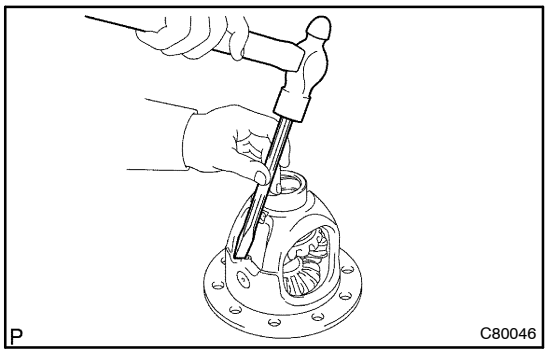
41. REMOVE DIFFERENTIAL RING GEAR

(a) Place matchmarks on the ring gear and defferential case.
(b) Remove the 10 bolts.
(c) Using a plastic hammer, tap on the ring gear to separate it from the differential case.



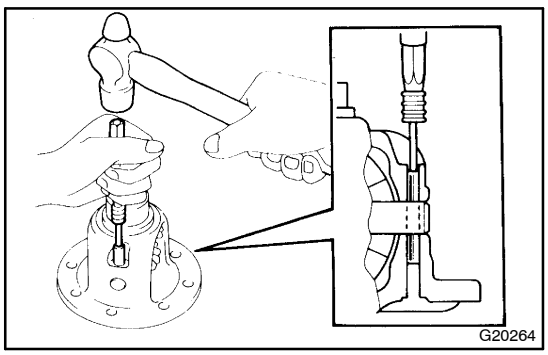
42. REMOVE FRONT DIFFERENTIAL CASE BEARING

(a) Using SST, remove the 2 differential case bearing (inner) from the diffrential case assy.
SST 09950–60010 (09951–00480), 09950–40011 (09951–04020, 09952–04010, 09953–04030, 09954–04010, 09955–04061, 09953–04020, 09958–04011)

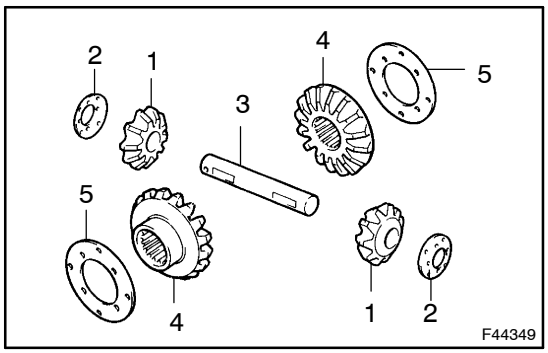


43. DISASSEMBLE DIFFERENTIAL CASE

(a) Using the chisel and hammer, cancellation lock of the differential case.



(b) Using a pin punch and hammer, remove the straight pin.



(c) Remove theres parts from the differential case.
(1) Differential pinion gear (2 pieces)
(2) Differential pinion gear thrust washer (2 pieces)
(3) Differential pinion shaft
(4) Differential side gear (2 pieces)
(5) Differential side gear thrust washer (2 pieces)

44. INSPECT DIFFERENTIAL GEAR KIT

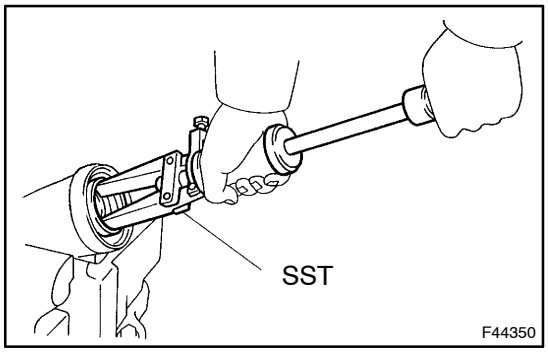
(a) Check that no damage is identified on the differential pinion and differential side gear.

If the differential pinion and/or differential side gear is damaged, replace the differential gear kit.

45. INSPECT FRONT DIFFERENTIAL CASE

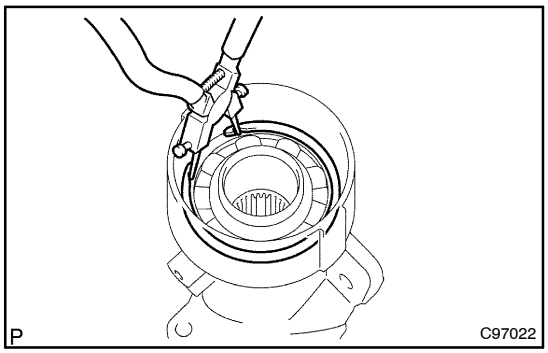
(a) Check that no damaged is differential case.

If the differential case is damaged, replace the differential case.



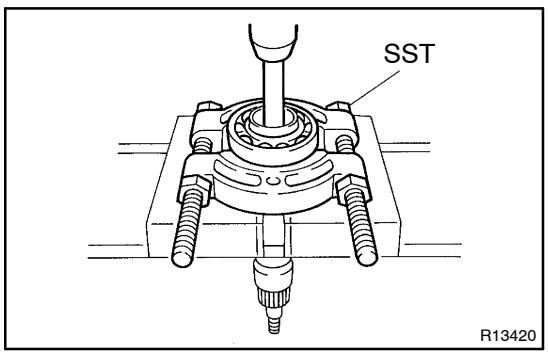
46. REMOVE DIFFERENTIAL SIDE GEAR SHAFT OIL SEAL

(a) Using SST, remove the oil seal from the differential tube.
SST 09308–00010



47. REMOVE DIFFERENTIAL SIDE GEAR SHAFT SUB–ASSY RH

(a) Using a snap ring expander, remove the snap ring.
(b) Remvoe the shaft from the differential tube.

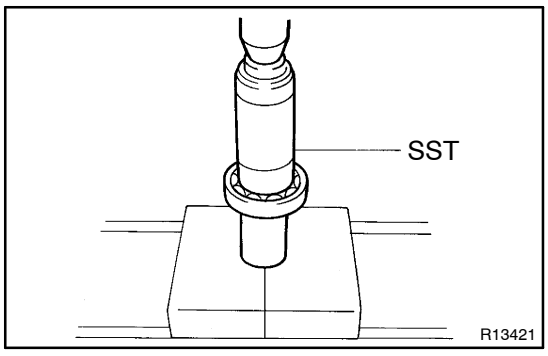


48. REMOVE FRONT DIFFERNTIAL SIDE GEAR SHAFT RH BEARING

(a) Using a snap ring expander, remove the snap ring.
(b) Using SST, a brass bar and press, remove the shaft RH bearing.
SST 09950–00020

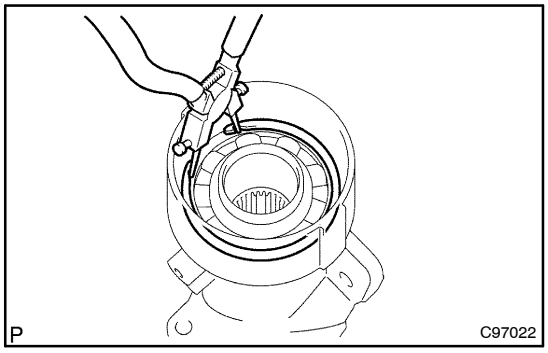
NOTICE:

Do not damage the bearing.



