

TORQUE SPECIFICATION

Part tightened		N·m	kgf·cm	ft·lbf
Fan shroud x Radiator assembly		5	51	44 in·lbf
Radiator bracket x Radiator assembly		20	200	15
A/C Compressor x Cylinder block		49	500	36
Generator x Generator bracket		39	400	29
No.1 idler pulley, No.2 idler pulley x Cylinder Block		34.5	350	25
Camshaft timing pulley x Camshaft timing tube		108	1,100	80
Drive belt tensioner x Cylinder block		16	160	12
Timing belt tensioner x Oil pump		26	270	19
Crankshaft pulley x Crankshaft		245	2,500	181
Fan bracket x Cylinder block	12 mm head	16	160	12
	14 mm head	32	330	24
No.2 timing belt cover x Cylinder block		16	160	12
No.3 timing belt cover x Cylinder block, cylinder head		7.5	80	66 in·lbf
Drive belt idler pulley x Fan bracket		37	380	27
Fluid coupling x Fan bracket		21	215	16
Exhaust manifold x Cylinder head		44	450	33
Cylinder head x Cylinder block	1st	32	325	24
	2nd	Turn 90°	Turn 90°	Turn 90°
	3rd	Turn 90°	Turn 90°	Turn 90°
Camshaft bearing cap x Cylinder head	Bolt C	7.5	80	66 in·lbf
	Others	16	160	12
Cylinder head cover x Cylinder head		6.0	60	53 in·lbf
Engine hanger x Cylinder head		37	380	27
Front water bypass joint, Rear water bypass joint x Cylinder head		18	185	13
Intake manifold x Cylinder head		18	185	13
V-bank cover bracket x Intake manifold		7.5	80	66 in·lbf
Timing belt rear plate x Cylinder head		7.5	80	66 in·lbf
Drive plate x Crankshaft	1st	49	500	36
	2nd	Turn 90°	Turn 90°	Turn 90°
Transmission x Cylinder block		72	730	53
Transmission x No.1 oil pan		37	380	27
Drive plate x Torque converter clutch		48	490	35
Flywheel housing under cover x Transmission		18	185	13
Frame crossmember x Body		50	510	37
Frame crossmember x Rear engine mounting insulator		74	750	55
Frame bracket x Engine mounting bracket		30	310	22
PS pump x Cylinder head		17	175	13
A/C compressor x Cylinder block, Fan bracket		49	500	36
Main bearing cap x Cylinder block	1st	27	275	20
	2nd	Turn 90°	Turn 90°	Turn 90°
Connecting rod cap x Connecting rod	1st	24.5	250	18
	2nd	Turn 90°	Turn 90°	Turn 90°
Rear oil seal retainer x Cylinder block		8.0	80	71 in·lbf
Engine coolant drain union x Cylinder block		49	500	36
Engine mounting bracket x Cylinder block		36	370	27

2002 LAND CRUISER (RM893U)

SERVICE SPECIFICATIONS - ENGINE MECHANICAL

Water bypass pipe x Cylinder block	18	185	13
Front exhaust pipe x Exhaust manifold	62	630	46
No.2 front exhaust pipe x Front exhaust pipe	40	408	30
Center exhaust pipe x Front exhaust pipe	40	408	30
Heated oxygen sensor (Bank 1, 2 sensor 2) x Front exhaust pipe	20	200	14