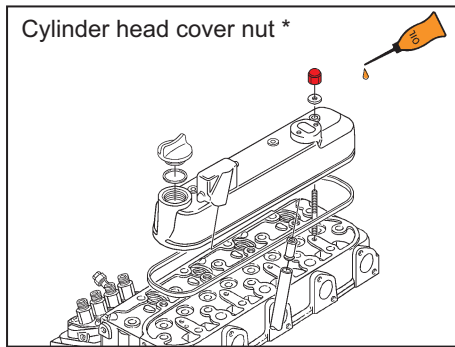


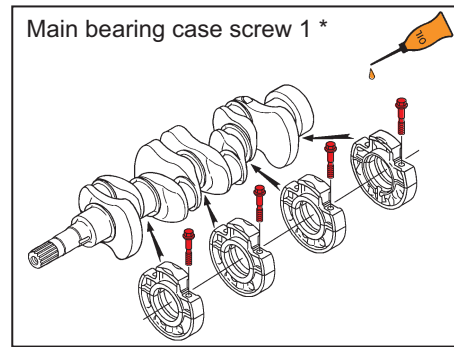
TIGHTENING TORQUES

(1) Special Tightening Torques

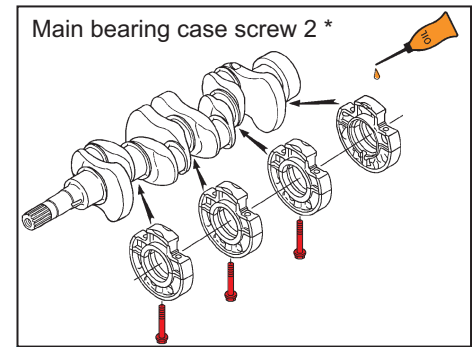
For "*" marked screws, bolts and nuts on under table, apply engine oil to their threads and seats before tightening.



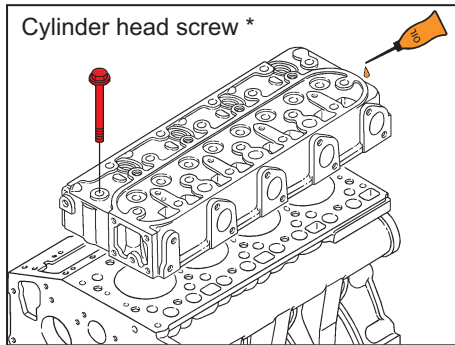
D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	6.9 to 8.8 N·m
V1205-EB	0.7 to 0.9 kgf·m
V1205-T-EB	5.1 to 6.5 ft-lbs
V1305-EB	
V1505-EB	
V1505-T-EB	



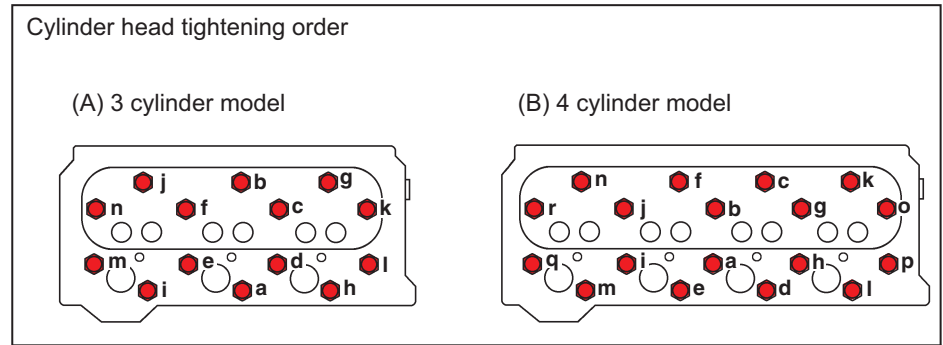
D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	29.4 to 34.3 N·m
V1205-EB	3.0 to 3.5 kgf·m
V1205-T-EB	21.7 to 25.3 ft-lbs
V1305-EB	
V1505-EB	
V1505-T-EB	



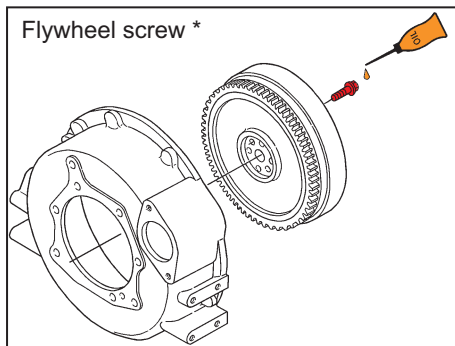
D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	49.0 to 53.9 N·m
V1205-EB	5.0 to 5.5 kgf·m
V1205-T-EB	36.2 to 39.8 ft-lbs
V1305-EB	
V1505-EB	
V1505-T-EB	



