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PREPARATION

Special Service Tools

Tool number	D i ii		
Tool name	Description		
ST38060002			Removing companion flange nut
Flange wrench			Installing companion flange nut
		a /)	
			a: 480 mm (18.90 in)
			b: Pitch dia.: 75 mm (2.95 in)
	NT428		Pin dia.: 10 mm (0.39 in)
ST30021000		, a ,	Removing counter gear front bearing
Puller		_ b _ J	(Use with ST36710010)
			Removing L & H hub
		02	a: 110 mm (4.33 in) dia.
	NT411	6	b: 68 mm (2.68 in) dia.
ST30031000		, a ,	Removing counter gear rear bearing
Puller		b b	(Use with ST36710010)
			a: 90 mm (3.54 in) dia.
	NT411		b: 50 mm (1.97 in) dia.
ST33290001		<u>~</u>	Removing center case oil seal
Puller			Removing rear oil seal
		a la	
			()
	NT414	b	a: 250 mm (9.84 in)
ST33051001		1 ~	b: 160 mm (6.30 in) Removing companion flange
Puller		_	removing companion hange
		a ge	
			a: 135 mm (5.31 in)
	NT657		b: 100 mm (3.94 in) c: 130 mm (5.12 in)
ST30720000	141007		Installing center case oil seal
Drift			Installing rear oil seal
	NT115	a	a: 77 mm (3.03 in) dia.
ST36710010	NIIIS		b: 55.5 mm (2.185 in) dia.
Drift			Removing counter gear front bearing (Use with ST30021000)
Dint			Removing counter gear rear bearing
			(Use with ST30031000)
	NT063	a	045 (4.050 !) !!
CT22064000	INTUOS		a: 34.5 mm (1.358 in) dia.
ST33061000 Drift		а	Removing main gear bearing
Dill		Ä	
			a: 28.5 mm (1.122 in) dia.
	NT116	b	b: 38 mm (1.50 in) dia.

PREPARATION

Special Service Tools (Cont'd)			
Tool number Tool name	Description		
ST30613000	, b ,	Installing main gear bearing	
Drift		Installing cover oil seal	
			MA
	* a →	a: 72 mm (2.83 in) dia.	
	NT073	h: 48 mm (1.89 in) dia	EM

Commercial Service Tools

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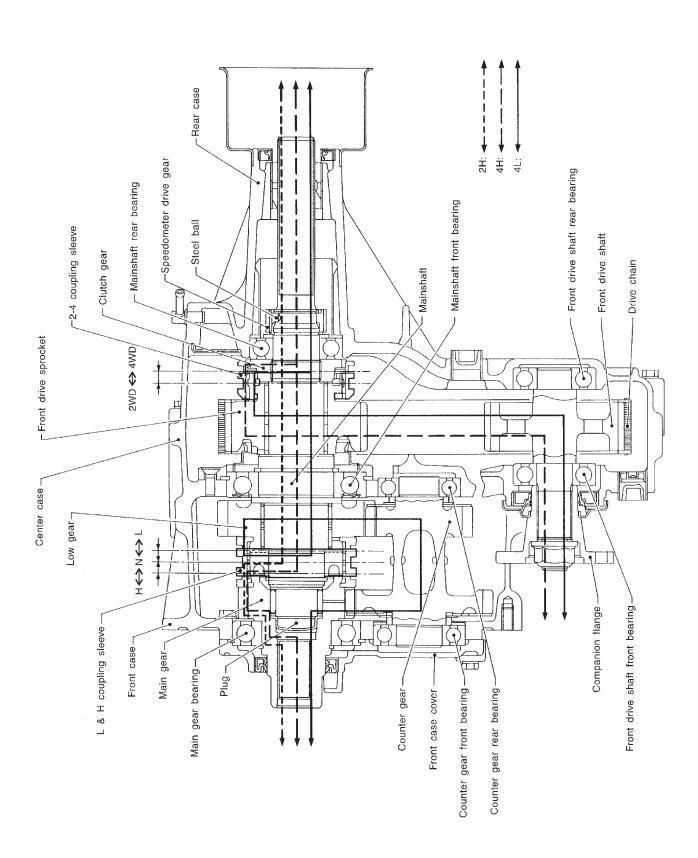
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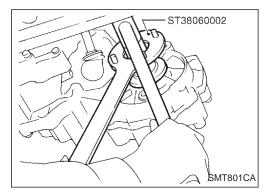
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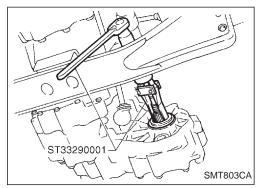
Tool name	Description	
Puller		Removing front drive shaft front bearing Removing front drive shaft rear bearing Removing main gear bearing
	NT077	
Drift		 1 Installing mainshaft rear bearing 2 Installing L & H hub 3 Installing shift shaft oil seal
		① a: 50 mm (1.97 in) dia. b: 42 mm (1.65 in) dia. c: 180 mm (7.09 in)
	NT117	② a: 60 mm (2.36 in) dia. b: 50 mm (1.97 in) dia. c: 60 mm (2.36 in)
		③ a: 26 mm (1.02 in) dia. b: 20 mm (0.79 in) dia. c: 150 mm (5.91 in)
	<u> </u>	

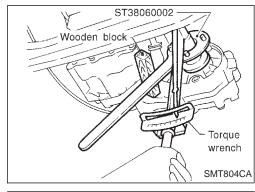
Cross-sectional View

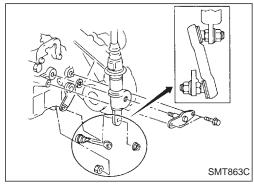




ST3305100[.] SMT802CA







Replacing Oil Seal

CENTER CASE OIL SEAL

Remove exhaust front tube and heat insulator. Refer to "Removal", TF-7.

