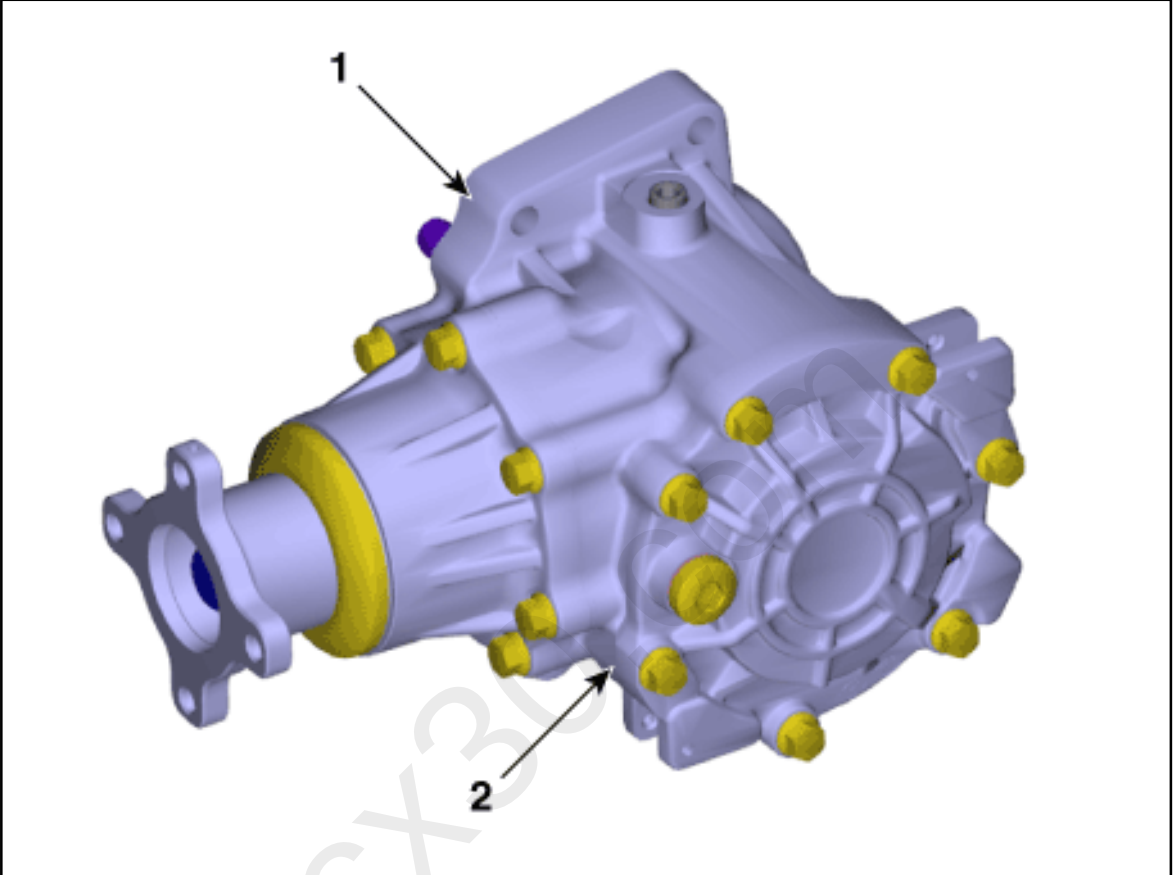
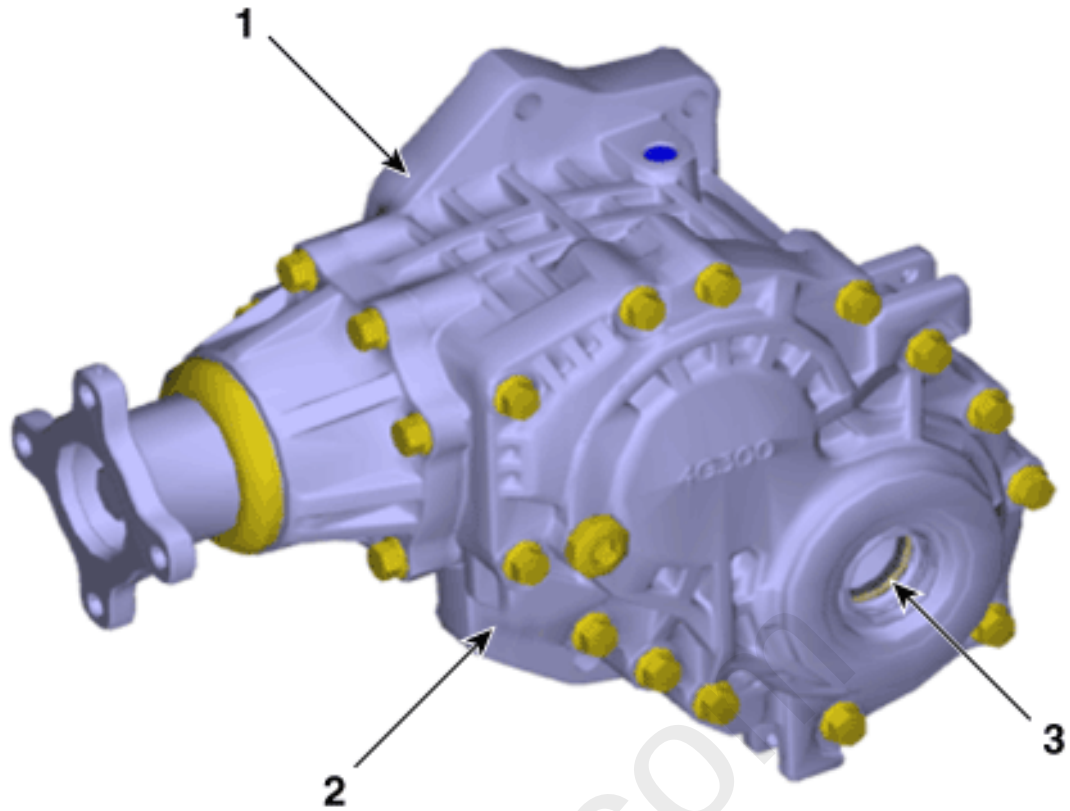


