Hyundai Kona: DCT (Dual Clutch Transmission) System / Specifications

Specifications

Transmission type		D7UF1	
Egnine type		Gasoline 1.6 T-GDI	
Transmission fluid	Quantity	1.9 - 2.0L (0.50 - 0.53 U.S.gal., 2.01 - 2.11 U.S. qt., 1.67 - 1.76 lmp qt.)	
	Specified lubricant	API Service GL-4, SAE 70W • Recommended oil - SHELL : SPIRAX S6 GHME 70W DCTF - SK : HK SYN DCTF - GS CALTEX : GS DCTF HD 70W	
Gear ratio	Drive System	2WD	4WD
	1st	3.929	3.643
	2nd	2.318	2.174
	3rd	2.043	1.826
	4th	1.07	1.024
	5th	0.822	0.809
	6th	0.884	0.854
	7th	0.721	0.717
	Reverse	5.304	4.696
Final gear ratio	1st, 2nd, 4th, 5th	4.294	4.643
	3rd, 6th, 7th, R	3.174	3.611

Clutch Actuator

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Item	Condition	Specification
Resistance(line to line)	Motor 1	60 mΩ ± 10 %
	Motor 2	64 mΩ ± 10 %
Rated voltage		12V
Max. current		60A
Operating condition		-40 to 257°F (-40 to 125°C)

Gear Actuator Motor

Item		Specification
Resistance (line to line)	Shift motor 1/2	126.4 mΩ ± 10 %
	Select solenoid 1/2	0.7Ω ± 10 %
Max. current	Shift motor 1/2	45A
	Select solenoid 1/2	20A
Select solenoid sensor output	Push	4.0 ± 0.15V
	Pull	1.0 ± 0.15V
Operating condition		-40 to 257°F (-40 to 125°C)
Sensor supply voltage		8.75V ± 10 %

Inhibitor Switch

▷ Type : Combination of output signals from 4 terminals

▷ Specifications

Item	Specifications
Output type	Combination of output signals
Power supply (V)	12

Input speed sensor 1/2

Item	Specification
Type	Hall effect sensor
Operating condition	-40 to 257°F (-40 to 125°C)
Output signal	High : 11.8 - 16.8 mA
	Low : 5.9 - 8.4 mA

Tightening Torques

Item	N.m	kgf.m	lb-ft
Clutch actuator motor mounting bolt	3.9 - 5.9	0.4 - 0.6	2.9 - 4.3
Clutch actuator mounting bolt	19.6 - 26.5	2.0 - 2.7	14.5 - 19.5
Fork cover mounting bolt	3.9 - 5.9	0.4 - 0.6	2.9 - 4.3

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Gear actuator mounting bolt	19.6 - 26.5	2.0 - 2.7	14.5 - 19.5
	9.8 - 11.8	1.0 - 1.2	7.2 - 8.7
Input shaft speed sensor mounting bolt	9.8 - 11.8	1.0 - 1.2	7.2 - 8.7
Inhibitor swtich mounting bolt	9.8 - 11.8	1.0 - 1.2	7.2 - 8.7
Manual lever mounting nut	17.4 - 24.5	1.8 - 2.5	13.0 - 18.1
Oil drain plug	44.1 - 48.8	4.5 - 6.0	32.5 - 43.4
Oil filler plug	58.8 - 78.5	6.0 - 8.0	43.4 - 57.9
Shift cable bracket mounting bolt	19.6 - 26.5	2.0 - 2.7	14.5 - 19.5
Shift cable retainer mounting nut	11.8 - 14.7	1.2 - 1.5	8.7 - 10.8
Shift cable mounting nut	9.8 - 13.7	1.0 ~ 1.4	7.2 - 10.1
Shift lever assembly mounting bolt	8.8 - 13.7	0.9 - 1.4	6.5 - 10.1
Starter mounting bolt	42.1 - 53.9	4.3 - 5.5	31.1 - 39.7
Transmission support bracket mounting bolt	88.2 - 107.8	9.0 - 11.0	65.0 - 79.5
Transmission support bracket bolt	58.8 - 78.5	6.0 - 8.0	43.4 - 57.9
Transmission upper mounting bolt (Transmission=>Engine)	42.1 - 53.9	4.3 - 5.5	31.1 - 39.8
Transmission lower mounting bolt (Engine=>Transmission)	42.1 - 53.9	4.3 - 5.5	31.1 - 39.8
TCM bracket mounting nut	9.8 - 11.8	1.0 - 1.2	7.2 - 8.7
Clutch engagement bearing and bearing sleeve mounting bolt	9.8 - 11.8	1.0 - 1.2	7.2 - 8.7

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Lubricants

Item	Specified lubricant	Quantity
Input shaft 1/2 spline	Extreme pressure grease for vehicle	0.15 - 0.25 g
Clutch Engagement Fork	Extreme pressure grease for vehicle	0.1 - 0.2 g