2. Remove front propeller shaft. Refer to PD section ("Removal and Installation", "PROPELLER SHAFT").

3. Remove companion flange nut.

4. Remove companion flange.

- Remove center case oil seal.
- Install center case oil seal.
- Before installing, apply multi-purpose grease to seal lip.
- Install companion flange.

- 8. Tighten nut to the specified torque.
- 9. Install front propeller shaft.

SHIFT SHAFT OIL SEAL

- 1. Remove front propeller shaft. Refer to PD section ("Removal and Installation", "PROPELLER SHAFT").
- 2. Remove companion flange. Refer to center case oil seal, TF-5.
- 3. Remove transfer control lever from transfer outer shift lever. Then remove outer shift lever.

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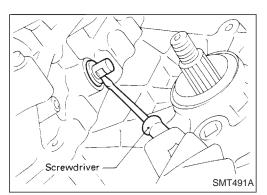
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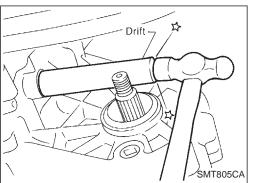
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ON-VEHICLE SERVICE

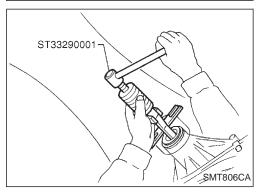


Replacing Oil Seal (Cont'd)

- 4. Remove shift shaft oil seal.
- Be careful not to damage cross shaft.

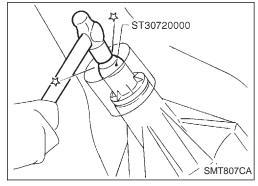


- 5. Install shift shaft oil seal.
- Before installing, apply multi-purpose grease to seal lip.
- 6. Install transfer control linkage.
- 7. Install companion flange. Refer to center case oil seal, TF-5.
- 8. Install front propeller shaft.

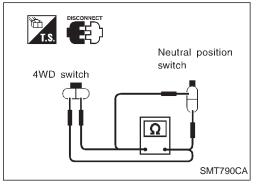


REAR OIL SEAL

- 1. Remove rear propeller shaft. Refer to PD section ("Removal and Installation", "PROPELLER SHAFT").
- 2. Remove rear oil seal.



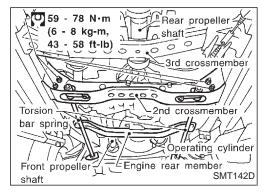
- 3. Install rear oil seal.
- Before installing apply multi-purpose grease to seal lip.
- 4. Install rear propeller shaft.

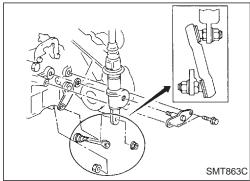


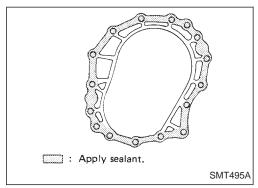
Position Switch Check

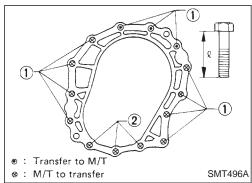
Switch	Gear position	Continuity
4WD switch	4WD	Yes
4VVD SWITCH	Except 4WD	No
Noutral position switch	Neutral	Yes
Neutral position switch	Except neutral	No

REMOVAL AND INSTALLATION









Removal

1. Drain oil from transfer and transmission.

2. Remove front and rear propeller shaft. Refer to PD section ("Removal and Installation", "PROPELLER SHAFT"). Insert plug into rear oil seal after removing propeller shaft.

 Be careful not to damage spline, sleeve yoke and rear oil seal, when removing propeller shaft.

 Remove torsion bar spring. Refer to FA section ("Torsion Bar Spring", "FRONT SUSPENSION"). Then remove second crossmember.

4. Disconnect 4WD and neutral position switches.

5. Remove transfer control lever from transfer outer shift lever.

6. Separate transfer from transmission.

WARNING:

Support transfer while removing it.

Installation

Apply recommended sealant to mating surface to transmission.

Recommended sealant:

Nissan genuine part (KP610-00250) or equivalent

Tighten bolts securing transfer.

Bolt No.	Tightening torque N⋅m (kg-m, ft-lb)	ℓ mm (in)
1	31 - 41 (3.2 - 4.2, 23 - 30)	45 (1.77)
2	31 - 41 (3.2 - 4.2, 23 - 30)	60 (2.36)

