2GR-FE STARTING

SERVICE DATA

Starter assembly	Standard current: 90 A or less at 11.5 V
Repair service starter kit	Standard resistance 50 - C: Below 1 Ω 50 - Body: Below 2 Ω
Starter armature assembly	Standard resistance Segment: Below 1 Ω Segment - Coil core: 10 kΩ or higher
	Standard length: 3.3 to 4.0 mm (0.1299 to 0.1575 in.)
Starter commutator end frame assembly	Standard length: 4.0 to 9.0 mm (0.158 to 0.354 in.)
	Standard resistance Positive (+) - Negative (-): 10 kΩ or higher
Snap ring	Maximum length: 5.0 mm (0.197 in.)
Starter relay	3 - 5: 10 kΩ or higher 3 - 5: Below 1 Ω (when battery voltage is applied to terminals 1 and 2)
Ignition switch	LOCK: Between all terminals 10 kΩ or higher ACC: 1 (AM1) - 3 (ACC) Below 1 Ω ON: 1 (AM1) - 3 (ACC) Below 1 Ω ON: 3 (ACC) - 2 (IG1) Below 1 Ω ON: 1 (AM1) - 2 (IG1) Below 1 Ω ON: 5 (AM2) - 6 (IG2) Below 1 Ω START: 1 (AM1) - 2 (IG1) Below 1 Ω START: 5 (AM2) - 6 (IG2) Below 1 Ω START: 6 (IG2) - 4 (ST2) Below 1 Ω START: 5 (AM2) - 4 (ST2) Below 1 Ω

TORQUE SPECIFICATIONS

Part Tightened	N*m	kgf*cm	ft.*lbf
Starter assembly x Transaxle housing	37	380	26
Starter wire x Starter assembly	9.8	100	7
Air cleaner inlet No. 1 x Body	5.0	51	44 in.*lbf
Air cleaner bracket x Body	7.8	80	69 in.*lbf
Air cleaner case sub-assembly x Air cleaner bracket	5.0	51	44 in.*lbf
Air cleaner case sub-assembly x Body	5.0	51	44 in.*lbf
Air cleaner cap sub-assembly x Air cleaner case sub-assembly	5.0	51	44 in.*lbf
Air cleaner inlet No. 2 x Body	5.0	51	44 in.*lbf
Battery clamp sub-assembly x Body	5.5	56	49 in.*lbf
Battery clamp sub-assembly x Battery clamp bolt	5.5	56	49 in.*lbf
Terminal x Battery	3.5	36	31 in.*lbf
Starter yoke assembly x Repair service starter kit	6.0	61	53 in.*lbf
Repair service starter kit x Repair service starter kit	7.5	76	66 in.*lbf
Lead wire x Repair service starter kit	10	102	7