KOBELCO

SERVICE MANUAL

HYDRAULIC EXCAVATOR

SK200SR

SK200SRLC

S5YB0202E 01

APPLICABLE:
YB02-01601~
LA02-01201~

Issued: July, 2002

MidWestTech | Kobelco SK200SR, SK200SRLC Hydraulic Excavator Service Manual | Publication S5YB0002E-01

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SHOP MANUAL SK200SR SK200SRLC

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3.4 DETAIL DIMENSIONAL DRAWING OF BOSS SECTION

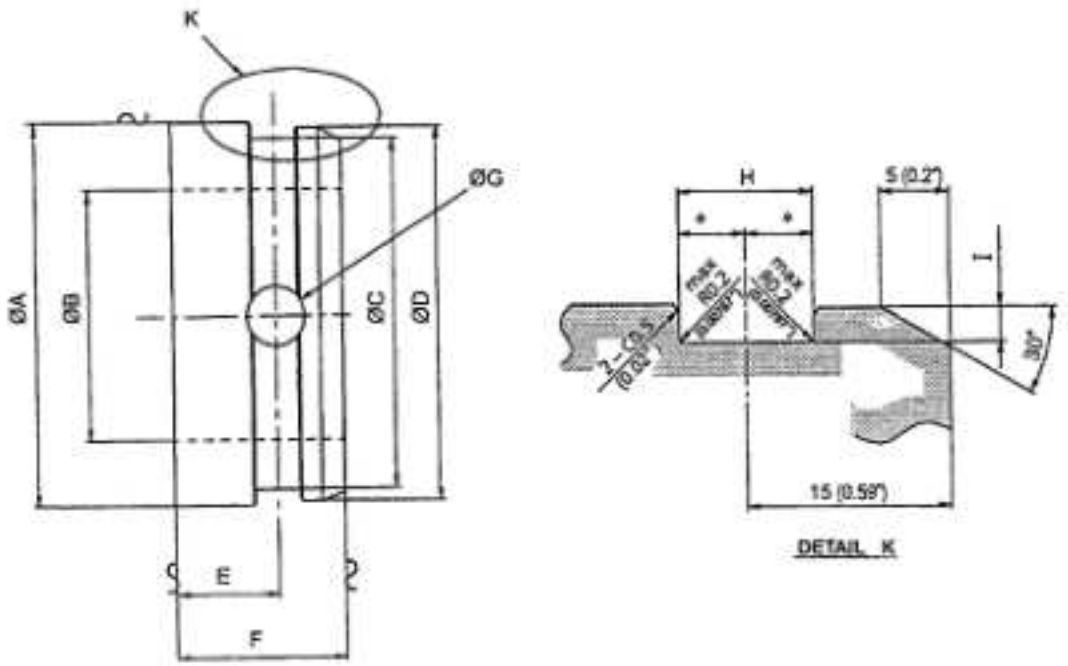


Fig. 3-3 Dimension of boss section

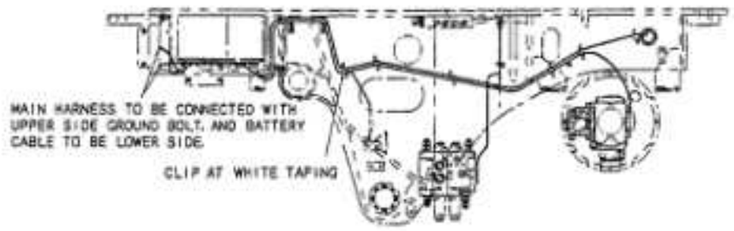
Table 3-4 Unit : mm (ft-in)