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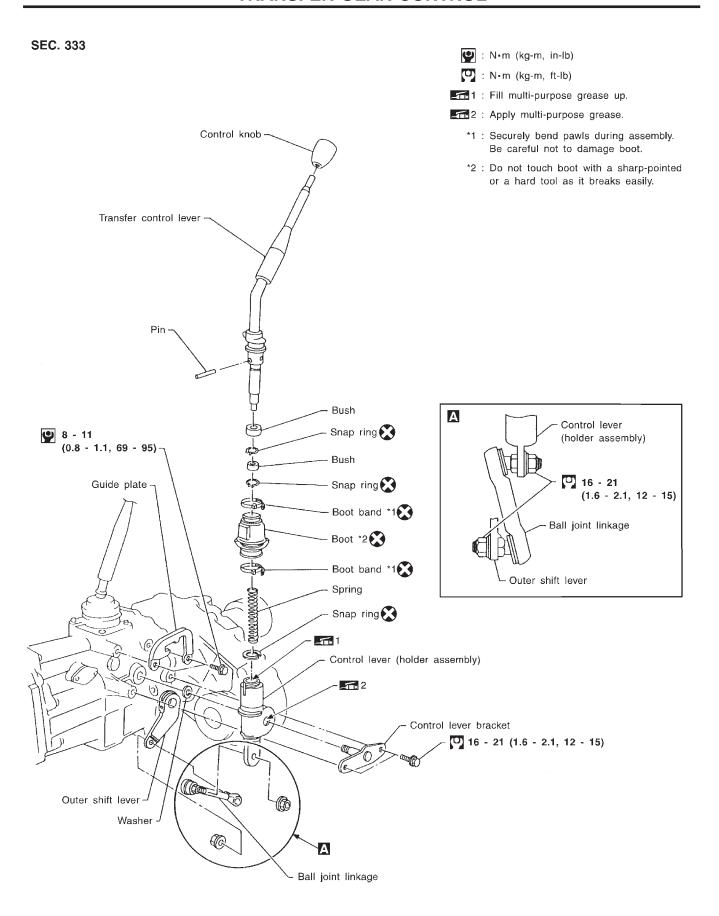
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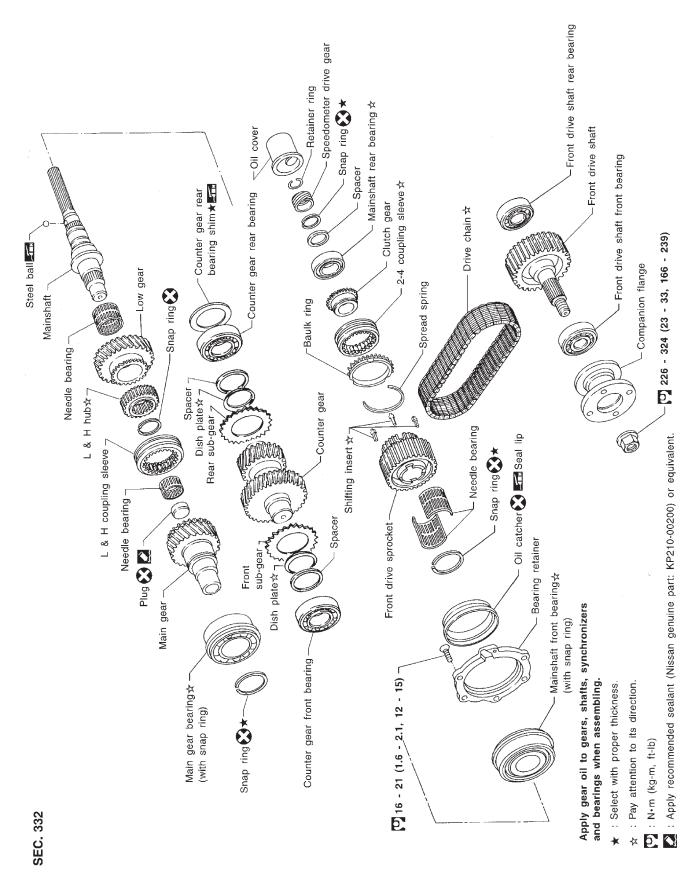
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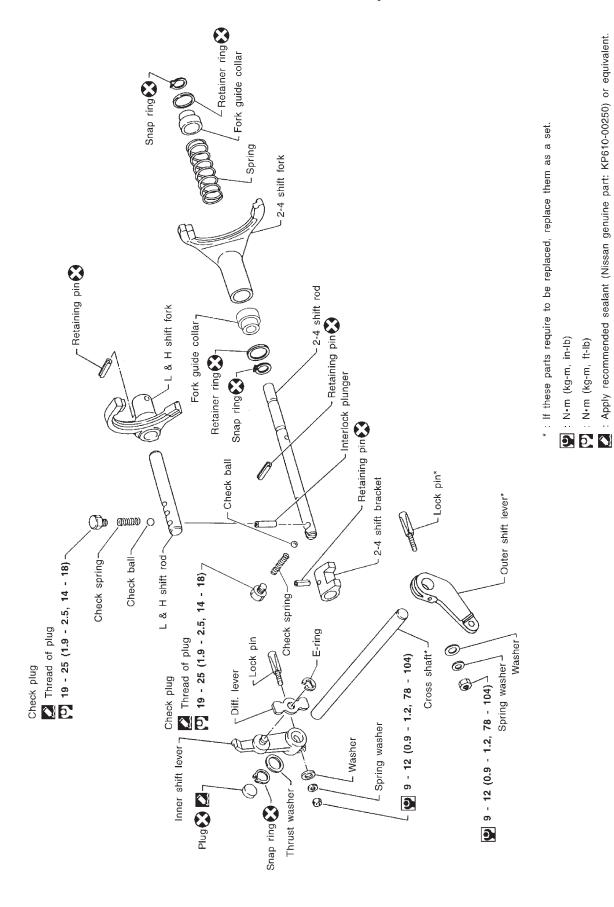
Case Components Thread of bolt 25 - 34 (2.5 - 3.5, G[(2.7 - 3.7, 20 - 27) (Nissan genuine part: KP610-00250) **7** 26 - 36 18 - 25) -Dust cover -Filler plug MA Mating surface to center case Apply recommended sealant 26 - 36 TO CELLO. (2.7 - 3.7, 20 - 27) Rear case ☑ : N•m (kg-m, in-lb)☑ : N•m (kg-m, ft-lb)☑ : Apply recommended or equivalent. LC Rear oil seal 🗙 📶 Seal lip-Thread of bolt 25 - 34 (2.5 - 3.5, 18 - 25) Seal lip Mating surface to front case Knock pin EC Center case Air breather 🔼 Center case oil seal FE Drain plug GL Thread of switch 5 - 20 (1.5 - 2.0, 11 - 14) MT TF Breather cover 3.7 - 5.0 (0.38 - 0.51, 33.0 - 44.3) PD Shift shaft oil seal 4WD switch Oil gutter FA RA BR ST to transmission 💌 Mating surface Cover oil seal 💸 🛌 Seal lip-RS Front case Check ball BT (1.5 - 2.0, 11 - 14)Neutral position switch Thread of switch 15 - 20 Mating surface HA Front case cover to front case EL Thread of bolts (1.9 - 2.4,(1.6 - 2.1)12 - 15) 14 - 17) A 16 - 21 B 19 - 24

