

# TORQUE SPECIFICATION

## 2AZ-FE

Part Tightened		N·m	kgf·cm	ft·lbf
Starter assy				
Starter assy x Engine		37	377	27
Starter wire x Terminal 30 of starter		9.8	100	7.0
Starter drive housing assy x Magnet switch assy		7.5	76	66 in.·lbf
Starter commutator end frame assy x Starter drive housing assy		6.0	61	53 in.·lbf
Lead wire of starter yoke x Terminal C of magnet switch assy		10	102	7.0
Battery clamp x Battery clamp bolt		5.5	56	49 in.·lbf
Cable x Battery terminal		3.5	36	31 in.·lbf
Generator assy (100A)				
Generator assy x Engine	M8	21	214	15
	M10	52	530	38
Generator wire x Generator assy		9.8	100	7.0
Generator rectifier end frame x Drive end frame assy		5.8	59	51 in.·lbf
Generator brush holder assy x Generator rectifier end frame		1.8	18	16 in.·lbf
Generator rear end cover x Generator rectifier end frame		4.6	47	41 in.·lbf
Retainer plate x Drive end frame assy generator		2.3	23	20 in.·lbf
Generator pulley x Generator rotor assy		110	1,122	81
Generator assy (130A)				
Generator assy x Engine	M8	21	214	15
	M10	52	530	38
Generator wire x Generator assy		9.8	100	7.0
Generator rectifier end frame x Drive end frame assy		5.8	59	51 in.·lbf
Generator brush holder assy x Generator rectifier end frame		1.8	18	16 in.·lbf
Generator rear end cover x Generator rectifier end frame		4.6	47	41 in.·lbf
Retainer plate x Drive end frame assy generator		2.3	23	20 in.·lbf
Generator pulley x Generator rotor assy		110	1,122	81

## 3MZ-FE

Part Tightened		N·m	kgf·cm	ft·lbf
Starter assy				
Starter assy x Engine		37	377	27
Starter wire x Terminal 30 of starter		9.8	100	7.0
Starter drive housing assy x Magnet switch assy		7.5	76	66 in.·lbf
Starter commutator end frame assy x Starter drive housing assy		6.0	61	53 in.·lbf
Lead wire of starter yoke x Terminal C of magnet switch assy		10	102	7.0
Battery clamp x Battery clamp bolt		5.5	56	49 in.·lbf
Cable x Battery terminal		3.5	36	31 in.·lbf
Generator assy (100A)				
Generator assy x Generator bracket No. 2		58	592	43
Generator assy x Generator belt adjusting bar		18	184	13
Generator wire x Generator assy		9.8	100	7.0
Generator rectifier end frame x Drive end frame assy		5.8	59	51 in.·lbf
Generator brush holder assy x Generator rectifier end frame		1.8	18	16 in.·lbf
Generator rear end cover x Generator rectifier end frame		4.6	47	41 in.·lbf
Retainer plate x Drive end frame assy generator		2.3	23	20 in.·lbf
Generator pulley x Generator rotor assy		110	1,122	81
Generator assy (130A)				
Generator assy x Generator bracket No. 2		58	592	43
Generator assy x Generator belt adjusting bar		18	184	13
Generator wire x Generator assy		9.8	100	7.0

## SERVICE SPECIFICATIONS - STARTING &amp; CHARGING

Part Tightened	N·m	kgf·cm	ft·lbf
Generator rectifier end frame x Drive end frame assy	5.8	59	51 in·lbf
Generator brush holder assy x Generator rectifier end frame	1.8	18	16 in·lbf
Generator rear end cover x Generator rectifier end frame	4.6	47	41 in·lbf
Retainer plate x Drive end frame assy generator	2.3	23	20 in·lbf
Generator pulley x Generator rotor assy	110	1,122	81