49. INSTALL FRONT DIFFERNTIAL SIDE GEAR SHAFT RH BEARING

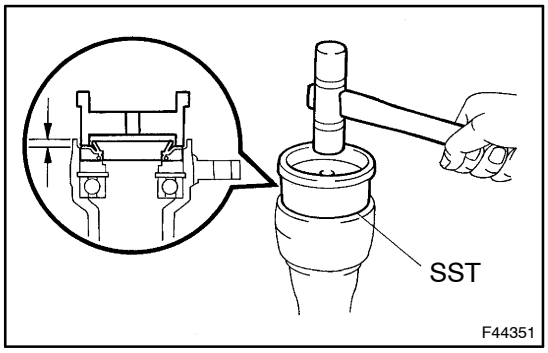
(a) Using SST and a press, install a new shaft RH bearing.
SST 09223–00010
(b) Using a snap ring expander, install the snap ring.



50. INSTALL DIFFERENTIAL SIDE GEAR SHAFT SUB–ASSY RH

(a) Install the shaft into the differential tube.

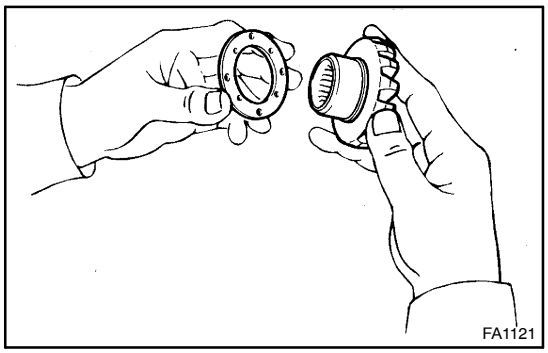
(b) Using needle nose pliers, install the snap ring.



51. INSTALL DIFFERENTIAL SIDE GEAR SHAFT OIL SEAL

(a) Using SST and plastic hammer, install a new oil seal.
SST 09223–15020
Oil seal drive in depth:
5.3 ± 0.3 mm (0.209 ± 0.0118 in.)

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



52. INSTALL FRONT DIFFERENTIAL CASE

(a) Install the 2 proper thrust washers on the 2 side gears.

HINT:

Using the table below, select 2 thrust washers which will ensure that the backlash is within the specifications.

Washer thickness

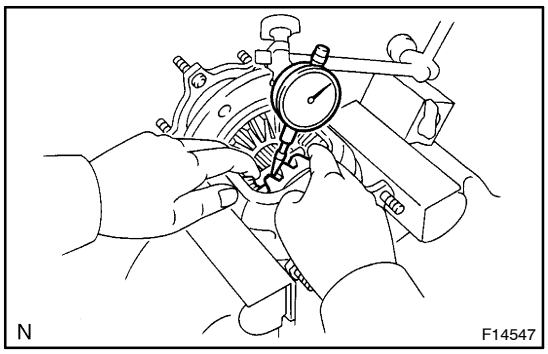
Tickness mm (in.)	Thickness mm (in.)
1.48 – 1.52 (0.0583 – 0.0598)	1.73 – 1.77 (0.0681 – 0.0697)
1.53 – 1.57 (0.0602 – 0.0618)	1.78 –1.82 (0.0701 – 0.0717)
1.58 – 1.62 (0.0622 – 0.0638)	1.83 – 1.87 (0.0720 – 0.0736)
1.63 – 1.67 (0.0642 – 0.0657)	1.88 –1.92 (0.0740 – 0.0756)
1.68 – 1.72 (0.0661 – 0.0677)	–

(b) Install the 2 side gears, 2 pinion gears, 2 side gear thrust washers, 2 pinion gears, 2 pinion thrust washers and pinion shaft in the differential case assy.

HINT:

Align the holes of the differential case and pinion shaft.

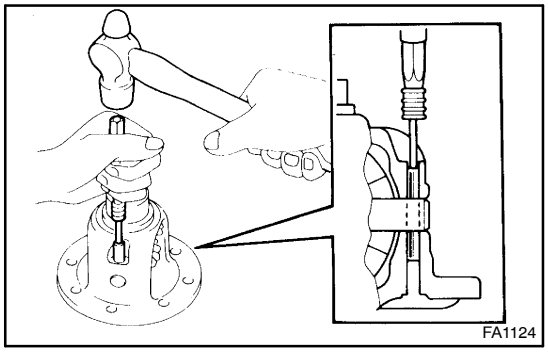
(c) Measure the side gear backlash.



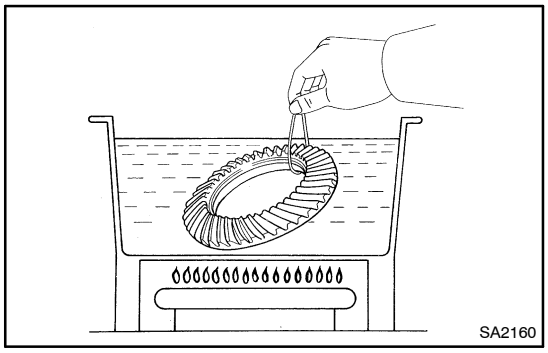
(1) Using a dial indicator, measure the side gear backlash with holding one pinion gear toward th edifferential case.

Backlash: 0 – 0.15 mm (0 – 0.00591 in.)

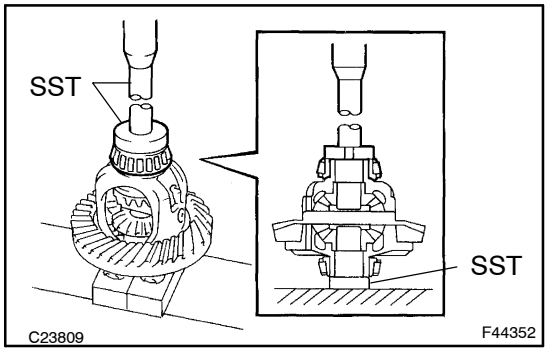
If the backlash is not within the specification, install 2 side gear shrust washers with different thicknesses.