SEC. 331

Gear Components



Shift Control Components



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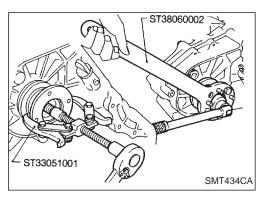
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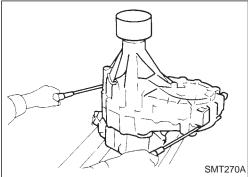
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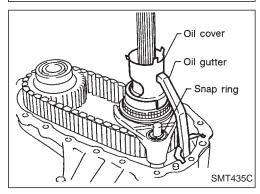
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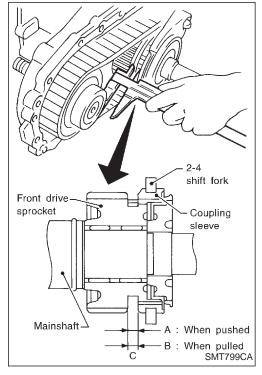
- 1. Remove nut of companion flange.
- 2. Remove companion flange.



- 3. Remove 4WD switch.
- 4. Remove rear case.
- Be careful not to damage the mating surface.



- 5. Remove oil cover and oil gutter.
- 6. Remove snap ring and retainer ring from 2-4 shift rod.



7. Using calipers, measure the difference between front drive sprocket and 2-4 coupling sleeve as outlined under Measuring method below. If it is outside specifications, check front drive sprocket, 2-4 coupling sleeve, clutch gear, 2-4 shift fork and 2-4 fork rod for abnormalities. Replace faulty part(s) as required.

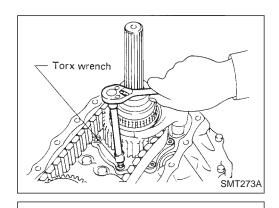
Measuring method

a. Move coupling sleeve until it is in contact with sprocket, then measure dimension A. Move coupling sleeve until it is in contact with clutch gear, then measure dimension B. Obtain dimensional difference C between two measurements A and B.

C = A - B

b. To determine dimension A, measure at 3 or 4 different points by rotating sprocket and obtain average value of 3 or 4 measurements.

Specification C: Refer to TF-31.





This step is necessary to remove mainshaft from center case.

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9. Remove bolts securing center case to front case and then

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separate center case and front case.

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10. Measure end play of low gear.

Standard:

SMT274A

0.2 - 0.35 mm (0.0079 - 0.0138 in)

If end play is beyond the maximum value, check low gear and L & H hub for wear.

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- 11. Disassemble center case assembly.
- a. Remove snap ring from mainshaft.

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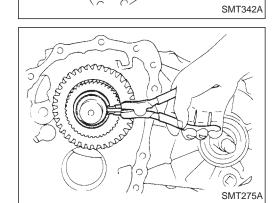
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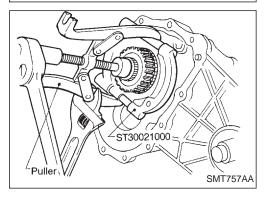
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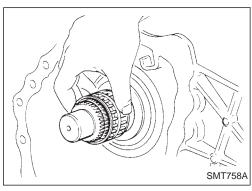
b. Pull out low gear with L & H hub.

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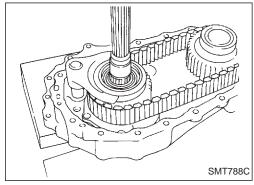
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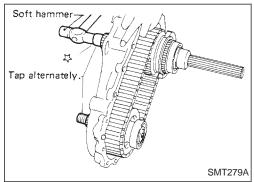




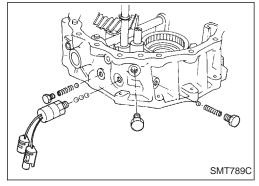
c. Remove needle bearing of low gear.



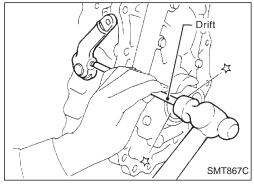
d. Make sure of the direction of the drive chain before removing it. (It must be reinstalled in the same direction.)



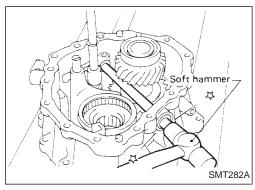
- e. Remove mainshaft, front drive and drive chain as a set by tapping front end of mainshaft and front drive shaft alternately.
- Be careful not to bend drive chain.



- 12. Disassemble front case assembly.
- a. Remove switch, plugs, check springs and check balls.



b. Remove outer shift lever.



c. Remove lock pin of inner shift lever and drive out cross shaft with plug.

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d. Remove 2-4 shift rod.

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e. Remove L & H shift rod and fork assembly with coupling sleeve.

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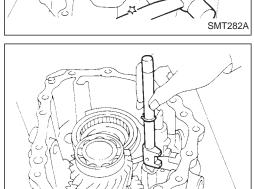
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g. Remove bolts securing front case cover and then remove case.

Remove needle bearing from main gear.

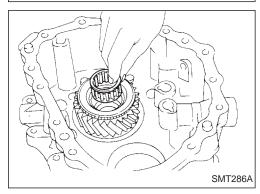
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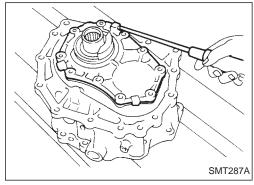
n C 5

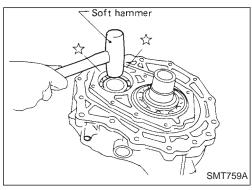


SMT283A

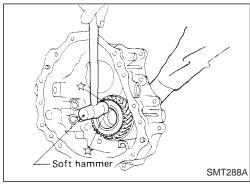
SMT284A



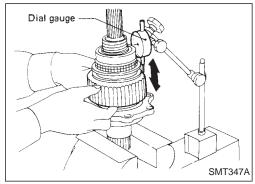




h. Remove counter gear by tapping lightly.



i. Remove main gear by tapping lightly.