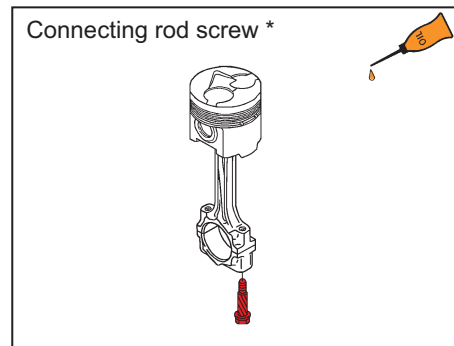
D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	63.7 to 68.6 N·m
V1205-EB	6.5 to 7.0 kgf·m
V1205-T-EB	47.0 to 50.6 ft-lbs
V1305-EB	
V1505-EB	
V1505-T-EB	



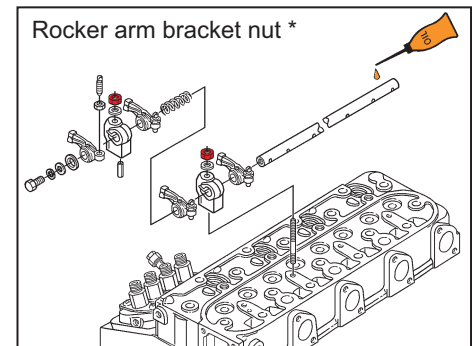
D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	(A) 3 cylinder model a → n
V1205-EB	(B) 4 cylinder model a → r
V1205-T-EB	
V1305-EB	
V1505-EB	
V1505-T-EB	



D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	53.9 to 58.8 N·m
V1205-EB	5.5 to 6.0 kgf·m
V1205-T-EB	39.8 to 43.4 ft-lbs
V1305-EB	
V1505-EB	
V1505-T-EB	

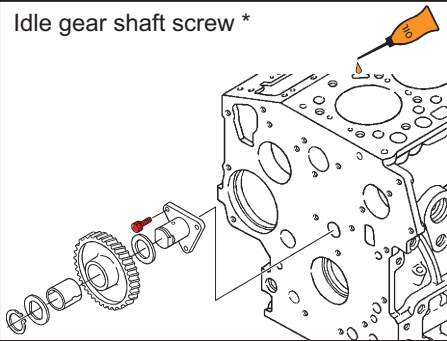


D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	41.2 to 46.1 N·m
V1205-EB	4.2 to 4.7 kgf·m
V1205-T-EB	30.4 to 34.0 ft-lbs
V1305-EB	
V1505-EB	
V1505-T-EB	



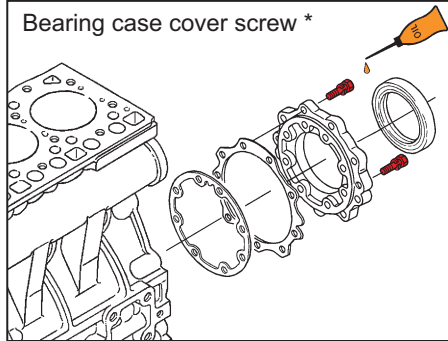
D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	21.6 to 26.5 N·m
V1205-EB	2.2 to 2.7 kgf·m
V1205-T-EB	15.9 to 19.5 ft-lbs
V1305-EB	
V1505-EB	
V1505-T-EB	

Idle gear shaft screw *



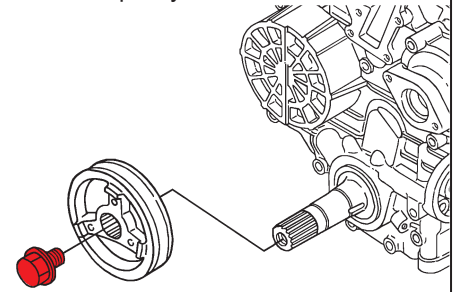
D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	9.8 to 11.3 N·m
V1205-EB	1.00 to 1.15 kgf·m
V1205-T-EB	7.2 to 8.3 ft-lbs
V1305-EB	
V1505-EB	
V1505-T-EB	

Bearing case cover screw *



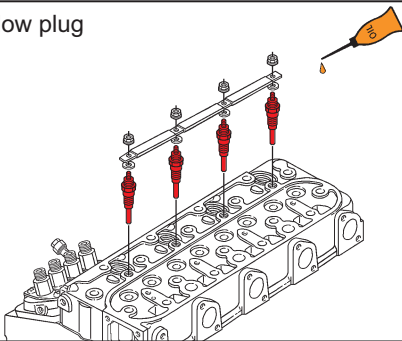
D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	9.8 to 11.3 N·m
V1205-EB	1.00 to 1.15 kgf·m
V1205-T-EB	7.2 to 8.3 ft-lbs
V1305-EB	
V1505-EB	
V1505-T-EB	

