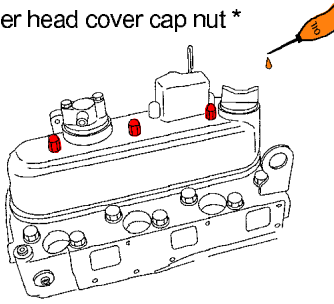
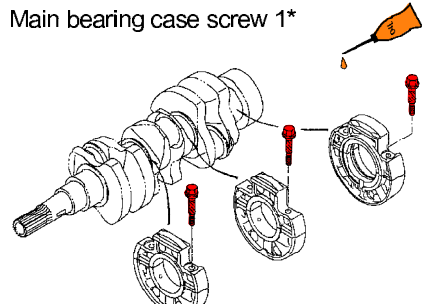
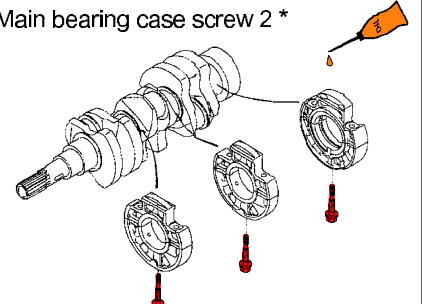
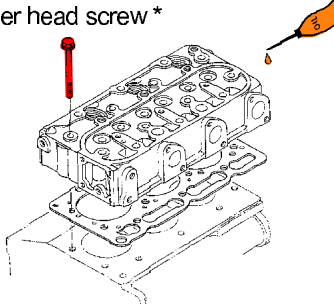
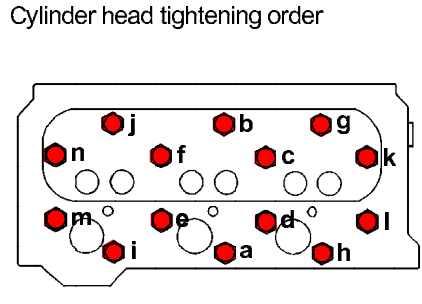
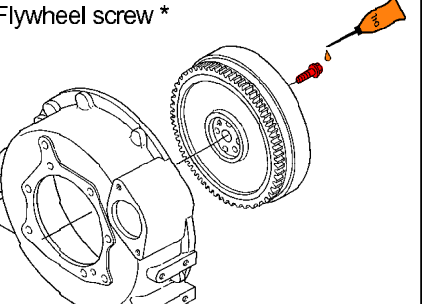
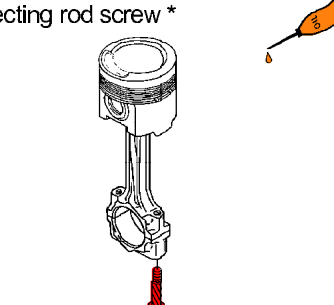
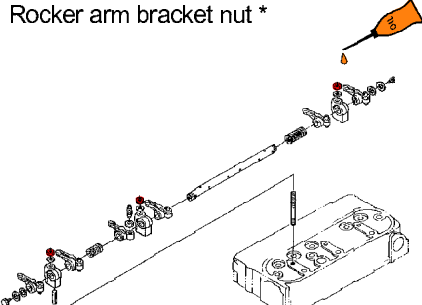
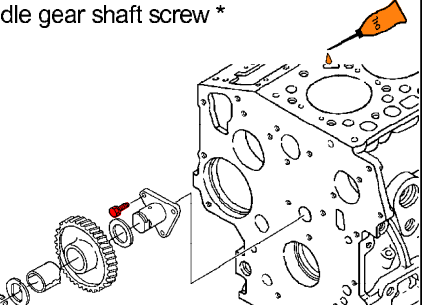
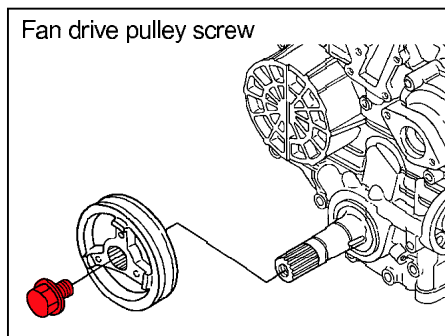


TIGHTENING TORQUES

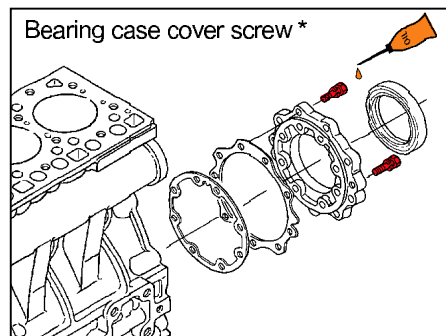
(1) Special Tightening Torques

For "*" marked screws, bolts and nuts on under table, apply engine oil to their threads and seats before tightening.