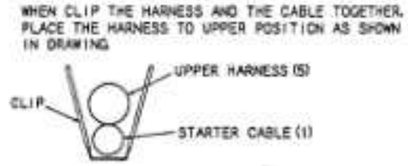
Type of bucket	Capacity of bucket m³ (cu·yd)	Part No. of bucket	Part No. of boss	ØA	ØB	ØC	ØD	E	F	ØG	H	I
Hoe bucket	[STD] 0.75 (0.98)	YB61B00016F1	Boss X 2418P26833	114.3 (4.50")	84 (3.31")	105.5 (4.15")	111.5 (4.39")	27 (1.06")	42 (1.65")	17 (0.669")	13 (0.512")	3.0 (0.118")
	0.63 (0.82)	YB61B00021F1	Boss Y YB61B01002P1	↑	↑	↑	↑	23 (0.91")	38 (1.50")	↑	↑	↑

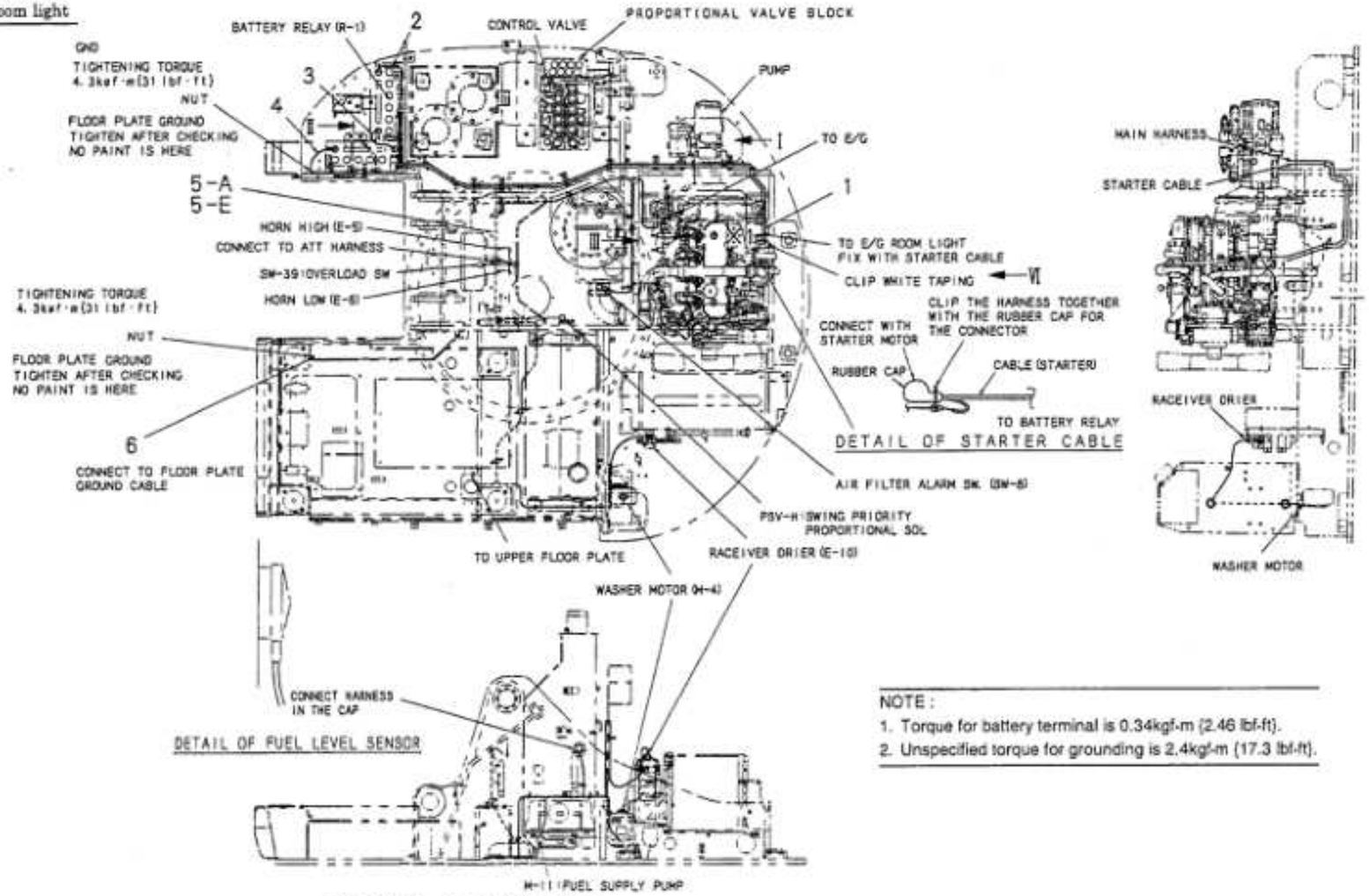
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3.6 UPPER HARNESS ASSY

