

8 OPERATING HYDRAULIC PIPING CONCERNED

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8-1 OPERATING HYDRAULIC PIPING (VEHICLE BODY)

Serial No.

002~

Illust No.	Part No.	Part Name	QTY	CONV	Remarks
1~(59)	090-1660-000	Operating hydraulic piping Assy	1		
1	091-1810-000	Tank, oil	1		
2	514-1300-001	Adapter	1		
3	024-0570-001	Plug, drain	1		
4	024-0120-001	Packing, copper	1		
(2)	25-F253600	Air breather, combination	1		
(3)	1C-CV-00418-60-00. . 2	Valve, poppet	1		
(4)	29-SFC-10	Strainer, suction	1		
(5)	GRAG085NJ	O-ring	1		
(7)	H05051201800P	Hose	1		
(8)	HA1420	Adapter	1		
(9)	SBH14100201	Bolt	4		
(10)	SBH14160451	Bolt	4		
(11)	SNH141610	Nut	4		
(12)	WS216	Washer, spring	4		
(13)	WS210	Washer, spring	4		
(14)	SNH140810	Nut	3		
(15)	WS208	Washer, spring	3		
(19)	1C-60630-28300. . 2	Cylinder, tilt	1		
(20)	1C-60630-28200. . 3	Cylinder, lift	2		
(21)	2L-CUP-7/8X1/2	Bushing	1		
(22)	20-AS568-910	O-ring	1		
(25)	H05053160370P	Hose	1		
(26)	2Q-FPD17012	Tee joint, adjustable	1		
(27)	2Q-FPD17014	Tee joint, union	1		
(28)	2Q-FPD17016	Elbow	1		
(29)	2P-9034-08-12-N	Elbow	1		
(30)	2P-1069-08-06-N	Elbow	1		
(31)	H00005121400P	Hose	1		
(32)	HH030NJ	Band, hose	1		

8-2 OPERATING HYDRAULIC PIPING (ROTARY HEAD/MS MODEL CHUTE)

Serial No.

002~

Illust No.	Part No.	Part Name	QTY	CONV	Remarks
1~(59)	0A0-0800-000	Operating hydraulic piping Assy	1		
1	0A3-1940-000	Bracket, valve	1		
2	0A2-1170-400	Bracket	1		
3	0A4-0490-100	Orifice	2		
4	0A4-0010-000	Orifice	2		
5	094-2750-001	Clamp	1		
6	0A3-0091-101	Block	1		
(1)	12-C0070-30707. . 0	Valve, control	1		
(2)	1C-60770-15200. . 0	Cylinder, blower case revolving	1		
(3)	1C-60630-27500. . 0	Cylinder, chute folding	1		
(4)	15-ORB-S-070-2AD	Motor, chute turn	1		
(5)	2A-MU230-200	Accumulator	1		
(7)	1C-CV-01112-44-00. . 3	Valve module, selector	2		
(8)	2L-WEUP-1-151H	Elbow	4		
(9)	2L-WEUP-1-333H	Elbow	4		
(10)	2L-BUP-3/4X1/4	Adapter	2		
(11)	2P-1067-06	Adapter	4		
(12)	2P-1071-06-04-74A-N	Elbow	2		
(14)	2P-1071-06-04-N	Elbow	2		
(15)	2P-1072-06	Elbow	2		
(16)	2P-1072-06-04-N	Elbow	6		
(17)	2P-1009-06-04-N	Adapter	2		
(18)	2P-1034-06-04-N	Elbow	2		
(20)	SBH14081201	Bolt	4		
(21)	56-EA4407	Rubber, mount	4		
(22)	SNH641010	Nut	4		
(23)	WS410	Washer, spring	4		
(24)	HA1504	Adapter	3		
(25)	2P-1009-06-04-N	Adapter	1		
(26)	HA1404	Adapter	2		

8-3 OPERATING HYDRAULIC PIPING (MS MODEL CHUTE)

Serial No.

