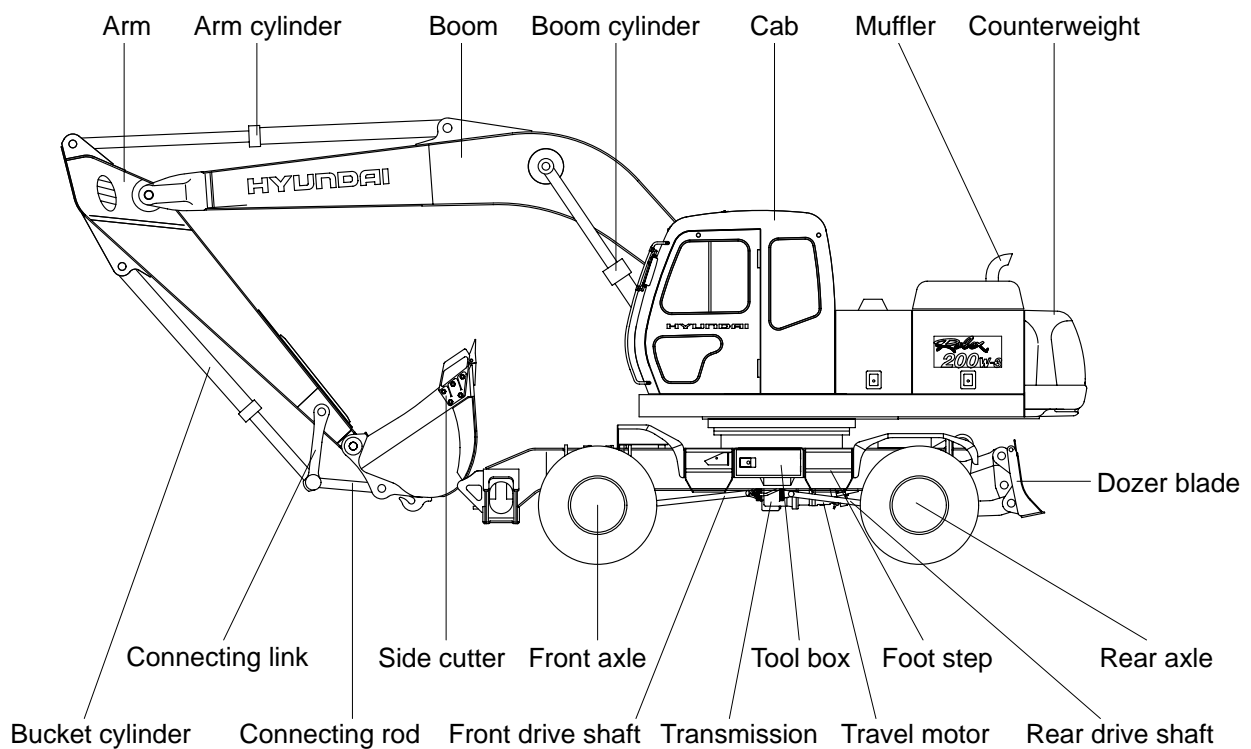
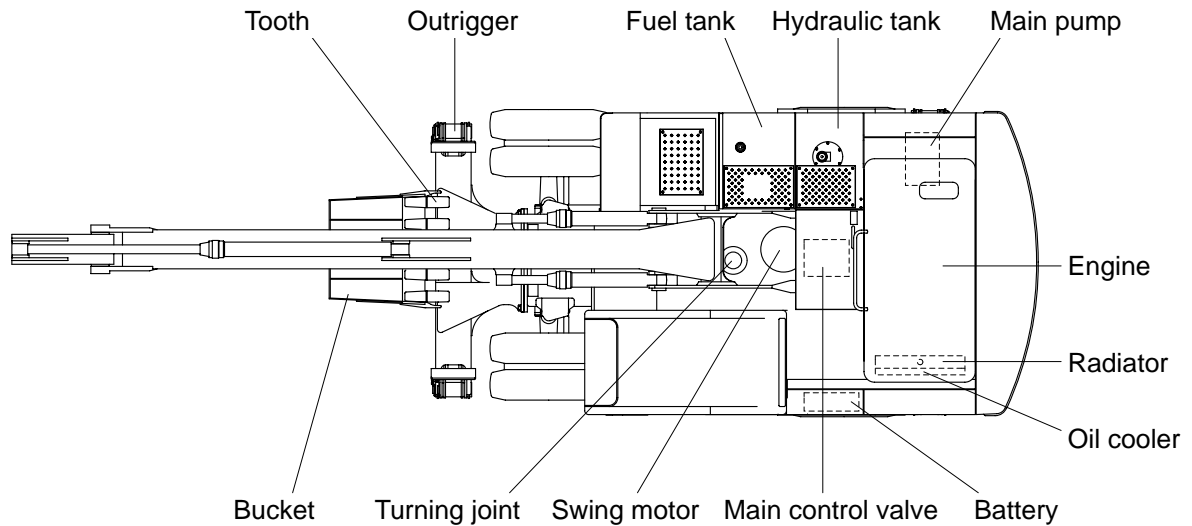


