

GENESIS COUPE(BK) >2010 > G 2.0 DOHC > Suspension System > General Information > Specifications

Specifications

Front Suspension

Item		Specification
Suspension type		Multi link
Shock absorber	Type	Gas
		Strut tour bar
Coil spring	Free Height [I.D. color]	294.0mm (Blue - White)

Rear Suspension

Item		Specification
Suspension type		Multi link
Shock absorber	Type	Gas
Coil spring	Free Height [I.D. color]	321.6mm (Blue - 1)
		307.8mm (Green - 1)

Wheel & Tire

Item			Specification
Wheel			7.5J x 18 : 8.0J x 18
			8.0J x 19 : 8.5J x 19
Temporary Spare Wheel	Aluminum		4.0T x 18
	Steel		4.0T x 17
Tire			225/45 R18 : 245/45 R18
			225/40 R19 : 245/40 R19
Temporary Spare Tire	Aluminum		135/80 D18
	Steel		135/90 D17
Tire pressure	Front	P225/45R18	2.5+0.07kg/cm ² (35+1.0psi)
		P225/40R19	2.5+0.07kg/cm ² (35+1.0psi)
		T135/90D17	4.2+0.07kg/cm ² (60+1.0psi)
	Rear	P245/45R18	2.5+0.07kg/cm ² (35+1.0psi)
		P245/40R19	2.5+0.07kg/cm ² (35+1.0psi)
		T135/80D18	4.2+0.07kg/cm ² (60+1.0psi)

Wheel Alignment

Item		Specification	
		Front	Rear
Toe-in	Total	0.28°±0.16°	0.16°±0.2°
	Individual	0.14°±0.8°	0.8°±0.1°
Camber angle		-0.5°±0.5°	-1.5°±0.5°

Caster angle	7.45°±0.5°	-
King-pin angle	13.7°	-

Tightening Torques

Front Suspension

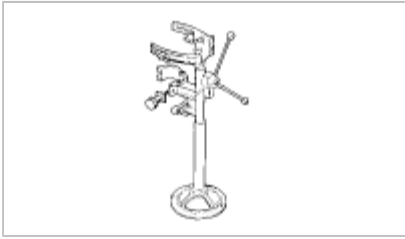
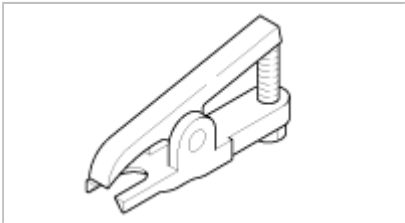

Item	Tightening torque (kgf.m)		
	N.m	Kgf.m	lb-ft
Hub nuts	90 ~ 110	9 ~ 11	65 ~ 80
Tension arm to sub frame	140 ~ 160	14 ~ 16	101 ~ 116
Tension arm to front axle	80 ~ 90	8 ~ 9	58 ~ 65
Tension arm to flexible hose	7 ~ 11	0.7 ~ 1.1	5 ~ 8
Lateral arm to sub frame	140 ~ 160	14 ~ 16	101 ~ 116
Lateral arm to front axle	80 ~ 90	8 ~ 9	58 ~ 65
Front stabilizer bar to sub frame	50 ~ 65	5 ~ 6.5	36 ~ 47
Front stabilizer bar to stabilizer link	100 ~ 120	10 ~ 12	72 ~ 87
Steering gear box to front axle	24 ~ 34	2.4 ~ 3.4	17 ~ 24

