

Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

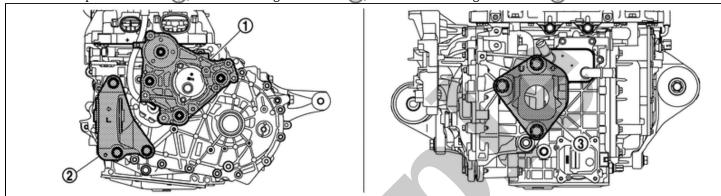
2015 Nissan Xterra Service and Repair Manual

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REMOVAL

- 1 Drain the gear oil. Refer to REDUCTION GEAR OIL: Draining.
- 2 Remove front suspension member assembly, together with reduction gear and front traction motor with inverter (front) from vehicle. Refer to <u>FRONT SUSPENSION MEMBER</u>: <u>Removal & Installation</u>.
- 3 Remove reduction gear, front traction motor and inverter (front) as a set from front suspension member assembly. Refer to <u>FRONT TRACTION MOTOR</u>: Removal & Installation.
- 4 Remove reduction gear air breather hose. Refer to <u>REDUCTION GEAR AIR BREATHER</u>: Removal & Installation.

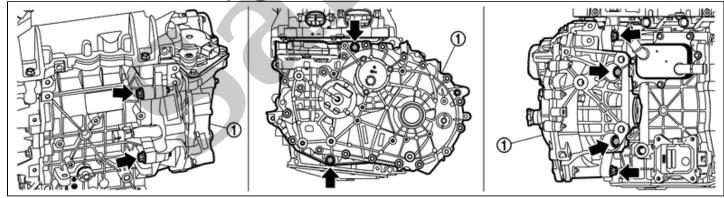
5 Remove compressor bracket (1), motor mounting LH bracket (2), and motor mounting rear bracket (3).



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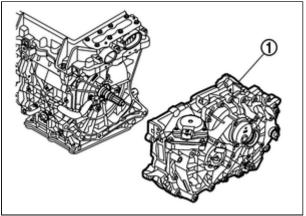
- Compressor bracket: Refer to Removal & Installation.
- Motor mounting LH bracket and motor mounting rear bracket: Refer to <u>FRONT TRACTION MOTOR</u>: Removal & Installation.

6 Remove the bolts that fasten reduction gear 1 and front traction motor.



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7 Remove reduction gear 1 from front traction motor.

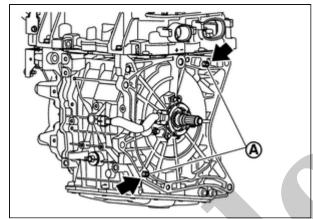


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INSTALLATION

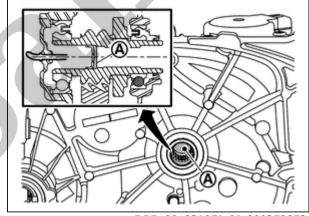
Note the following, and install in the reverse order of removal.

- For each tightening torque, Refer to REDUCTION GEAR: Exploded View.
- Check fitting of dowel pins (A) on front traction motor side of reduction gear installation surface, and remove any moisture, oil, or foreign material from matching surface on front traction motor and reduction gear.



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- Before installing reduction gear to front traction motor, apply recommended grease to the inside of reduction gear input shaft (insertion part of front traction motor shaft splines), as per the following procedure.
 - For applying grease, Refer to REDUCTION GEAR : Exploded View.
- 1. Clean front traction motor shaft splines and inside of reduction gear input shaft to remove old grease and powder arisen from abrasion.
- 2. Inject the specified amount of recommended grease into the reduction gear input shaft back side (greasing part: (A)).



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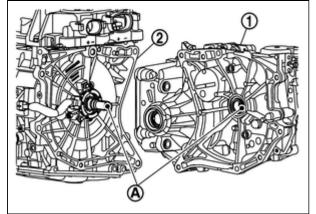
Specified grease amount

 $: 3.5 \pm 0.5 \text{ g} (0.12 \pm 0.018 \text{ oz})$

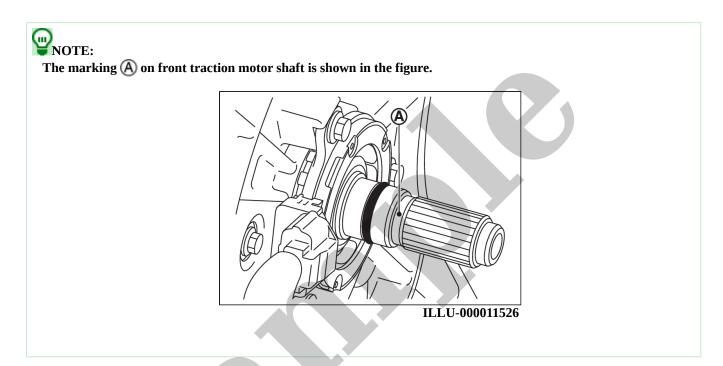
CAUTION:

Be sure not to exceed specified amount of grease. Excessive grease may overflow during installing and break the Oring.

- When removing reduction gear from front traction motor, replace O-ring of front traction motor shaft. Refer to <u>FRONT TRACTION MOTOR</u>: <u>Exploded View</u>.
- When installing reduction gear 1 to front traction motor 2, align markings A on reduction gear input shaft and front traction motor shaft.