UPPER HARNESS ASSY		YB13E00012F1			RCMA
		YB13E00010F1			RCMP
ITEM	PART NAME	PART No.	QTY		REMARKS
1	CABLE	YB13E01008D1	1	←	Starter
2	CABLE	YB13E01004D1	1	←	Battery relay
3	CABLE	YB13E01003D1	1	←	Battery
4	CABLE	2486R87D2	1	←	Ground
5-A	HARNESS	YB13E01027P1	1	–	Main harness
5-E	HARNESS	YB13E01023P1	–	1	Main harness
6	CABLE	LE13E01006P1	1	←	Frame ground
15	HARNESS	YB03E01002P2	–	1	E/G room light





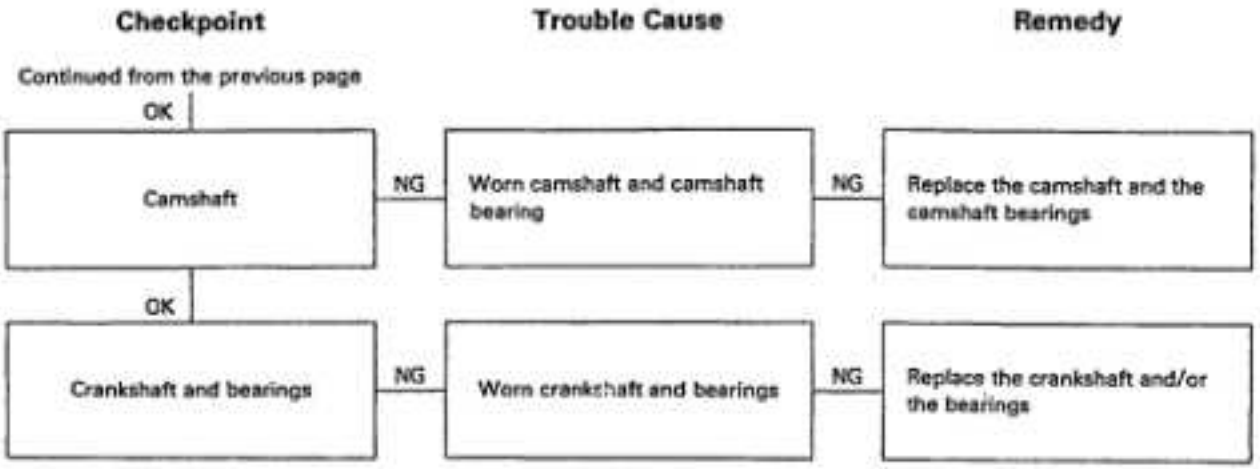


NOTE :
1. Torque for battery terminal is 0.34kgf-m (2.46 lbf-ft).
2. Unspecified torque for grounding is 2.4kgf-m (17.3 lbf-ft).