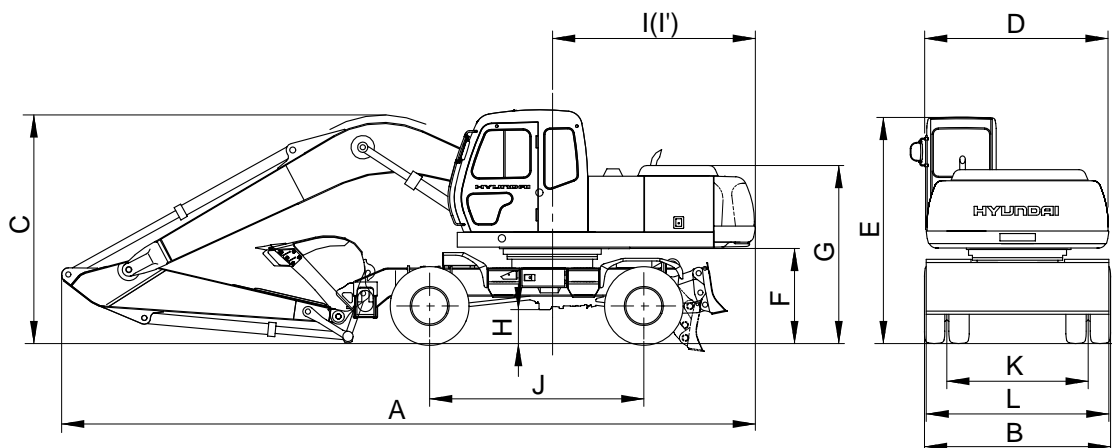
GROUP 2 SPECIFICATION

1. MAJOR COMPONENTS



2. SPECIFICATIONS

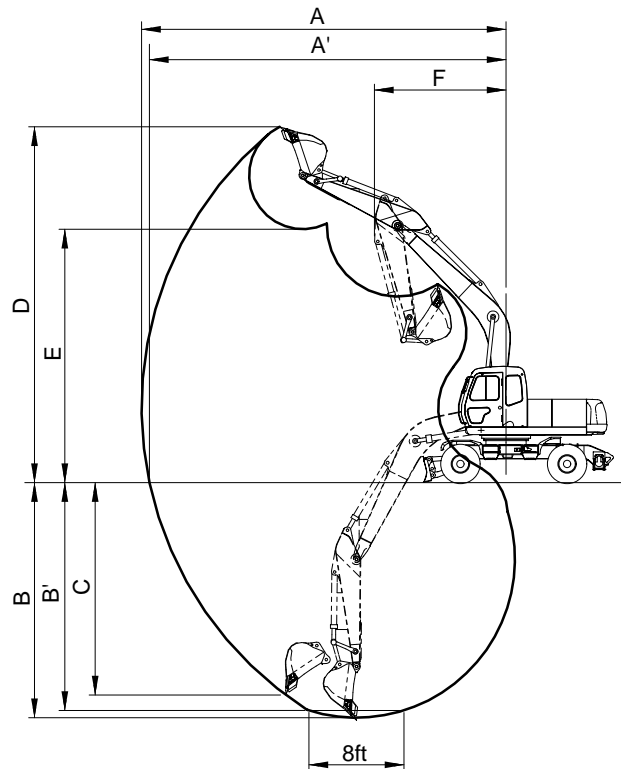
1) 5.68m(18' 8") ONE PIECE BOOM, 2.92m(9' 7") ARM, FRONT OUTRIGGER AND REAR DOZER BLADE



Description		Unit	Specification
Operating weight		kg(lb)	20050(44200)
Bucket capacity(PCSA heaped), standard		m ³ (yd ³)	0.87(1.14)
Overall length	A	mm(ft-in)	9370(30' 9")
Overall width	B		2660(8' 9")
Overall height	C		3470(11' 5")
Upperstructure width	D		2720(8' 11")
Cab height	E		3160(10' 4")
Ground clearance of counterweight	F		1290(4' 3")
Engine cover height	G		2540(8' 4")
Minimum ground clearance	H		345(1' 2")
Rear-end distance	I		2740(9' 0")
Rear-end swing radius	I'		2750(9' 0")
Wheel base	J		2900(9' 6")
Tread	K		2056(6' 9")
Dozer blade width	L		2660(8' 9")
Travel speed	Low	km/hr(mph)	8.3(5.2)
	High		32(19.9)
Swing speed		rpm	12.5
Gradeability		Degree(%)	29(55)

3. WORKING RANGE

1) 5.68m(18' 8") BOOM



Description		2.0m(6' 7") Arm	2.4m(7' 10") Arm	2.92m(9' 7") Arm	3.9m(12' 10") Arm
Max digging reach	A	9150mm (30' 0")	9470mm (31' 1")	9920mm (32' 7")	10850mm (35' 7")
Max digging reach on ground	A'	8910mm (29' 3")	9250mm (30' 4")	9700mm (31'10")	10650mm (34'11")
Max digging depth	B	5630mm (18' 6")	6030mm (19' 9")	6550mm (21' 6")	7530mm (24' 8")
Max digging depth (8ft level)	B'	5410mm (17' 9")	1820mm (19' 1")	6350mm (20'10")	7390mm (24' 3")
Max vertical wall digging depth	C	5050mm (16' 7")	5340mm (17' 6")	5820mm (19' 1")	6830mm (22' 5")
Max digging height	D	9350mm (30' 8")	9430mm (30'11")	9570mm (31' 5")	10900mm (33' 1")
Max dumping height	E	6540mm (21' 5")	6640mm (21' 9")	6790mm (22' 3")	7300mm (23'11")
Min swing radius	F	3840mm (12' 7")	3780mm (12' 5")	3580mm (11' 9")	3630mm (11'11")
Bucket digging force	SAE	114.7 [125.5] kN	114.7 [125.5] kN	114.7 [125.5] kN	114.7 [125.5] kN
		11700 [12800] kgf	11700 [12800] kgf	11700 [12800] kgf	11700 [12800] kgf
		25790 [28220] lbf	25790 [28220] lbf	25790 [28220] lbf	25790 [28220] lbf
	ISO	129.6 [141.8] kN	129.6 [141.8] kN	129.6 [141.8] kN	129.6 [141.8] kN
		13220 [14460] kgf	13220 [14460] kgf	13220 [14460] kgf	13220 [14460] kgf
		29150 [31880] lbf	29150 [31880] lbf	29150 [31880] lbf	29150 [31880] lbf
Arm digging force	SAE	128.2 [140.0] kN	114.0 [124.6] kN	93.2 [102.0] kN	76.0 [83.2] kN
		13070 [14300] kgf	11620 [12710] kgf	9500 [10400] kgf	7750 [8480] kgf
		28810 [31530] lbf	25620 [28020] lbf	20940 [22930] lbf	17090 [18700] lbf
	ISO	134.4 [146.9] kN	119.0 [130.1] kN	94.9 [103.9] kN	78.4 [85.7] kN
		13700 [14980] kgf	12130 [13270] kgf	9680 [10590] kgf	7990 [8740] kgf
		30200 [33030] lbf	26740 [29260] lbf	21340 [23350] lbf	17620 [19270] lbf