Fan drive pulley screw



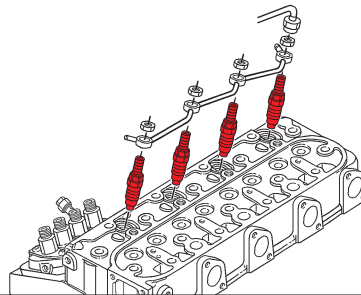
D905-EB	
D1005-EB	142.2 to 152.0 N·m
D1105-EB	14.5 to 15.5 kgf·m
D1105-T-EB	104.9 to 112.1 ft-lbs
D1105-T-EB	(Serial No. : 604086 & below)
V1205-EB	
V1205-T-EB	235.4 to 245.2 N·m
V1305-EB	24.0 to 25.0 kgf·m
V1505-EB	173.6 to 180.8 ft-lbs
V1505-T-EB	(Serial No. : 604087 & above)

Glow plug



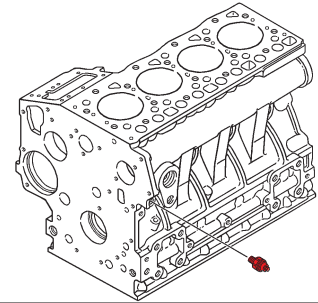
D905-EB	
D1005-EB	19.6 to 24.5 N·m
D1105-EB	2.0 to 2.5 kgf·m
D1105-EB	14.5 to 18.1 ft-lbs
D1105-T-EB	(Serial No. : 489290 & below)
V1205-EB	
V1205-T-EB	7.8 to 14.7 N·m
V1305-EB	0.8 to 1.5 kgf·m
V1505-EB	5.8 to 10.8 ft-lbs
V1505-T-EB	(Serial No. : 489291 & above)

Nozzle holder assembly



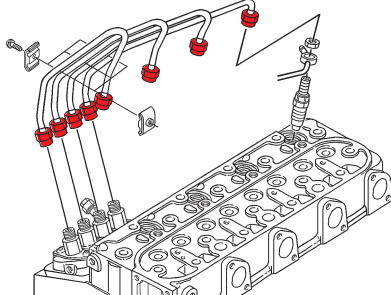
D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	49.0 to 68.6 N·m
V1205-EB	5.0 to 7.0 kgf·m
V1205-T-EB	36.2 to 50.6 ft-lbs
V1305-EB	
V1505-EB	
V1505-T-EB	

Oil switch taper screw



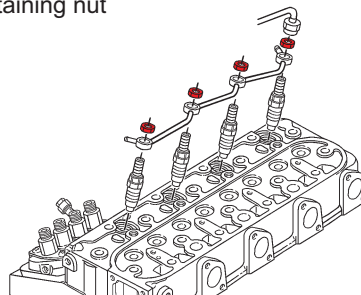
D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	14.7 to 19.6 N·m
V1205-EB	1.5 to 2.0 kgf·m
V1205-T-EB	10.8 to 14.5 ft-lbs
V1305-EB	
V1505-EB	
V1505-T-EB	

Injection pipe retaining nut



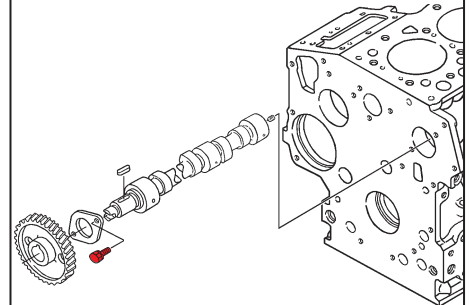
D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	24.5 to 34.3 N·m
V1205-EB	2.5 to 3.5 kgf·m
V1205-T-EB	18.1 to 25.3 ft-lbs
V1305-EB	
V1505-EB	
V1505-T-EB	

Overflow pipe assembly retaining nut



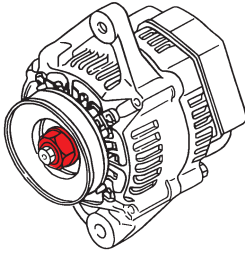
D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	19.6 to 24.5 N·m
V1205-EB	2.0 to 2.5 kgf·m
V1205-T-EB	14.5 to 18.1 ft-lbs
V1305-EB	
V1505-EB	
V1505-T-EB	

Camshaft set screw



D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	23.5 to 27.5 N·m
V1205-EB	2.4 to 2.8 kgf·m
V1205-T-EB	17.4 to 20.3 ft-lbs
V1305-EB	
V1505-EB	
V1505-T-EB	

Alternator pulley nut



D905-EB	
D1005-EB	
D1105-EB	
D1105-T-EB	58.3 to 78.9 N·m
V1205-EB	5.95 to 8.05 kgf·m
V1205-T-EB	43.0 to 58.2 ft-lbs
V1305-T-EB	
V1505-EB	
V1505-T-EB	

(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