Trouble shooting

Area of leakage occuring	Area	Type
① Connecting part/under part of transfer case ② Connecting part of transmission	 A 3D CAD model of a vehicle transfer case and transmission assembly. The main housing is light blue, while the input and output shafts and their associated components are highlighted in yellow. Numerous yellow bolts are visible around the perimeter of the housing. Two arrows point to specific areas: arrow 1 points to a small purple-colored bolt on the top left of the housing, and arrow 2 points to a yellow bolt on the bottom right of the housing. A faint 'mcx3d' watermark is visible across the center of the image.	[A]
① Connecting part/under part of transfer case ② Connecting part of transmission ③ Assembly part of drive shaft		



Symptom	Expected cause	Countermeasure
Oil leakage	Oil leakage on connecting part of transfer case (①)	Adjustment or replacement, adjustment
	Oil leakage on under part of transfer case (①)	Adjustment or replacement, adjustment
	Oil leakage trace on connecting part of transmission (②)	Adjustment
	Oil leakage at assembly part of drive shaft (③)	Adjustment or replacement, adjustment
	Upside down the oil seal main lip (②,③)	Replacement
	Pushed aside oil seal (②,③)	Replacement
	fallen out oil seal (②,③)	Replacement
	Spline abrasion (check whether spline at transmission has abrasion or not)	Adjustment or replacement, adjustment

Noise	"Repeated clicking noise" noise while driving	Adjustment
	"Repeated tapping noise" noise from under the vehicle while full turn circling	Adjustment
	"Clunking noise" noise when the vehicle accelerate rapidly or braking rapidly. - Spline abrasion (check whether spline at transmission has abrasion or not)	Adjustment or replacement, adjustment



- ※ Range of "adjustment"
- Clean out the oil or trace of grease leakage
- Check whether engine or transmission has oil leakage and oil flow down or not.
- Check the parts that is related to trouble area.