[] : Power boost

4. WEIGHT

Item	R200W-3	
	kg	lb
Upperstructure assembly	3800	8380
Main frame weld assembly	1770	3900
Engine assembly	440	970
Main pump assembly	120	270
Main control valve assembly	193	430
Swing motor assembly	190	420
Hydraulic oil tank assembly	240	530
Fuel tank assembly	130	290
Counterweight	3400	7500
Cab assembly	560	1230
Lower frame weld assembly	1270	2800
Swing bearing	260	570
Travel motor assembly	83	180
Turning joint	76	170
Transmission assembly	125	280
Front axle assembly	620	1370
Rear axle assembly	490	1080
Dozer blade assembly	600	1320
Front attachment assembly(5.68m boom,2.92m arm, 0.87m ³ PCSA heaped bucket)	3890	8580
5.68m one piece boom assembly	1410	3110
2.92m arm assembly	680	1500
0.51m ³ PCSA heaped bucket assembly	660	1460
Boom cylinder assembly	175	390
Arm cylinder assembly	285	630
Bucket cylinder assembly	140	310
Bucket control linkage assembly	170	370
Oscillating cylinder assembly	30	70
Front outrigger assembly	234	520
Rear outrigger assembly	790	1740
Outrigger cylinder assembly	94	210
Blade cylinder assembly	79	170









5. LIFTING CAPACITIES

1) ROBEX 200W-3

(1) 5.2m(17' 1") boom, 2.0m(6' 7") arm equipped with 0.87m³(PCSA heaped) bucket and 4 outrigger down.









•  : Rating over-front

•  : Rating over-side or 360 degree











Load point height		Load radius						At max. reach		
		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		Capacity		Reach
										m(ft)
7.5m (25ft)	kg lb							*4460 *9830	*4460 *9830	6.10 (20.0)
6.0m (20ft)	kg lb							*4570 *10080	*4570 *10080	7.30 (24.0)
4.5m (15ft)	kg lb			*6310 *13910	*6310 *13910	*5490 *12100	*5490 *12100	*4740 *10450	4060 8950	7.96 (26.1)
3.0m (10ft)	kg lb			*8050 *17750	*8050 *17750	*6210 *13690	*6210 *13690	*4950 *10910	3750 8270	8.25 (27.1)
1.5m (5ft)	kg lb			*9540 *21030	*9540 *21030	*6940 *15300	6060 13360	*5190 *11440	3720 8200	8.21 (26.9)
Ground Line	kg lb	*15620 *34440	*15620 *34440	*10190 *22470	9510 20970	*7370 *16250	5930 13070	*5430 *11970	3980 8770	7.83 (25.7)
-1.5m (-5ft)	kg lb	*14580 *32140	*14580 *32140	*9950 *21940	9500 20940	*7180 *15830	5920 13050	*5620 *12390	4720 10410	7.06 (23.2)
-3.0m (-10ft)	kg lb	*12290 *27090	*12290 *27090	*8520 *18780	*8520 *18780					

- Note
1. Lifting capacity are based on SAE J1097 and ISO 10567.
 2. Lifting capacity of the ROBEX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
 3. The load point is a hook located on the back of the bucket.
 4. *indicates load limited by hydraulic capacity.











(2) 5.2m(17' 1") boom, 2.0m(6' 7") arm equipped with 0.87m³(PCSA heaped) bucket, front outrigger and rear dozer blade down.

Load point height		Load radius						At max. reach		
		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		Capacity		Reach
										m(ft)
7.5m (25ft)	kg lb							*4460 *9830	*4460 *9830	6.10 (20.0)
6.0m (20ft)	kg lb							*4570 *10080	3980 8770	7.30 (24.0)
4.5m (15ft)	kg lb			*6310 *13910	*6310 *13910	*5490 *12100	5340 11770	*4740 *10450	3350 7390	7.96 (26.1)
3.0m (10ft)	kg lb			*8050 *17750	*8050 *17750	*6210 *13690	5130 11310	*4950 *10910	3080 6790	8.25 (27.1)
1.5m (5ft)	kg lb			*9540 *21030	7740 17060	*6940 *15300	4930 10870	*5190 *11440	3050 6720	8.21 (26.9)
Ground Line	kg lb	*15620 *34440	*15620 *34440	*10190 *22470	7540 16620	*7370 *16250	4800 10580	*5430 *11970	3260 7190	7.83 (25.7)
-1.5m (-5ft)	kg lb	*14580 *32140	*14580 *32140	*9950 *21940	7530 16600	*7180 *15830	4800 10580	*5620 *12390	3860 8510	7.06 (23.2)
-3.0m (-10ft)	kg lb	*12290 *27090	*12290 *27090	*8520 *18780	7710 17000					











(3) 5.2m(17' 1") boom, 2.4m(7' 10") arm equipped with 0.87m³(PCSA heaped) bucket and 4 outrigger down.

Load point height		Load radius								At max. reach		
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		Capacity		Reach
												m(ft)
7.5m (25ft)	kg lb									*4070 *8970	*4070 *8970	6.56 (21.5)
6.0m (20ft)	kg lb							*4660 *10270	*4660 *10270	*4220 *9300	*4220 *9300	7.66 (25.1)
4.5m (15ft)	kg lb					*5670 *12500	*5670 *12500	*5060 *11160	*5060 *11160	*4400 *9700	3790 8360	8.29 (27.2)
3.0m (10ft)	kg lb					*7440 *16400	*7440 *16400	*5830 *12850	*5830 *12850	*4630 *10210	3510 7740	8.57 (28.1)
1.5m (5ft)	kg lb					*9100 *20060	*9100 *20060	*6660 *14680	6060 13360	*4880 *10760	3480 7670	8.53 (28.0)
Ground Line	kg lb			*15910 *35080	*15910 *35080	*10010 *22070	9480 20900	*7220 *15920	5890 12990	*5150 *11350	3690 8140	8.17 (26.8)
-1.5m (-5ft)	kg lb	*25990 *57300	*25990 *57300	*15150 *33400	*15150 *33400	*10050 *22160	9420 20770	*7260 *16010	5850 12900	*5410 *11930	4290 9460	7.44 (24.4)
-3.0m (-10ft)	kg lb	*22570 *49760	*22570 *49760	*13260 *29230	*13260 *29230	*9050 *19950	*9050 *19950			*5500 *12130	*5500 *12130	6.17 (20.2)











(4) 5.2m(17' 1") boom, 2.4m(7' 10") arm equipped with 0.87m³(PCSA heaped) bucket, front outrigger and rear dozer blade down.

