

R480LC-9S MH

Material Handler

This manual was produced by Sun&Shield, Ltd. and some revisions have been
made in HYUNDAI CONSTRUCTION EQUIPMENT

INTRODUCTION

The intended use of **Material Handler Front** for Wheel or Track Excavators is for scrap and bulk material handling equipped with a grapple, clamshell bucket or magnet. **Material Handler Front** is used for improved operating visibility in the work area.

Two-piece Material Handler Fronts provide excellent lift performance and working range.

The purpose of this manual is to give users detail information about the method for assembling, operating, inspection, maintenance and adjustment of **Material Handler Front**

For the safe operation and maintenance of **Material Handler**.

1. Please, be sure to refer to this user manual before operating machine.
2. Please, operate safely by checking environment of worksite and by checking safety rules.

Please, contact Hyundai Construction Equipment or Hyundai Dealer if you have questions on this manual.

Model	
P/N	
Year of Manufacture	

CONTENTS

1. Safety	
1-1. Operation Cautions -----	04
1-2. Front Attachment Operation Caution -----	05
1-3. Emergency Lowering of Elevating Cabin -----	07
1-4. Safety Pin -----	08
2. Specification	
2-1. The Names of Each Part -----	09
2-2. Specification -----	10
2-3. SAE Lift Capacities -----	12
3. Circuit Diagram	
3-1. Hydraulic Circuit Diagram -----	15
3-1. Hydraulic Parts Installation-----	16
3-2. Electric Circuit Diagram -----	17
4. Operation	
4-1. Control Devices for Operation -----	18
4-2. Cabin Elevating Operation -----	19
5. Maintenance	
5-1. Greasing -----	20
5-2. Hydraulic Oil Level Check -----	23
6. Troubleshooting -----	24

1. Safety

1-1. Operation Cautions

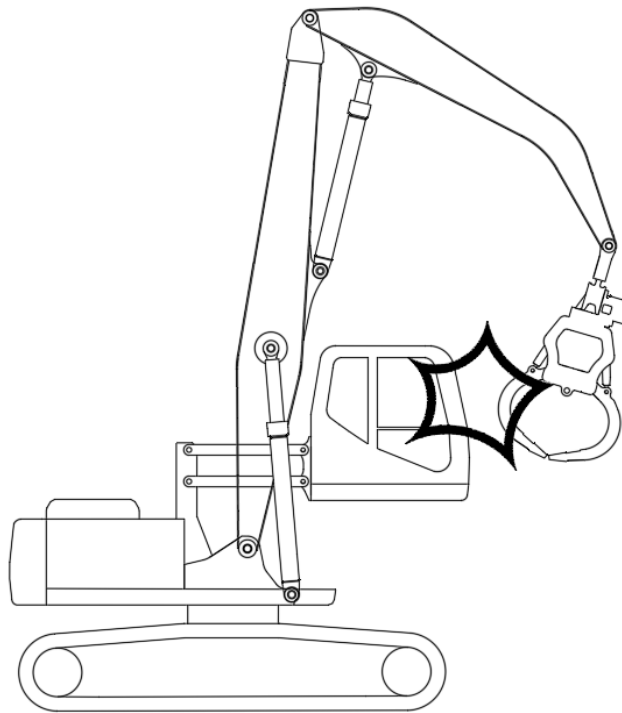
WARNING!

- | |
|--|
| <ol style="list-style-type: none">1. Must check up the working area before operating our equipment.2. Only operate our equipment on flat place because the working on inclined place causes falling down this equipment.3. Only operate our equipment inside of allowed operating distance because the working over allowed operating range might cause falling down this equipment.4. When working with the front of our equipment, operate our equipment as slowly as possible because a sudden change of operating lever might cause falling down this equipment.5. All rated lift capacities are based on the machine and the load both remaining level at all times. DO NOT EXCEED THE STATED LIFT CAPACITY.
Lifting loads greater than those shown in the rated capacity table can cause catastrophic equipment failure and/or structural collapse of the machine |
|--|

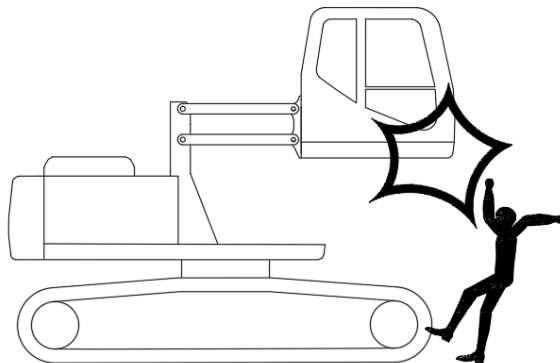
1-2. Front Attachment Operation Caution

Be careful with operating elevating cabin or front attachment.

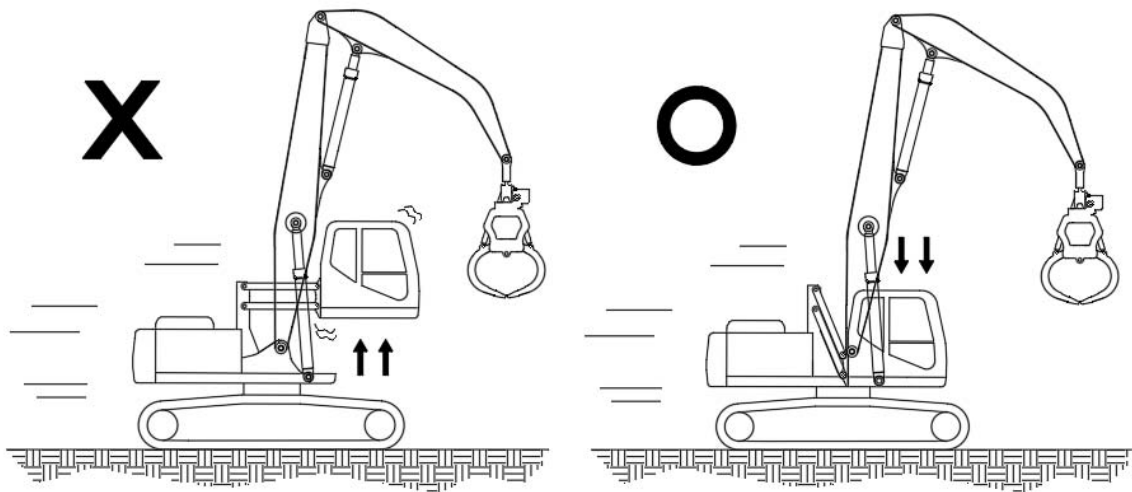
When you operate elevating cabin or front attachment, you should be careful to avoid crash between elevating cabin and front attachment. Serious personal injury or death may result from this crash.



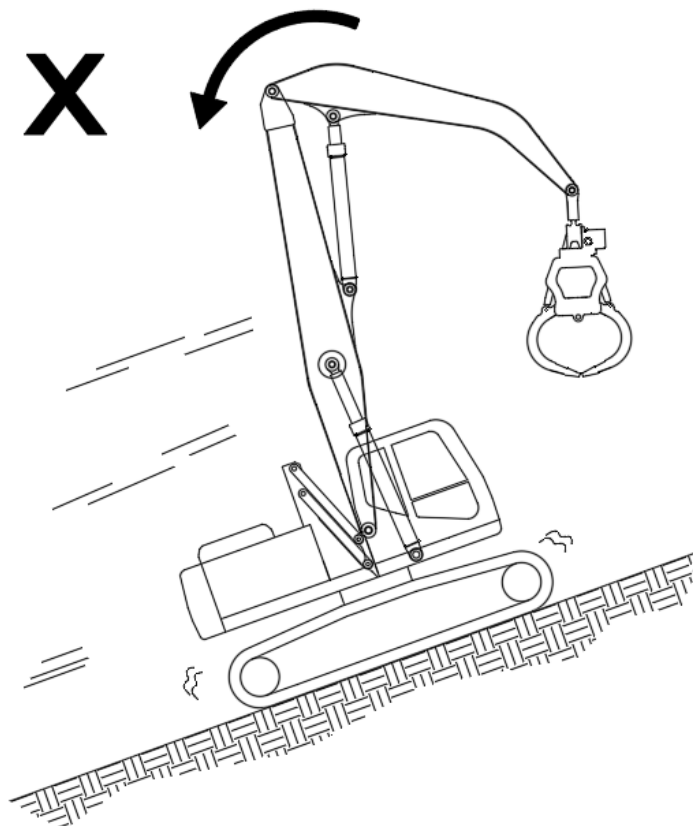
Be careful object or person when elevating cabin descends.