Fig. 8 (1/3) Upper harness assy

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OIL PRESSURE DOES NOT RISE



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5. MAIN PIPING

No.	NAME	QTY	REMARKS
(1)	Pump delivery		YB30H00002F1
1	TUBE	1	Suction
2	TUBE	1	Suction
3	HOSE	2	Suction
4	HOSE ; L=1110 1-3/16-12UN	1	P1 Pump delivery
5	HOSE ; L=1040 1-3/16-12UN	1	P2 Pump delivery
6	O RING	1	1A G75
7	O RING	2	1B P26
8	HALF CLAMP	4	3/4
9	CAPSCREW	8	M10x35
10	CAPSCREW	4	M12x30
11	U-BOLT	2	
12	WASHER	4	
13	LOCK WASHER	8	
14	LOCK WASHER	4	
15	NUT	8	
16	CLIP	8	
17	PRESSURE SENSOR ; PF3/8	2	LC92S00012P1
18	ELBOW	1	PF1/2
19	GROMMET	2	
20	CLIP	2	
(2)	Control valve piping		YB03H00016F1
1	TUBE Ø27.2	1	Boom (H)
2	TUBE Ø27.2	1	Boom (R)
3	TUBE Ø34	1	Arm (H)
4	TUBE Ø27.2	1	Arm (R)
5	TUBE Ø27.2	1	Bucket (H)
6	TUBE Ø27.2	1	Bucket (R)
7	HOSE ; 1 3/16-12UN L=1250	1	Travel right
8	CAPSCREW	2	M12 x 70
9	HOSE ; 1 3/16-12UN L=1400	1	Travel right
10	HOSE ; 1 3/16-12UN L=1500	2	Swing motor
11	CAPSCREW	2	M12 x 55
12	HOSE ; 1 3/16-12UN L=1600	1	Travel left
13	PLATE	1	
14	O RING	2	1-14UNS
15	O RING	22	1"3/16-12UN
16	O RING	2	1"7/16-12UN
17	CONNECTOR	3	1"3/16-12UN - PF3/4
18	CONNECTOR	5	1"3/16-12UN - PF3/4
19	CONNECTOR	1	1"3/16-12UN - PF3/4
20	CONNECTOR	2	1"3/16-12UN - PF3/4
21	CONNECTOR	1	1"7/16-12UN - PF3/4
22	HOSE ; 1 3/16-12UN L=1450	1	Travel left
23	ELBOW	4	1-3/16-12UN - PF3/4
24	CONNECTOR	1	PF3/4 L=60
26	NUT	3	
27	CLAMP	1	
28	CLAMP	4	
29	WASHER	12	
30	CAPSCREW	2	M12 x 35
31	SUPPORT	1	
32	SUPPORT	1	
33	GROMMET	1	
34	HOSE ; 1 3/16-12UN L=1300	2	Boom (R)
35	GROMMET	2	
36	CLIP	4	
37	CAPSCREW	2	M12 x 30
38	CONNECTOR	2	PF3/4 L=75
39	CAPSCREW	1	M12 x 75
40	TUBE	1	L = 22.0
41	TUBE	1	L = 36.0
(3)	Swivel joint hyd. Piping		YN19H00013F1
1	CONNECTOR	1	PF1/2
2	CONNECTOR	4	1"3/16-12UN - PF1
3	TUBE	2	1"3/16-12UN - PF1
4	TUBE	2	1"3/16-12UN - PF1
5	O RING	8	1"3/16-12UN - PF1
(4)	Return piping		YB32H00003F1
1	TUBE	1	
2	TUBE	1	
3	TUBE	1	
4	TUBE	1	
5	HOSE ; PF1/2 L=940	1	PF1/2
6	HOSE ; PF1/2 L=2100	1	PF3/4