Rear Suspension

Item	Tightening torque (kgf.m)		
	N.m	Kgf.m	lb-ft
Hub nuts	90 ~110	9 ~ 11	65 ~ 80
Rear shock absorber to frame	45 ~ 60	4.5 ~ 6	33 ~ 43
Rear shock absorber to lower arm	140 ~ 160	14 ~ 16	101 ~ 116
Front upper arm to sub frame	100 ~ 120	10 ~ 12	72 ~ 87
Front upper arm to rear axle	100 ~ 120	10 ~ 12	72 ~ 87
Rear upper arm to sub frame	100 ~ 120	10 ~ 12	72 ~ 87
Rear upper arm to rear axle	140 ~ 160	14 ~ 16	101 ~ 116
Rear stabilizer bar to sub frame	50 ~ 65	5 ~ 6.5	36 ~ 47
Rear stabilizer link to lower arm	100 ~ 120	10 ~ 12	72 ~ 87
Rear stabilizer bar to stabilizer link	100 ~ 120	10 ~ 12	72 ~ 87
Rear lower arm to sub frame	140 ~ 160	14 ~ 16	101 ~ 116
Rear lower arm to rear axle	140 ~ 160	14 ~ 16	101 ~ 116
Assist arm to sub frame	140 ~ 160	14 ~ 16	101 ~ 116
Assist arm to rear axle	100 ~ 120	10 ~ 12	72 ~ 87
Trailing arm to sub frame	100 ~ 120	10 ~ 12	72 ~ 87
Trailing arm to rear axle	100 ~ 120	10 ~ 12	72 ~ 87

**GENESIS COUPE(BK) >2010 > G 2.0 DOHC > Suspension System > General
Information > Special Service Tools**

Special Service Tools




Tool (Number and Name)	Illustration	Use
09546-26000 Strut spring compressor		Compression of coil spring
09568-34000 Ball joint remover		Removal of Ball joint
09568-2J100 Ball joint remover		Removal of Ball joint




GENESIS COUPE(BK) >2010 > G 2.0 DOHC > Suspension System > General Information > Troubleshooting

Troubleshooting

Trouble symptom	Probable cause	Remedy
Hard steering	Improper front wheel alignment	Repair
	Excessive turning resistance of lower arm ball joint	Replace
	Flat tire	Adjust
	No power assist	Repair or Replace
Poor return of steering wheel to center	Improper front wheel alignment	Repair
Poor ride quality	Improper front wheel alignment	Repair
	Damaged shock absorber	Repair or Replace
	Varied or damaged stabilizer	Replace
	Varied or damaged coil spring	Replace
	Worn lower arm bushing	Replace
Abnormal tire wear	Improper front wheel alignment	Repair
	Improper tire inflation pressure	Adjust
	Worn of shock absorber	Replace
Wandering	Improper front wheel alignment	Repair
	Poor turning resistance of lower arm ball joint	Repair
	Loose or worn lower arm bushing	Re-tighten or Replace
Vehicle pulls to one side	Improper front wheel alignment	Repair
	Excessive turning resistance of lower arm ball joint	Replace
	Varied or damaged coil spring	Replace
	Bent lower arm	Replace
Steering wheel shimmy	Improper front wheel alignment	Repair
	Excessive turning resistance of lower arm ball joint	Replace
	Varied or damaged stabilizer	Replace
	Worn lower arm bushing	Replace
	Worn of shock absorber	Replace
	Varied or damaged coil spring	Replace
Bottoming	Broken or worn spring	Replace
	Malfunction of shock absorber	Replace

Wheel And Tire Diagnosis

Rapid wear at the center	Rapid wear at both shoulders	Wear at one shoulder
		

<ul style="list-style-type: none"> • Center-tread down to fabric due to excessive over inflated tires • Lack of rotation • Excessive toe on drive wheels • Heavy acceleration on drive 	<ul style="list-style-type: none"> • Under-inflated tires • Worn suspension components • Excessive cornering speeds • Lack of rotation 	<ul style="list-style-type: none"> • Toe adjustment out of specification • Camber out of specification • Damaged strut • Damaged lower arm • Under-inflated tires
Partial wear	Feathered edge	Wear pattern
		
<ul style="list-style-type: none"> • Caused by irregular burrs on brake drums. • Under-inflated tires • Lack of rotation 	<ul style="list-style-type: none"> • Toe adjustment out of specification • Damaged or worn tie rods • Damaged knuckle 	<ul style="list-style-type: none"> • Excessive toe on non-drive wheels • Lack of rotation