002~

Illust No.	Part No.	Part Name	QTY	CONV	Remarks
1~(29)	0A1-0153-000	Operating hydraulic piping Assy	1		
1	094-4640-000	Clamp 1	1		
2	094-4650-001	Clamp 2	1		
(1)	1C-60630-27900. . 2	Cylinder, chute cap	2		
(2)	1C-60630-28900. . 1	Cylinder, chute expand/reduce	2		
(3)	SNH141010	Nut	4		
(4)	H05053042300G	Hose	2		
(5)	H05053041890S	Hose	1		
(6)	H05053041870S	Hose	1		
(7)	H05053041830S	Hose	1		
(8)	H05053041790S	Hose	1		
(9)	WS210	Washer, spring	4		
(10)	HNL0720400	Tee joint	2		
(11)	HNL0220400	Nipple	2		
(12)	HA1004	Adapter	15		
(13)	HA1404	Adapter	11		
(14)	HA1504	Adapter	2		
(15)	CC0431	Clamp	3		
(16)	H05053040700G	Hose	2		
(17)	H05053040600G	Hose	2		
(18)	SPE04	Plug	2		
(19)	78-CV300	Binder, cable	4		
(20)	SBH14100251	Bolt	2		
(21)	SBH14100201	Bolt	1		
(22)	H05053040800G	Hose	2		
(23)	H05053040720G	Hose	2		
(24)	CC0438	Clamp	2		
(25)	SNH140810	Nut	2		
(26)	WS208	Washer, spring	2		
(29)	HNL0520400	Elbow	2		

8-4 CONTROL VALVE

Serial No.

002~

Illust No.	Part No.	Part Name	QTY	CONV	Remarks
1~13	12-C0070-30707	Control valve Assy	1		(8 section)
1~13	12-C0070-30803	Control valve Assy	1		
1	12-93118-08652	Nut	4		
2	12-21091-30702	Rod, tie	2		
2	12-21091-30802	Rod, tie	2		
3	12-93128-10082	Nut	2		
4	12-21091-90701	Rod, tie	1		(8 section)
4	12-21091-30801	Rod, tie	1		
5	12-21013-34806	Section Assy, inlet	1		
6	12-21011-30104	Section Assy, outlet	1		
7	12-C0013-31009	Section Assy, spool	2		
8	12-C0013-31010	Section Assy, spool	1		
9	12-C0013-31011	Section Assy, spool	1		(8 section)
10	12-21013-35065	Section Assy, spool	1		
10	12-21013-35065	Section Assy, spool	2		
11	12-C0013-31008	Section Assy, spool	2		
12	12-21013-30664	Valve Assy, relief	1		
13	12-21003-00196	Plug Assy	1		

8-5 LIFTING CYLINDER				Serial No.	002~
Illust No.	Part No.	Part Name	QTY	CONV	Remarks
1~15	1C-60630-28200 . . 3	Cylinder Assy, Lifting	1		
1	1C-60632-28201	Tube Assy, cylinder	1		
2	1C-60632-28202	Rod Assy, piston	1		
3	1C-60121-90103	Head, cylinder	1		
4	1C-30131-04503	Bushing	1		
5	1C-60911-45015	U-ring	1		
6	1C-60461-04501	Ring, backup	1		
7	1C-30191-45060	Ring, wiper	1		
8	1C-95122-08500	O-ring	1		
9	1C-95723-08500	Ring, backup	1		
10	1C-95122-09000	O-ring	1		
11	1C-60221-90105	Piston	1		
12	1C-60161-90013	Packing	1		
13	1C-60181-90031	Ring, slide	2		
14	1C-60421-45360	Bushing, pin	1		
15	1C-60421-45350	Bushing, pin	1		
	1C-60639-28201	Seal kit (Key No.5~10,12,13)	1		

8-6 BLOWER CASE REVOLVING
CYLINDER

Serial No.