Only drive the machine in a state of Elevating Cabin down

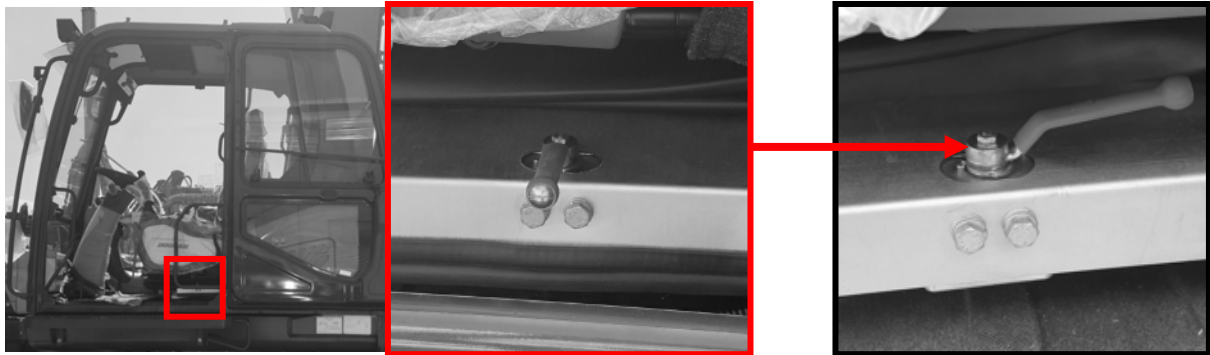


If equipment is used in a slope, the equipment should not be operated since the equipment is overturned.



1-3. Emergency Lowering of Elevating Cabin

Before lowering any equipment with the engine stopped, clear around the equipment of all bystanders.



A - Emergency Cabin lowering : Inside the operator station

- Turn the lever (A) beside the rubber mat clockwise. The cabin slowly descending accordingly.
- On descending completed, return the lever to the original position, (see above photo)

B - Emergency Cabin lowering : from the outside

If the operator in the cab is not able to lower the cab, it is possible to lower the cab from the outside on the ground.

The locking device for this side cover is located behind left side cover.



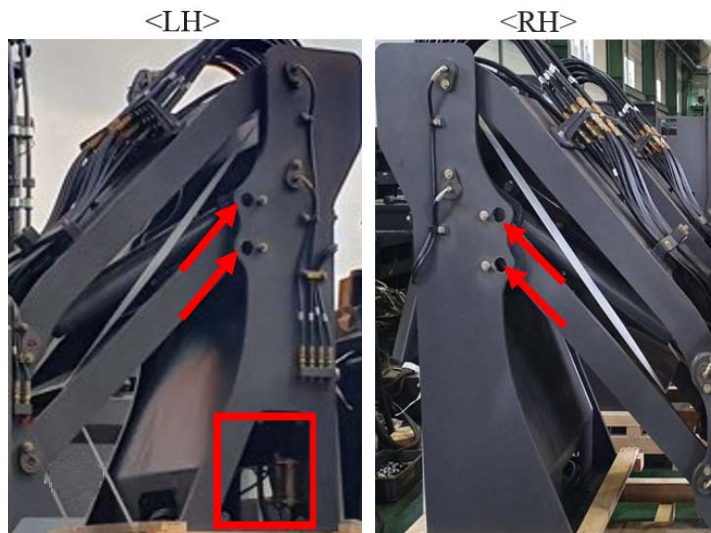
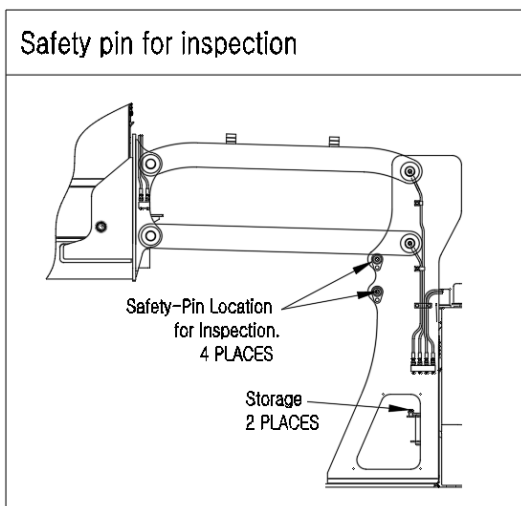
- Open the side cover of the cooler
- Turn the lever (A) until the cab starts lowering.
- When the cab is completely down, return the lever to the original position, see above Photo.

1-4. Safety pin

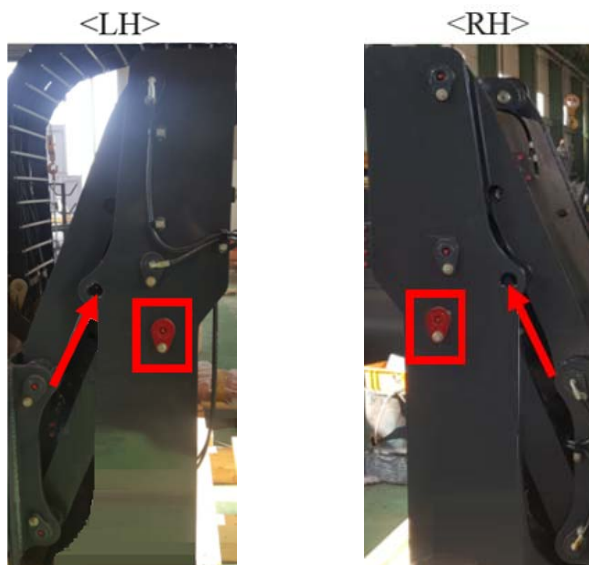
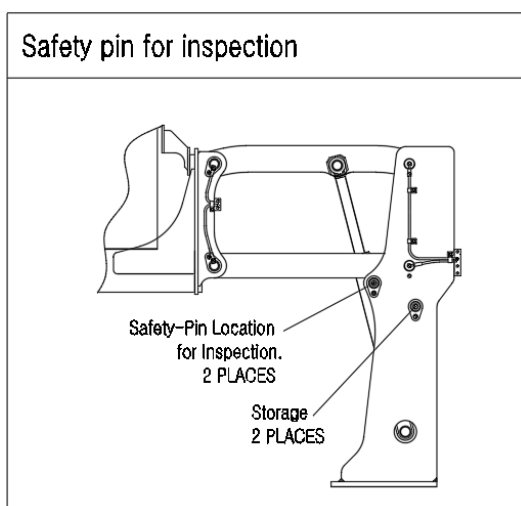
Safety pin is used to be fastened when repairing cabin elevating system.

Whenever inspecting & maintaining cabin elevating system, ensure safety pins are mounted on supporting hole properly.

***Elevated Height : 2.5m**



***Elevated Height : 2.0m**



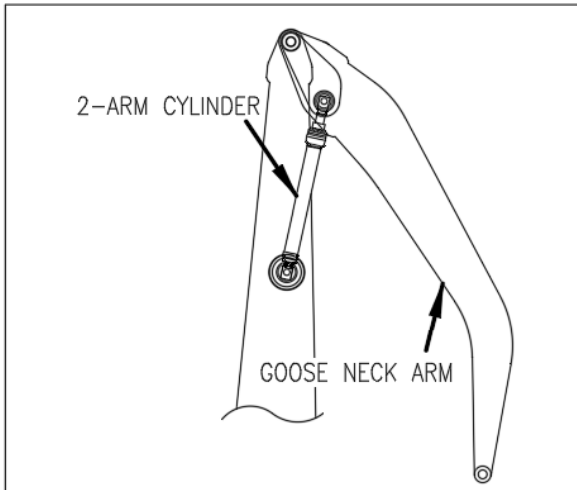
 : The position of the safety pin.