Load point height		Load radius								At max. reach		
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		Capacity		Reach
												m(ft)
7.5m (25ft)	kg lb									*4070 *8970	*4070 *8970	6.56 (21.5)
6.0m (20ft)	kg lb							*4660 *10270	*4660 *10270	*4220 *9300	3670 8090	7.66 (25.1)
4.5m (15ft)	kg lb					*5670 *12500	*5670 *12500	*5060 *11160	*5060 *11160	*4400 *9700	3120 6880	8.29 (27.2)
3.0m (10ft)	kg lb					*7440 *16400	*7440 *16400	*5830 *12850	5160 11380	*4630 *10210	2870 6330	8.57 (28.1)
1.5m (5ft)	kg lb					*9100 *20060	7780 17150	*6660 *14680	4930 10870	*4880 *10760	2840 6260	8.53 (28.0)
Ground Line	kg lb			*15910 *35080	15790 34810	*10010 *22070	7510 16560	*7220 *15920	4770 10520	*5150 *11350	3010 6640	8.17 (26.8)
-1.5m (-5ft)	kg lb	*25990 *57300	*25990 *57300	*15150 *33400	*15150 *33400	*10050 *22160	7450 16420	*7260 *16010	4720 10410	*5410 *11930	3500 7720	7.44 (24.4)
-3.0m (-10ft)	kg lb	*22570 *49760	*22570 *49760	*13260 *29230	*13260 *29230	*9050 *19950	7570 16690			*5500 *12130	4800 10580	6.17 (20.2)













(5) 5.68m(18' 8") boom, 2.0m(6' 7") arm equipped with 0.87m³(PCSA heaped) bucket and 4 outrigger down.

Load point height		Load radius								At max. reach		
		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		Capacity		Reach
												m(ft)
7.5m (25ft)	kg lb									*4180 *9220	*4180 *9220	6.82 (22.4)
6.0m (20ft)	kg lb					*4800 *10580	*4800 *10580			*4250 *9370	4150 9150	7.89 (25.9)
4.5m (15ft)	kg lb			*6420 *14150	*6420 *14150	*5290 *11660	*5290 *11660			*4380 *9660	3580 7890	8.50 (27.9)
3.0m (10ft)	kg lb			*8220 *18120	*8220 *18120	*6060 *13360	*6060 *13360	*5160 *11380	4240 9350	*4540 *10010	3320 7320	8.76 (28.7)
1.5m (5ft)	kg lb			*9560 *21080	9420 20770	*6790 *14970	5900 13010	*5470 *12060	4140 9130	*4720 *10410	3300 7280	8.73 (28.6)
Ground Line	kg lb			*10000 *22050	9250 20390	*7200 *15870	5770 12720			*4910 *10820	3500 7720	8.38 (27.5)
-1.5m (-5ft)	kg lb	*13750 *30310	*13750 *30310	*9720 *21430	9270 20440	*7110 *15670	5750 12680			*5050 *11130	4050 8930	7.67 (25.2)
-3.0m (-10ft)	kg lb	*11980 *26410	*11980 *26410	*8610 *18980	*8610 *18980					*4950 *10910	*4950 *10910	6.45 (21.2)













(6) 5.68m(18' 8") boom, 2.0m(6' 7") arm equipped with 0.87m³(PCSA heaped) bucket, front outrigger and rear dozer blade down.

Load point height		Load radius								At max. reach		
		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		Capacity		Reach
												m(ft)
7.5m (25ft)	kg lb									*4180 *9220	*4180 *9220	6.82 (22.4)
6.0m (20ft)	kg lb					*4800 *10580	*4800 *10580			*4250 *9370	3420 7540	7.89 (25.9)
4.5m (15ft)	kg lb			*6420 *14150	*6420 *14150	*5290 *11660	5260 11600			*4380 *9660	2930 6460	8.50 (27.9)
3.0m (10ft)	kg lb			*8220 *18120	7900 17420	*6060 *13360	5000 11020	*5160 *11380	3460 7630	*4540 *10010	2710 5970	8.76 (28.7)
1.5m (5ft)	kg lb			*9560 *21080	7450 16420	*6790 *14970	4780 10540	*5470 *12060	3360 7410	*4720 *10410	2680 5910	8.73 (28.6)
Ground Line	kg lb			*10000 *22050	7300 16090	*7200 *15870	4650 10250			*4910 *10820	2850 6280	8.38 (27.5)
-1.5m (-5ft)	kg lb	*13750 *30310	*13750 *30310	*9720 *21430	7310 16120	*7110 *15670	4630 10210			*5050 *11130	3300 7280	7.67 (25.2)
-3.0m (-10ft)	kg lb	*11980 *26410	*11980 *26410	*8610 *18980	7470 16470					*4950 *10910	4440 9790	6.45 (21.2)













(7) 5.68m(18' 8") boom, 2.4m(7' 10") arm equipped with 0.87m³(PCSA heaped) bucket and 4 outrigger down.