002~

Illust No.	Part No.	Part Name	QTY	CONV	Remarks
1~15	1C-60770-15200. . 0	Cylinder Assy, blower case revolving	1		
1	1C-60772-09701	Tube Assy, cylinder	1		
2	1C-60772-15201	Rod Assy, piston	1		
3	1C-60121-60102	Head, cylinder	1		
4	1C-30131-03504	Bushing	1		
5	1C-60911-35015	U-ring	1		
6	1C-60461-03501	Ring, backup	1		
7	1C-30191-35060	Ring, wiper	1		
8	1C-95122-05500	O-ring	1		
9	1C-95723-05500	Ring, backup	1		
10	1C-95122-06000	O-ring	1		
11	1C-60221-60107	Piston	1		
12	1C-60161-60011	Seal	1		
13	1C-60181-60031	Ring, slide	2		
14	1C-60431-30471	Bearing, spherical	1		
15	1C-60141-47175	Ring, snap	1		
	1C-60779-09701	Seal kit (Key No.5~10,12,13)	1		

8-7 TILTING CYLINDER				Serial No.	002~	
Illust No.	Part No.	Part Name	QTY	CONV	Remarks	
1~15	1C-60630-28300. . 2	Cylinder Assy, tilting	1			
1	1C-60632-28301	Tube Assy, cylinder	1			
2	1C-60632-28302	Rod Assy, piston	1			
3	1C-60121-90103	Head, cylinder	1			
4	1C-30131-04503	Bushing	1			
5	1C-60911-45015	U-ring	1			
6	1C-60461-04501	Ring, backup	1			
7	1C-30191-45060	Ring, wiper	1			
8	1C-95122-08500	O-ring	1			
9	1C-95723-08500	Ring, backup	1			
10	1C-95122-09000	O-ring	1			
11	1C-60221-90105	Piston	1			
12	1C-60161-90013	Packing	1			
13	1C-60181-90031	Ring, slide	2			
14	1C-96111-20103	Nipple, grease	3			
15	1C-60421-45350	Bushing, pin	2			
	1C-60639-28301	Seal kit (Key No.5~10,12,13)	1			

**8-8 FOLDING CYLINDER
(MS MODEL CHUTE)**

Serial No.

002~

Illust No.	Part No.	Part Name	QTY	CONV	Remarks
1~19	1C-60630-27500. . 3	Cylinder Assy, folding	1		
1	1C-60632-27501	Tube Assy, cylinder	1		
2	1C-60632-27502	Rod Assy, piston	1		
3	1C-60121-65103	Head, cylinder	1		
4	1C-30131-04003	Bushing	1		
5	1C-60911-40015	U-ring	1		
6	1C-60461-04001	Ring, backup	1		
7	1C-30191-40060	Ring, wiper	1		
8	1C-95122-06000	O-ring	1		
9	1C-95723-06000	Ring, backup	1		
10	1C-95122-06500	O-ring	1		
11	1C-60221-65103	Piston	1		
12	1C-60161-65011	Seal	1		
13	1C-60181-65031	Ring, slide	2		
14	1C-96121-20103	Nipple, grease	1		
15	1C-65000-03700V	Valve, double pilot check	1		
16	1C-97123-02111	Plug	1		
17	1C-T1172-00515	Plug, orifice	1		
18	1C-60421-40340	Bushing, pin	2		
19	1C-96111-20103	Nipple, grease	1		
	1C-60639-27501	Seal kit (Key No.5~10,12,13)	1		

**8-9 EXPANDING CYLINDER
(MS MODEL CHUTE)**

Serial No.

002~

Illust No.	Part No.	Part Name	QTY	CONV	Remarks
1~14	1C-60630-28900 . 1	Cylinder Assy, expanding	1		
1	1C-60632-28901	Tube, cylinder	1		
2	1C-60632-28902	Rod, piston	1		
3	1C-60121-50102	Head, cylinder	1		
4	1C-30131-30003	Bushing	1		
5	1C-60911-30015	U-ring	1		
6	1C-60461-03001	Ring, backup	1		
7	1C-30191-30060	Ring, wiper	1		
8	1C-95122-04500	O-ring	1		
9	1C-95723-04500	Ring, backup	1		
10	1C-95151-05000	O-ring	1		
11	1C-60221-50104	Piston	1		
12	1C-60161-50011	Seal	1		
13	1C-60181-50031	Ring, slide	2		
14	1C-30131-30002	Bushing	2		
	1C-60639-28901	Seal kit (Key No.5~10,12,13)	1		

**8-10 CAPPING CYLINDER
(MS MODEL CHUTE)**

Serial No.

