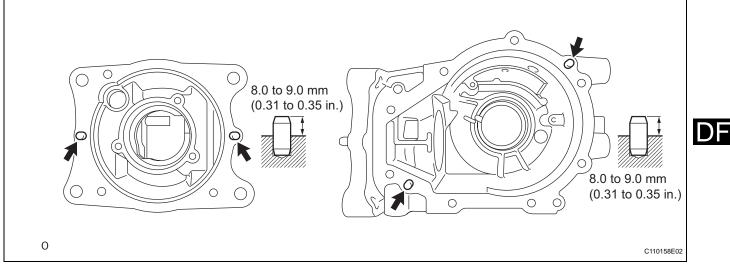
REASSEMBLY

- 1. INSTALL WIRING HARNESS CLAMP BRACKET (a) Install the bracket with the bolt.
- 2. INSTALL ELBOW TUBE
- 3. INSTALL STRAIGHT PIN



- (a) Using a plastic hammer, install the 4 straight pins to the rear differential carrier.
- (b) Thoroughly clean oil and water from the surface of the rear differential case that will face the differential ring gear.

4. INSTALL DIFFERENTIAL BREATHER PLUG OIL DEFLECTOR

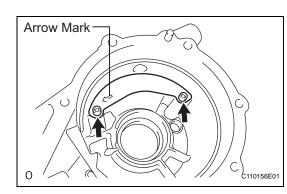
(a) Using a 5 mm socket hexagon wrench, install the rear differential breather plug oil deflector with the 2 bolts.

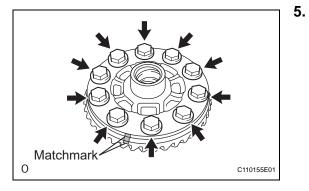
Torque: 5.0 N*m (51 kgf*cm, 44 in.*lbf) NOTICE:

Install it so that the arrow mark faces the front (transmission coupling side) of the vehicle.

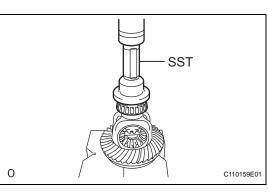
INSTALL DIFFERENTIAL RING GEAR

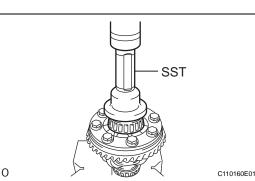
- (a) Align the matchmarks on the rear differential case and differential ring gear, and install the differential ring gear.
- (b) Install 10 new differential case bolts.
 Torque: 90 N*m (918 kgf*cm, 66 ft.*lbf) NOTICE:
 - The new bolts are coated with heat resistant oil. Do not wash it off.
 - Install the rear differential case bolts by tightening diametrically opposite bolts uniformly in several passes.

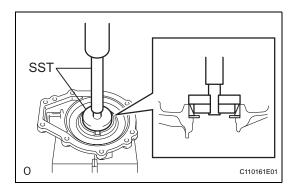


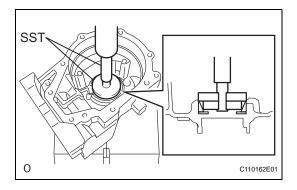


6.









INSTALL DIFFERENTIAL CASE BEARING

(a) Using SST and a press, press-fit the rear differential case bearing RH (inner race) to the rear differential case.

SST 09223-50010 NOTICE:

If the rear differential case bearing inner race is damaged, replace it with a new one.

(b) Using SST and a press, press-fit the rear differential case bearing LH (inner race) to the rear differential case.

SST 09223-50010 NOTICE:

If the rear differential case bearing inner race is damaged, replace it with a new one.

7. INSTALL DIFFERENTIAL CASE BEARING

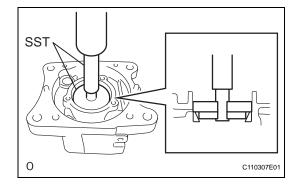
- (a) Using SST and a press, press-fit the rear differential side gear shaft washer and rear differential case bearing LH (outer race) to the differential side bearing retainer.
 - SST 09950-60010 (09951-00510, 09951-00620, 09952-06010), 09950-70010 (09951-07150) NOTICE:
 - Install each rear differential side gear shaft washer to the place it was removed from.
 - When replacing a bearing, replace the inner and outer races as a set.
 - Install the rear differential side gear shaft oil seal after performing the teeth contact inspection and backlash adjustment.
- (b) Using SST and a press, press-fit the rear differential side gear shaft washer and rear differential case bearing RH (outer race) to the rear differential carrier.