Load point height		Load radius										At max. reach		
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		Capacity		Reach
														m(ft)
7.5m (25ft)	kg lb											*3840 *8470	*3840 *8470	7.26 (23.8)
6.0m (20ft)	kg lb							*4350 *9590	*4350 *9590			*3940 *8690	3850 8490	8.26 (27.1)
4.5m (15ft)	kg lb					*5810 *12810	*5810 *12810	*4900 *10800	*4900 *10800	*4540 *10010	4360 9610	*4080 *8990	3340 7360	8.84 (29.0)
3.0m (10ft)	kg lb					*7620 *16800	*7620 *16800	*5720 *12610	*5720 *12610	*4880 *10760	4250 9370	*4250 *9370	3110 6860	9.09 (29.8)
1.5m (5ft)	kg lb					*9150 *20170	*9150 *20170	*6530 *14400	5910 13030	*5270 *11620	4120 9080	*4450 *9810	3080 6790	9.06 (29.7)
Ground Line	kg lb					*9860 *21740	9210 20300	*7050 *15540	5730 12630	*5530 *12190	4040 8910	*4660 *10270	3250 7170	8.72 (28.6)
-1.5m (-5ft)	kg lb	*21810 *48080	*21810 *48080	*14470 *31900	*14470 *31900	*9810 *21630	9170 20220	*7130 *15720	5680 12520			*4850 *10690	3700 8160	8.05 (26.4)
-3.0m (-10ft)	kg lb			*12870 *28370	*12870 *28370	*8990 *19820	*8990 *19820	*6480 *14290	5770 12720			*4920 *10850	4790 10560	6.92 (22.7)
-4.5m (-15ft)	kg lb			*9680 *21340	*9680 *21340	*6670 *14700	*6670 *14700							













(8) 5.68m(18' 8") boom, 2.4m(7' 10") arm equipped with 0.87m³(PCSA heaped) bucket, front outrigger and rear dozer blade down.

Load point height		Load radius										At max. reach		
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		Capacity		Reach
														m(ft)
7.5m (25ft)	kg lb											*3840 *8470	*3840 *8470	7.26 (23.8)
6.0m (20ft)	kg lb							*4350 *9590	*4350 *9590			*3940 *8690	3160 6970	8.26 (27.1)
4.5m (15ft)	kg lb					*5810 *12810	*5810 *12810	*4900 *10800	*4900 *10800	*4540 *10010	3580 7890	*4080 *8990	2730 6020	8.84 (29.0)
3.0m (10ft)	kg lb					*7620 *16800	*7620 *16800	*5720 *12610	5030 11090	*4880 *10760	3470 7650	*4250 *9370	2530 5580	9.09 (29.8)
1.5m (5ft)	kg lb					*9150 *20170	7490 16510	*6530 *14400	4770 10520	*5270 *11620	3350 7390	*4450 *9810	2490 5490	9.06 (29.7)
Ground Line	kg lb					*9860 *21740	7250 15980	*7050 *15540	4610 10160	*5530 *12190	3260 7190	*4660 *10270	2630 5800	8.72 (28.6)
-1.5m (-5ft)	kg lb	*21810 *48080	*21810 *48080	*14470 *31900	*14470 *31900	*9810 *21630	7220 15920	*7130 *15720	4560 10050			*4850 *10690	3000 6610	8.05 (26.4)
-3.0m (-10ft)	kg lb			*12870 *28370	*12870 *28370	*8990 *19820	7340 16180	*6480 *14290	4650 10250			*4920 *10850	3900 8600	6.92 (22.7)
-4.5m (-15ft)	kg lb			*9680 *21340	*9680 *21340	*6670 *14700	*6670 *14700							















(9) 5.68m(18' 8") boom, 2.92m(9' 7") arm equipped with 0.87m³(PCSA heaped) bucket and 4 outrigger down.

Load point height		Load radius										At max. reach		
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		Capacity		Reach
														m(ft)
6.0m (20ft)	kg lb							*4300 *9480	*4300 *9480			*3640 *8020	*3640 *8020	8.75 (28.7)
4.5m (15ft)	kg lb					*5710 *12590	*5710 *12590	*4830 *10650	*4830 *10650	*4490 *9900	*4490 *9900	*3790 *8360	3330 7340	9.29 (30.5)
3.0m (10ft)	kg lb					*7540 *16620	*7540 *16620	*5650 *12460	*5650 *12460	*4820 *10630	4480 9900	*3970 *8750	3120 6880	9.53 (31.3)
1.5m (5ft)	kg lb					*9080 *20020	*9080 *20020	*6460 *14240	6230 13730	*5220 *11510	4360 9610	*4170 *9190	3090 6810	9.50 (31.2)
Ground Line	kg lb			*15270 *33660	*15270 *33660	*9800 *21610	9760 21520	*6990 *15410	6060 13360	*5470 *12060	4280 9440	*4390 *9680	3220 7100	9.18 (30.1)
-1.5m (-5ft)	kg lb	*22050 *48610	*22050 *48610	*14470 *31900	*14470 *31900	*9760 *21520	9720 21430	*7070 *15590	6010 13250			*4620 *10190	3600 7940	8.55 (28.1)
-3.0m (-10ft)	kg lb			*12840 *28310	*12840 *28310	*8930 *19690	*8930 *19690	*6430 *14180	6090 13430			*4810 *10600	4460 9830	7.51 (24.6)
-4.5m (-15ft)	kg lb			*9640 *21250	*9640 *21250									

(10) 5.68m(18' 8") boom, 2.92m(9' 7") arm equipped with 0.87m³(PCSA heaped) bucket, front outrigger and rear dozer blade down.

Load point height		Load radius										At max. reach		
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		Capacity		Reach
														m(ft)
6.0m (20ft)	kg lb							*4290 *9460	*4290 *9460			*3640 *8020	3180 7010	8.74 (28.7)
4.5m (15ft)	kg lb					*5700 *12570	*5700 *12570	*4820 *10630	*4820 *10630	*4490 *9900	3860 8510	*3790 *8360	2790 6150	9.29 (30.5)
3.0m (10ft)	kg lb					*7520 *16580	*7520 *16580	*5640 *12430	5390 11880	*4820 *10630	3740 8250	*3970 *8750	2600 5730	9.53 (31.3)
1.5m (5ft)	kg lb					*9070 *20000	8070 17790	*6450 *14220	5140 11330	*5210 *11490	3620 7980	*4170 *9190	2560 5640	9.50 (31.2)
Ground Line	kg lb			*15270 *33660	*15270 *33660	*9800 *21610	7840 17280	*6980 *15390	4970 10960	*5470 *12060	3530 7780	*4390 *9680	2670 5890	9.19 (30.2)
-1.5m (-5ft)	kg lb	*22030 *48570	*22030 *48570	*14480 *31920	*14480 *31920	*9760 *21520	7800 17200	*7070 *15590	4920 10850			*4620 *10190	2990 6590	8.56 (28.1)
-3.0m (-10ft)	kg lb			*12850 *28330	*12850 *28330	*8940 *19710	7900 17420	*6440 *14200	5000 11020			*4810 *10600	3710 8180	7.52 (24.7)
-4.5m (-15ft)	kg lb			*9670 *21320	*9670 *21320									

(11) 5.68m(18' 8") boom, 3.9m(12' 9") arm equipped with 0.87m³(PCSA heaped) bucket and 4 outrigger down.