002~

Illust No.	Part No.	Part Name	QTY	CONV	Remarks
1~14	1C-60630-27900. . 2	Cylinder Assy, capping	1		
1	1C-60632-27901	Tube Assy, cylinder	1		
2	1C-60632-27902	Rod Assy, piston	1		
3	1C-60121-40107	Head, cylinder	1		
4	1C-30131-02503	Bushing	1		
5	1C-60911-25015	U-ring	1		
6	1C-60461-02501	Ring, backup	1		
7	1C-30191-25060	Ring, wiper	1		
8	1C-95122-03500	O-ring	1		
9	1C-95723-03500	Ring, backup	1		
10	1C-95151-04000	O-ring	1		
11	1C-60221-40103	Piston	1		
12	1C-60161-40111	Seal	1		
13	1C-60181-40031	Ring, slide	2		
14	1C-30131-01802	Bushing	2		
	1C-60639-27901	Seal kit (Key No.5~10,12,13)	1		

**8-11 OPERATING HYDRAULIC PIPING
(TIPPING BACK)**

Serial No.

002~

Illust No.	Part No.	Part Name	QTY	CONV	Remarks
(1)~(24)	0A1-0310-100	Operating hydraulic piping Assy	1		
(1)	12-C0070-30803. . 0	Valve Assy, control	1		
(2)	2L-BUP-3/4X1/4	Adapter	2		
(3)	20-AS568-908	O-ring	2		
(4)	1C-60630-31200. . 1	Cylinder, tipping	2		
(6)	HNL0520400	Elbow	1		
(7)	1A-DPC1-10-P-6T	Valve, double operate check	1		
(8)	HNL0220400	Nipple	2		
(9)	2P-4043-06-04-N	Adapter	2		
(10)	2P-2086-04	Elbow	1		
(11)	HNL0720400	Tee joint	2		
(12)	H05053040950P	Hose	2		
(13)	H05053040850P	Hose	1		
(14)	H05053040800P	Hose	2		
(15)	H05053040750P	Hose	1		
(16)	HA1004	Adapter	1		
(17)	HA1404	Adapter	6		
(18)	HA1504	Adapter	1		
(19)	SBH18060451	Bolt	2		
(20)	WS206	Washer, spring	2		
(21)	WP106	Washer, plain	2		
(22)	2L-BUP-9/16X1/4	Adapter	2		
(23)	20-AS568-906	O-ring	4		
(24)	1D-EFB20S	Valve, flow control	1		

8-12 TIPPING BACK CYLINDER

Serial No.

002~

Illust No.	Part No.	Part Name	QTY	CONV	Remarks
1~15	1C-60630-31200. . 0	Cylinder Assy, tipping back	1		
1	1C-60632-31201	Tube Assy, cylinder	1		
2	1C-60632-31202	Rod Assy, piston	1		
3	1C-60121-75102	Head, cylinder	1		
4	1C-30131-03504	Bushing	1		
5	1C-60911-35015	U-ring	1		
6	1C-60461-03501	Ring, backup	1		
7	1C-30191-35060	Ring, wiper	1		
8	1C-95122-07000	O-ring	1		
9	1C-95723-07000	Ring, backup	1		
10	1C-95122-07500	O-ring	1		
11	1C-60221-75104	Piston	1		
12	1C-60161-75013	Seal	1		
13	1C-60181-75031	Ring, slide	2		
14	1C-60431-45681	Bearing, spherical	2		
15	1C-60141-68255	Ring, snap	2		
	1C-60639-31201	Seal kit (Key No.5~10,12,13)	1		