

TORQUE SPECIFICATION

Part tightened		N·m	kgf·cm	ft·lbf
ALL ENGINE				
Speedometer driven gear assembly x Transfer case		16	160	12
No.2 speed sensor		5.4	55	48 in·lbf
Solenoid connector x Transmission case		7.8	80	69 in·lbf
Valve body x ATF temperature sensor (2UZ-FE, 1HD-FTE only)		10	100	7
Oil strainer x Valve body		10	100	7
Drain plug		27	280	20
Neutral start switch	Bolt	13	130	9
	Nut	3.9	40	35 in·lbf
Solenoid valve x Valve body		10	100	7
Valve body x Transmission		10	100	7
Oil pan x Transmission x case		6.9	70	61 in·lbf
Oil cooler pipe bracket x Body		11.5	120	8
Oil cooler pipe stay x Body		11.5	120	8
Oil cooler pipe x Body		5.0	55	48 in·lbf
Oil cooler x Bracket		4.9	50	43 in·lbf
Oil cooler x Stay		4.9	50	43 in·lbf
Floor shift assembly x Body		5.9	60	52 in·lbf
Shift lever sub-assembly x Shift lever plate		13	130	9
Drive plate x Crankshaft	2UZ-FE (1st)	49	500	36
	(2nd)	Turn 90°	–	–
	1FZ-FE	98	1,000	72
	1HZ, 1HD-T, 1HD-FTE	127	1,300	94
1FZ-FE ENGINE				
Oil filler pipe mounting bolt		11.5	120	8
Starter x Engine block		37	380	27
Starter x Transmission housing		37	380	27
Front exhaust pipe x Center exhaust pipe		40	408	29
Front exhaust pipe x Exhaust manifold		62	630	46
Front exhaust pipe bracket x Transmission housing		24	240	17
Shift lever link x Control shaft lever		13	130	9
Oil cooler pipe bracket x Transmission case		11.5	120	8
Oil cooler union nut		69	700	51
Torque converter x Drive plate		54	550	40
Transfer case protector x Crossmember		37	380	27
Stabilizer bar x Frame		18	185	13
Crossmember x Frame		61	620	45
Crossmember x Engine rear mounting		59	600	43
Transmission housing x Engine block		72	730	53
2UZ-FE ENGINE				
Oil filler pipe mounting bolt		11.5	120	8
LH and RH front exhaust pipe x Exhaust manifold		62	630	46
LH and RH front exhaust pipe x Center exhaust pipe		40	408	29
Shift lever link x Control shaft lever		13	130	9

SERVICE SPECIFICATIONS – AUTOMATIC TRANSMISSION (A442F)

Oil cooler pipe bracket x Transmission case	11.5	120	8
Oil cooler union nut	69	700	51
Hole plug x Transmission housing	18	185	13
Torque converter x Drive plate	48	490	35
Transfer case protector x Crossmember	37	380	27
Stabilizer bar x Frame	18	185	13
Crossmember x Frame	61	620	45
Crossmember x Engine rear mounting	59	600	43
Engine x Transmission housing	72	730	53
1HZ, 1HD-T, 1HD-FTE ENGINE			
Oil filler pipe mounting bolt	11.5	120	8
Starter x Engine block	37	380	27
Front exhaust pipe x Exhaust manifold	62	630	46
Front exhaust pipe x Center exhaust pipe	40	408	29
Front exhaust pipe bracket x Transmission housing (1HZ Only)	24	240	17
Shift lever link x Control shaft lever	13	130	9
Oil cooler pipe bracket x Transmission case	11.5	120	8
Oil cooler union nut	69	700	51
Stabilizer bar x Frame	18	185	13
Stiffener plate x Engine block	69	700	51
Stiffener plate x Transmission housing	69	700	51
Torque converter x Drive plate	54	550	40
Transfer case protector x Crossmember	37	380	27
Crossmember x Frame	61	620	45
Crossmember x Engine rear mounting	59	600	43
Transmission housing x Engine block	72	730	53