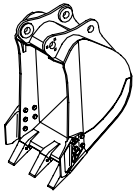
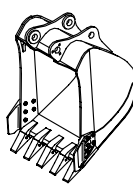
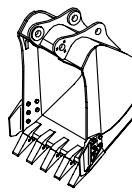
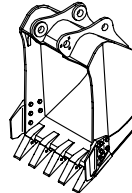
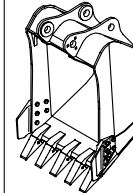
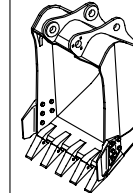
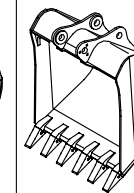
Load point height		Load radius												At max. reach		
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		9.0m(30ft)		Capacity		Reach
																m(ft)
9.0m (30ft)	kg lb													*2860 *6310	*2860 *6310	7.75 (25.4)
7.5m (25ft)	kg lb									*3140 *6920	*3140 *6920			*2950 *6500	*2950 *6500	8.98 (29.5)
6.0m (20ft)	kg lb									*3120 *6880	*3120 *6880			*3070 *6770	2880 6350	9.77 (32.1)
4.5m (15ft)	kg lb									*3430 *7560	*3430 *7560	*3460 *7630	3210 7080	*3210 *7080	2570 5670	10.26 (33.7)
3.0m (10ft)	kg lb					*5420 *11950	*5420 *11950	*4430 *9770	*4430 *9770	*3920 *8640	*3920 *8640	*3680 *8110	3130 6900	*3370 *7430	2420 5340	10.47 (34.4)
1.5m (5ft)	kg lb			*12530 *27620	*12530 *27620	*7400 *16310	*7400 *16310	*5450 *12020	*5450 *12020	*4490 *9900	4160 9170	*3970 *8750	3030 6680	*3550 *7830	2380 5250	10.44 (34.4)
Ground Line	kg lb	*33050 *72860	*33050 *72860	*14820 *32670	*14820 *32670	*8860 *19530	*8860 *19530	*6310 *13910	5740 12650	*5000 *11020	4000 8820	*4230 *9330	2950 6500	*3750 *8270	2460 5420	10.16 (33.3)
-1.5m (-5ft)	kg lb	*31790 *70080	*31790 *70080	*15340 *33820	*15340 *33820	*9600 *21160	9010 19860	*6850 *15100	5560 12260	*5320 *11730	3890 8580			*3970 *8750	2690 5930	9.61 (31.5)
-3.0m (-10ft)	kg lb	*29300 *64600	*29300 *64600	*14800 *32630	*14800 *32630	*9620 *21210	8950 19730	*6940 *15300	5510 12150	*5280 *11640	3880 8550			*4200 *9260	3170 6990	8.71 (28.6)
-4.5m (-15ft)	kg lb	*24950 *55010	*24950 *55010	*13190 *29080	*13190 *29080	*8830 *19470	*8830 *19470	*6340 *13980	5590 12320					*4370 *9630	4270 9410	7.34 (24.1)
-6.0m (-20ft)	kg lb			*9820 *21650	*9820 *21650	*6530 *14400	*6530 *14400									

(12) 5.68m(18' 8") boom, 3.9m(12' 9") arm equipped with 0.87m³(PCSA heaped) bucket, front outrigger and rear dozer blade down.

Load point height		Load radius												At max. reach		
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		9.0m(30ft)		Capacity		Reach
																m(ft)
9.0m (30ft)	kg lb													*2860 *6310	*2860 *6310	7.75 (25.4)
7.5m (25ft)	kg lb									*3140 *6920	*3140 *6920			*2950 *6500	2830 6240	8.98 (29.5)
6.0m (20ft)	kg lb									*3120 *6880	*3120 *6880			*3070 *6770	2350 5180	9.77 (32.1)
4.5m (15ft)	kg lb									*3430 *7560	*3430 *7560	*3460 *7630	2610 5750	*3210 *7080	2080 4590	10.26 (33.7)
3.0m (10ft)	kg lb					*5420 *11950	*5420 *11950	*4430 *9770	*4430 *9770	*3920 *8640	3560 7850	*3680 *8110	2530 5580	*3370 *7430	1940 4280	10.47 (34.4)
1.5m (5ft)	kg lb			*12530 *27620	*12530 *27620	*7400 *16310	*7400 *16310	*5450 *12020	4900 10800	*4490 *9900	3380 7450	*3970 *8750	2440 5380	*3550 *7830	1900 4190	10.44 (34.4)
Ground Line	kg lb	*33050 *72860	*33050 *72860	*14820 *32670	*14820 *32670	*8860 *19530	7310 16120	*6310 *13910	4610 10160	*5000 *11020	3220 7100	*4230 *9330	2360 5200	*3750 *8270	1960 4320	10.16 (33.3)
-1.5m (-5ft)	kg lb	*31790 *70080	*31790 *70080	*15340 *33820	14970 33000	*9600 *21160	7050 15540	*6850 *15100	4440 9790	*5320 *11730	3120 6880			*3970 *8750	2150 4740	9.61 (31.5)
-3.0m (-10ft)	kg lb	*29300 *64600	*29300 *64600	*14800 *32630	*14800 *32630	*9620 *21210	7000 15430	*6940 *15300	4390 9680	*5280 *11640	3100 6830			*4200 *9260	2550 5620	8.71 (28.6)
-4.5m (-15ft)	kg lb	*24950 *55010	*24950 *55010	*13190 *29080	*13190 *29080	*8830 *19470	7120 15700	*6340 *13980	4470 9850					*4370 *9630	3460 7630	7.34 (24.1)
-6.0m (-20ft)	kg lb			*9820 *21650	*9820 *21650	*6530 *14400	*6530 *14400									