 : The position of safety pins when inspection of cabin elevating system.

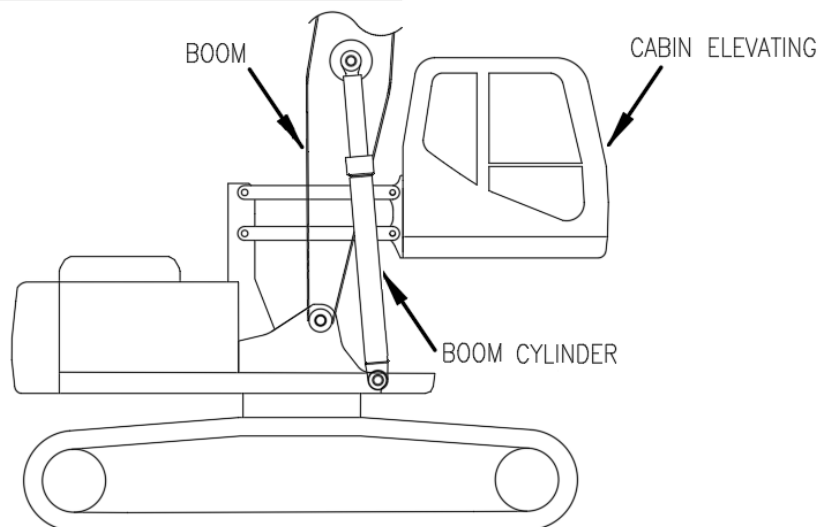
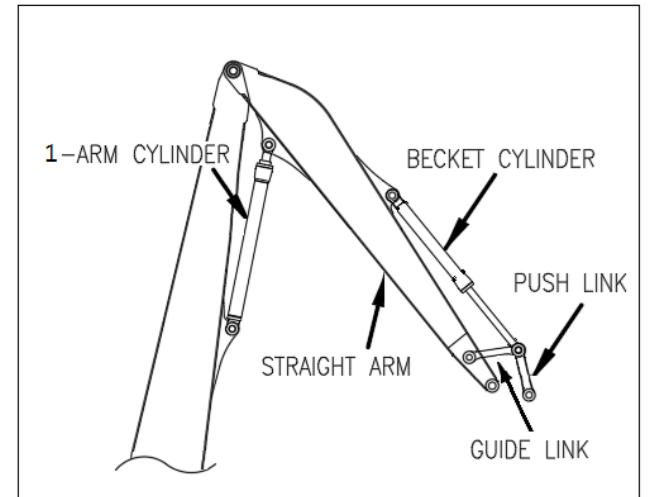
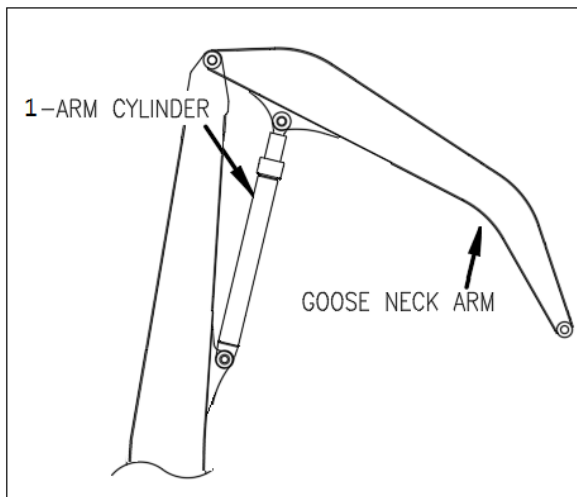
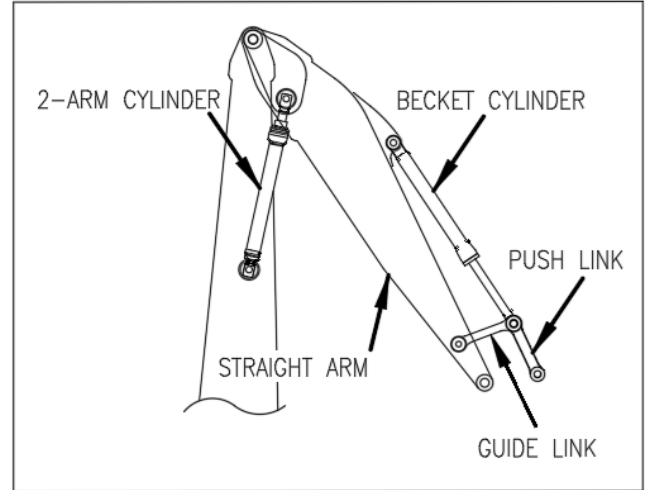
2. Specification

2-1. The Names of Each Part

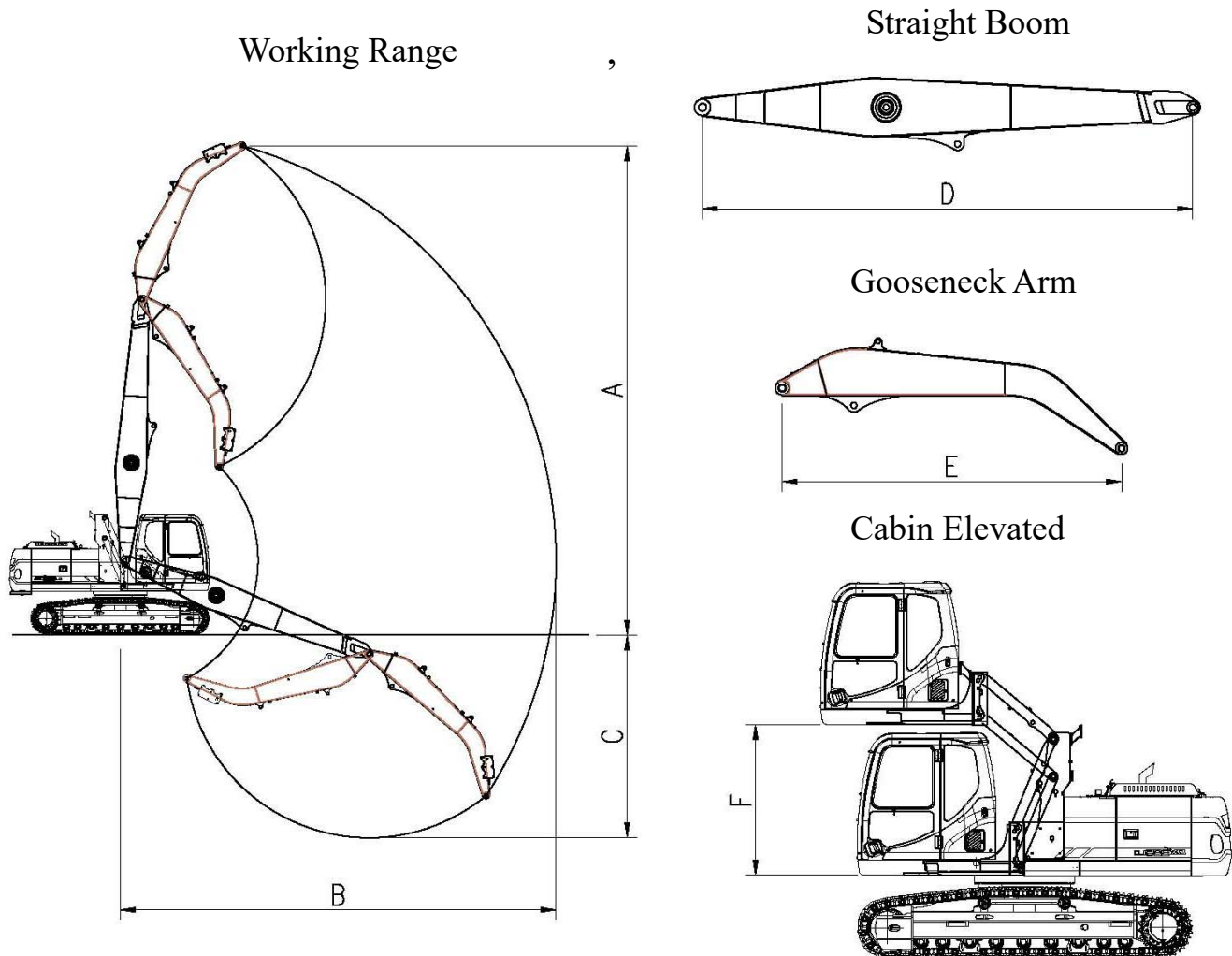
<Goose neck Arm>



<Straight Arm>



2-2. Specification



R480LC-9S MH (SMH50-55-SG & SCE25)

