

3MZ-FE STARTING**SERVICE DATA**

Starter Specified current:	90 A or less at 11.5 V
Starter relay Specified condition:	3 - 5: 10 k Ω or higher 3 - 5: Below 1 Ω (Applying battery voltage terminals 1 and 2)
Starter armature assembly Depth:	STD: 3.1 mm (0.122 in.) Maximum: 3.8 mm (0.150 in.)
Starter commutator end frame assembly Brush length	STD: 9.0 mm (0.354 in.) Minimum: 4.0 mm (0.158 in.)
Ignition Switch	LOCK: Between all terminals 10 k Ω or higher ACC: 2 - 3 Below 1 Ω ON: 2 - 3 Below 1 Ω ON: 2 - 4 Below 1 Ω ON: 6 - 7 Below 1 Ω START: 1 - 2 Below 1 Ω START: 2 - 4 Below 1 Ω START: 6 - 7 Below 1 Ω START: 7 - 8 Below 1 Ω

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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	87 in.*lbf
Air cleaner inlet No.1 x Body	7.0	71	62 in.*lbf
Air cleaner bracket x Body	12	122	9
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	7.0	71	62 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 Starter commutator end frame assembly	6.0	61	53 in.*lbf
Repair service starter kit x Starter motor terminal kit	7.5	76	66 in.*lbf
Lead wire x Repair service starter kit	10	102	7

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