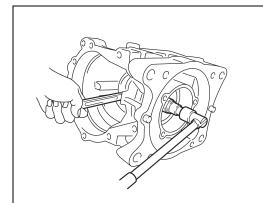
SST 09950-60010 (09951-00510, 09951-00620, 09952-06010), 09950-70010 (09951-07150) NOTICE:

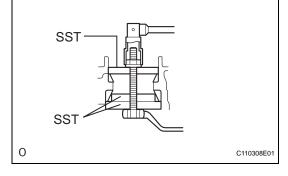
- Install each rear differential side gear shaft washer to the place it was removed from.
- When replacing a bearing, replace the inner and outer races as a set.
- Install the rear differential side gear shaft oil seal after performing the teeth contact inspection and backlash adjustment.

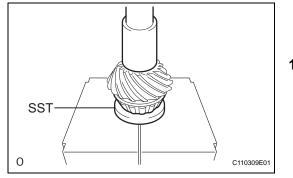
8.











INSTALL REAR DRIVE PINION FRONT TAPERED ROLLER BEARING

- (a) Using SST and a press, press-fit the rear drive pinion tapered roller bearing front (outer race) to the rear differential carrier.
 - SST 09950-60010 (09951-00550), 09950-60020 (09951-00680), 09950-70010 (09951-07100)

9. INSTALL REAR DRIVE PINION REAR TAPERED ROLLER BEARING

- (a) Using SST, bolts, nuts and washers, install the rear drive pinion tapered roller bearing rear (outer race) to the rear differential carrier.
 - SST 09950-60010 (09951-00600), 09950-60020 (09951-00680, 09951-00750)

HINT:

Use M12 x P1.25 bolts with shaft lengths of 186 mm (part No. 90101-12159) and M12 x P1.25 nuts (part No. 90179-12051) for the installation.

- 10. INSTALL REAR DRIVE PINION REAR TAPERED ROLLER BEARING
 - (a) Install the rear differential drive pinion washer to the differential drive pinion.

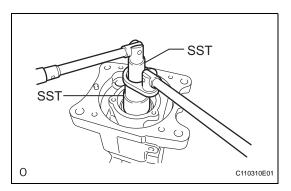
NOTICE:

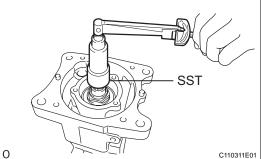
Install each rear differential drive pinion washer to the place it was removed from.

(b) Using SST and a press, press-fit the tapered roller rear (inner race) to the differential drive pinion.
 SST 09506-30012

11. ADJUST DIFFERENTIAL DRIVE PINION PRELOAD

- (a) Install the differential drive pinion (with rear drive pinion tapered roller bearing rear inner race) to the rear differential carrier.
- (b) Install the rear drive pinion tapered roller bearing front inner race and a new rear drive pinion nut to the differential drive pinion. **NOTICE:**
 - New bearings are coated with anti-rust oil. If using new bearings, do not wash it off.
 - If reusing a bearing, coat it with hypoid gear oil SX.





(c) Using SST, tighten a new rear drive pinion nut a little at a time until the specified preload is reached. Do not exceed the torque limit shown below.

SST 09556-16011, 09564-16020

Torque: 245 N*m (2,500 kgf*cm, 181 ft.*lbf) for use without SST 223 N*m (2,273 kgf*cm, 164 in.*lbf) for use with SST

HINT:

Use a torgue wrench with a fulcrum length of 30 cm (11.81 in.)

(d) Using SST and a torque wrench, measure the starting torque of the differential drive pinion. SST 09556-16011

Standard drive pinion preload (start torque)

Bearing	Preload
New bearing	1.31 to 2.18 N*m (13 to 22 kgf*cm, 12 to 19 in.*lbf)
Reused bearing	0.24 to 0.37 N*m (2 to 4 kgf*cm, 2 to 3 in.*lbf)

NOTICE:

- For a more accurate measurement, rotate the bearing forward and backward before inspecting.
- Record the preload measurement for use with the total preload inspection.

12. INSTALL DIFFERENTIAL CASE

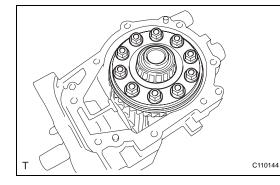
(a) Install the rear differential case to the rear differential carrier.

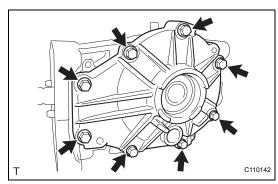
13. INSTALL DIFFERENTIAL SIDE BEARING RETAINER

(a) Using a scraper and wire brush, clean the seal packing from the rear differential carrier and differential side bearing retainer. NOTICE:

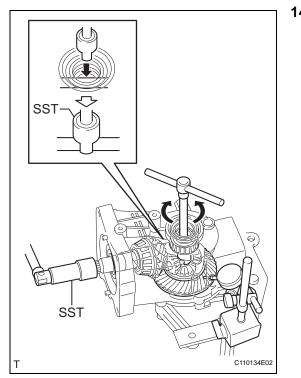
Do not scratch the installation area.