FA1124

(d) Using a pin punch and hammer, install the straight pin through the differential case and hole of the pinion shaft.
(e) Stake the differential case.

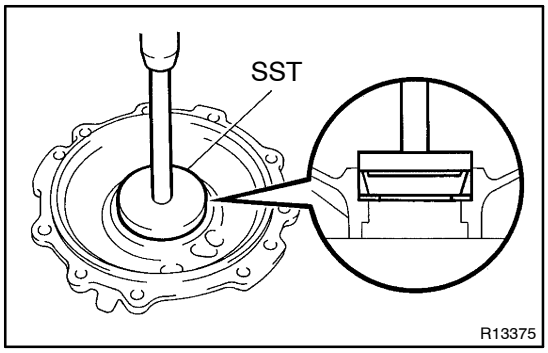

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53. INSTALL DIFFERENTIAL RING GEAR
(a) Clean the contact surfaces of the differential case and ring gear.
(b) Heat the ring gear to about 100°C (212°F) in boiling water.
(c) Carefully remove the ring gear from the boiling water.
(d) After the moisture on the ring gear has completely evaporated, quickly install the ring gear to teh differential case.
(e) Align the matchmarks on the ring gear and differential case.
(f) After the ring gear cools down enough, torque the set bolts to which thread lock has been applied.
Thead lock:
Part No. 08833–00100, THREE BOND 1360k or equivalent.
Torque: 97 N·m (985 kgf·cm, 71 ft·lbf)



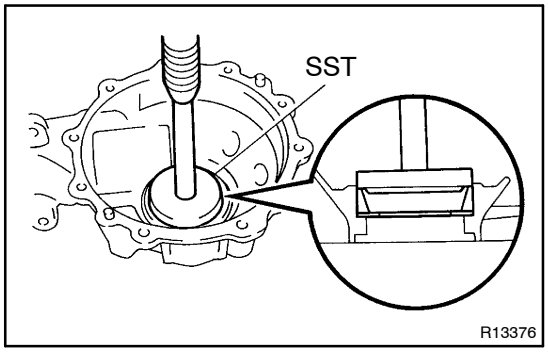
C23809 F44352

54. INSTALL FRONT DIFFERENTIAL CASE BEARING
(a) Using SST and a press, install the 2 case bearings (inner) into the differential case.
SST 09950–60010 (09951–00520, 09951–00610), 09950–70010 (09951–07150)

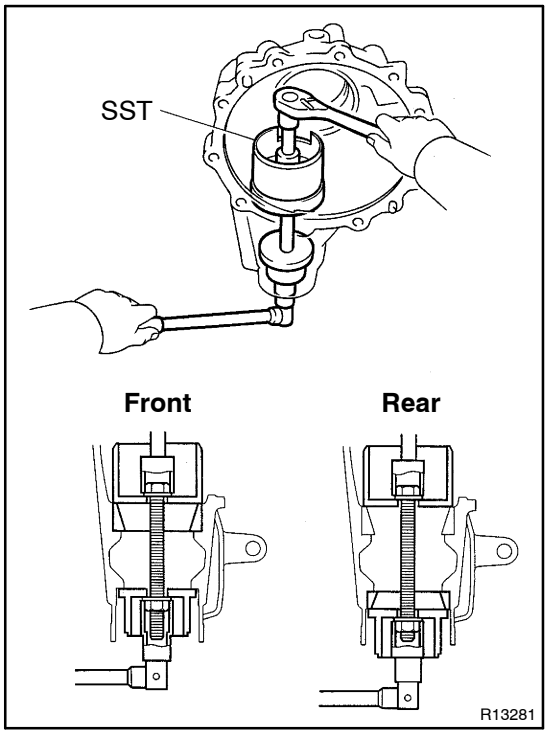


R13375

55. INSTALL FRONT DIFFERENTIAL CASE BEARING
HINT:
When replacing the 2 differential case bearings, fit the 2 thinnest washers to each bearing and when reusing the bearings, fit the washers with the same thckness as removed.
(a) Using SST and a press, install the case bearing (outer) outer race to the differential case bearing reatiner.
(RH side)
SST 09950–60020 (09951–00810), 09950–70010 (09951–07150)



(b) Install a new case washer to the side bearing retainer. (LH side)
SST 09950–60020 (09951–00810), 09950–70010 (09951–07150)

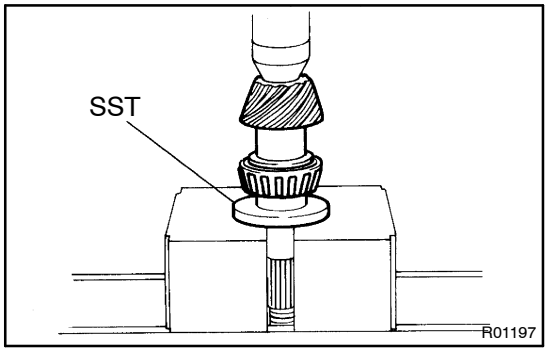


56. INSTALL BEARING OUTER RACE

(a) Using SST, install the tapered roller bearings (outer) FR.
SST 09950–00020 (09951–00890), 09950–00020 (09951–00680)

(b) Using a brass bar and a hammer, install the oil storage ring.

(c) Using SST, install the tapered roller bearings (outer) RR.
SST 09950–00020 (09951–00890), 09950–00020 (09951–00680)

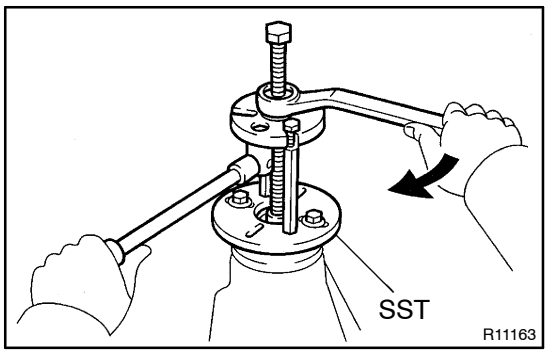


57. INSTALL FRONT DRIVE PINION FRONT TAPERED ROLLER BEARING

(a) Install the washer on the drive pinion.

HINT:
First fit a washer with the same thickness with the removed washer, then after checking the tooth contact pattern, replace the washer with one of a differnt thickness if necessary.