No.	NAME	QTY	REMARKS
7	HOSE ; PF1/2 L=2700	1	PF1
8	HOSE ; PF1 L=1900	1	L=1900
9	COUPLING	3	Ø42.7
10	COUPLING	2	Ø48.6
11	COUPLING	1	Ø60.8
12	CHECK VALVE	1	245 KPa
13	CHECK VALVE	1	500 KPa
14	SUPPORT	3	
15	SUPPORT	1	
16	SUPPORT	2	
17	SUPPORT	1	
18	CLAMP	3	Ø42.7 P85
19	CLAMP	2	Ø42.7 P85
20	CLAMP	3	Ø42.7
21	CLAMP	1	Ø60.8
22	O-RING	1	1A G45
23	CONNECTOR	1	PF3/4 - PF1
24	CONNECTOR	1	PF3/4
25	CONNECTOR	1	PF3/4
26	ELBOW	1	PF1/2
27	ELBOW	1	PF3/4 - PF1
28	TEE	1	PF1/2-PF1/2-PF3/8
29	TEE	1	PF1/2-PF1/2-PF3/4
30	SPACER	3	L=22.5
31	CLIP	1	
32	CLIP	1	
33	TUBE	1	L=1000
34	BUSHING	1	
35	HOSE GUARD	1	L=1000
36	CAPSCREW	1	M10 x 25
37	CAPSCREW	1	M10 x 30
38	CAPSCREW	3	M10 x 55
39	CAPSCREW	4	M10 x 90
40	CAPSCREW	3	M12 x 25
41	CAPSCREW	12	M12 x 30
42	CAPSCREW	2	M12 x 35
43	CAPSCREW	4	M12 x 65
44	WASHER	12	
45	WASHER	25	
46	NUT	2	
47	NUT	4	
48	CLIP	1	
49	TUBE	1	L=1100
50	PLUG	1	PF1
51	TUBE	1	L=750
52	CLIP	1	
53	GROMMET	1	
54	CLIP	1	
62	SUPPORT	1	
63	U BOLT	1	Ø44
64	NUT	4	
65	WASHER	2	
(5)	Travel system hyd. piping		YN02H00018F1 (LC) / YN02H00015F1 (STD)
※1	TUBE	1	1
※2	TUBE	1	1
※3	TUBE	1	1
※4	TUBE	1	1
※5	TUBE	1	1
※6	TUBE	1	1
7	TUBE	1	←
8	TUBE	1	←
9	TUBE	1	←
※10	TUBE	1	1
11	TUBE	1	←
12	TUBE	1	←
13	HOSE	2	← Travel 2-speed command
14	HOSE	2	← L=300
*15	CLIP	12	←
16	CONNECTOR	4	←
17	CONNECTOR	2	←
18	CLAMP	2	←
19	CLAMP	2	←
20	SPACER	4	← t=17.5
21	CAPSCREW	4	← M8x40
22	WASHER	4	←
23	LOCK WASHER	4	←

No.	NAME	QTY	REMARKS
(6)	Travel motor hyd. Piping		YN12H00003F1
1	CONNECTOR	4	PF1-Ø28
2	CONNECTOR	2	PF1/2-Ø28
3	CONNECTOR	2	PF1/4
4	O RING	4	1B P29
5	O RING	2	1B P18
(7)	Swivel hyd. piping		YN19H00003F1
1	CONNECTOR	4	PF1-Ø28
2	CONNECTOR	2	PF1/4
3	TEE	1	PF1/2-Ø18
4	O RING	4	1B P29
5	O RING	1	1B P18
(8)	Boom hyd. piping		YB42H00007F1
1	TUBE	1	
2	TUBE	1	
3	TUBE	1	
4	TUBE	1	
5	HOSE	1	Arm (R)
6	HOSE	2	Bucket (H&R)
7	O RING	7	
8	CLAMP	2	
9	CLAMP	2	
10	CLAMP	4	
11	CAPSCREW	6	M12 x 55
12	LOCK WASHER	6	
13	CLIP	4	
14	O RING	1	
15	HOSE ; L=1430	1	Arm (H)
16	CAPSCREW	3	M12 x 60
17	GUARD	1	
18	GUARD	1	
(9)	Arm hyd. piping		YB43H00001F1 RCME / YB43H00001F2 RCMA
1	HOSE ; L=1200	2	— Arm (H&R)
2	HOSE ; L=1200	—	2 Arm (H&R)
(10)	Boom cyl. Piping		YB42H00019F1 RCME / YB42H00020F1 RCMA
1	TUBE	1	← Left boom cyl. (H)
※2	TUBE	1	1 Right boom cyl. (H)
※3	TUBE	1	1 Left boom cyl. (R)
4	TUBE	1	← Right boom cyl. (R)
5	HOSE	2	← Boom cyl. (H)
6	HOSE	2	← Boom cyl. (R)
7	CLAMP	2	←
8	CAPSCREW	2	← M12 x 50
9	CAPSCREW	16	← M10 x 30
10	CONNECTOR	1	← PF1/4
11	GREASE NIPPLE	2	←
12	O RING	2	←
13	O RING	2	←
14	O RING	4	←
15	LOCK WASHER	2	←
16	PLUG	1	←
(11)	Arm cyl. hyd. piping		YB42H00021F1
1	TUBE	1	
2	HOSE ; L=860	1	Arm (R)
3	HOSE ; L=860	1	Arm (H)
4	CLAMP	1	
5	CONNECTOR	1	
6	HALF CLAMP	2	
7	GREASE NIPPLE	1	PT1/8
8	CAPSCREW	8	M10 x 35
9	CAPSCREW	1	M12 x 55
10	O RING	2	1B P26
11	O RING	1	
12	LOCK WASHER	4	
13	LOCK WASHER	1	
(12)	Bucket cyl. hyd. piping		YB43H00008F1
1	TUBE	1	Ø27.2 x t3.2
2	TUBE	1	Ø27.2 x t3.2
3	CLAMP	1	
4	CAPSCREW	1	M10 x 55