(b) Install the differential side bearing retainer to the rear differential carrier with the 8 bolts. Torque: 34 N*m (350 kgf*cm, 25 ft.*lbf)









14. ADJUST DIFFERENTIAL RING GEAR BACKLASH

- (a) Insert a dial gauge through the rear differential carrier cover plug hole, and set it perpendicular to the ring gear tooth surface's tip.
- (b) Using SST, fix the drive pinion in place. **SST 09556-16011**
- Using SST, rotate the rear differential case forward and backward, and measure the backlash.
 SST 09564-16020
 NOTICE:

Measure at 3 or more areas around the circumference of the ring gear.

- (d) If the result is not within the specified range, select washers that are thicker or thinner as necessary, where the thickness for the left and right side is the same. Then perform the rear differential case bearing outer race installation.
 HINT:
 - If the backlash is small, select a thick washer for the RH side and a thin washer for the LH side.
 - If the backlash is large, select a thin washer for the RH side and a thick washer for the LH side.

Part No.	Thickness mm (in.)	Identifying Mark	Part No.	Thickness mm (in.)	Identifying Mark
90564-37022	1.59 to 1.61 (0.0625 to 0.0633)	A0	90564-37040	2.13 to 2.15 (0.0839 to 0.0846)	B8
90564-37023	1.62 to 1.64 (0.0637 to 0.0649)	A1	90564-37041	2.16 to 2.18 (0.0850 to 0.0858)	B9
90564-37024	1.65 to 1.67 (0.0650 to 0.0657)	A2	90564-37042	2.19 to 2.21 (0.0862 to 0.0870)	C0
90564-37025	1.68 to 1.70 (0.0661 to 0.0669)	A3	90564-37043	2.22 to 2.24 (0.0874 to 0.0882)	C1
90564-37026	1.71 to 1.73 (0.0673 to 0.0681)	A4	90564-37044	2.25 to 2.27 (0.0886 to 0.0894)	C2
90564-37027	1.74 to 1.76 (0.0685 to 0.0693)	A5	90564-37045	2.28 to 2.30 (0.0898 to 0.0906)	C3
90564-37028	1.77 to 1.79 (0.0697 to 0.0705)	A6	90564-37046	2.31 to 2.33 (0.0909 to 0.0917)	C4
90564-37029	1.80 to 1.82 (0.0709 to 0.0717)	A7	90564-37047	2.34 to 2.36 (0.0921 to 0.0929)	C5
90564-37030	1.83 to 1.85 (0.0720 to 0.0728)	A8	90564-37048	2.37 to 2.39 (0.0930 to 0.0941)	C6
90564-37031	1.86 to 1.88 (0.0732 to 0.0740)	A9	90564-37049	2.40 to 2.42 (0.0945 to 0.0953)	C7
90564-37032	1.89 to 1.91 (0.0744 to 0.0752)	В0	90564-37050	2.43 to 2.45 (0.0957 to 0.0965)	C8
90564-37033	1.92 to 1.94 (0.0756 to 0.0764)	B1	90564-37051	2.46 to 2.48 (0.0969 to 0.0976)	C9
90564-37034	1.95 to 1.97 (0.0768 to 0.0776)	B2	90564-37052	2.49 to 2.51 (0.0980 to 0.0988)	D0
90564-37035	1.98 to 2.00 (0.0780 to 0.0787)	В3	90564-37053	2.52 to 2.54 (0.0992 to 0.1000)	D1
90564-37036	2.02 to 2.04 (0.0795 to 0.0803)	В4	90564-37054	2.55 to 2.57 (0.1004 to 0.1012)	D2
90564-37037	2.04 to 2.06 (0.0803 to 0.0811)	В5	90564-37055	2.58 to 2.60 (0.1016 to 0.1024)	D3

Rear differential side gear shaft washer

Part No.	Thickness mm (in.)	Identifying Mark	Part No.	Thickness mm (in.)	Identifying Mark
90564-37038	2.07 to 2.09 (0.0815 to 823)	B6	90564-37056	2.61 to 2.63 (1.1028 to 0.1035)	D4
90564-37039	2.10 to 2.12 (0.0827 to 0.0835)	B7	90564-37057	2.64 to 2.66 (0.1039 to 0.1047)	D5
	to 0.0835)	ANI	D DRIVE PINION Remove the 8 bor retainer from the Remove the read Uniformly apply a sides of the diffe Install the rear di Temporarily insta retainer to the di Rotate the different Remove the 8 bor bearing retainer Check the tooth	DNTACT BETWE olts and differentia rear differential c r differential carrie a light coat of prus rential ring gear te	al side bearing arrier. er case. ssian blue on bo eeth. side bearing vith the 8 bolts. several times. rential side al carrier. the differential
	Proper Contact		Heel Contact	Fa	
	Sel	ect an adjusting was	sher that will bring t Toe Contact		Contact
	Sele	ect an adjusting was	sher that will shift th		- MA
1					

Check the tooth contact pattern at 2 or more positions around circumference of the differential ring gear.