Mainshaft

DISASSEMBLY

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1. Check end play of front drive sprocket.

Standard:

0.2 - 0.35 mm (0.0079 - 0.0138 in)

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If end play is beyond the maximum value, check front drive sprocket and clutch gear for wear.

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Remove retainer ring, speedometer drive gear and steel ball. Be careful not to lose the steel ball.

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3. Remove snap ring and spacer.

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4. Press out front drive sprocket with mainshaft rear bearing and clutch gear together.

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5. Remove needle bearing.

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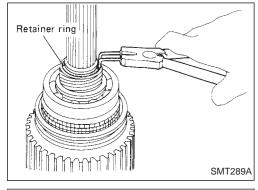
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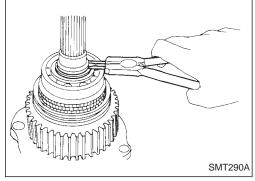
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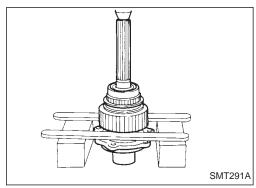
6. Remove bearing retainer and then remove snap ring and spacer.

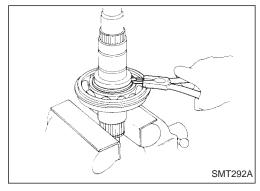
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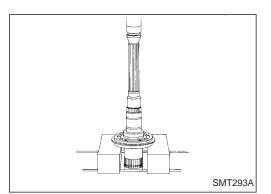
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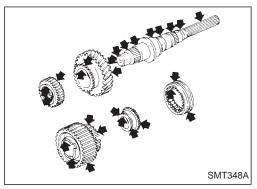






Mainshaft (Cont'd)

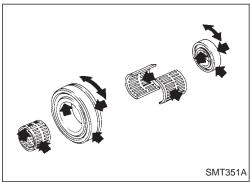
7. Press out mainshaft front bearing from mainshaft.



INSPECTION

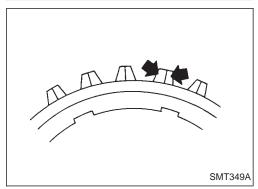
Gear and shaft

- Check gears for excessive wear, chips or cracks.
- Check shaft for cracks, wear or bending.
- Check coupling sleeve for wear or damage.



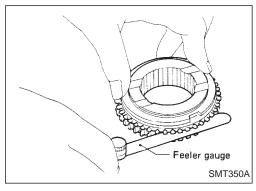
Bearing

 Make sure bearings roll freely and are free from noise, crack, pitting or wear.

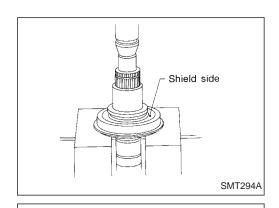


Baulk ring

Check baulk ring for cracks or deformation.



Measure clearance between baulk ring and clutch gear.
 Baulk ring to clutch gear clearance:
 Refer to SDS, TF-31.



Mainshaft (Cont'd) **ASSEMBLY**

- 1. Press mainshaft front bearing onto mainshaft.
- Pay special attention to its direction.





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- Install spacer. 3. Select snap ring with proper thickness and install it.

Allowable clearance between snap ring and groove: 0 - 0.15 mm (0 - 0.0059 in)

Available snap ring for mainshaft front bearing:

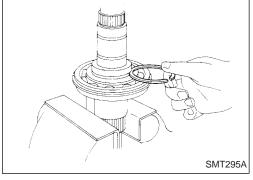
Refer to SDS, TF-31.

4. Regarding to further procedures, refer to "ASSEMBLY", TF-25.



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Puller

Front bearing

Front Drive Shaft **DISASSEMBLY** Front drive shaft front bearing and rear bearing

Puller

Rear bearing SMT437C



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INSPECTION

Sprocket and shaft

- Check sprocket for excessive wear, chips or cracks.
- Check shaft for cracks or wear.

Bearing

Make sure bearings roll freely and are free from noise, crack, pitting or wear.

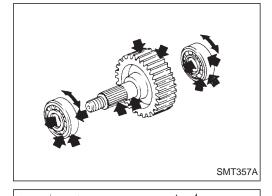
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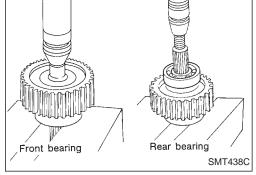
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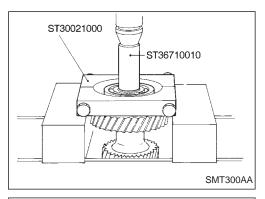


Press front drive shaft front bearing and rear bearing.

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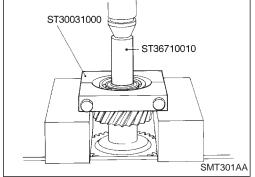




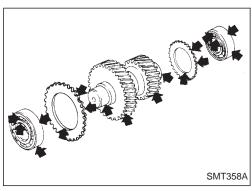
Counter Gear

DISASSEMBLY

- 1. Press out counter gear front bearing.
- Remove front sub-gear, spacer and dish plate.



2. Press out counter gear rear bearing and then remove rear sub-gear, spacer and dish plate.



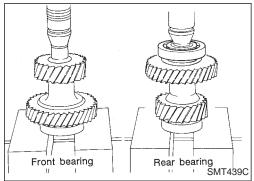
INSPECTION

Gear and shaft

- Check gears for excessive wear, chips or cracks.
- Check shaft for cracks or wear.