(b) Using SST and a press, install the front bearing onto the drive pinion.
SST 09506–30012



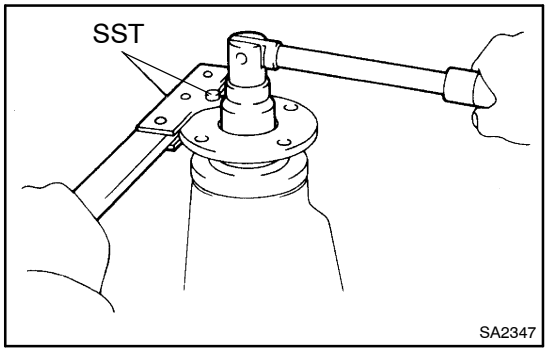
58. ADJUST DIFFERENTIAL DRIVE PINION PRELOAD

(a) Install the drive pinion and oil slinger.

HINT:
Assemble the spacer and oil seal after adjusting the ring gear tooth contact pattern.

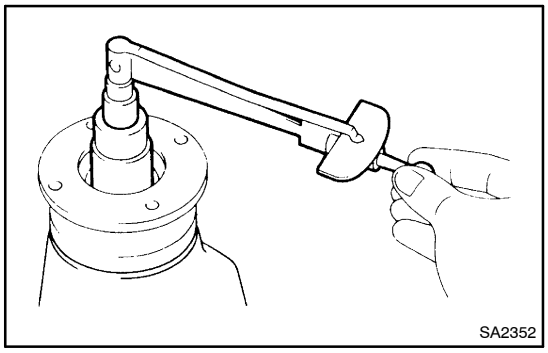
(b) Using SST, install the rear bearing, oil slinger and companion flange.
SST 09950–30012 (09951–03010, 09953–03010, 09954–03010, 09955–03030, 09956–03020),

(c) Coat the threads of the nut with hypoid gear oil.



(d) Adjust the drive pinion preload by tightening the companion flange nut.
Using SST to hold the flange, tighten the nut.
Torque: 370 N·m (3770 kgf·cm, ft·lbf) or less
SST 09330–00021 (09330–00030)

NOTICE:
As there is no spacer, tighten the nut a little at a time, being careful not to overtighten it.

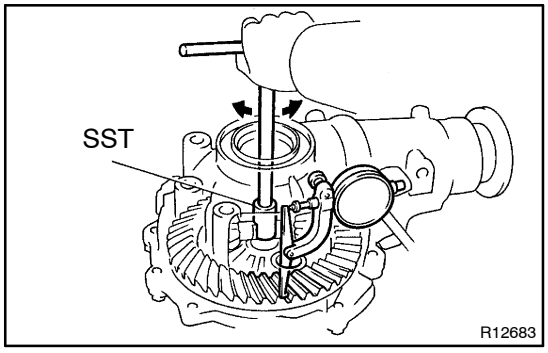


(e) Using a torque wrench, measure the preload.
Preroad (at starting)
New bearing:
0.98 – 1.57 N·m (1 – 16 kgf·cm, 8.7 – 13.9 in.·lbf)
Reused bearing:
0.49 – 0.78 N·m (5 – 8 kgf·cm, 4.3 – 6.9 in.·lbf)

59. INSTALL DIFFERENTIAL CASE ASSY

60. ADJUST BACKLASH DIFFERENTIAL RING GEAR AND DIFFERENTIAL DRIVE PINION

(a) Install the side bearing retainer with the 10 bolts.
Torque: 50 N·m (510 kgf·cm, 37 ft·lbf)

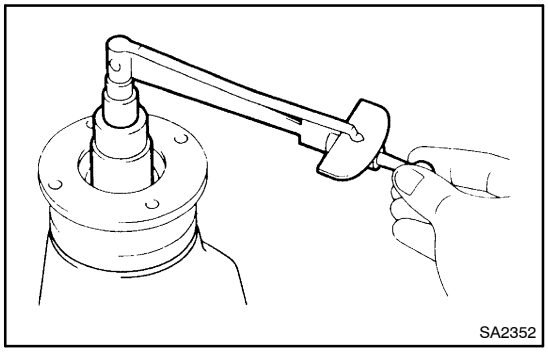


(b) Using SST and a dial indicator, measure the ring gear backlash.
SST 09564–32011
Backlash: 0.13 – 0.18 mm (0.0051 – 0.0071 in.)

(c) If it is not within the specification, adjust it by either in creasing or decreasing the washers on both sides by an equal amount.

HINT:
There should be no clearance between the plate washer and case.
Make shre that there is ring gear backlash.
Washer thickness:

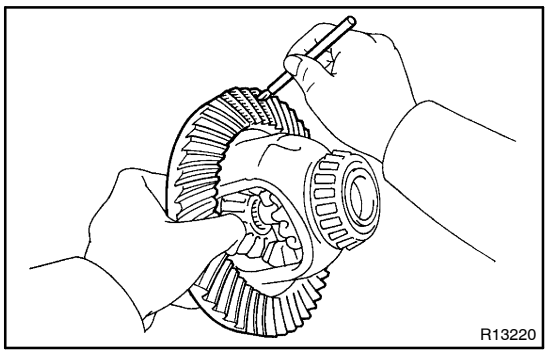
Thickness mm (in.)	Thickness mm (in.)	Thickness mm (in.)
1.59 – 1.61 (0.0626 – 0.0634)	1.89 – 1.91 (0.0744 – 0.0752)	2.19 – 2.21 (0.0862 – 0.0870)
1.62 – 1.64 (0.0638 – 0.0646)	1.92 – 1.94 (0.0756 – 0.0764)	2.22 – 2.24 (0.0874 – 0.0882)
1.65 – 1.67 (0.0650 – 0.0657)	1.95 – 1.97 (0.0768 – 0.0776)	2.25 – 2.27 (0.0886 – 0.0894)
1.68 – 1.70 (0.0661 – 0.0669)	1.98 – 2.00 (0.0780 – 0.0787)	2.28 – 2.30 (0.0898 – 0.0906)
1.71 – 1.73 (0.0673 – 0.0681)	2.01 – 2.03 (0.0791 – 0.0800)	2.31 – 2.33 (0.0909 – 0.0917)
1.74 – 1.76 (0.0685 – 0.0693)	2.04 – 2.06 (0.0803 – 0.0811)	2.34 – 2.36 (0.0921 – 0.0929)
1.77 – 1.79 (0.0697 – 0.0705)	2.07 – 2.09 (0.0815 – 0.0823)	2.37 – 2.39 (0.0933 – 0.0941)
1.80 – 1.82 (0.0709 – 0.0717)	2.10 – 2.12 (0.0827 – 0.0835)	2.40 – 2.42 (0.0945 – 0.0953)
1.83 – 1.85 (0.0720 – 0.0728)	2.13 – 2.15 (0.0839 – 0.0846)	2.43 – 2.45 (0.0957 – 0.0965)
1.86 – 1.88 (0.0732 – 0.0740)	2.16 – 2.18 (0.0850 – 0.0858)	2.46 – 2.48 (0.0969 – 0.0976)


SA2352

61. INSPECT TOTAL PRELOAD

(a) Using a torque wrench, measure the preload with the teeth of the drive pininon and ring gear in contact.