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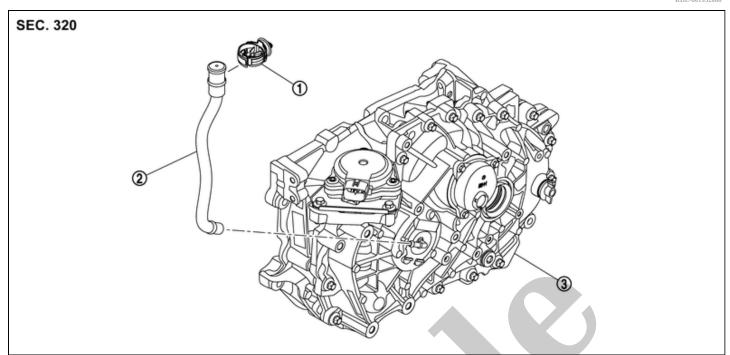


- Check the oil level and the oil leakage after installation. Refer to <u>REDUCTION GEAR OIL</u>: <u>Inspection</u>.
- When replacing reduction gear, perform adjustment after installation. Refer to REDUCTION GEAR : Adjustment.

ADJUSTMENT AFTER INSTALLATION

When replaced reduction gear assembly, perform P position learning of parking actuator. Refer to Work Procedure.





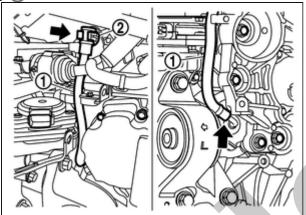
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1	Clip	2	Air breather hose	3	Reduction gear

REMOVAL

 $1\ Remove\ high\ voltage\ power\ delivery\ assembly.\ Refer\ to\ \underline{HIGH\ VOLTAGE\ POWER\ DELIVERY\ ASSEMBLY: Removal\ \&\ \underline{Installation}.$

2 Remove air breather hose 1 and clip 2.

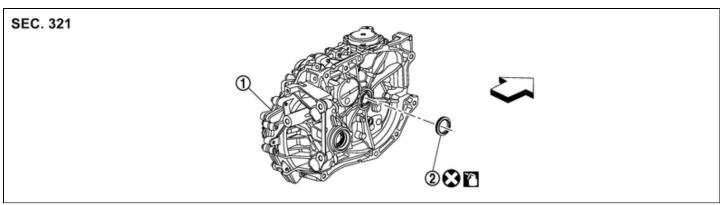


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INSTALLATION

Note the following, and install in the reverse order of removal.

- When installing air breather hose, preventing crush and clogging caused by bending.
- Insert the air breather hose all the way to the bulged part of tube.



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1	Reduction gear	2	Shaft oil seal				
Vehic	le front						
🐼: Always	replace after every disassembly.						
? Apply g	ear oil.						



REMOVAL

- 1 Remove reduction gear. Refer to REDUCTION GEAR: Unit Removal & Installation.
- 2 Remove shaft oil seal, using oil seal remover (commercial service tool).

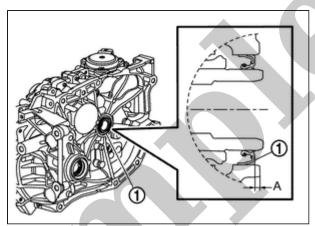
CAUTION:

Never damage mounting surfaces of the shaft oil seal.

INSTALLATION

Note the following, and install in the reverse order of removal.

• Using a drift (commercial service tools), drive the shaft oil seal (1) within the dimension (A) shown as follows.



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Dimension (A)

: $2.0 \pm 0.3 \text{ mm} (0.079 \pm 0.012 \text{ in})$

CAUTION:

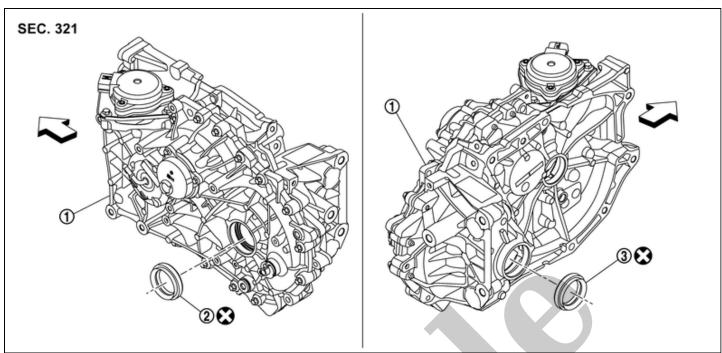
- Never reuse oil seal.
- Be careful not to scratch the lip of the oil seal.
- When installing, never incline oil seal.
- Apply gear oil onto the circumference of oil seal.
- If oil seal is inserted deeper than the reference value, use new oil seal and perform installing again.



The reference is the pull-in direction of the side oil seal.

• Check the oil level and the oil leakage after installation. And check the oil leakage from reduction gear again, after driving the vehicle. Refer to <u>REDUCTION GEAR OIL</u>: <u>Inspection</u>.

REDUCTION GEAR DIFFERENTIAL SIDE OIL SEAL : Exploded View RDE-001932066



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