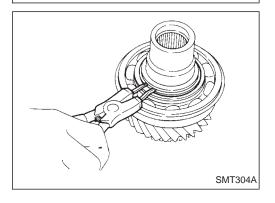
Bearing

 Make sure bearings roll freely and are free from noise, crack, pitting or wear.



ASSEMBLY

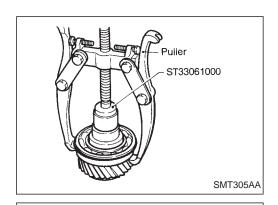
- 1. Install front sub-gear, dish plate and spacer.
- Press on counter gear front bearing.
- 2. Install rear sub-gear, dish plate and spacer, and then press on counter gear rear bearing.



Main Gear DISASSEMBLY

Main gear bearing

1. Remove snap ring.



Main Gear (Cont'd)

2. Pull out main gear bearing.



MA

EM

LC

EC

Plug

Drift

SMT359A

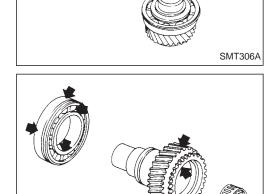
ST30613000

Always replace it with new one whenever it is removed.



GL

MT



INSPECTION

Gear and shaft

Check gears for excessive wear, chips or cracks.

Check shaft for cracks or wear.

PD

TF

Bearing

Make sure bearings roll freely and are free from noise, crack, pitting or wear.



FA

ASSEMBLY

Main gear bearing

1. Press on main gear bearing.



BT

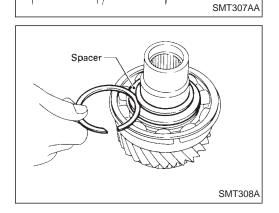


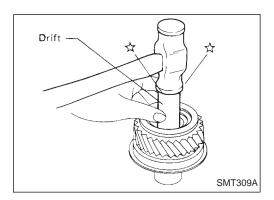
Allowable clearance between snap ring and groove: 0 - 0.15 mm (0 - 0.0059 in)

Available snap ring for main gear bearing: Refer to SDS, TF-31.



HA

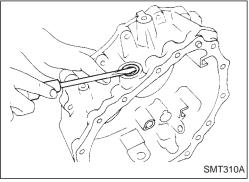




Main Gear (Cont'd)

Plug

• Apply sealant to plug and install it.

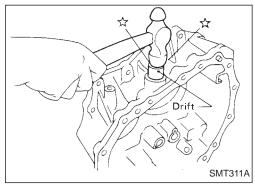


Front Case

SHIFT SHAFT OIL SEAL

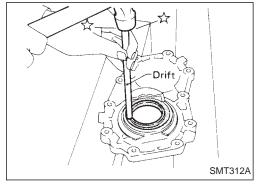
Removal

- Use a screwdriver to pry out old seal.
- Be careful not to damage case.
- Always replace with a new one whenever it has been removed.



Installation

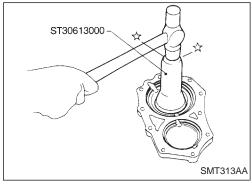
- Install new shift shaft oil seal until flush with case.
- Before installing, apply multi-purpose grease to seal lip.



Front Case Cover COVER OIL SEAL

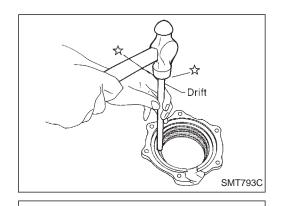
Removal

- Drive out old seal from inside of front case cover.
- Be careful not to damage front case cover.



Installation

- Install new front case cover oil seal until it stops.
- Before installing, apply multi-purpose grease to seal lip.



Bearing Retainer

OIL CATCHER

GI

Removal

- Drive out oil catcher from inside of bearing retainer.
- Be careful not to damage bearing retainer.





LC

Installation

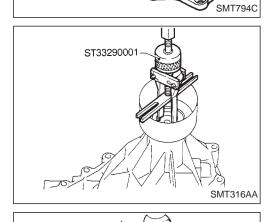
- Install oil catcher until it stops.
- Be careful not to damage or distort oil catcher or bearing retainer.
- Before installing, apply multi-purpose grease to seal lip.



EG

CL

MT



Rear Case

REAR OIL SEAL

Removal

Pull out rear oil seal.



PD

FA

RA

BR

Installation

- Install new rear oil seal until it stops.
- Before installing, apply multi-purpose grease to seal lip.

ST

RS

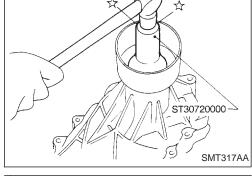
BT

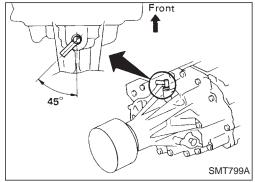
AIR BREATHER

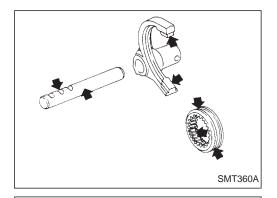
Install as shown in illustration.

HA

EL



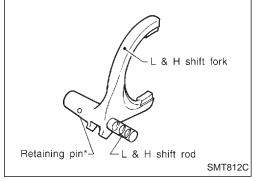




Shift Control Components

INSPECTION

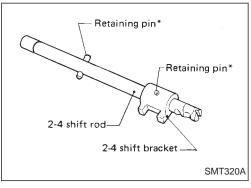
• Check contact surface and sliding surface for wear, scratches, projections or other faulty conditions.



L & H SHIFT ROD & FORK

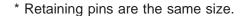
Assemble as shown in illustration.

* Retaining pin is the same size as the one for 2-4 shift rod.