No.	NAME	QTY	REMARKS
5	CAPSCREW	4	M10 x 55
6	CAPSCREW	4	M10 x 35
7	O RING	2	1B P26
8	O RING	2	
9	GREASE NIPPLE	1	PT1/8
10	GREASE NIPPLE	1	PT1/8
11	LOCK WASHER	1	
(13)	Boom cyl. Piping for boom safety		YB42H00039F1
1	TUBE	1	Ø21.7
2	TUBE	1	Ø21.7
3	TUBE	1	Ø27.2
4	TUBE	1	Ø27.2
5	TUBE	1	Ø15
6	TUBE	1	Ø15
7	TUBE	1	Ø15
8	TUBE	1	Ø15
9	TAPPED BLOCK	2	
10	HOSE ; L=860	2	Arm (R)
11	HOSE ; L=860	2	Arm (H)
12	HOSE ; L=1300	1	Equalizer
13	CONNECTOR	4	
14	HOLDING VALVE	1	YB28V00005F1
15	HOLDING VALVE	1	YB28V00004F1
16	CLAMP	2	Ø28-Ø22
17	CLAMP	2	Ø15-Ø15
18	ELBOW	2	
19	ELBOW	2	
20	CONNECTOR	1	
21	CONNECTOR	2	
22	CONNECTOR	2	
23	CONNECTOR	2	
24	O RING	4	1B P26
25	O RING	4	
26	O RING	4	
27	O RING	4	1B P14
28	CAPSCREW	2	M10 x 65
29	CAPSCREW	2	M8 x 35
30	CAPSCREW	8	M10 x 65
31	CAPSCREW	8	M10 x 30
32	WASHER	2	
33	LOCK WASHER	2	
34	LOCK WASHER	2	
35	LOCK WASHER	16	
36	GREASE NIPPLE	2	PT1/8
37	CLIP	4	Ø48 L=188
38	BLOCK	2	
39	CAPSCREW	8	M10 x 45
40	PLUG	2	
41	PLUG	1	
42	TEE	1	
43	CONNECTOR	1	
(14)	Arm cyl. piping for arm safety		YB42H00022F1
1	HOLDING VALVE	1	YB28V00003F1
2	TUBE	1	Ø27.2
3	HOSE ; L=860	1	Arm (R)
4	HOSE ; L=860	1	Arm (H)
5	HOSE ; L=4000	1	Ø18-Ø18
6	HOSE ; L=3900	1	Ø15-Ø15
7	HALF CLAMP	2	
8	CLAMP	1	
9	ELBOW	1	PF3/4 1"3/16-12UNS
10	ELBOW	1	
11	CONNECTOR	1	
12	CONNECTOR	1	PT1/4-PF1/4
13	GREASE NIPPLE	1	PT1/8
14	O RING	1	1B P26
15	O RING	2	1B P18
16	CLIP	15	
17	PLUG	1	
18	CAPSCREW	1	M12 x 55
19	CAPSCREW	4	M10 x 65
20	CAPSCREW	4	M10 x 35
21	LOCK WASHER	1	
22	LOCK WASHER	8	

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