

# TORQUE SPECIFICATION

## 2AZ-FE

Part Tightened		N·m	kgf·cm	ft·lbf
Oil pressure switch x Cylinder head		15	152	11
Oil drain plug x Oil pan sub-assy		25	255	18
Oil pump assy x Cylinder block		19	194	14
Chain tensioner plate x Stiffening crankcase assy		12	122	9
Oil pump drive sprocket x Oil pump		30	301	22
Chain vibration damper No. 1 x Cylinder block		9.0	92	80 in.·lbf
Chain tensioner slipper x Cylinder block		19	194	14
Timing chain cover (see page 17-8)	Bolt A	9.0	92	80 in.·lbf
	Bolt B	21	214	15
	Bolt C	43	438	32
	Nut	9.0	92	80 in.·lbf
V-ribbed belt tensioner assy x Timing chain cover		59.5	607	44
Engine mounting bracket RH x Cylinder block		54	551	40
Engine mounting insulator RH (see page 17-8)	Bolt A	95	969	70
	Bolt B	87	888	64
Steering gear return hose clamp		8.0	80	69 in.·lbf
Engine mounting insulator FR x Engine mounting bracket FR		87	888	64
Engine lateral control rod x Bracket		89	910	66
Oil pan sub-assy x Stiffening crankcase assy		9.0	92	80 in.·lbf
Crankshaft position sensor x Timing chain cover		9.0	92	80 in.·lbf
Crankshaft pulley x Crankshaft		170	1,733	125
Ignition coil assy x Cylinder head		9.0	92	80 in.·lbf
Engine mounting bracket No. 2 RH x Timing chain cover		52	531	38
Engine mounting stay No. 2 RH x Cylinder head		64	653	47
Engine moving control rod w/ bracket x Fender apron RH		64	653	47
Oil pump cover x Oil pump		8.8	90	78 in.·lbf
Oil pump strainer x Oil pump		8.8	90	78 in.·lbf

## 1MZ-FE/3MZ-FE

Part Tightened		N·m	kgf·cm	ft·lbf
Oil pressure switch x Cylinder block		15	152	11
Oil drain plug x Oil pump sub-assy No. 2		25	255	18
Oil pump assy x Cylinder block (see page 17-32)	Bolt A	8	82	71 in.·lbf
	Bolt B	20	199	14
	Bolt C	43	439	32
Crankshaft position sensor x Oil pump assy		8	82	71 in.·lbf
Oil pan sub-assy x Cylinder block	10 mm head	8.0	82	71 in.·lbf
	12 mm head	20	203	15
	14 mm head	37	379	27
Oil strainer sub-assy x Main bearing cap		8	82	71 in.·lbf
Oil pan sub-assy No. 2 x Oil pan sub-assy No. 1		8	82	71 in.·lbf
Engine engine mounting bracket RH (See page 17-32)	Bolt A	54	550	40
	Nut B	54	550	40
	Bolt C	43	439	32
Engine mounting insulator RH (see page 17-32)	Nut A	95	969	70
	Nut B	87	887	64
Engine mounting insulator FR (see page 17-32)	Bolt A	87	887	64
	Nut B	52	531	38
Oil level gage guide x Cylinder block		8	82	71 in.·lbf
Compressor mounting bracket No. 1 x Cylinder block		25	250	18
Timing belt idler sub-assy No. 1 x Cylinder block		34	347	25

**SERVICE SPECIFICATIONS – LUBRICATION**

Part Tightened	N·m	kgf·cm	ft·lbf
Compressor and magnetic clutch x Compressor mounting bracket	25	250	18
Generator bracket No. 2 x Transverse engine engine mounting bracket	28	286	21
Front suspension brace upper center x Body	80	816	59
Oil pump cover x Oil pump	10	105	8
Oil pump relief valve x Oil pump	49	500	36