- (i) Perform the following procedures for face or flank contact.
 - (1) Select washers that are thicker or thinner as necessary, where the thickness for the left and right side is the same. Then install the rear differential case bearing outer race.(*1)

(2) Repeat the differential ring gear and differential drive pinion tooth contact pattern inspection. HINT:

If the tooth contact pattern is not correct, repeat*1.

(3) Repeat the differential ring gear and differential drive pinion backlash inspection.
 HINT:
 If the differential ring gear and differential drive

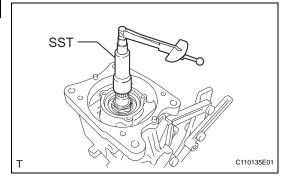
if the differential ring gear and differential drive pinion backlash is not as specified, replace the differential ring gear and differential drive pinion with new ones.

- (j) Perform the following procedures for heel or toe contact.
 - (1) Select a drive pinion washer again and perform the rear drive pinion tapered roller bearing rear installation.

Part No. Thickness (mm) **Identifying Mark** Part No. Thickness (mm) **Identifying Mark** 90564-35041 90564-35071 1.695 to 1.705 41 1.955 to 1.965 71 (0.0667 to 0.0671) (0.0770 to 0.0774) 90564-35042 72 1.705 to 1.715 42 90564-35072 1.965 to 1.975 (0.0671 to 0.0675) (0.0774 to 0.0778) 90564-35043 1.715 to 1.725 43 90564-35073 1.975 to 1.985 73 (0.0675 to 0.0679) (0.0778 to 0.0781) 90564-35044 44 74 1.725 to 1.735 90564-35074 1.985 to 1.995 (0.0679 to 0.0683) (0.0781 to 0.0785) 90564-35045 1.735 to 1.745 45 90564-35075 1.995 to 2.005 75 (0.0785 to 0.0789) (0.0683 to 0.0687) 90564-35046 1.745 to 1.755 90564-35076 46 2.005 to 2.015 76 (0.0687 to 0.0690) (0.0789 to 0.0793) 90564-35047 1.755 to 1.765 47 90564-35077 2.015 to 2.025 77 (0.0690 to 0.0695) (0.0793 to 0.0797) 90564-35048 1.765 to 1.775 48 90564-35078 2.025 to 2.035 78 (0.0695 to 0.0699) (0.0797 to 0.0801) 90564-35049 1.775 to 1.785 49 90564-35079 2.035 to 2.045 79 (0.0699 to 0.0703) (0.0801 to 0.0805) 90564-35050 1.785 to 1.795 90564-35080 2.045 to 2.055 80 50 (0.0703 to 0.0707) (0.0805 to 0.0809) 90564-35051 1.795 to 1.805 51 90564-35081 2.055 to 2.065 81 (0.0707 to 0.0711) (0.0809 to 0.0813) 90564-35052 1.805 to 1.815 52 90564-35082 2.065 to 2.075 82 (0.0707 to 0.0715) (0.0813 to 0.0817) 90564-35053 53 90564-35083 83 1.815 to 1.825 2.075 to 2.085 (0.0715 to 0.0719) (0.0817 to 0.0821) 90564-35054 1.825 to 1.835 54 90564-35084 2.085 to 2.095 84 (0.0719 to 0.0720) (0.0821 to 0.0825) 90564-35055 55 2.095 to 2.105 85 1.835 to 1.845 90564-35085 (0.0719 to 0.0726) (0.0825 to 0.0829) 90564-35056 1.845 to 1.855 56 90564-35086 2.105 to 2.115 86 (0.0726 to 0.0730) (0.0829 to 0.0833) 90564-35057 1.855 to 1.865 57 90564-35087 87 2.115 to 2.125 (0.0730 to 0.0734) (0.0833 to 0.0837) 90564-35058 1.865 to 1.875 58 90564-35088 2.125 to 2.135 88 (0.0734 to 0.0738) (0.0837 to 0.0841) 90564-35059 1.875 to 1.885 59 90564-35089 2.135 to 2.145 89 (0.0734 to 0.0742) (0.0841 to 0.0844)

Rear differential drive pinion washer

Part No.	Thickness (mm)	Identifying Mark	Part No.	Thickness (mm)	Identifying Mark
90564-35060	1.885 to 1.895 (0.0742 to 0.0746)	60	90564-35090	2.145 to 2.155 (0.0844 to 0.0848)	90
90564-35061	1.895 to 1.905 (0.0746 to 0.0750)	61	90564-35091	2.155 to 2.165 (0.0848 to 0.0852)	91
90564-35062	1.905 to 1.915 (0.0750 to 0.0754)	62	90564-35092	2.165 to 2.175 (0.0852 to 0.0856)	92
90564-35063	1.915 to 1.925 (0.0754 to 0.0758)	63	90564-35093	2.175 to 2.185 (0.0856 to 0.0860)	93
90564-35064	1.925 to 1.935 (0.0758 to 0.0762	64	90564-35094	2.185 to 2.195 (0.0860 to 0.0864)	94
90564-35065	1.935 to 1.945 (0.0762 to 0.0766)	65	90564-35095	2.195 to 2.205 (0.0864 to 0.0868)	95
90564-35070	1.945 to 1.955 (0.0766 to 0.0770)	70	-	-	-



