

TRANSFER CASE

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دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



TRANSFER CASE

Warnings and Precautions

Warnings

1. It is not recommended to use non-original replacement parts, because they can be damage some units and affect vehicle safety.
2. Take extra care when operating locking plate and spring load retaining equipment. For personal safety, it is recommended to wear safety glasses that meet industrial strength in process of working in vehicle or part assembly area of vehicle.

Precautions

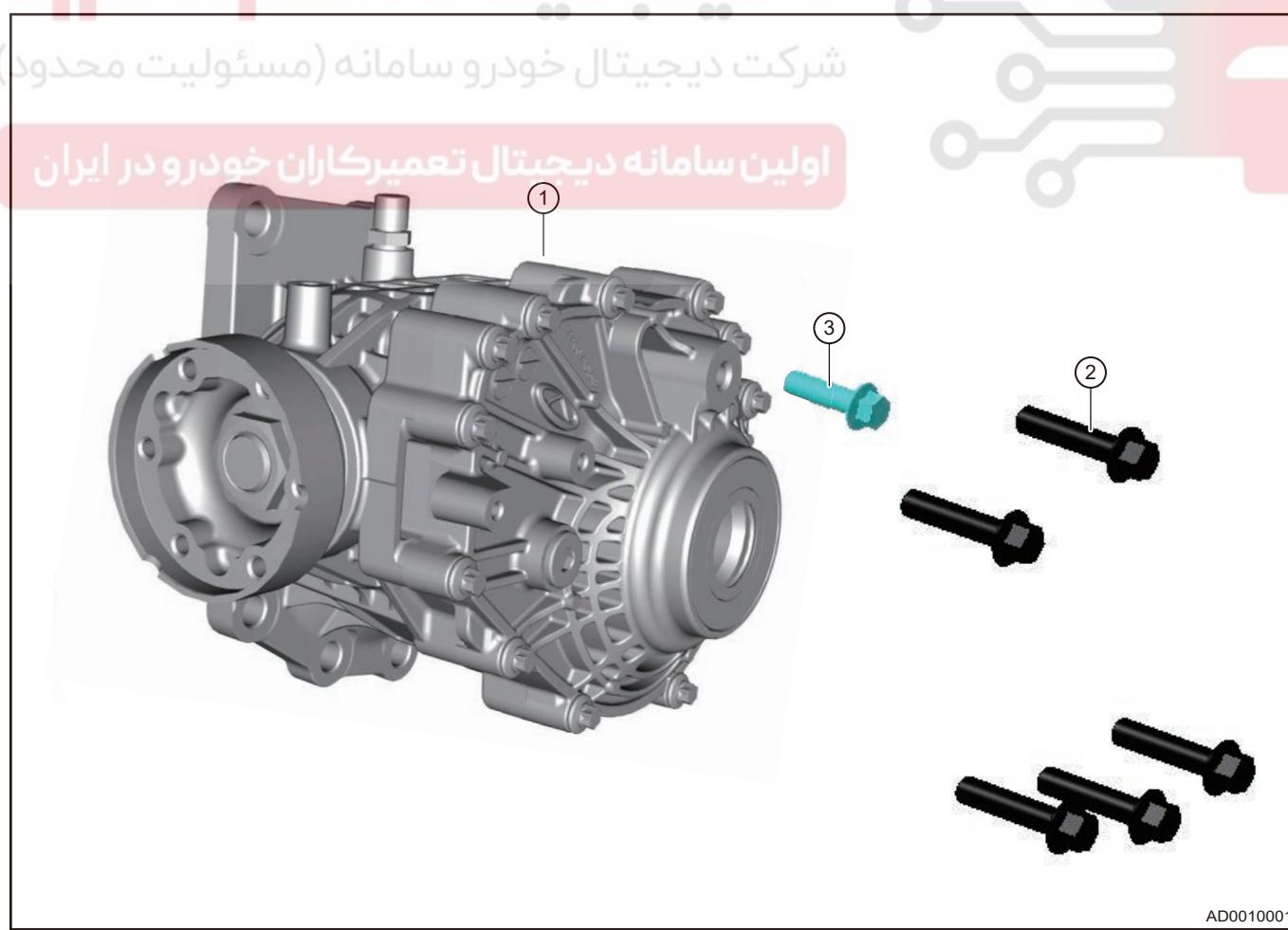
1. In order to ensure safe and reliable operation of vehicle and drive shaft, the correct repair and maintenance is very important. Some of these operations need to use some special designed tools, and these tools can only be used in the corresponding repair and maintenance operations.

Overview

Description

Transfer case function is to distribute power output from transmission to each drive axle and further increase torque.

System Components Diagram



1	Transfer Case Assembly	2	Hexagon Flange Bolt
3	Hexagon Flange Bolt		

Transfer case is a device that distributes engine power, which can output power to rear axle.