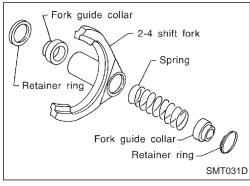


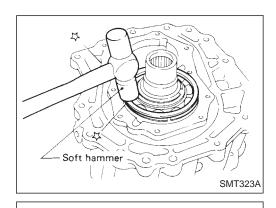
2-4 SHIFT ROD & FORK

Assemble as shown in illustration.



• Pay special attention to the direction of fork guide collar.





- 1. Assemble front case.
- a. Install main gear assembly by tapping lightly.



MA



LC

- b. Apply sealant to the mating surface and bolts of front case cover and install it on front case.
- These ten bolts should be coated with sealant.
- Tightening torque

A: 16 - 21 N·m

(1.6 - 2.1 kg-m, 12 - 15 ft-lb)

B: 19 - 24 N·m

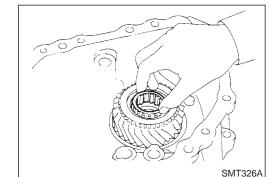
(1.9 - 2.4 kg-m, 14 - 17 ft-lb)



EC

GL

MT



Soft hammer-

SMT325A

SMT327A

c. Apply gear oil to needle bearing and install it into main gear.



PD

FA

RA

d. Install counter gear assembly by tapping lightly.



ST

RS

__

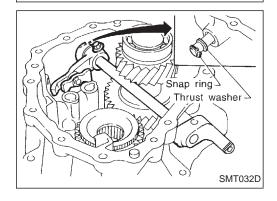
BT

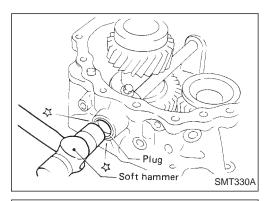
HA



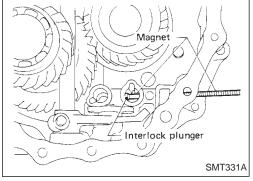
 When replacing cross shaft, outer shift lever or lock pin of outer shift lever, replace them as a set.

EL

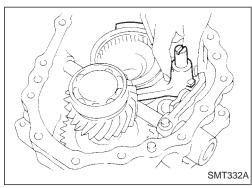




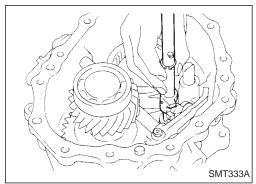
f. Apply sealant to plug and install it into front case.



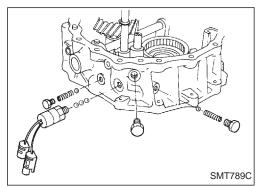
g. Insert interlock plunger into front case.



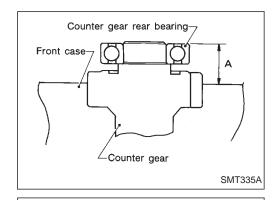
h. Install L & H shift rod and fork assembly with coupling sleeve.



i. Install 2-4 shift rod.



- j. Install switches, check balls, check springs and plugs.
- Apply sealant to switches and plugs.



2. Select counter gear rear bearing shim.

Counter gear end play: 0 - 0.2 mm (0 - 0.008 in)

GI

Counter gear rear bearing shim: Refer to SDS, TF-31.

r MA

a. Measure distance "A" between upper surface of counter gear rear bearing and mating surface of front case.

EM

LC

Soloat quitable chim using SDS abort. Befor to SDS, TE 21

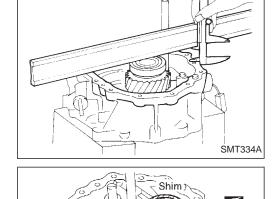
EG

b. Select suitable shim using SDS chart. Refer to SDS, TF-31.

FE

GL

MT



3. Place suitable shim on counter gear rear bearing with grease.

4. Apply gear oil to each part in front case.

TF

PD

FA

RA

0 00 0

5. Assemble center case assembly.

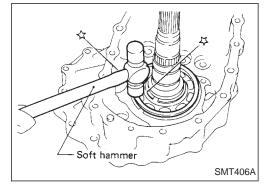
a. Install mainshaft on center case by tapping lightly.

Apply gear oil to mainshaft front bearing.

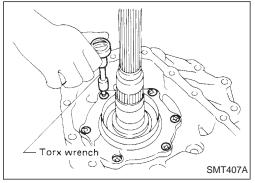
BT

HA

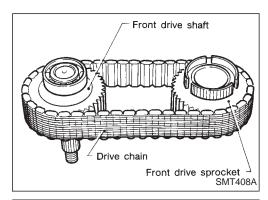
EL



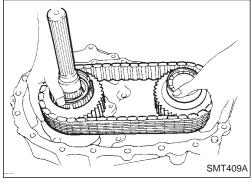
SMT036D



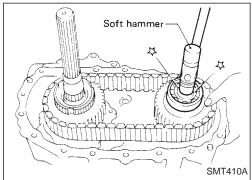
b. Install bearing retainer.



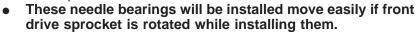
c. Put drive chain onto the front drive sprocket and front drive shaft, and then put them in center case.

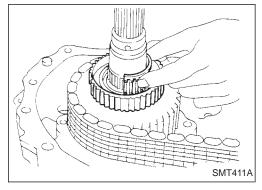


- d. Install front drive shaft by tapping lightly.
- Make sure shafts are lined up in the case.

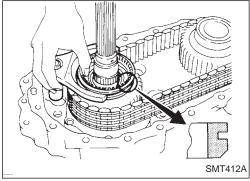


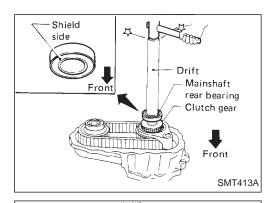
e. Apply gear oil to needle bearings and install them into front drive sprocket.





- . Install 2-4 coupling sleeve with 2-4 shift fork.
- Pay special attention to direction of coupling sleeve.