Total preload (at starting):
Drive pinion preload plus
0.25 – 0.45 N·m (2.5 – 4.6 kgf·cm, 2.2 – 4.0 in.·lbf)


R13220

62. ADJUST TOOTH CONTACT BETWEEN RING GEAR AND DRIVE PINION

(a) Remove the differential case bearing retainer and differential case.

(b) Coat 3 or 4 teeth ar the 3 different positions on the ring gear with red lead.

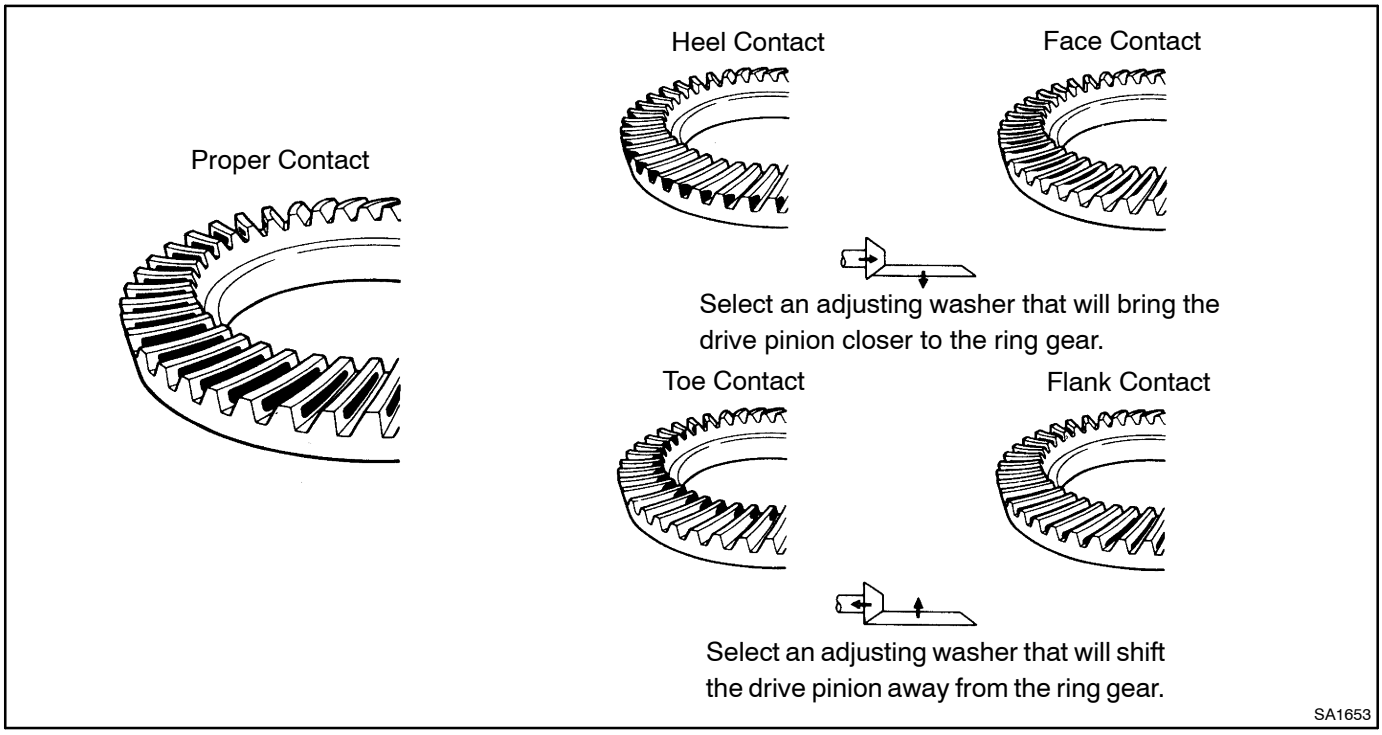
(c) Install the differential case and differential case bearing retainer.

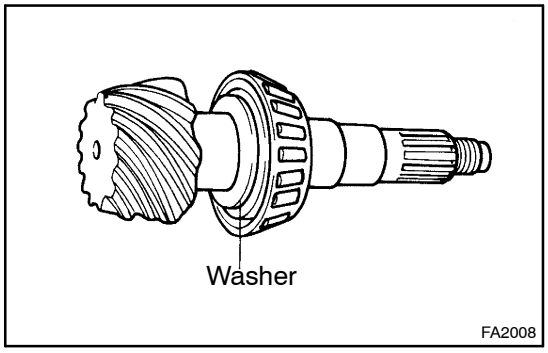
Torque: 50 N·m (510 kgf·cm, 37 ft·lbf)

(d) Hold the companion flange firmly and rotate the ring gear in both directions.

(e) Remove the differential case bearing retainer and differential case.

(f) Inspect the tooth contact pattern.





If the teeth are not contacting properly, use the following chart to select a proper washer for correction.

Wsher thickness

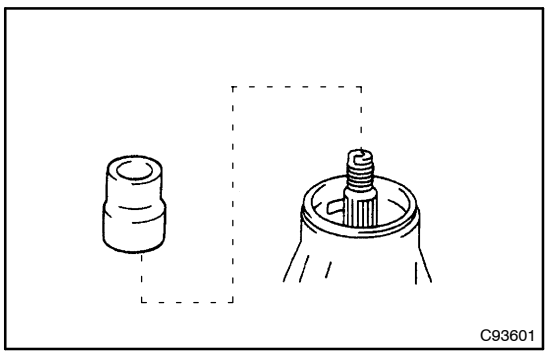
Thickness mm (in.)	Thickness mm (in.)	Thickness mm (in.)
1.69 – 1.71 (0.0665 – 0.0673)	1.93 – 1.95 (0.0760 – 0.0768)	2.17 – 2.19 (0.0854 – 0.0862)
1.72 – 1.74 (0.0677 – 0.0685)	1.96 – 1.98 (0.0772 – 0.0780)	2.20 – 2.22 (0.0866 – 0.0874)
1.75 – 1.77 (0.0689 – 0.0697)	1.99 – 2.01 (0.0783 – 0.0791)	2.23 – 2.25 (0.0878 – 0.0886)
1.78 – 1.80 (0.0701 – 0.0709)	2.02 – 2.04 (0.0795 – 0.0803)	2.26 – 2.28 (0.0890 – 0.0898)
1.81 – 1.83 (0.0713 – 0.0720)	2.05 – 2.07 (0.0807 – 0.0815)	2.29 – 2.31 (0.0902 – 0.0909)
1.84 – 1.86 (0.0724 – 0.0732)	2.08 – 2.10 (0.0819 – 0.0827)	2.32 – 2.34 (0.0913 – 0.0921)
1.87 – 1.89 (0.0736 – 0.0744)	2.11 – 2.13 (0.0831 – 0.0839)	–
1.90 – 1.92 (0.0748 – 0.0756)	2.14 – 2.16 (0.0843 – 0.0850)	–