6. BUCKET SELECTION GUIDE


1) GENERAL BUCKET


						
0.51m³ PCSA heaped bucket	0.80m³ PCSA heaped bucket	※ 0.87m³ PCSA heaped bucket	0.92m³ PCSA heaped bucket	1.05m³ PCSA heaped bucket	1.20m³ PCSA heaped bucket	1.34m³ PCSA heaped bucket

Capacity		Width		Weight	Recommendation					
					5.68m (18' 8") boom				5.2m (17' 1") boom	
PCSA heaped	CECE heaped	Without side cutter	With side cutter		2.0m arm (6' 7")	2.4m arm (7' 10")	2.92m arm (9' 7")	3.9m arm (12' 9")	2.0m arm (6' 7")	2.4m arm (7' 10")
0.51m³ (0.67yd³)	0.45m³ (0.59yd³)	700mm (27.6")	820mm (32.3")	580kg (1280lb)						
0.80m³ (1.05yd³)	0.70m³ (0.92yd³)	1000mm (39.4")	1120mm (44.1")	650kg (1430lb)						
※ 0.87m³ (1.14yd³)	0.75m³ (0.98yd³)	1090mm (42.9")	1210mm (47.6")	660kg (1460lb)						
0.92m³ (1.20yd³)	0.80m³ (1.05yd³)	1130mm (44.5")	1250mm (49.2")	710kg (1570lb)						
1.05m³ (1.37yd³)	0.90m³ (1.18yd³)	1250mm (49.2")	1370mm (53.9")	740kg (1630lb)						
1.20m³ (1.57yd³)	1.00m³ (1.31yd³)	1400mm (55.1")	—	770kg (1700lb)						
1.34m³ (1.75yd³)	1.15m³ (1.50yd³)	1550mm (61.0")	—	800kg (1760lb)						

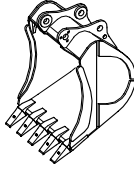
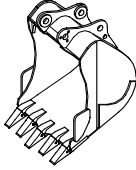
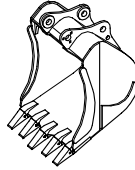
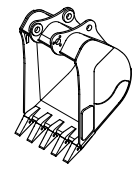
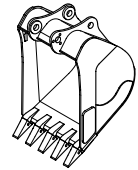
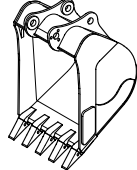
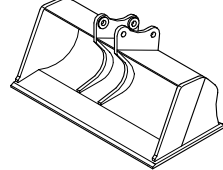
※ : Standard bucket

 Applicable for materials with density of 2000kg/m³ (3370lb/yd³) or less

 Applicable for materials with density of 1600kg/m³ (2700lb/yd³) or less




 Applicable for materials with density of 1100kg/m³ (1850lb/yd³) or less

2) ROCK, HEAVY DUTY AND SLOPE FINISHING BUCKET

							
◆0.87m³ PCSA heaped bucket (770kg,1700lb)	◆0.87m³ PCSA heaped bucket (860kg, 1900lb)	●0.87m³ PCSA heaped bucket (860kg,1900lb)	★0.72m³ PCSA heaped bucket (750kg,1650lb)	★0.82m³ PCSA heaped bucket (790kg,1740lb)	★1.16m³ PCSA heaped bucket (870kg,1920lb)	■0.75m³ PCSA heaped bucket (880kg,1940lb)	■0.86m³ PCSA heaped bucket (770kg,1700lb)

Capacity		Width		Weight	Recommendation					
					5.68m (18' 8") boom				5.2m (17' 1") boom	
PCSA heaped	CECE heaped	Without side cutter	With side cutter		2.0m arm (6' 7")	2.4m arm (7' 10")	2.92m arm (9' 7")	3.9m arm (12' 10")	2.0m arm (6' 7")	2.4m arm (7' 10")
◆0.87m³ (1.14yd³)	0.75m³ (0.98yd³)	1150mm (45.3")	—	770kg (1700lb)						
◆0.87m³ (1.14yd³)	0.75m³ (0.98yd³)	1140mm (44.9")	—	860kg (1900lb)						
●0.87m³ (1.14yd³)	0.75m³ (0.98yd³)	1090mm (42.9")	—	860kg (1900lb)						
★0.72m³ (0.94yd³)	0.65m³ (0.85yd³)	915mm (36.0")	—	750kg (1650lb)						
★0.82m³ (1.07yd³)	0.73m³ (0.95yd³)	1070mm (42.1")	—	790kg (1740lb)						
★1.16m³ (1.51yd³)	0.91m³ (1.19yd³)	1220mm (48.0")	—	870kg (1920lb)						
■0.75m³ (0.98yd³)	0.65m³ (0.85yd³)	1810mm (71.3")	—	880kg (1940lb)						
■0.86m³ (1.12yd³)	0.75m³ (0.98yd³)	1400mm (55.2")	—	770kg (1700lb)						

◆ : Rock bucket ◆ : Rock bucket(Heavy) ● : Rock bucket(ESCO type) ★ : Heavy duty bucket ■ : Slope finishing bucket

-  Applicable for materials with density of 2000kg/m³(3370lb/yd³) or less
-  Applicable for materials with density of 1600kg/m³(2700lb/yd³) or less
-  Applicable for materials with density of 1100kg/m³(1850lb/yd³) or less

7. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item		Specification
Model		Cummins B5.9-C
Type		4-cycle turbocharged diesel engine
Cooling method		Water cooling
Number of cylinders and arrangement		6 cylinders, in-line
Firing order		1-5-3-6-2-4
Combustion chamber type		Direct injection type
Cylinder bore × stroke		102 × 120mm(4.02" × 4.72")
Piston displacement		5880cc(359cu in)
Compression ratio		17.5 : 1
Rated gross horse power(SAE J1349)		167Hp at 2000rpm(125kW at 2000rpm)
Maximum torque at 1500rpm		66.4kgf · m(480lb · ft)
Engine oil quantity		24 l (6.3U.S. gal)
Dry weight		411kg(906lb)
High idling speed		2240 ± 50rpm
Low idling speed		950 ± 100rpm
Rated fuel consumption		164g/Ps · hr
Starting motor		Delco Remy 37MT(24V)
Alternator		Delco Remy series 21SI(24V-50Amp)
Battery		2 × 12V × 160Ah