16. INSPECT TOTAL PRELOAD

(a) Using SST and a torque wrench, measure the starting torque with the teeth of the differential drive pinion and differential ring gear in contact.
 SST 09556-16011

Standard total preload: Standard drive pinion preload plus

Bearing	Preload
New bearing	1.18 to 1.63 N*m (12 to 17 kgf*cm, 10 to 14 in.*lbf)
Reused bearing	0.99 to 1.63 N*m (10 to 17 kgf*cm, 9 to 14 in.*lbf)

NOTICE:

For a more accurate measurement, rotate the case bearing forward and backward before measuring.

- (b) If the results are not within the specification, perform the procedures below.
 - Select a side gear shaft washer for the RH side again, and then perform the rear differential case bearing outer race installation (RH side only).
 - (2) Repeat the total preload inspection.
 - (3) Repeat the ring gear backlash inspection.
 - (4) Repeat the differential ring gear and drive pinion tooth contact pattern inspection.

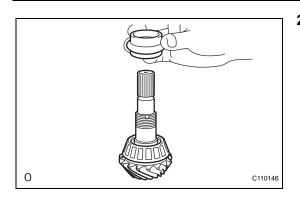
17. REMOVE DIFFERENTIAL SIDE BEARING RETAINER

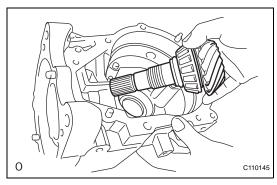
(a) Remove the 8 bolts and differential side bearing retainer from the rear differential carrier.

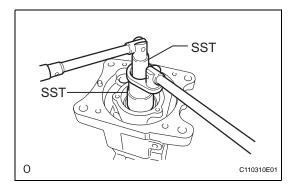
18. REMOVE DIFFERENTIAL CASE

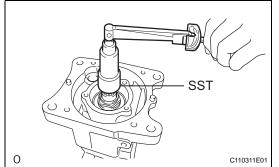
- (a) Remove the rear differential case from the rear differential carrier.
- **19. REMOVE DIFFERENTIAL DRIVE PINION**











20. INSTALL DIFFERENTIAL DRIVE PINION BEARING SPACER

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

21. INSTALL DIFFERENTIAL DRIVE PINION

(a) Install the differential drive pinion to the rear differential carrier.

22. INSTALL REAR DRIVE PINION NUT

- (a) Apply hypoid gear oil LSD to the threads of the rear drive pinion nut.
 - (b) Install a new rear drive pinion nut to the differential drive pinion. Using SST, tighten the nut while confirming the preload.

SST 09556-16011, 09564-16020 SST 09564-16020

Torque: 245 N*m (2,500 kgf*cm, 181 ft.*lbf) for use without SST 223 N*m (2,273 kgf*cm, 164 ft.*lbf) for use with SST

HINT:

Use a torque wrench with a fulcrum length of 30 cm (11.81 in.).

23. ADJUST DIFFERENTIAL DRIVE PINION PRELOAD

(a) Using SST and a torque wrench, inspect the starting torque.

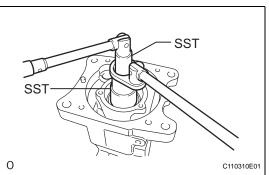
SST 09556-16011 Standard drive pinion preload

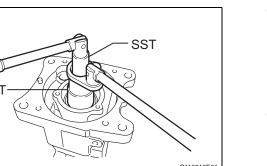
BearingPreloadNew bearing1.31 to 2.18 N*m (13 to 22 kgf*cm, 12
to 19 in.*lbf)Reused bearing0.24 to 0.37 N*m (2 to 4 kgf*cm, 2 to 3
in.*lbf)

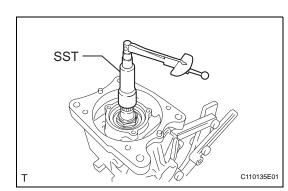
NOTICE:

- For a more accurate measurement, rotate the bearing forward and backward before adjusting.
- Adjust it so that it matches the drive pinion temporary adjustment starting torque.









(b) If the preload is insufficient, use SST to tighten the drive pinion nut 5 to 10° at a time. Measure the starting torque and repeat the adjustment as necessary until the preload matches the specified toraue.