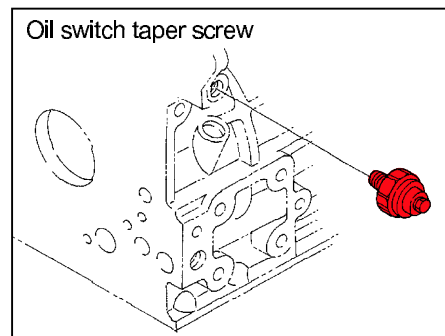
<p>Cylinder head cover cap nut *</p> 		<p>Main bearing case screw 1*</p> 		<p>Main bearing case screw 2 *</p> 	
WG1005	6.9 to 8.8 N·m 0.7 to 0.9 kgf·m 5.1 to 6.5 ft-lbs	WG1005	29.4 to 34.3 N·m 3.0 to 3.5 kgf·m 21.7 to 25.3 ft-lbs	WG1005	49.0 to 53.9 N·m 5.0 to 5.5 kgf·m 36.2 to 39.8 ft-lbs
DF1005		DF1005		DF1005	
<p>Cylinder head screw *</p> 		<p>Cylinder head tightening order</p> 		<p>Flywheel screw *</p> 	
WG1005	63.7 to 68.6 N·m 6.5 to 7.0 kgf·m 47.0 to 50.6 ft-lbs	WG1005	a → n	WG1005	53.9 to 58.8 N·m 5.5 to 6.0 kgf·m 39.8 to 43.4 ft-lbs
DF1005		DF1005		DF1005	
<p>Connecting rod screw *</p> 		<p>Rocker arm bracket nut *</p> 		<p>Idle gear shaft screw *</p> 	
WG1005	41.2 to 46.1 N·m 4.2 to 4.7 kgf·m 30.4 to 34.0 ft-lbs	WG1005	21.6 to 26.5 N·m 2.2 to 2.7 kgf·m 15.9 to 19.5 ft-lbs	WG1005	9.8 to 11.3 N·m 1.00 to 1.15 kgf·m 7.2 to 8.3 ft-lbs
DF1005		DF1005		DF1005	



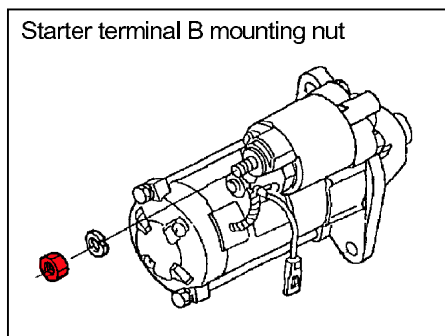
WG1005	235 to 245 N·m 24.0 to 25.0 kgf·m 174 to 181 ft-lbs
DF1005	



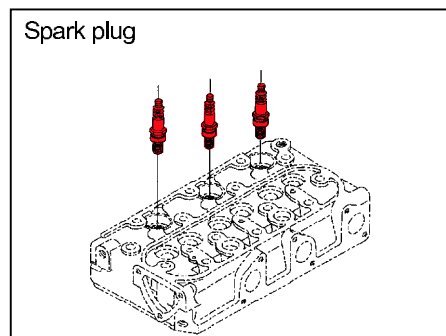
WG1005	9.8 to 11.3 N·m 1.00 to 1.15 kgf·m 7.2 to 8.3 ft-lbs
DF1005	



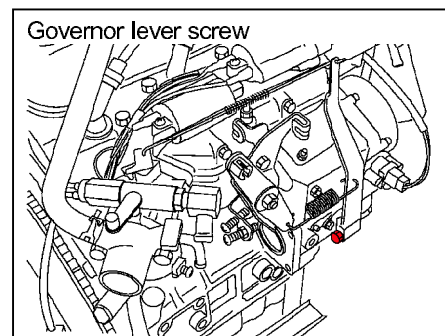
WG1005	14.7 to 19.6 N·m 1.5 to 2.0 kgf·m 10.8 to 14.5 ft-lbs
DF1005	



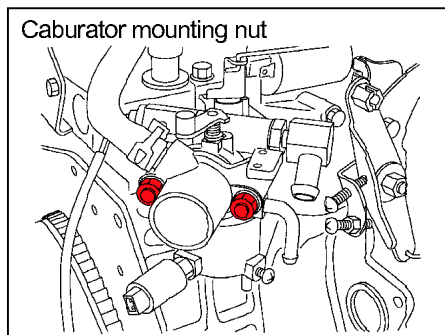
WG1005	8.8 to 11.8 N·m 0.9 to 1.2 kgf·m 6.5 to 8.7 ft-lbs
DF1005	



