

Specifications

Engine	Item	Specification
ALL	Clutch operation method	Hydraulic type
		Electronic type
	Clutch cover assembly type	Diaphragm spring strap
	Clutch disc type	Single dry with diaphragm
Gasoline 1.6 T-GDI	Clutch disc facing diameter (Outer x inner)	$\varnothing 235 \pm 1 \times \varnothing 155 \pm 0.8 \text{ mm}$ ($\varnothing 9.2520 \pm 0.03937 \times \varnothing 6.1024 \pm 0.0315 \text{ in.}$)
	Clutch disc thickness [When free]	$8.65 \pm 0.3 \text{ mm}$ ($0.3405 \pm 0.011 \text{ in.}$)
	Clutch disc rivet depth	Min 1.1mm (0.043 in)
Diesel 1.6 TCI	Clutch disc facing diameter (Outer x inner)	$\Phi 234 \pm 1 \times \Phi 170 (+1.5/-1.0)$ ($\Phi 9.213 + 0.0394 \times \Phi 6.6929 (+0.0591/-0.0394 \text{ in})$)
	Clutch disc thickness [When free]	$7.2 \pm 0.3 \text{ mm}$ ($0.2834 \pm 0.011 \text{ in.}$)
	Clutch disc rivet depth	Min 1.0mm (0.039 in)
Gasoline 2.0 MPI	Clutch disc facing diameter (Outer x inner)	$\varnothing 210 \pm 1 \times \varnothing 145 \pm 1$ ($\varnothing 8.2677 \pm 0.0394 \times \varnothing 5.7087 \pm 0.0394$)
	Clutch disc thickness [When free]	$8.3 \pm 0.3 \text{ mm}$ ($0.3268 \pm 0.0118 \text{ in.}$)
	Clutch disc rivet depth	Min 1.0mm (0.039 in)

Service Standard

Engine	Item	Specification
ALL	Clutch disc rivet depth	0.3 mm (0.0118 in.)

Tightening Torques

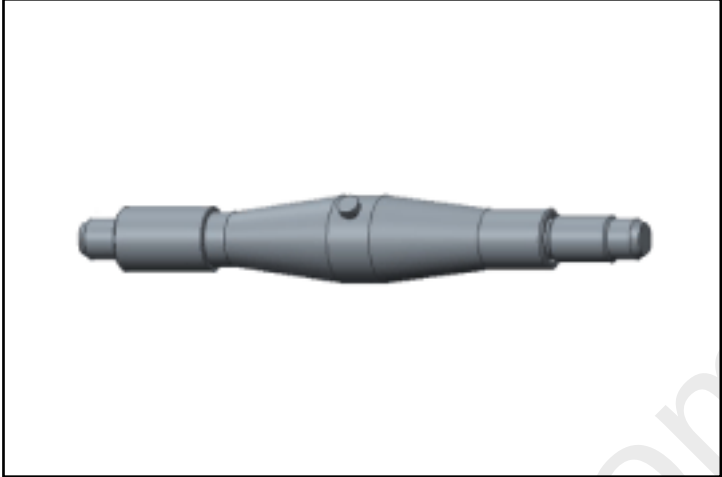
Engine	Item	N.m	kgf.m	lb-ft
ALL	Clutch pedal mounting bolt & nut	16.7 - 25.5	1.7 - 2.6	12.3 - 18.8

Gasoline 1.6 T-GDI	Clutch cover mounting bolt	14.7 - 21.6	1.5 - 2.2	10.8 - 15.9
Gasoline 2.0 MPI / Diesel 1.6 TCI		11.8 - 14.7	1.2 - 1.5	8.7 - 10.8

Lubricants

Engine	Item	Specified lubricants	Quantity
Gasoline 2.0 MPI / 1.6 T-GDI	Input spline	CASMOLY L9508	0.1 - 0.2g
Diesel 1.6 TCI			0.1 - 0.3g
ALL	Concentric slave cylinder assembly	KLUBER 9R100	As required
	Clutch system fluid	Brake fluid DOT 3 or DOT 4	As required

Special Service
Tools

Tools (Number and Name)	Illustration	Use
09411-1P000 Clutch disc guide		Installation of the clutch disc.

Troubleshooting

Trouble symptom		Suspect area	Remedy
Clutch slipping •Car will not respond to engine speed during acceleration •Insufficient vehicle speed •Lack of power during uphill driving		Insufficient pedal free play	Adjust
		Clogged hydraulic system	Correct or replace parts
		Excessive wear of clutch disc facing	Replace
		Hardened clutch disc facing, or oil on surface	Replace
		Damaged pressure plate or flywheel	Replace
		Weak or broken pressure spring	Replace
Difficult gear shifting (gear noise during shifting)		Excessive pedal free play	Adjust
		Hydraulic system fluid leaks, air trapping or clogging	Repair or replace parts
		Unusual wear or corrosion of the clutch disc spline	Replace
		Excessive vibration (distortion) of the clutch disc	Replace
Clutch noisy	When the clutch is not used	Insufficient play of the clutch pedal	Adjust
		Excessive wear of the clutch disc facing	Replace
	A noise is heard after the clutch is disengaged	Unusual wear and/ or damage of the release bearing	Replace
	A noise is heard when the clutch is disengaged	Insufficient grease on the sliding surface of the bearing sleeve	Repair
		Improperly installed clutch assembly or bearing	Repair

	A noise is heard when the car suddenly rolled up with the clutch partially engaged	Damaged pilot bushing	Replace
Hard pedal effort		Insufficient lubrication of the clutch pedal	Repair
		Insufficient lubrication of the spline part of clutch disc	Repair
		Insufficient lubrication of the clutch release lever shaft	Repair
Hard to shift or will not shift		Excessive clutch pedal free play	Adjust the pedal free play
		Faulty of the clutch release cylinder	Repair the release cylinder
		Clutch disc out of place, runout is excessive or lining broken	Inspect the clutch disc
		Spline on the input shaft or clutch disc dirty or burned	Repair as necessary
		Faulty of the clutch pressure plate	Replace the clutch cover
Clutch slips		Insufficient clutch pedal free play	Adjust the pedal free play
		Clogged of the hydraulic system	Repair or replace parts
		Clutch disc lining oily or worn out	Inspect the clutch disc
		Faulty pressure plate	Replace the clutch cover
		Binding of the release fork	Inspect the release fork
Clutch grabs/chatters		Clutch disc lining oily or worn out	Inspect the clutch disc

	Faulty the pressure plate	Replace the clutch cover
	Bent clutch diaphragm spring	Replace the clutch cover
	Worn or broken torsion spring	Replace the clutch disc
	Engine mounts loose	Repair as necessary
Clutch noisy	Damaged the clutch pedal bushing	Replace the clutch pedal bushing
	Loose part inside housing	Repair as necessary
	Worn or dirty release bearing	Replace the release bearing
	Sticking release fork or linkage	Repair as necessary