63. REMOVE FRONT DRIVE PINION COMPANION FLANGE FRONT NUT
SST 09330–00021

64. REMOVE FRONT DRIVE PINION COMPANION FLANGE SUB–ASSYFRONT
SST 09950–30012 (09951–03010, 09953–03010, 09954–03010, 09955–03030, 09956–03020)

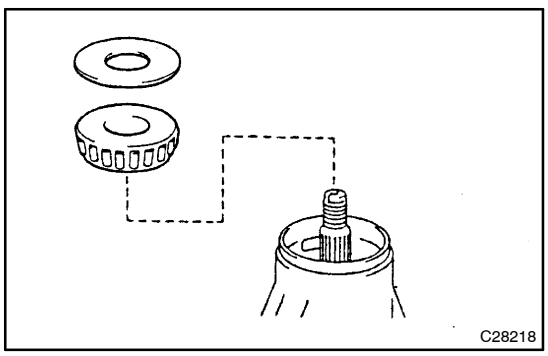
65. REMOVE FRONT DIFFERENTIAL DRIVE PINION OIL SLINGER

66. REMOVE FRONT DRIVE PINION REAR TAPERED ROLLER BEARING
SST 09556–22010



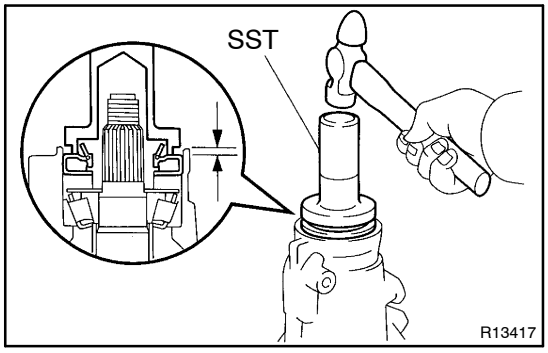
67. INSTALL FRONT DIFFERENTIAL DRIVE PINION BEARING SPACER

(a) Install a new bearing spacer to the drive pinion.



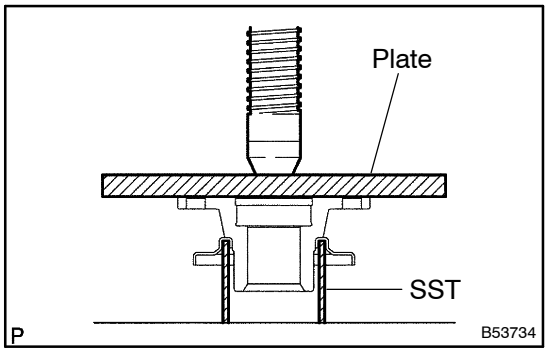
68. INSTALL FRONT DRIVE PINION REAR TAPERED ROLLER BEARING

69. INSTALL FRONT DIFFERENTIAL DRIVE PINION OIL SLINGER



70. INSTALL FRONT DIFFERENTIAL CARRIER OIL SEAL

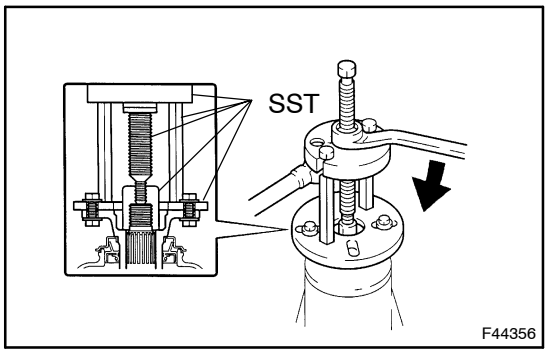
(a) Using SST and a hammer, install the oil seal.
SST 09554–22010
Oil seal drive in depth:
4.35 ± 0.45 mm (0.1713 ± 0.0177 in.)



71. INSTALL FRONT DIFFERENTIAL DUST DEFLECTOR

(a) Using a steel plate and a press, install a new dust deflector.

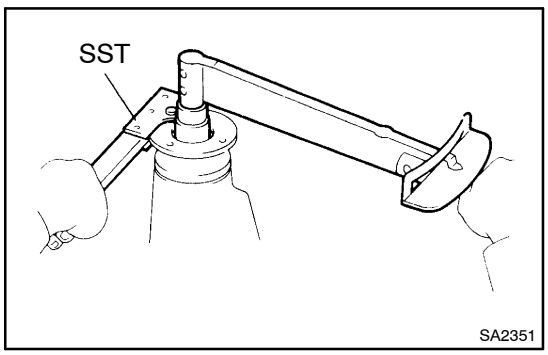
NOTICE:
Do not damage the dust deflector.



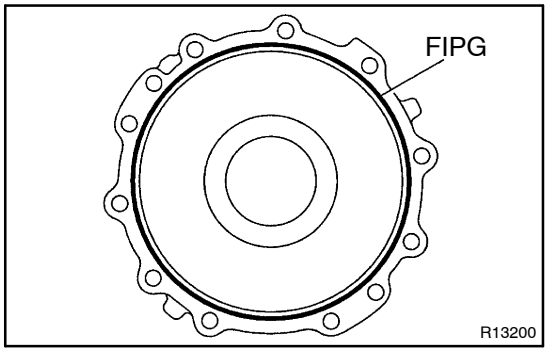
72. INSTALL FRONT DRIVE PINION COMPANION FLANGE SUB–ASSYFRONT

(a) Place the companion drive pinion companion flange on the drive pinion.

(b) Coat the threads of a new nut with hypoid gear oil.
SST 09950–30012 (09951–03010, 09953–03010, 09954–03010, 09955–03030, 09956–03020),



(c) Using SST to hold the drive pinion companion flange, torque the nut.
SST 09330–00021 (09330–00030)
Torque: 370 N·m (3,770 kgf·cm, 37 ft·lbf) or less



73. INSTALL DIFFERENTIAL SIDE BEARING RETAINER

(a) Remove any old FIPG material and be not to dorp oil on the contact surfaces of the differential carrier and side bearing retainer.