2) MAIN PUMP

Item		Specification
Type		Variable displacement bent axis piston pump
Capacity		2 × 112cc/rev
Pressure	Rated	320kg/cm ² (4550psi)
	Maximum(Power boost)	350kg/cm ² (4980psi)
Rated oil flow		2 × 220 l / min(58.1U.S. gpm/ 48.4U.K. gpm)
Rated speed		2000rpm(Clockwise viewed from shaft end)

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	10cc/rev
Maximum pressure	40^{+2}_0 kg/cm ² (570psi)
Rated oil flow	20 l /min(5.3U.S. gpm/4.4U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	9 spool
Operating method	Hydraulic pilot system
Main relief valve pressure	320kg/cm ² (4550psi)/[350kg/cm ² (4980psi)]
Overload relief valve pressure	380kg/cm ² (5400psi)

[]: Power boost

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	151cc/rev
Relief pressure	240kg/cm ² (3410psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	27kg · m(195lb · ft)
Brake release pressure	20~50kg/cm ² (280~710psi)
Reduction gear type	2 - stage planetary
Swing speed	12.5rpm

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement bent-axis axial piston motor
Capacity(Max/min)	160/71cc/rev
Relief pressure	350kg/cm ² (4980psi)
Counter balance valve	Applied

7) POWER TRAIN

Item	Description		Specification
Transmission	Type		2 speed power shift transmission
	Gear ratio	1st	5.35
		2nd	1.39
Parking brake	Type		Multi disc brake integrated in transmission
	Maximum braking power		168kgf · m(2390lb · ft)
Axle	Type		4 wheel drive with differential
	Gear ratio		13.55
	Brake		Multi disc brake

8) REMOTE CONTROL VALVE

Item			Specification
Type			Pressure reducing type
Operating pressure	Minimum		5.5kg/cm ² (78psi)
	Maximum		20.5kg/cm ² (292psi)
Single operation stroke	Lever		82.7mm(3.3in)

9) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	ø 120 × ø 85 × 1290mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	ø 140 × ø 95 × 1460mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	ø 115 × ø 80 × 1120mm
	Cushion	Extend only
Dozer cylinder	Bore dia × Rod dia × Stroke	ø 120 × ø 85 × 229mm
	Cushion	Extend only
Outrigger cylinder	Bore dia × Rod dia × Stroke	ø 130 × ø 80 × 365mm
	Cushion	-

10) BUCKET

Item	Capacity		Tooth quantity	Width	
	PCSA heaped	CECE heaped		Without side cutter	With side cutter
STD	0.87m ³ (1.14yd ³)	0.75m ³ (0.98yd ³)	5	1090mm(42.9")	1210mm(47.6")
OPT	0.51m ³ (0.67yd ³)	0.45m ³ (0.59yd ³)	3	700mm(27.6")	820mm(32.3")
	0.80m ³ (1.05yd ³)	0.70m ³ (0.92yd ³)	5	1000mm(39.4")	1120mm(44.1")
	0.92m ³ (1.20yd ³)	0.80m ³ (1.05yd ³)	5	1130mm(44.5")	1250mm(49.2")
	1.05m ³ (1.37yd ³)	0.90m ³ (1.18yd ³)	5	1250mm(49.2")	1370mm(53.9")
	1.20m ³ (1.57yd ³)	1.00m ³ (1.31yd ³)	6	1400mm(55.1")	-
	1.34m ³ (1.75yd ³)	1.15m ³ (1.50yd ³)	5	1550mm(61.1")	-
	◆0.87m ³ (1.14yd ³)	0.75m ³ (0.98yd ³)	5	1150mm(45.3")	-
	◆0.87m ³ (1.14yd ³)	0.75m ³ (0.98yd ³)	5	1140mm(44.9")	-
	●0.87m ³ (1.14yd ³)	0.75m ³ (0.98yd ³)	5	1150mm(45.3")	-
	★0.72m ³ (0.94yd ³)	0.65m ³ (0.85yd ³)	5	915mm(36.0")	-
	★0.82m ³ (1.07yd ³)	0.73m ³ (0.95yd ³)	5	1070mm(42.1")	-
	★1.16m ³ (1.51yd ³)	0.91m ³ (1.19yd ³)	5	1220mm(48.0")	-
	■0.75m ³ (0.98yd ³)	0.65m ³ (0.85yd ³)	-	1810mm(71.3")	-
	■0.86m ³ (1.12yd ³)	0.75m ³ (0.98yd ³)	-	1400mm(55.2")	-

- ◆ : Rock bucket
- ◆ : Rock bucket(Heavy)
- : Rock bucket(ESCO)
- ★ : Heavy duty bucket
- : Slope finishing bucket

8. RECOMMENDED OILS

Use only oils listed below or equivalent.

Do not mix different brand oil.

Service point	Kind of fluid	Capacity l (U.S. gal)	Ambient temperature °C(°F)							
			-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)	40 (104)	
Engine oil pan	Engine oil	24.0(6.3)				SAE 30				
Transmission case		3.8(1.0)	SAE 10W							
			SAE 10W-30							
				SAE 15W-40						
Swing drive	Gear oil	5.0(1.3)								
Final drive		2.0 × 4(0.5 × 4)	SAE 85W-140							
Front axle	Gear oil	12.0(3.2)								
Rear axle			SAE 85W-90							
Hydraulic tank	Hydraulic oil	Tank: 200(52.8) System: 280(74.0)	ISO VG 32							
				ISO VG 46						
				ISO VG 68						
Fuel tank	Diesel fuel	320(84.5)	ASTM D975 NO.1							
					ASTM D975 NO.2					
Fitting (Grease nipple)	Grease	As required	NLGI NO.1							
					NLGI NO.2					
Radiator (Reservoir tank)	Mixture of antifreeze and water 50 : 50	35.9(9.5)		Ethylene glycol base permanent type						

SAE : Society of Automotive Engineers

API : American Petroleum Institute

ISO : International Organization for Standardization

NLGI : National Lubricating Grease Institute

ASTM : American Society of Testing and Material