SECTION CL

CLUTCH

General Specifications

CLUTCH CONTROL SYSTEM

Type of clutch control	Hydraulic

CLUTCH MASTER CYLINDER

Inner diameter	mm (in)	15.87 (5/8)

CLUTCH OPERATING CYLINDER

Engine	VG30E, VG30ET*1	VG30ET*2
Inner diameter mm (in)	19.05 (3/4)	17.46 (11/16)

*1: Except Europe
*2: For Europe

CLUTCH DISC

Model	240TBL	250TBL
Engine	VG30E	VG30ET
Facing size mm (in) (Outer dia. x inner dia. x thickness)	240 x 160 x 3.5 (9.45 x 6.30 x 0.138)	250 x 160 x 3.5 (9.84 x 6.30 x 0.138)
Thickness of disc assembly With load mm (in)	7.9 - 8.3 (0.311 - 0.327) with 5,884 N (600 kg, 1,323 lb)	

CLUTCH COVER

Model	C240S	C250S
Engine	VG30E	VG30ET
Full load N (kg, lb)	4,904 (500, 1,103)	5,884 (600, 1,323)

Inspection and Adjustment

CLUTCH PEDAL

Unit: mm (in)

	L.H.D.	R.H.D.
Pedal height "H*"	195 - 205 (7.68 - 8.07)	202 - 212 (7.95 - 8.35)
Pedal free play "A"	1.0 - 3.0 (0.039 - 0.118)	

*Measured from surface of melt sheet

CLUTCH DISC

Unit: mm (in)

Model	240TBL	250TBL
Wear limit of facing surface to rivet head	0.3 (0.012)	
Runout limit of facing	1.0 (0.039)	
Distance of runout check point (from the hub center)	115 (4.53)	120 (4.72)
Maximum backlash of spline (at outer edge of disc)	1.0 (0.039)	

CLUTCH COVER

Unit: mm (in)

Model	C240S	C250
Diaphragm spring height	37.5 - 39.5 (1.476 - 1.555)	36.5 - 38.5 (1.437 - 1.516)
Uneven limit of diaphragm spring toe height	0.5 (0.020)	

Tightening Torque

Unit	N·m	kg-m	ft-lb
Pedal stopper lock nut	9.1 - 11.8	0.93 - 1.2	6.7 - 8.7
Clutch switch lock nut	12 - 15	1.2 - 1.5	9 - 11
Fulcrum pin securing nut	16 - 22	1.6 - 2.2	12 - 16
Master cylinder push rod lock nut	8 - 11	0.8 - 1.1	5.8 - 8.0
Master cylinder securing nut	8 - 11	0.8 - 1.1	5.8 - 8.0
Supply valve stopper	1.5 - 2.9	0.15 - 0.30	1.1 - 2.2
Operating cylinder securing bolt	30 - 40	3.1 - 4.1	22 - 30
Bleeder screw	6 - 10	0.6 - 1.0	4.3 - 7.2
Clutch damper securing bolt	8 - 11	0.8 - 1.1	5.8 - 8.0
Damper cover to cylinder	3.7 - 5.0	0.38 - 0.51	2.7 - 3.7
Clutch tube flare nut	15 - 18	1.5 - 1.8	11 - 13
Clutch hose to operating cylinder and clutch damper securing nut	17 - 20	1.7 - 2.0	12 - 14
Clutch cover securing bolt			
VG30E	22 - 29	2.2 - 3.0	16 - 22
VG30ET	34 - 44	3.5 - 4.5	25 - 33