SST 09564-16020

- (c) If the tightening torque of the rear drive pinion nut exceeds 245 N*m { 2500 kgf*cm } but the preload is still insufficient, loosen the rear drive pinion nut. Then check if the rear drive pinion nut and differential drive pinion screw threads are damaged.
- (d) If there is no defect, replace the rear drive differential drive pinion bearing spacer, apply hypoid gear oil LSD to its threads and repeat the procedure above.

24. INSTALL DIFFERENTIAL CASE

25. INSTALL DIFFERENTIAL SIDE BEARING RETAINER

(a) Install the differential side bearing retainer to the rear differential carrier with the 8 bolts. Torque: 34 N*m (350 kgf*cm, 25 ft.*lbf)

26. INSPECT DIFFERENTIAL RING GEAR BACKLASH

27. INSPECT TOTAL PRELOAD

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

SST 09556-16011 Standard total preload: Standard drive pinion preload plus

Bearing	Preload
New bearing	1.18 to 1.90 N*m (12 to 19 kgf*cm, 10 to 17 in.*lbf)
Reused bearing	0.99 to 1.63 N*m (10 to 17 kgf*cm, 9 to 14 in.*lbf)

NOTICE:

For a more accurate measurement, rotate the case bearing forward and backward before measuring.

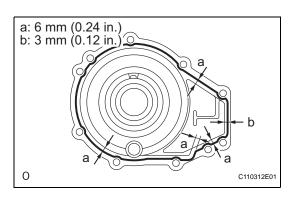
(b) If the results are not within the specified range, select a rear differential side gear shaft washer for the RH side again, and then perform the rear differential case bearing outer race installation (RH side only).

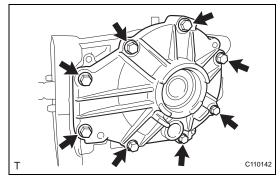
NOTICE:

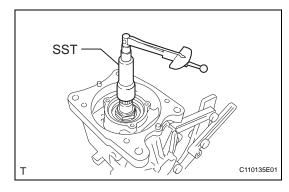
If using a different rear differential side gear shaft washer, adjust the ring gear backlash. Then adjust the total preload.

28. REMOVE DIFFERENTIAL SIDE BEARING RETAINER

(a) Remove the 8 bolts and side bearing retainer from the rear differential carrier.







29. INSTALL DIFFERENTIAL SIDE BEARING RETAINER

- (a) Using white gasoline, remove grease and oil from the alignment surfaces of the rear differential carrier and differential side bearing retainer.
- (b) Apply seal packing to the areas indicated in the illustration of the differential side bearing retainer. Seal Packing:

Toyota Genuine Seal Packing 1281, Three Bond 1281 or equivalent NOTICE:

- Apply seal packing in a continuous line 2 to 3 mm (0.08 to 0.12 in.) in diameter.
- Perform the installation with 3 minutes of applying seal packing.
- (c) Install the differential side bearing retainer to the rear differential carrier with the 8 bolts.
 Torque: 34 N*m (350 kgf*cm, 25 ft.*lbf) NOTICE:

After installing the cover, do not add oil or drive the vehicle, and leave it alone for 1 hour or more. Also, avoid sudden acceleration and deceleration for 12 hours or more.

30. INSPECT TOTAL PRELOAD

(a) Using SST and a torque wrench, inspect the starting torque with the teeth of the differential drive pinion and differential ring gear in contact.

SST 09556-16011 Standard total preload:

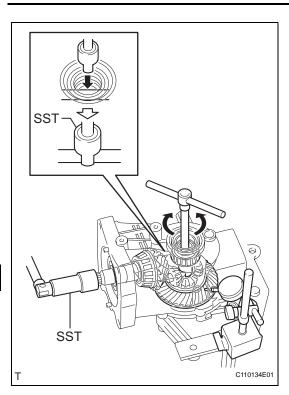
Standard drive pinion preload plus

Bearing	Preload
New bearing	1.18 to 1.90 N*m (12 to 19 kgf*cm, 10 to 17 in.*lbf)
Reused bearing	0.99 to 1.63 N*m (10 to 17 kgf*cm, 9 to 14 in.*lbf)

NOTICE:

For a more accurate measurement, rotate the case bearing forward and backward before inspecting.

DF



31. INSPECT DIFFERENTIAL RING GEAR BACKLASH

- (a) Insert a dial gauge through the rear differential carrier cover plug hole, and set it perpendicular to the ring gear tooth surface's tip.
- (b) Using SST, fix the drive pinion in place. **SST 09556-16011**
- (c) Using SST, rotate the rear differential case forward and backward, and inspect the backlash.

SST 09564-16020 Standard backlash:

0.09 to 0.16 mm (0.0004 to 0.006 in.) NOTICE:

Inspect at 3 or more areas around the circumference of the ring gear.