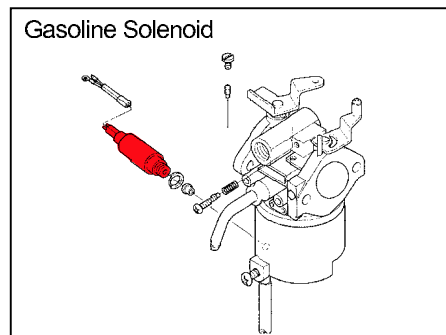
WG1005	24.5 N·m 2.5 kgf·m 18.1 ft-lbs
DF1005	



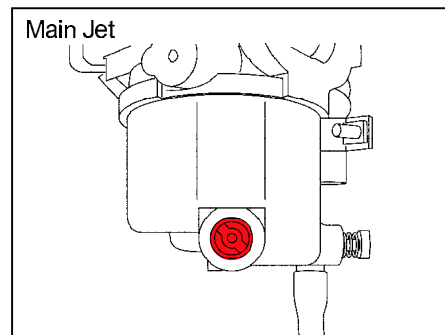
WG1005	11.2 to 25.5 N·m 1.14 to 2.6 kgf·m 8.2 to 18.8 ft-lbs
DF1005	



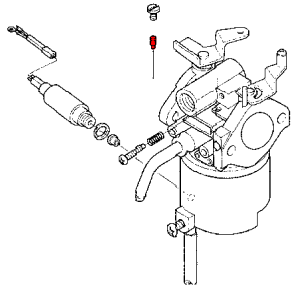
WG1005	23.5 to 27.5 N·m 2.4 to 2.8 kgf·m 17.4 to 20.2 ft-lbs
DF1005	

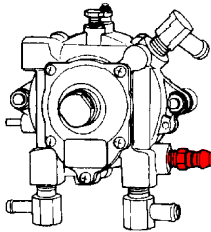


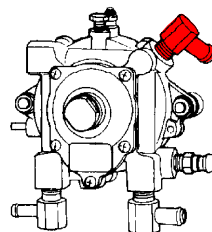
WG1005	7.8 to 11.7 N·m 0.8 to 1.2 kgf·m 5.8 to 8.7 ft-lbs
DF1005	

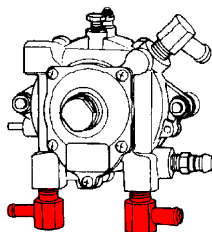


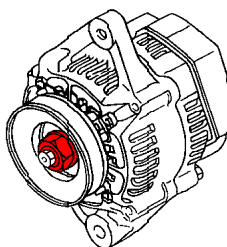
WG1005	1.0 to 2.9 N·m 0.1 to 0.29 kgf·m 5.0 to 15.2 ft-lbs
DF1005	

Pilot Jet	
	
WG1005	1.0 to 3.9 N·m 0.1 to 0.40 kgf·m 5.0 to 20.5 ft-lbs
DF1005	

Joint for LPG of vaporizer	
	
DF1005	19.6 to 32.9 N·m 2.0 to 4.0 kgf·m 14.5 to 28.9 ft-lbs

Joint for vapor hose of vaporizer	
	
DF1005	29.4 to 58.8 N·m 3.0 to 6.0 kgf·m 21.7 to 43.4 ft-lbs

Joint for water hose of vaporizer	
	
WG1005	29.4 to 58.8 N·m 3.0 to 6.0 kgf·m 21.7 to 43.4 ft-lbs
DF1005	

Alternator pulley nut	
	
WG1005	58.3 to 78.9 N·m 5.95 to 8.05 kgf·m 43.0 to 58.2 ft-lbs
DF1005	

(2) General Tightening Torques

Screw and bolt material grades are shown by numbers punched on the screw and bolt heads.

Prior to tightening, be sure to check out the numbers as shown below.

None or 4 : Standard grade

7 : Special grade

Nominal Diameter	Standard Grade	Special Grade
M6	7.9 to 9.3 N·m 0.80 to 0.95 kgf·m 5.8 to 6.9 ft-lbs	9.8 to 11.3 N·m 1.00 to 1.15 kgf·m 7.23 to 8.32 ft-lbs
M8	17.7 to 20.6 N·m 1.8 to 2.1 kgf·m 13.0 to 15.2 ft-lbs	23.5 to 27.5 N·m 2.4 to 2.8 kgf·m 17.4 to 20.3 ft-lbs
M10	39.2 to 45.1 N·m 4.0 to 4.6 kgf·m 28.9 to 33.3 ft-lbs	48.1 to 55.9 N·m 4.9 to 5.7 kgf·m 35.4 to 41.2 ft-lbs
M12	62.8 to 72.6 N·m 6.4 to 7.4 kgf·m 46.3 to 53.5 ft-lbs	77.5 to 90.2 N·m 7.9 to 9.2 kgf·m 57.1 to 66.5 ft-lbs