Max. Pin Height (A)	17.6 m	Boom Length (D)	10.0 m
Max. Operation Reach (B)	16.9 m	Arm Length (E)	7.1 m
Max. Working Depth (C)	8.7 m	Elevated Height (F)	2.5 m
Additional Counter Weight	---		
Lift Capacity at Max. Reach	Front : #5.2 ton / Side : 3.7 ton		

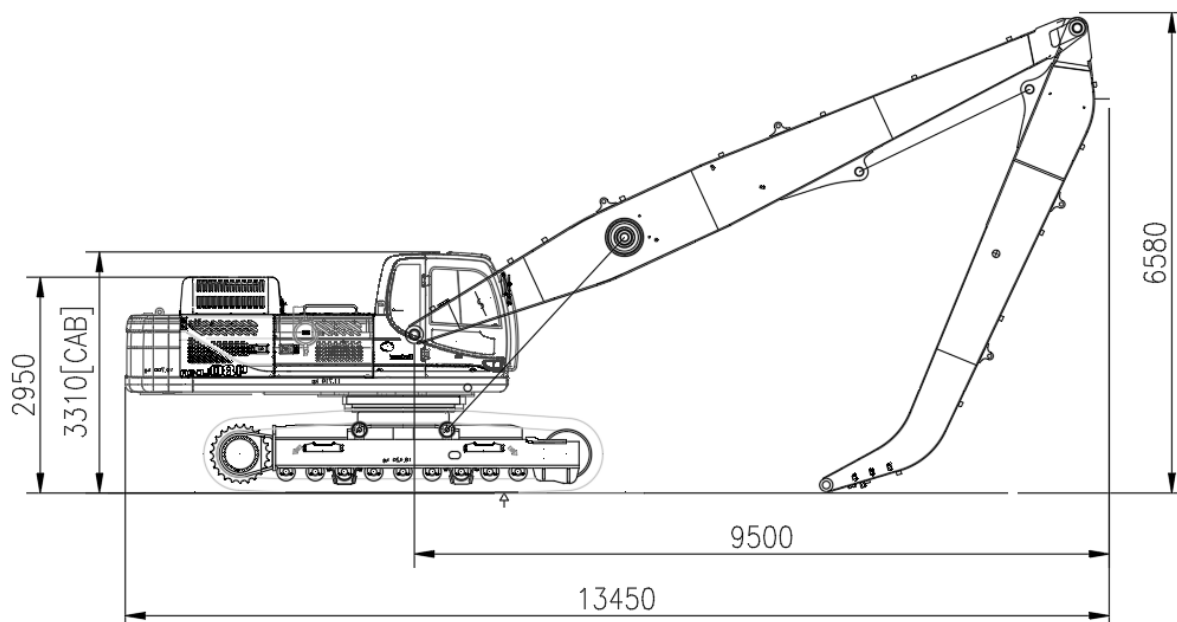
Component Weight & Transportation Dimension

- Component Weight(Without attachment)

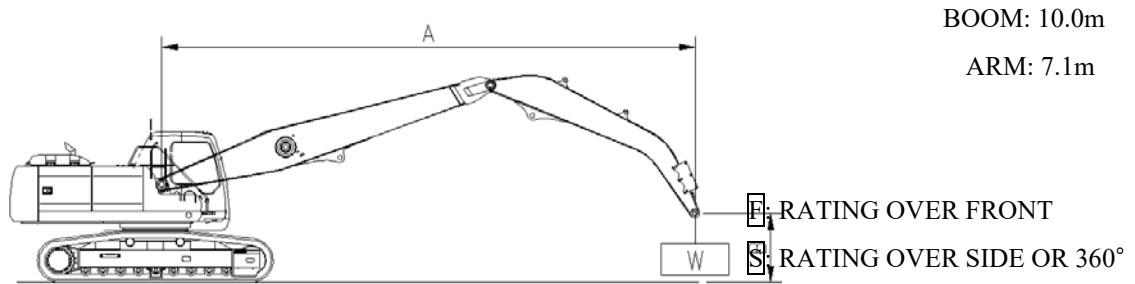
Item		Unit	Weight	Remark
Base Machine		kg	43,610	With Boom cylinder, Factory CWT 11,700 kg
Additional Counter Weight		kg	-	
Front	Boom	kg	4,540	With arm cylinder
	Arm	kg	1,940	
Hydraulic Cabin Elevating		kg	-	
Total		kg	50,090	

- Transportation Dimension

- Width : 3,340 mm



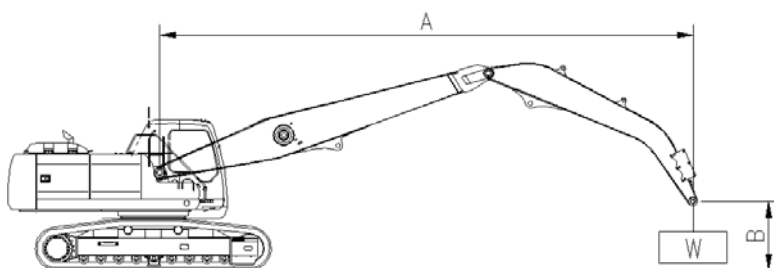
2-3. SAE Lift Capacities



unit: 1kg

A \ B	3m F	3m S	4.5m F	4.5m S	6m F	6m S	7.5m F	7.5m S
16.5m							#10421	#10421
15m								
13.5m								
12m								
10.5m								
9m								
7.5m							#10760	#10760
6m					#12861	#12861	#11566	#11566
4.5m					#15389	#15389	#12460	#12460
3m					#16794	16206	#13257	11942
1.5m					#10843	#10843	#13767	11333
0m					#7990	#7990	#13833	10869
-1.5m			#4119	#4119	#8082	#8082	#13398	10557
-3m	#3848	#3848	#5627	#5627	#9037	#9037	#12513	10406
-4.5m			#7228	#7228	#10410	#10410	#11181	10365
-6m					#10708	#10708	#9402	#9402
-7.5m							#7161	#7161

1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Load point is the end pin point of front attachment.
3. Lifting capacity does not exceed 75% of tipping load or 87% of hydraulic capacity.
4. (#) indicates load limited by hydraulic capacity.



BOOM: 10.0m

ARM: 7.1m

F: RATING OVER FRONT

S: RATING OVER SIDE OR 360°

unit: 1kg

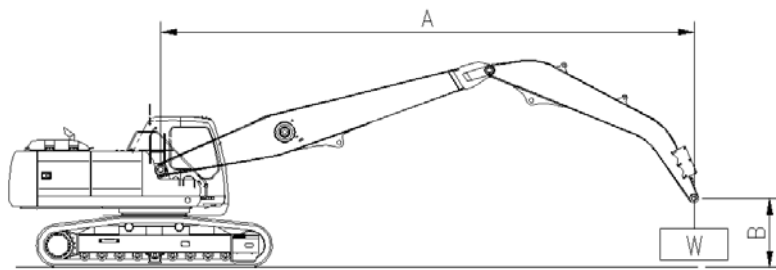
B \ A	9m F	9m S	10.5m F	10.5m S	12m F	12m S	13.5m F	13.5m S
16.5m								
15m	#9238	#9238	#8260	#8260				
13.5m	#8906	#8906	#8260	#8260	#7765	6860		
12m	#8798	#8798	#8129	#8129	#7582	6967		
10.5m	#8875	#8875	#8151	#8151	#7550	6968	#7034	5707
9m	#9117	#9117	#8294	#8294	#7615	6899	#7034	5685
7.5m	#9509	#9509	#8536	8334	#7752	6779	#7091	5615
6m	#10004	#10004	#8842	8096	#7929	6618	#7175	5511
4.5m	#10535	9749	#9164	7821	#8110	6431	#7257	5385
3m	#11016	9322	#9442	7534	#8258	6237	#7308	5254
1.5m	#11319	8919	#9608	7261	#8321	6049	#7287	5125
0m	#11374	8597	#9599	7028	#8257	5888	#7158	5014
-1.5m	#11102	8362	#9372	6857	#8014	5762	#6875	4928
-3m	#10476	8214	#8869	6743	#7547	5678	#6386	4877
-4.5m	#9491	8161	#8060	6695	#6805	5646	#5619	4869
-6m	#8111	#8111	#6886	6711	#5708	5670	#4443	#4443
-7.5m	#6268	#6268	#5262	#5262	#4123	#4123		