(b) Clear contacting surfaces of any residual FIPG material using gasoline or alcohol.

(c) Apply FIPG tothe side bearing retainer, as shown.

FIPG:

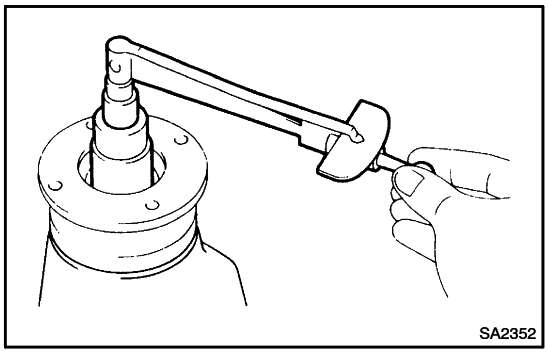
Part No. 08826–00090, THREE BOND 1281 or equivalent

HINT:

Install the bearing retainer within 10 minutes after applying FIPG.

(d) install the side bearing retainer with the 10 bolts.

Torque: 50 N·m (510 kgf·cm, 37 ft·lbf)



74. INSPECT DRIVE PINION PRELOAD

(a) Using a torque wrench, measure the preload of the backlash between the drive pinion and ring gear.

Preroad (at starting)

New bearing:

0.98 – 1.57 N·m (10 – 16 kgf·cm, 8.7 – 13.9 in.·lbf)

Reused bearing:

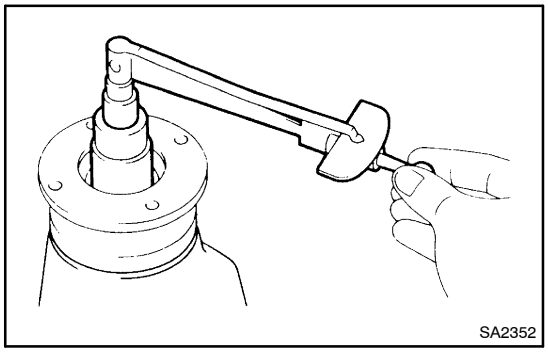
0.49 – 0.78 N·m (5 – 8 kgf·cm, 4.3 – 6.9 in.·lbf)

If the preload is greater than the specification, replace the bearing spacer.

If the preload is less than the specification, retighten the nut 13 N·m (130 kgf·cm, 9 ft·lbf) a little at a time until the specified preload is reached.

Torque: 370 N·m (3,770 kgf·cm, 272 ft·lbf) or less

If the maximum torque is exceeded while retightening the nut, replace the bearing spacer and repear the preload procedure. Do not back off the nut to reduce the preload.



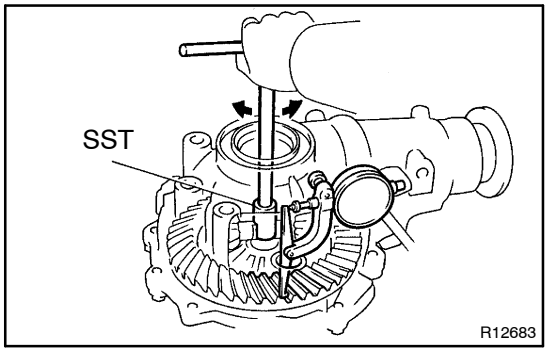
75. INSPECT TOTAL PRELOAD

(a) Using a torque wrench, measure the preload with the teeth of the drive pinion and ring gear in contact.

Total preload (at starting):

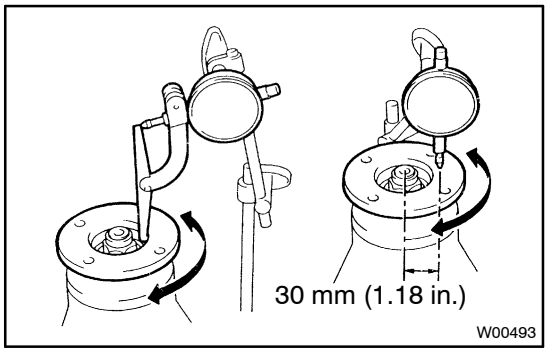
Drive pinion preload plus 0.25 – 0.45 N·m (3 – 5 kgf·cm, 2.2 – 4.0 in.·lbf)

If necessary, disassemble and inspect the differential.



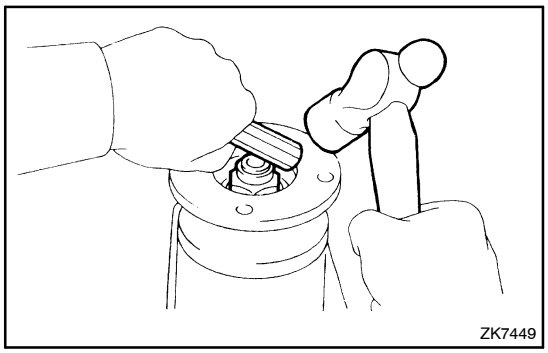
76. INSPECT BACKLASH DIFFERENTIAL RING GEAR AND DIFFERENTIAL DRIVE PINION

(a) Using SST and a dial indicator, measure the ring gear backlash.
SST 09564–32011
Backlash: 0.13 – 0.18 mm (0.0051 – 0.0071 in.)



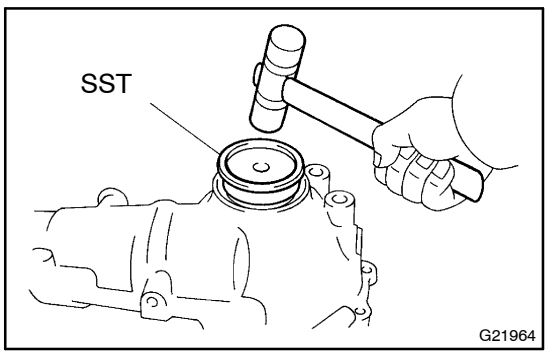
77. INSPECT FRONT DRIVE PINION COMPANION FLANGE SUB–ASSYFRONT

(a) Using a dial indicator, measure the runout of the companion flange vertically and horizontally.
Maximum runout:
Vertical runout: 0.10 mm (0.0039 in.)
Lateral runout: 0.10mm (0.0039 in.)