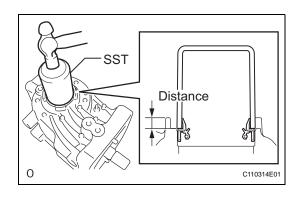
32. INSTALL REAR DRIVE PINION NUT

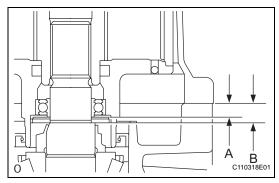
- (a) Using a chisel and hammer, stake the rear drive pinion nut.
- SST SST Distance 0

33. INSTALL DIAPHRAGM OIL SEAL

- (a) Apply a light coat of MP grease No. 2 to the lip of a new diaphragm oil seal.
- (b) Using SST and a hammer, tap the diaphragm oil seal into the rear differential carrier according to the specification.
 - SST 09710-30021 (09710-03121), 09950-60010 (09951-00570), 09950-70010 (09951-07100) Standard distance:
 - 7.0 +-0.5 mm (0.28 +-0.02 in.)
- 34. INSTALL DIFFERENTIAL SIDE GEAR SHAFT OIL SEAL
 - (a) Apply a light coat of MP grease No. 2 to the lip of a new rear differential side gear shaft oil seal.
 - (b) Using SST and a hammer, tap the 2 rear differential side gear shaft oil seals into the rear differential carrier and differential side bearing retainer according to the specification.

SST 09223-00010 Standard distance: 7.2 +-0.5 mm (0.28 +-0.02 in.)



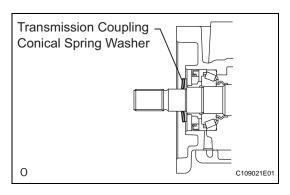


35. INSTALL TRANSMISSION COUPLING SHIM

- (a) Measure each of the dimensions. HINT:
 - Dimension A: Bearing axis distance
 - Dimension B: Drive pinion axis distance
- (b) Select a transmission coupling shim based on the difference between dimensions A and B, and install the shim.

Transmission coupling shim

Difference of dimension A and B mm (in.)	Part No.	Thickness mm (in.)	Identifying Mark	
3.96 to 4.01 (0.148 to 0.154)	90564-25024	1.98 to 2.02 (0.078 to 0.080)	1	
4.26 to 4.31 (0.161 to 0.168)	90564-25025	2.28 to 2.32 (0.090 to 0.091)	2	
4.56 to 4.61 (0.174 to 0.181)	90564-25026	2.58 to 2.62 (0.102 to 0.103)	3	
3.81 to 3.86 (0.141 to 0.148)	90564-25027	1.83 to 1.87 (0.072 to 0.074)	4	
4.11 to 4.16 (0.154 to 0.161)	90564-25028	2.13 to 2.17 (0.084 to 0.085)	5	
4.41 to 4.16 (0.168 to 0.174)	90564-25029	2.43 to 2.47 (0.096 to 0.097)	6	
3.71 to 3.76 (0.146 to 0.148)	90564-25031	1.73 to 1.77 (0.068 to 0.700)	8	
3.76 to 3.81 (0.148 to 0.150)	90564-25032	1.78 to 1.82 (0.070 to 0.072)	9	
3.86 to 3.91 (0.151 to 0.154)	90564-25033	1.88 to 1.92 (0.074 to 0.076)	10	
3.91 to 3.96 (0.154 to 0.156)	90564-25034	1.93 to 1.97 (0.076 to 0.078)	11	
4.01 to 4.06 (0.158 to 0.160)	90564-25035	2.03 to 2.07 (0.080 to 0.081)	12	
4.06 to 4.11 (0.160 to 0.162)	90564-25036	2.08 to 2.12 (0.082 to 0.083)	13	
4.16 to 4.21 (0.164 to 0.166)	90564-25037	2.18 to 2.22 (0.086 to 0.087)	14	
4.21 to 4.26 (0.166 to 0.168)	90564-25038	2.23 to 2.27 (0.088 to 0.089)	15	
4.31 to 4.36 (0.170 to 0.172)	90564-25039	2.33 to 2.37 (0.092 to 0.093)	16	
4.36 to 4.41 (0.172 to 0.174)	90564-25040	2.38 to 2.42 (0.094 to 0.095)	17	
4.46 to 4.51 (0.176 to 0.178)	90564-25041	2.48 to 2.52 (0.098 to 0.099)	18	
4.51 to 4.56 (0.178 to 0.180)	90564-25042	2.53 to 2.57 (0.100 to 0.101)	19	
4.61 to 4.66 (0.181 to 0.183)	90564-25043	2.63 to 2.67 (0.104 to 0.105)	20	
4.66 to 4.71 (0.183 to 0.185)	90564-25044	2.68 to 2.72 (0.106 to 0.107)	21	



36. REMOVE TRANSMISSION COUPLING CONICAL SPRING WASHER

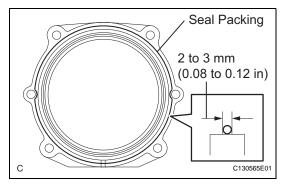
 (a) Install the transmission coupling conical spring washer to the rear differential carrier.
 NOTICE:

Install the transmission coupling conical spring washer so that the green marking (protruding part) is facing the front of the vehicle (coupling side).