- g. Install clutch gear and mainshaft rear bearing.
- Place wooden block under mainshaft in order to protect mainshaft front bearing.



- MA
- EM
- LC

EC

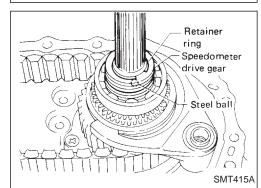
- Spacer SMT414A
- h. Install spacer.
- i. Select snap ring with proper thickness and install it.

Allowable clearance between snap ring and groove: 0 - 0.15 mm (0 - 0.0059 in)

Available snap ring for mainshaft rear bearing: Refer to SDS, TF-31.



- GL
- MT



- Install steel ball, speedometer drive gear and retainer ring.
- Steel ball is the smallest of check balls for this unit.

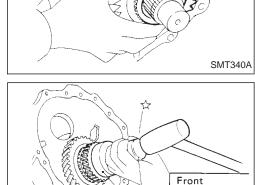


- PD FA
- RA

- Install low gear and its bearing to mainshaft.

 Apply gear oil to needle bearing.
- BR

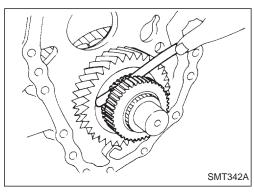
- 1110
- BT
- HA
 - EL



Drift -

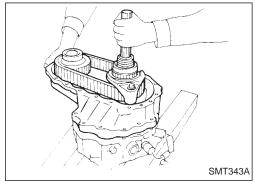
SMT760A

- I. Install L & H hub and snap ring to mainshaft.
- Pay special attention to direction of L & H hub.

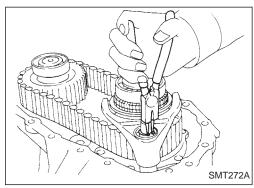


m. Measure end play of low gear.

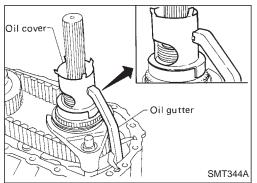
Standard: 0.2 - 0.35 mm (0.0079 - 0.0138 in)



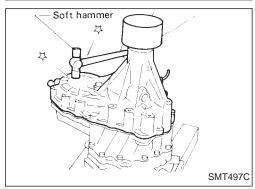
6. Apply sealant to mating surface and put center case assembly onto front case and tighten bolts.



7. Install snap ring to 2-4 shift rod.



- 8. Install oil gutter and oil cover.
- 9. Apply gear oil to each part in center case.



- 10. Apply sealant to mating surface and install rear case on center case.
- 11. Install 4WD switch.
- Apply sealant to thread of switch.

General Specifications

Transfer model		TX10A	
Gear ratio High			1.000
Gear ratio	Low		2.020
	Main gea		29
	Low gear		37
Number of teeth	Counter	High	38
Number of teeth	gear	Low	24
	Front driv	ve sprocket	41
	Front driv	ve shaft	41
Oil capacity ℓ (Imp qt)		2.2 (2)	

GI

MA

EM

LC

EG

FE

Inspection and Adjustment

CLEARANCE BETWEEN FRONT DRIVE SPROCKET AND 2-4 COUPLING SLEEVE

Allowable clearance "C"	0.2 - 0.54 mm (0.008 - 0.0213 in)
-------------------------	-----------------------------------

Main gear bearing

-	CL
_	

MT

TF

Allowable clearance	0 - 0.15 mm (0 - 0.0059 in)
Thickness mm (in)	Part number
2.60 (0.1024)	33114-73P00
2.69 (0.1059)	33114-73P01
2.78 (0.1094)	33114-73P02

GEAR END PLAY

	Unit: mm (in)
Front drive sprocket	0.2 - 0.35 (0.0079 - 0.0138)
Low gear	0.2 - 0.35 (0.0079 - 0.0138)
Counter gear	0 - 0.2 (0 - 0.008)

AVAILABLE SHIM

PD

Counter gear rear bearing

/ A\

RA

BR

BT

HA

[DX

Distance "A"	Shim(s)	
mm (in)	Thickness mm (in)	Part number
32.65 - 32.55 (1.2854 - 1.2815)	Not necessary	
32.55 - 32.45 (1.2815 - 1.2776)	0.1 (0.004)	33112-C6900
32.45 - 32.35 (1.2776 - 1.2736)	0.2 (0.008)	33112-C6901
32.35 - 32.25 (1.2736 - 1.2697)	0.3 (0.012)	33112-C6902
32.25 - 32.15 (1.2697 - 1.2657)	0.4 (0.016)	33112-C6903
32.15 - 32.05 (1.2657 - 1.2618)	0.5 (0.020)	33112-33G00
32.05 - 31.95 (1.2618 - 1.2579)	0.6 (0.024)	33112-33G01

Counter gear rear bearing-

 \angle Counter gear

CLEARANCE BETWEEN BAULK RING AND CLUTCH GEAR

Unit: mm (i

	• • • • • • • • • • • • • • • • • • • •
Standard	Wear limit
1.0 - 1.5 (0.039 - 0.059)	0.5 (0.020)

AVAILABLE SNAP RING

Mainshaft front bearing

Mainshaft rear bearing

Allowable clearance	0 - 0.15 mm (0 - 0.0059 in)
Thickness mm (in)	Part number
3.10 (0.1220)	33138-73P10
3.19 (0.1256)	33138-73P11
3.28 (0.1291)	33138-73P12



Allowable clearance 0 - 0.15 mm (0 - 0.0059 in) Thickness mm (in) Part number 1.80 (0.0709) 33138-73P20

 1.89 (0.0744)
 33138-73P21

 1.98 (0.0780)
 33138-73P22

 2.07 (0.0815)
 33138-73P23

 2.16 (0.0850)
 33138-73P24