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BOOM: 10.0m

ARM: 7.1m

F: RATING OVER FRONT

S: RATING OVER SIDE OR 360°

unit: 1kg

B \ A	15m F	15m S	16.5m F	16.5m S	Max. F	Max. S	Max. Reach (m)
16.5m					#9209	#9209	@8.44
15m					#8060	#8060	@10.61
13.5m					#7427	6640	@12.21
12m					#7043	5677	@13.46
10.5m					#6733	5038	@14.44
9m	#6497	4720			#6417	4593	@15.22
7.5m	#6492	4701			#6155	4275	@15.81
6m	#6505	4644			#5925	4049	@16.24
4.5m	#6509	4567	#5723	3904	#5710	3896	@16.52
3m	#6478	4482	#5612	3862	#5497	3802	@16.66
1.5m	#6379	4400	#5408	3820	#5272	3763	@16.67
0m	#6173	4330	#5055	3789	#5021	3778	@16.53
-1.5m	#5807	4279			#4727	3850	@16.26
-3m	#5211	4261			#4368	3987	@15.84
-4.5m	#4239	#4239			#3910	#3910	@15.27
-6m					#3307	#3307	@14.51
-7.5m							

1.Lifting capacity is based on SAE J1097, ISO 10567.

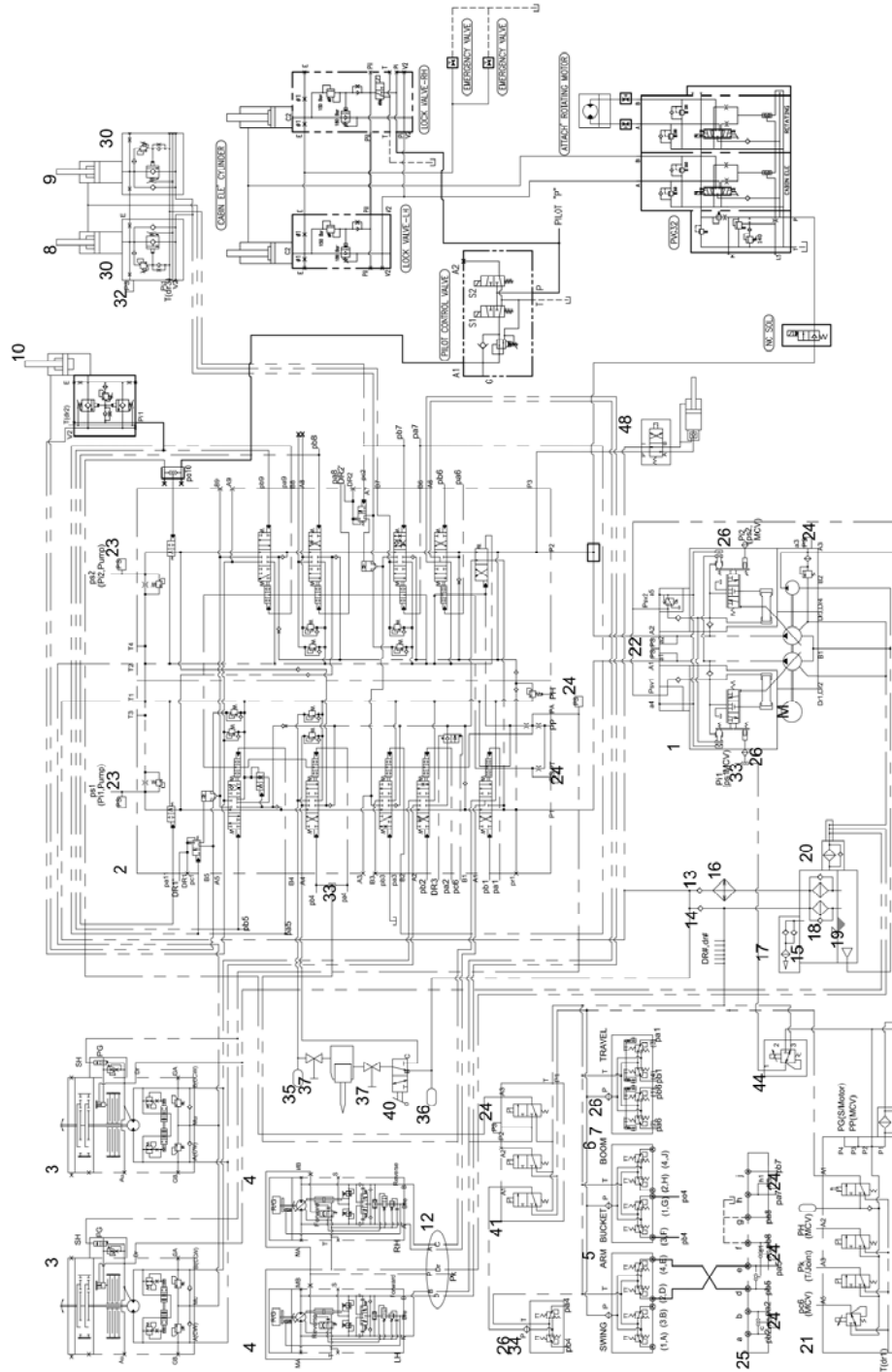
2.Load point is the end pin point of front attachment.

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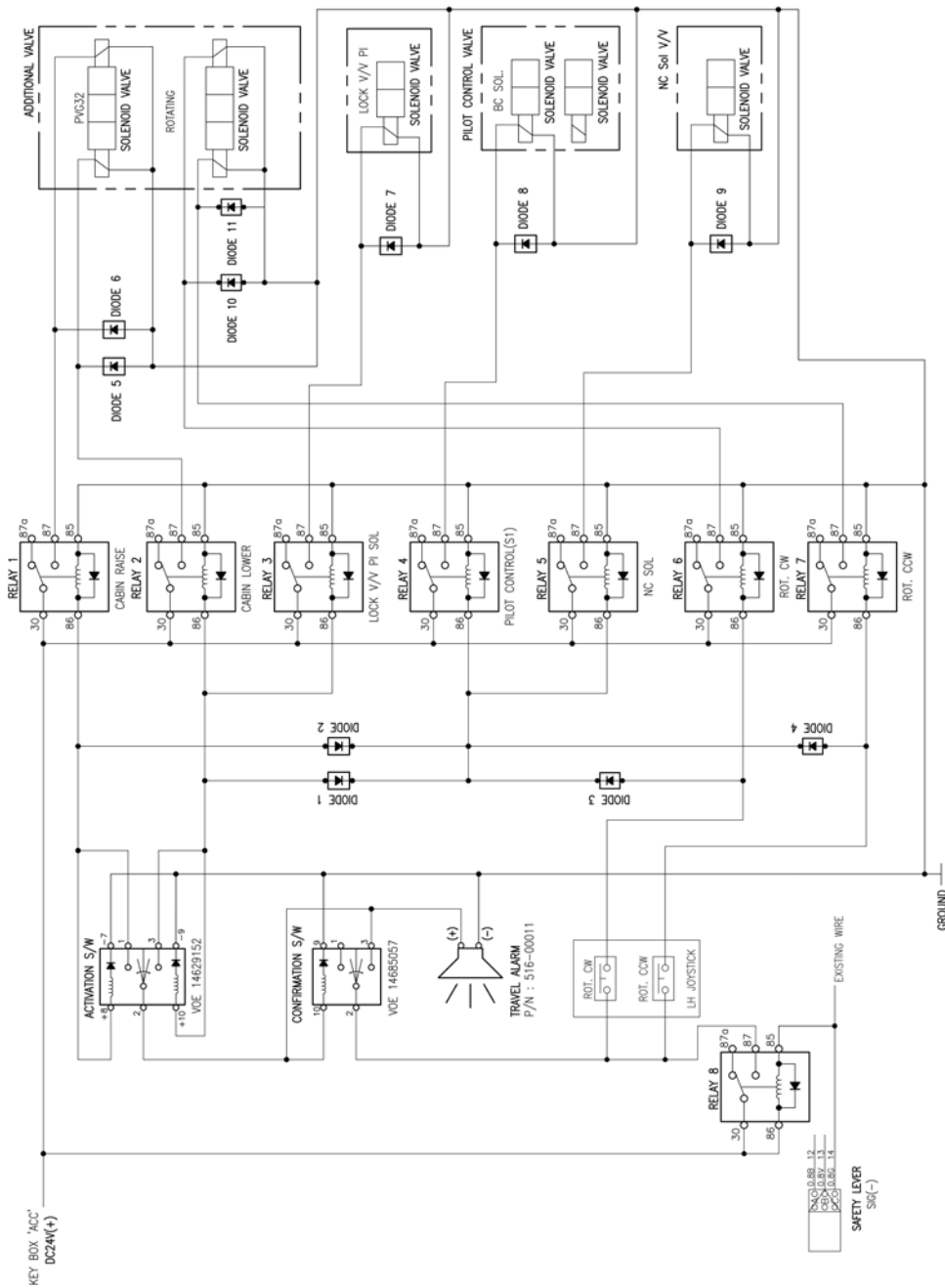
4.(#) indicates load limited by hydraulic capacity.