78. INSTALL FRONT DRIVE PINION COMPANION FLANGE FRONT NUT

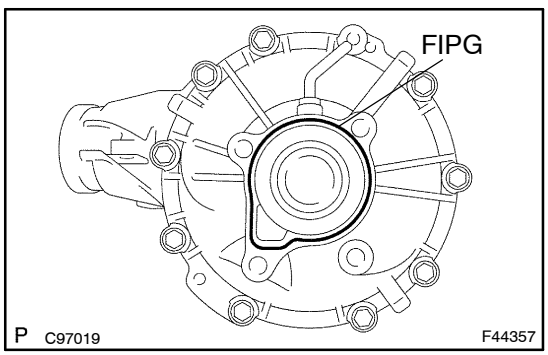
(a) Using a chisel and hammer, stake the drive pinion nut.



79. INSTALL DIFFERENTIAL SIDE GEAR SHAFT OIL SEAL

(a) Using SST and a plastic hammer, install a new oil seal until its surface is flush with the differential carrier end.
SST 09608–32010

(b) Coat the oil seal lip with MP grease.
Oil seal drive in depth: 0 ± 0.30 mm (0 ± 0.0118 in.)



80. INSTALL FRONT DIFFERENTIAL TUBE ASSY

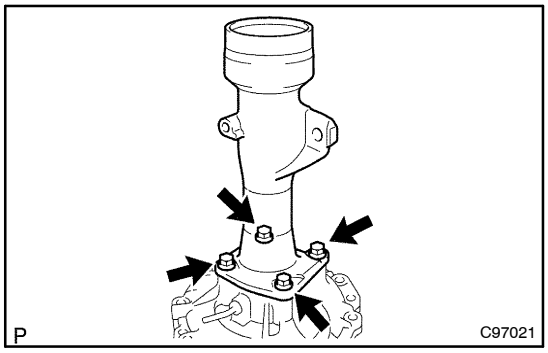
(a) Remove the any oil FIPG material and be careful not to drop oil on the contact surfaces of the differential and clutch case.

(b) Clean contcting surfaces of any residual FIPG material using gasoline or alcohl.

(c) Apply FIPG to the differential, as shown.
FIPG: Part No. 08826–00090, THREE BOND 1281 or equivalent

HINT:
Install the differential tube within 10 minutes after applying FIPG.

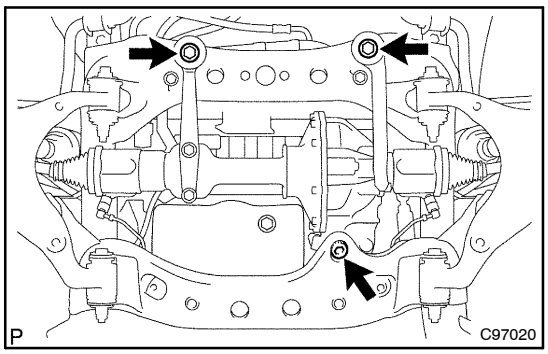
(d) Install the differential tube to the differential.



(e) Clean the threads of the 4 bolts and retainer bolt holes with toluene or trichloroethylene.

(f) Apply adhesive to 2 to 3 threads of the bolts end.
Adhesive: Part No. 08833–00070, THREE BOND 1281 or equivalent

(g) Install teh 4 bolts.
Torque: 110 N·m (1,120 kgf·cm, 81 ft·lbf)



81. INSTALL DIFFERENTIAL CARRIER ASSY FRONT

(a) Install the No.1 mounting support with the 3 bolts.
Torque: 186 N·m (1,900 kgf·cm, 137 ft·lbf)

(b) Install the No.2 mounting support with the 2 bolts.
Torque: 160 N·m (1,630 kgf·cm, 118 ft·lbf)

(c) Install the front differential support No.3 with the 2 bolts.
Torque: 108 N·m (1,100 kgf·cm, 80 ft·lbf)

(d) Support the front differential with a jack.

(e) Install the 2 front mounting bolts and nuts.
Torque: 137 N·m (1,400 kgf·cm, 101 ft·lbf)

(f) Install the front differential mount nuts No.1.
Torque: 87 N·m (887 kgf·cm, 64 ft·lbf)

(g) Install the front differential breather tube bracket with a bolt.
Torque: 13 N·m (133 kgf·cm, 10 ft·lbf)

(h) Lower the jack.

82. INSTALL FRONT DRIVE SHAFT ASSY LH (See page 30–4)

83. INSTALL FRONT DRIVE SHAFT ASSY RH

HINT:
Install the RH side by the same procedures with the LH side.

84. INSTALL FRONT AXLE ASSY LH (See page 30–30)

85. INSTALL FRONT AXLE ASSY RH

HINT:
Install the RH side by the same procedures with the LH side.

86. INSTALL FRONT SUSPENSION ARM SUB–ASSY LOWER NO.1 LH (See page 26–23)

87. INSTALL FRONT SUSPENSION ARM SUB–ASSY LOWER NO.1 RH

HINT:
Install the RH side by the same procedures with the LH side.

88. INSTALL TIE ROD END SUB–ASSY LH (See page 51–42)
89. INSTALL TIE ROD END SUB–ASSY RH
HINT:
Install the RH side by the same procedures with the LH side.
90. INSTALL FRONT STABILIZER LINK ASSY LH (See page 26–28)
91. INSTALL FRONT STABILIZER LINK ASSY RH
HINT:
Install the RH side by the same procedures with the LH side.
92. INSTALL FRONT AXLE HUB LH NUT (See page 30–30)
93. INSTALL FRONT AXLE HUB RH NUT
HINT:
Install the RH side by the same procedures with the LH side.
94. INSPECT BEARING BACKLASH (See page 30–2)
95. INSPECT AXLE HUB DEVIATION (See page 30–2)
96. INSTALL FRONT AXLE HUB GREASE CAP LH (See page 30–30)
97. INSTALL FRONT AXLE HUB GREASE CAP RH
HINT:
Install the RH side by the same procedures with the LH side.
98. INSTALL SPEED SENSOR FRONT LH (See page 32–86)
99. INSTALL SPEED SENSOR FRONT RH
HINT:
Install the RH side by the same procedures with the LH side.
100. INSTALL PROPELLER SHAFT ASSY FRONT (See page 30–4)
101. REFILL DIFFERENTIAL OIL (See page 29–3)
102. INSPECT AND ADJUST DIFFERENTIAL OIL (See page 29–3)
103. INSTALL ENGINE UNDER COVER ASSY REAR
Torque:29 N·m (296 kgf·cm, 21 ft·lbf)
104. INSTALL ENGINE UNDER COVER SUB–ASSY NO.1
Torque:29 N·m (296 kgf·cm, 21 ft·lbf)
105. INSTALL FRONT WHEELS
Torque:112 N·m (1,140 kgf·cm, 83 ft·lbf)
106. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See page 26–6)
107. CHECK ABS SPEED SENSOR SIGNAL (See page 05–671)