

TORQUE SPECIFICATION

2AZ-FE

Part Tightened	N·m	kgf·cm	ft·lbf
Oil pressure switch x Cylinder head	15	153	11
Oil pump x Cylinder block	19	194	14
Oil pump x Oil pump cover	8.8	90	79 in.·lbf
Oil pump x Oil pump strainer	8.8	90	79 in.·lbf
Oil cooler x Union	79	800	58
Oil cooler x Cylinder block	9.0	92	80 in.·lbf
Oil filter x Cylinder block	17.5	178	13
Oil drain plug x Oil pan sub-assy	25	255	18
Oil pump driven shaft sprocket x Oil pump assy	30	306	22
Chain tensioner plate x cylinder block	12	122	9.0
Chain vibration damper No. 1 x Cylinder block	9.0	92	80 in.·lbf
Engine mounting bracket RH x Cylinder block	54	551	40
Engine mounting insulator RH x Engine mounting bracket RH Nut A	95	964	70
Engine mounting insulator RH x Engine mounting bracket RH Nut B	87	887	64
Engine mounting insulator FR x Engine mounting insulator bracket	87	887	64
Oil pan sub-assy x Stiffening crankcase assy	9.0	92	80 in.·lbf

3MZ-FE

Part Tightened		N·m	kgf·cm	ft·lbf
Engine drain plug x Oil pan sub-assy		45	459	33
Oil pressure switch x Cylinder block		15	153	11
Oil pump rotor set x Oil pump assembly		10	105	8.0
Oil pump relif valve x Oil pump housing		49	500	36
OLL pump cover x Oil pump housing		10	102	7.0
Oil pump assembly x Cylinder block	Bolt A	8.0	82	71 in·lbf
	Bolt B	20	199	14
	Bolt C	43	438	32
Crank position sensor x Oil pump assembly		8.0	82	71 in·lbf
Oil pan sub-assembly x Cylinder block	10 mm head	8.0	82	71 in·lbf
	12 mm head	20	204	15
Oil strainer x Main bearing cap		8.0	82	71 in·lbf
Oil pan sub-assembly No. 2 x Oil pan sub-assembly No. 1		8.0	82	71 in·lbf
Transverse engine engine mounting bracket x Cylinder block	Bolt A	54	551	40
	Nut B	54	551	40
	Bolt C	43	438	32
Transverse engine engine mounting bracket x PS pump bracket				
Engine mounting insulator RH x Engine mounting bracket	Nut A	95	969	70
Engine mounting insulator RH x Front frame	Nut B	87	887	64
Engine mounting insulator FR x Engine mounting insulator bracket	Bolt A	87	887	64
Engine mounting insulator FR x Front frame	Nut B	52	530	38
Engine moving control rod x body		64	653	47
Compressor mounting bracket No. 1 x Cylinder block		25	255	18
Timing belt idler sub-assembly No. 1 x Cylinder block		34	347	25
Timing belt idler sub-assembly No. 2 x Cylinder block		43	438	32
Compressor and magnetic clutch x Compressor mounting bracket		25	255	18