3. Circuit Diagram

3-1. Hydraulic Circuit Diagram



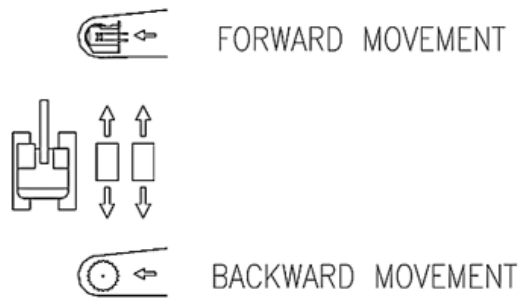
3-3. Electric Circuit Diagram



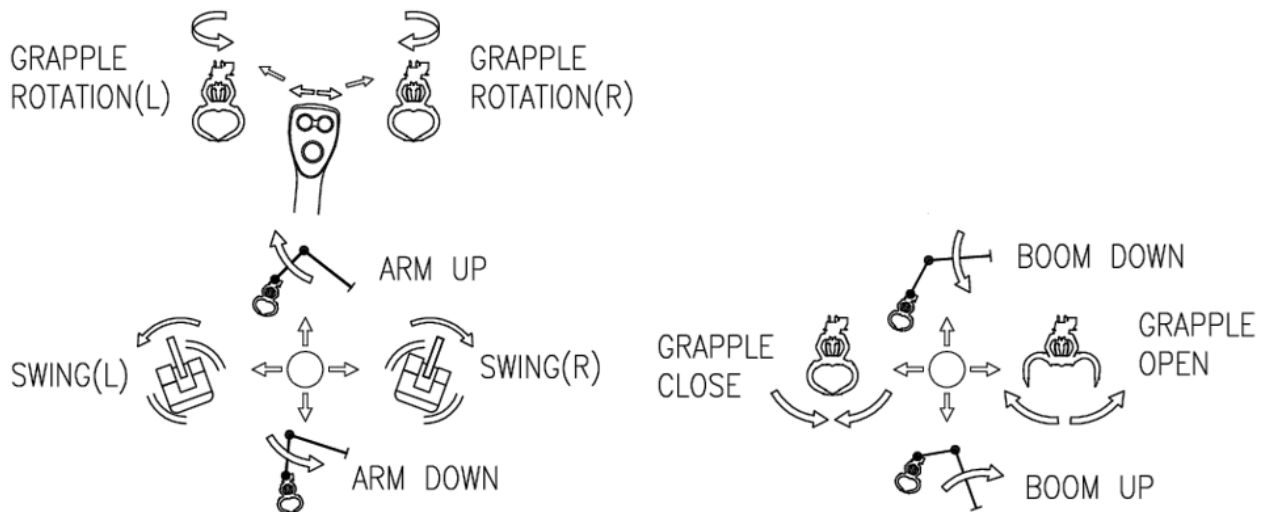
4. Operation

4-1. Control Devices for Operation

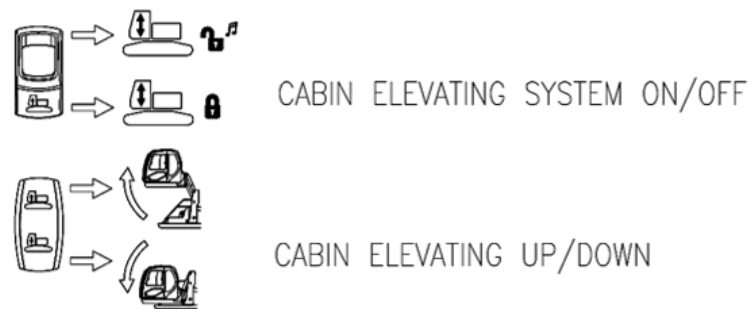
- Pedal



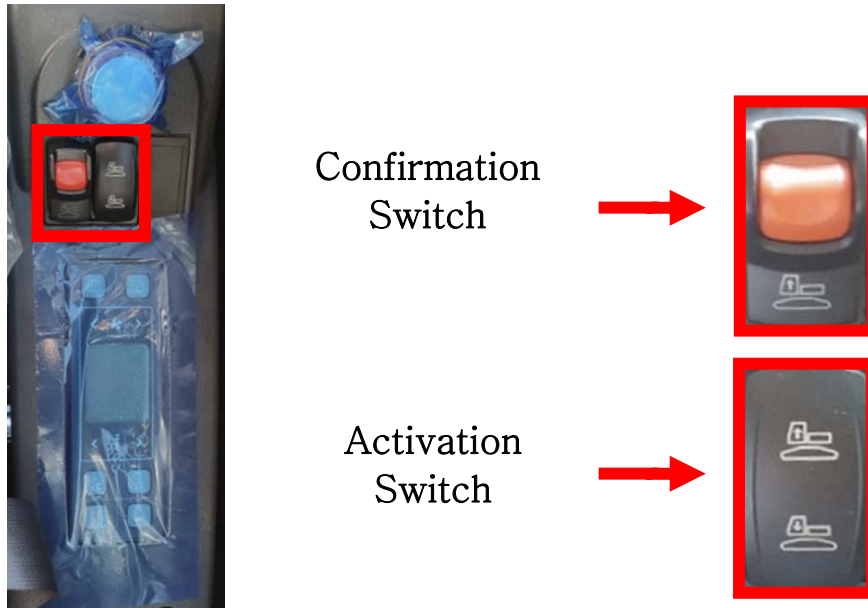
- Joystick



- Buttons



4-2. Cabin Elevating Operation



Elevating cab switch

Lifting the operator station.

1. Close the door and fasten the seat belt.
2. Lock the pilot cutoff lever.
3. Start the engine.
4. Lower the stabilizers and ensure the machine stability.
5. Turn the confirmation switch on (and buzzer starts).
6. Press and hold cabin elevating switch forward.
7. When the station arrives intended height, release the elevating switch.
8. Turn the confirmation switch off (and buzzer stops).

Lowering the operator station

1. Close the door and fasten the seat belt.
2. Lock the pilot cutoff lever.
3. Lower the stabilizers and ensure the machine stability.
4. Turn the confirmation switch on (and buzzer starts)
5. Press and hold cabin elevating switch downward.
6. After lowering completed, release the elevating switch.
7. Turn the confirmation switch off (and buzzer stops).