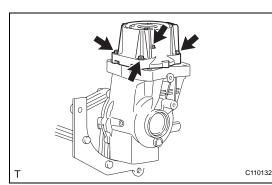
- 37. INSTALL YOKE
 - (a) Using a 5 mm socket hexagon wrench, install the yoke with the 3 bolt.
 Torque: 5.0 N*m (51 kgf*cm, 44 in.*lbf)
- 38. INSTALL 4WD LINEAR SOLENOID
 - (a) Install a new O-ring to the solenoid. **NOTICE:**

Do not damage or twist the O-ring.

(b) Install the solenoid to the yoke.



DF



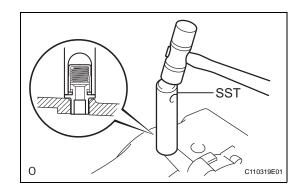
(c) Install the snap ring.

39. INSTALL ELECTROMAGNETIC COUPLING

- (a) Using white gasoline, remove grease and oil from the alignment surfaces of the rear differential carrier and transmission coupling.
- (b) Apply seal packing 1281 to the areas indicated in the illustration of the transmission coupling.
 Seal Packing:

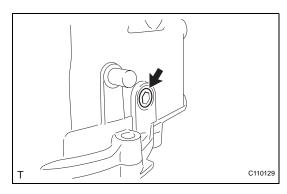
Toyota Genuine Seal Packing 1281, Three Bond 1281 or equivalent NOTICE:

- Apply seal packing 1281 in a continuous line 2 to 3 mm (0.08 to 0.12 in.) in diameter.
- Perform the installation with 3 minutes of applying seal packing 1281.
- (c) Install the rear differential carrier cover to the rear differential carrier assembly with the 4 bolts.
 Torque: 19.6 N*m (200 kgf*cm, 14 ft.*lbf)



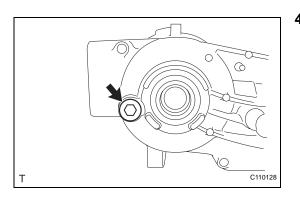
40. INSTALL DIFFERENTIAL CARRIER COVER BREATHER PLUG

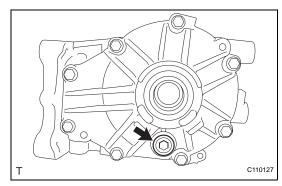
- (a) Using a plastic-faced hammer, tap in the breather plug.
 - SST 09612-07010 (09612-10061)

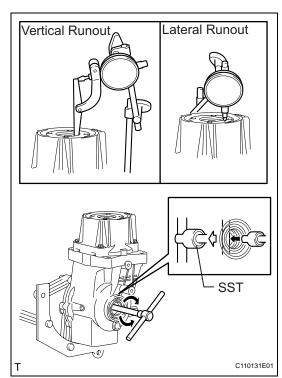


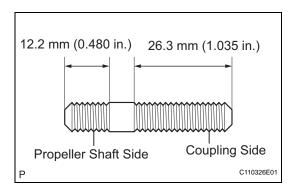
41. INSTALL DIFFERENTIAL CARRIER COVER PLUG

(a) Using an 8 mm socket hexagon wrench, install a new rear differential carrier cover plug.
 Torque: 30 N*m (306 kgf*cm, 22 ft.*lbf)









42. INSTALL DIFFERENTIAL FILLER PLUG

- (a) Install a new gasket to the rear differential filler plug.
- (b) Using a 10 mm socket hexagon wrench, install the rear differential filler plug.
 Torque: 39 N*m (400 kgf*cm, 29 ft.*lbf)

43. INSTALL DIFFERENTIAL DRAIN PLUG

- (a) Install a new gasket to the rear differential drain plug.
- (b) Using a 10 mm socket hexagon wrench, install the rear differential drain plug.

Torque: 39 N*m (400 kgf*cm, 29 ft.*lbf)

- 44. INSPECT RUNOUT OF TRANSMISSION COUPLING ASSEMBLY
 - (a) Install a dial gauge so that it is perpendicular to the inner side of the transmission coupling.
 - (b) Using SST, rotate the transmission coupling forward and backward and measure the vertical runout.
 SST 09564-16020
 Maximum vertical runout: 0.06 mm (0.0024 in.)
 - (c) Install a dial gauge perpendicularly onto the transmission coupling, as shown in the illustration.
 - (d) Using SST, rotate the transmission coupling forward and backward and measure the lateral runout.
 SST 09564-16020

Maximum lateral runout: 0.07 mm (0.0028 in.)

45. INSTALL STUD BOLT

(a) Install the differential support assembly rear with the 4 bolts.

Torque: 8 N*m (82 kgf*cm, 71 in.*lbf)