Specifications

Torque Specifications

Description	Torque (N·m)
5 Fixing Bolts Between Transfer Case and Transmission	120 ± 10
1 Fixing Bolt Between Transfer Case and Transmission	70 ± 10
Baffle Plate Fixing Bolt	9 ± 1.5

Transfer Maintenance

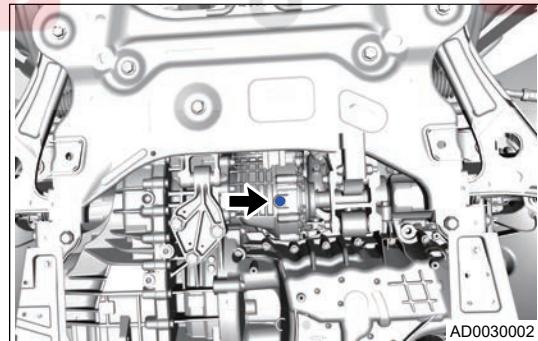
Maintenance-free (except for the cause of failure).

Oil Type	Total Capacity (After-sales Maintenance Oil Capacity)
SAF PD	0.5 L

On-Vehicle Service

Transfer Oil Draining and Filling

1. Lift the vehicle.
2. Remove the transfer drain bolt (arrow) and drain transfer oil.



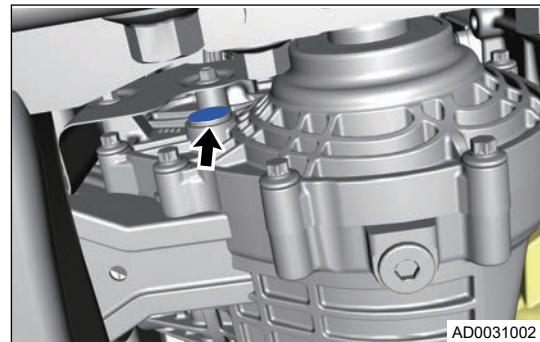
3. Install and tighten the drain bolt.

Tightening torque: $35 \pm 3.5 \text{ N}\cdot\text{m}$

08 - TRANSFER CASE

4. Remove the transfer drain bolt (arrow).

Tightening torque: $35 \pm 3.5 \text{ N}\cdot\text{m}$



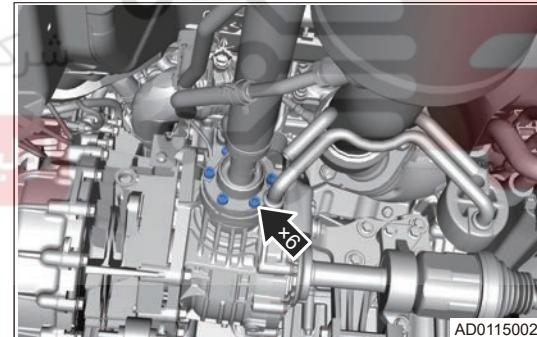
5. Fill new SAF PD oil until oil level reaches the bottom of filler bolt hole.

Transfer Assembly

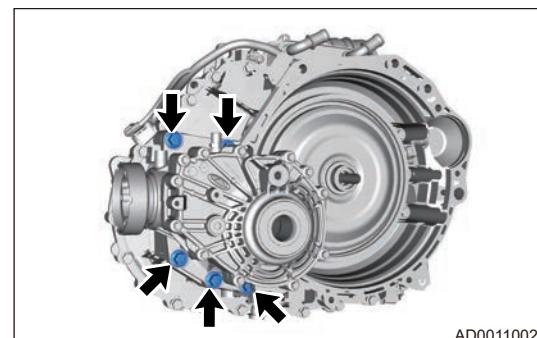
Removal

1. Remove the front right wheel.
2. Drain the transmission oil.
3. Drain the transfer oil.
4. Remove the front right drive shaft assembly (4WD).
5. Remove the precatalytic converter assembly.
6. Remove the transfer case assembly.

- a. Remove 6 fixing bolts (arrow) between propeller shaft and PTU output flange.



- b. Remove 5 fixing bolts (arrow) between transfer and transmission.



- c. Remove the transfer assembly.

Warning

- When handling the transfer, please pay attention to the flange surface connected with intermediate shaft and spline connected with transmission differential. Please pay attention to whether O-ring is intact and whether the oil seal is intact to avoid touching the lip of oil seal. Please handle the transfer case with care during whole operation, and do not move the transfer case upside down.

Installation**Warning**

- Install transfer spline to differential by turning it left and right, and align the transfer case dowel pin with positioning hole of differential case simultaneously.
- When installing 5 tightening bolts between transfer and transmission, follow the order of up, down, left and right and tighten diagonally.

1. Install the transfer assembly.
2. Install 5 fixing bolts between transfer and transmission.

Tightening torque: $120 \pm 10 \text{ N}\cdot\text{m}$

3. Install 4 fixing bolts between propeller shaft and PTU output flange.

Tightening torque: $30 \pm 3 \text{ N}\cdot\text{m}$

4. Install the precatalytic converter assembly.
5. Install the front right drive shaft assembly (4WD).
6. Fill the transfer oil.
7. Install the front right wheel.