5. Maintenance

5-1. Greasing

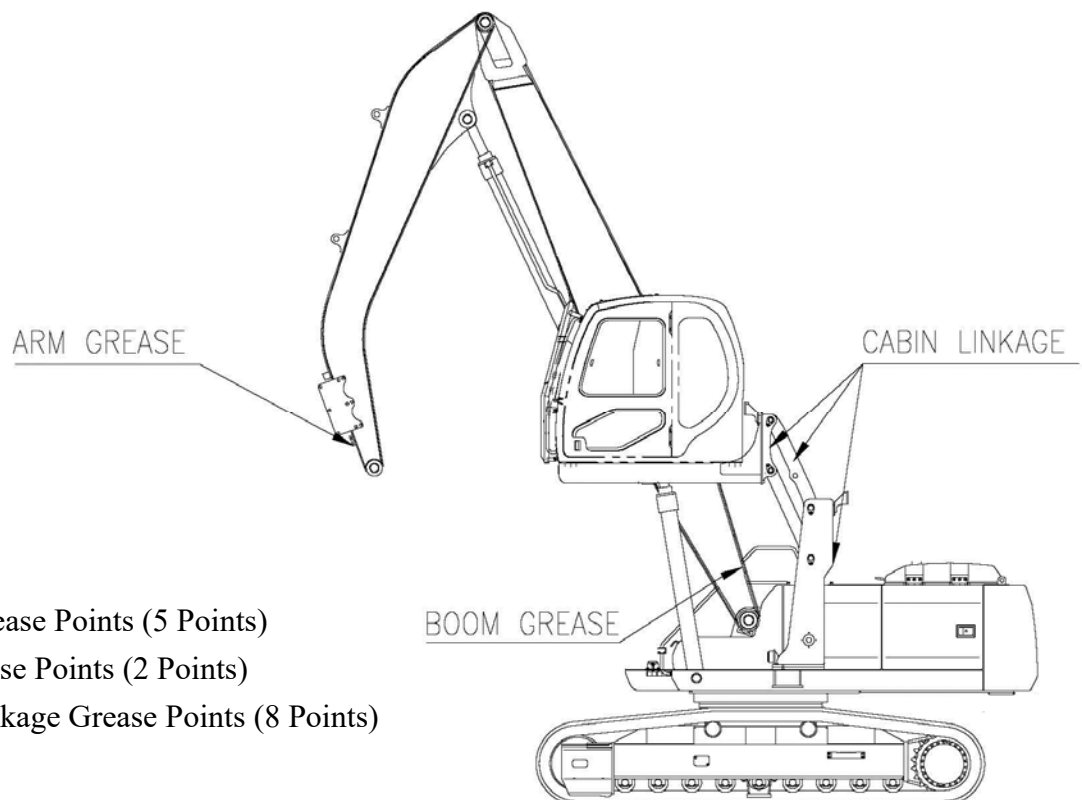
50HOUR/WEEKLY SERVICE

- PERFORM ALL 10 HOUR/DAILY SERVICE CHECKS
- GREASE BOOM, ARM AND FRONT ATTACHMENT PINS

Grease every 10 hours for first 100 hours and every 50 hours thereafter.

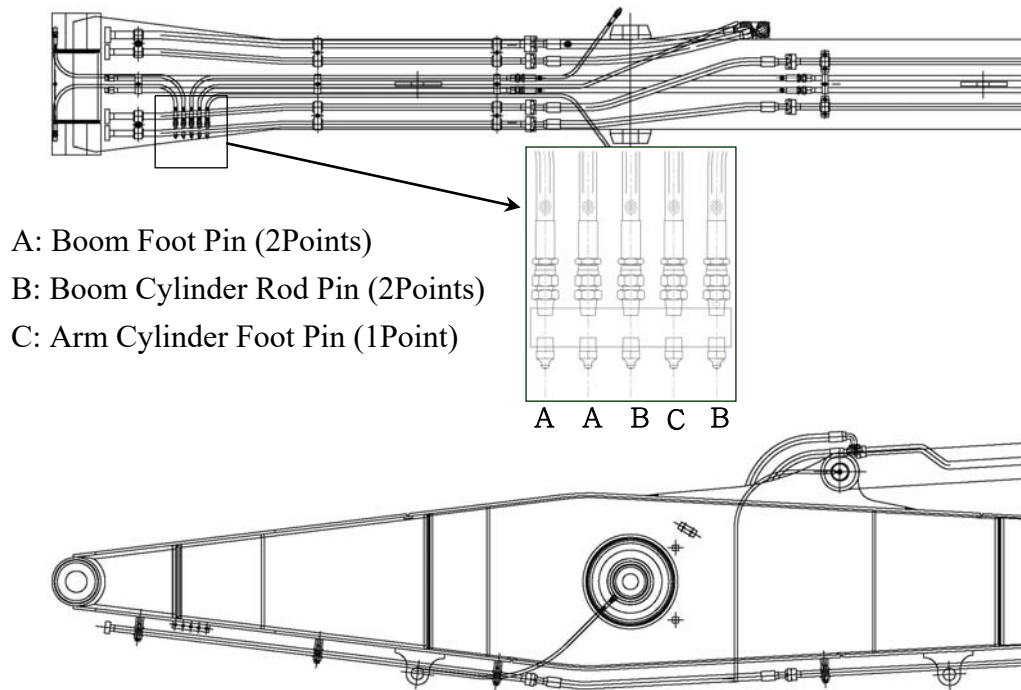
NOTE: If the equipment has been run in water, the front attachment should be greased on a 10 hour/Daily basis.

- Position machine as shown below and lower the front attachment on the ground and stop the engine
- Press the grease fitting and inject grease gun on the marked point
- After injection, clean off the old grease that has been purged