Specifications

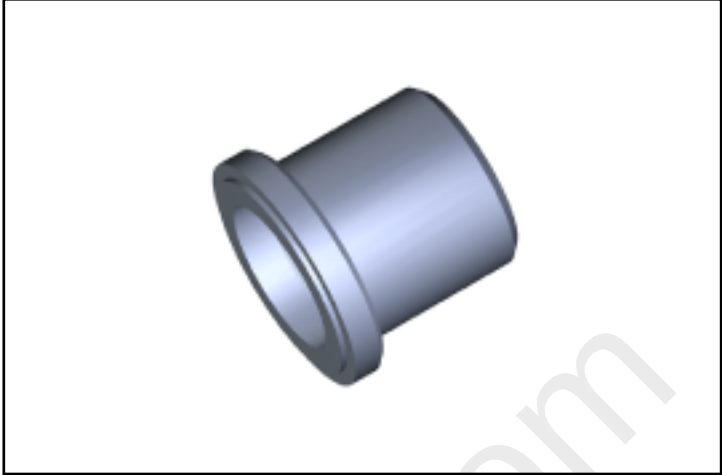
Tightening Torques

Items	N.m	Kgf.m	lb-ft
Transfer assembly mounting bolts	60.8 - 65.7	6.2 - 6.7	44.8 - 48.5
4WD ECM mounting nuts	9.8 - 11.8	1.0 - 1.2	7.2 - 8.7
Coupling assembly mounting bolts	56.9 - 64.7	5.8 - 6.6	42.0 - 47.7
Propeller shaft mounting bolts	49.0 - 68.6	5.0 - 7.0	36.2 - 50.6
Transfer oil drain plug	39.2 - 58.8	4.0 - 6.0	28.9 - 43.4
Transfer oil filler plug	39.2 - 58.8	4.0 - 6.0	28.9 - 43.4
Hydraulic motor mounting bolt	9.8 - 11.8	1.0 - 1.2	7.2 - 8.7
Pressure sensor mouting bolt	10.8 - 14.7	1.1 - 1.5	7.9 - 10.8

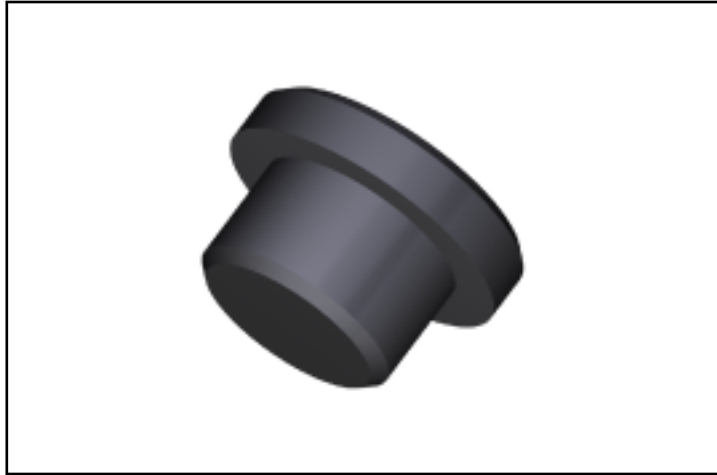
Lubricants

Type	Items	Specification	Capacity
[A]	Transfer oil	Hypoid gear oil MS 517-15 GTC 75W/85 (GL-5) (SK HCT-5 GEAR OIL 75W/85 or EQUIVALENT)	Filled up to lower filler plug thread level. 0.5L ± 0.0225L (0.13 U.S gal, 0.52 U.S qt, 0.44 lmp qt) ± (0.01 U. S gal, 0.03 U.S qt, 0.02 lmp qt)
[B]			0.65 L (0.17 U.S. gal, 0.69 U.S.qt, 0.57 lmp,qt)
ALL	Coupling oil	TL7300-SHELL TF0870	0.385ml ± 17.5ml (0.10 U.S. gal.,0.41U.S. qt,0.34Imp.qt.) ± (0.04 U.S. gal.,0.16U.S. qt,0.13Imp.qt.)

Special Service
Tools

Type	Tools (Number and name)	Illustration	Use
[A]	Oil seal installer 09473- D3600		Used for installing the transfer case oil seal (Driveshaft side) (Used with the handle)
	Handle 09231- H1100		Used for installing the transfer case oil seal (Used with the oil seal installer)
	Oil seal #1 installer 0K473- P2100		Used for installing the transfer case oil seal #1 (Driveshaft side) (Used with the handle)

Oil seal #2
installer
OK473-
P2200



Used for
installing the
transfer case
oil seal #2
(Driveshaft
side)
(Used with
the handle)

[B]

Oil seal #3
installer
OK473-
P2300



Used for
installing the
transfer case
oil seal #3
(Driveshaft
side)
(Used with
the handle)

Oil seal
installer
OK473-
P2400



Used for
installing the
transfer case
(Transaxle
side)
(Used with
the handle)

Handle
09231-
H1100



Used for
installing the
transfer case
oil seal
(Used with
the oil seal
installer)