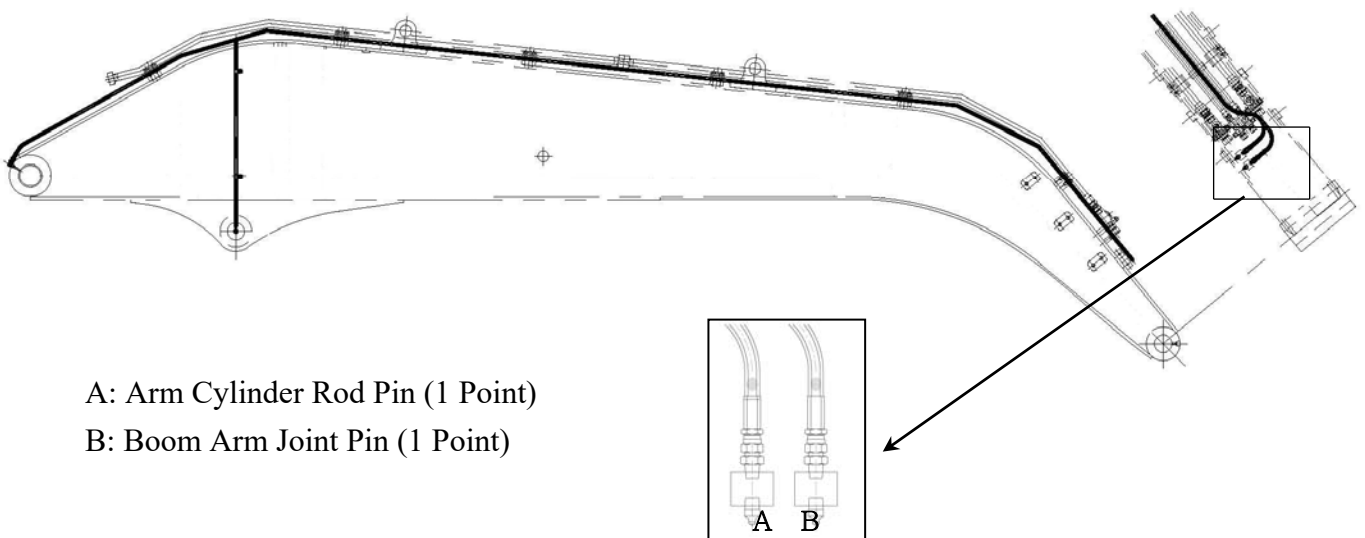


1. Boom Grease Points (5 Points)
2. Arm Grease Points (2 Points)
3. Cabin Linkage Grease Points (8 Points)

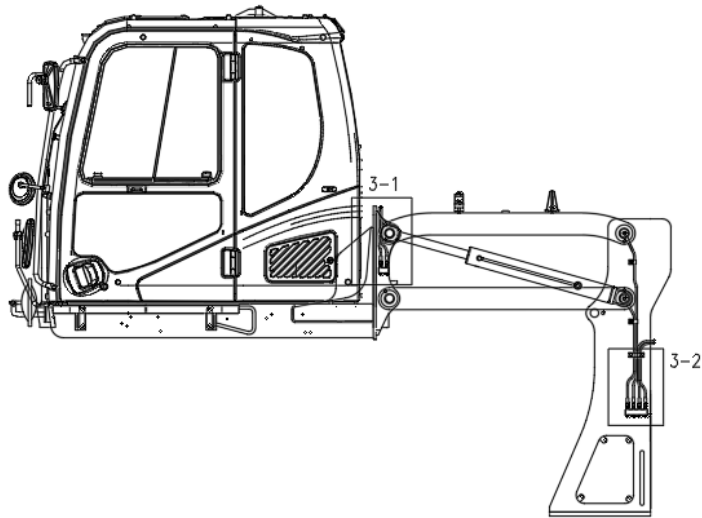
1. Boom Grease Points (5 Points)



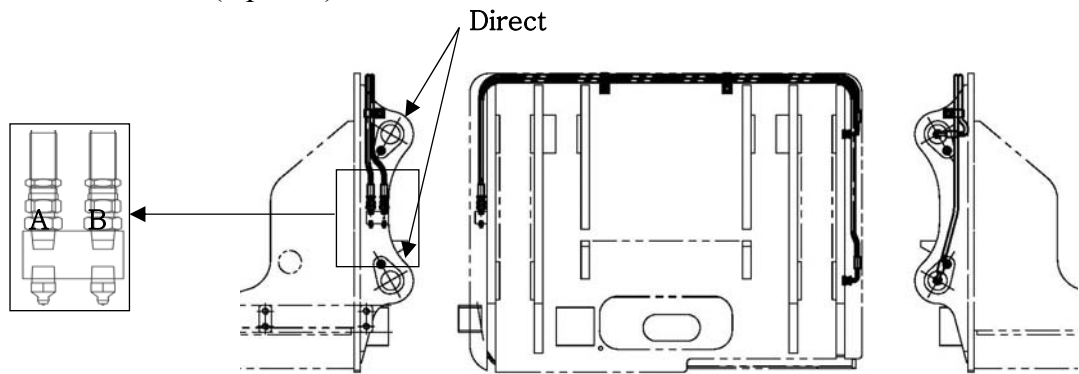
2. Arm Grease Points (2 Points)



3. Cabin Linkage Grease Points (8 Points)



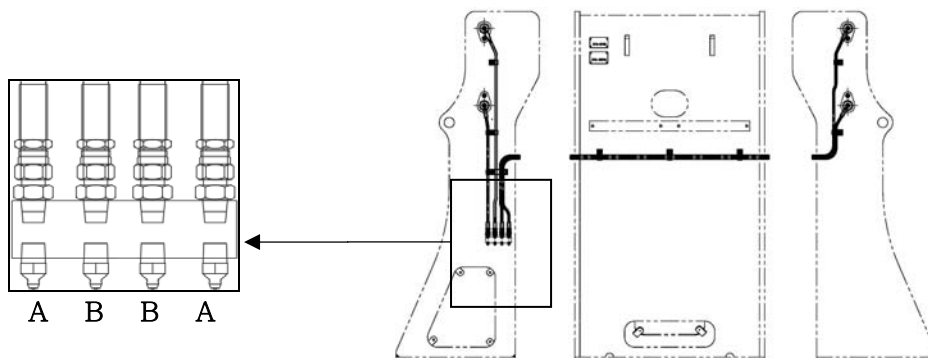
3-1. Bed Frame Grease (4 points)



A : Bed Frame & Cabin Link Joint Pin (1 Point)

B : Bed Frame & Guide Link Joint Pin (1 Point)

3-2. Support Frame Grease (4 points)

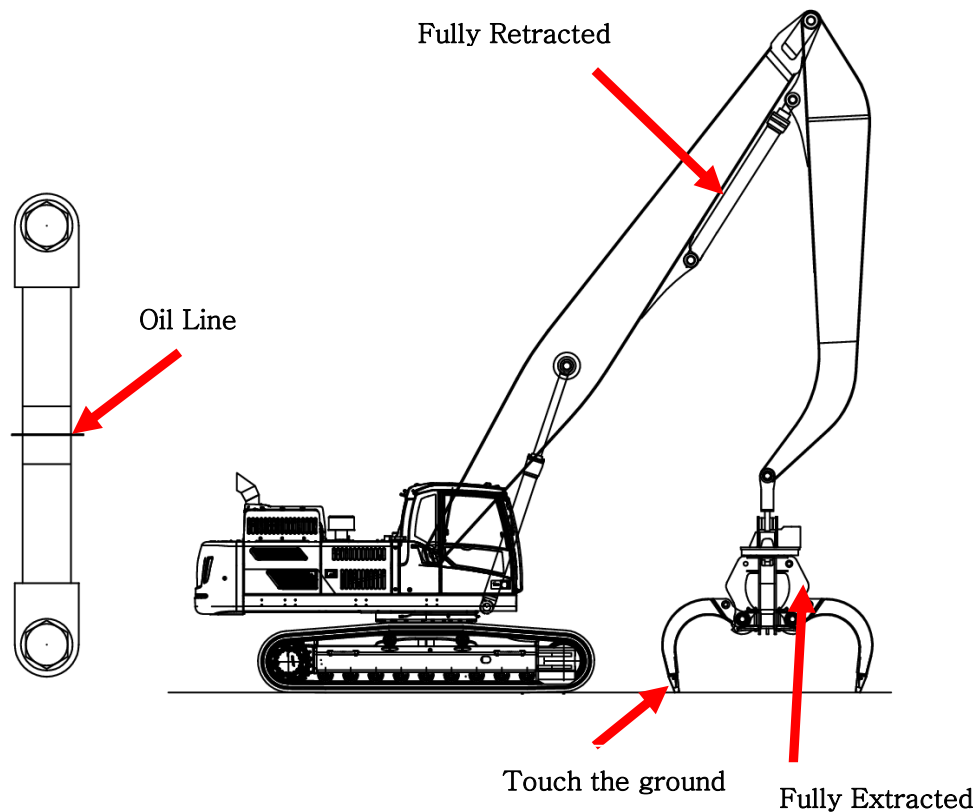


A : Support Frame & Guide Link Joint Pin (2 Points)

B : Support Frame & Cabin Link Joint Pin (2 Points)

5-2. Hydraulic Oil Level Check

1) Posture for hydraulic system oil level check



The hydraulic tank is on the right side of the machine.

1. Park the machine on a hard, level surface.
Lower the hydraulic shear to the plank with stick in the vertical position, as shown above.
Make sure that the machine is stabilized as the above position.
Stop the engine.
2. Open the access door on the right side of the machine in order to access the sight gauge

6. Troubleshooting

Trouble	Probable Cause
Poor hydraulic system performance	● Hydraulic oil not at operating temperature.
	● Engine speed too low.
	● Reservoir low on oil
	● Restrictions in lines
	● Cooling circuit, pump control system and/or pilot control circuit defective.
	● Internal leakage (control blocks, valves or power units.)
	● Pressure lines twisted or kinked
	● Spool not in full stroke.
	● Relief valve defective, or out of adjustment.
	● Worn cylinders.
	● Defective hydraulic pump.
Jerky motion of power cylinders	● Piston rod bent
	● Piston sticking
	● Inside diameter of cylinder tube partially increased or scored
	● Air in control circuit
	● Oil too cold
	● Valve spool sticking, centering springs defective
	● Pump and/or engine control system defective
	● Valve of power circuit defective
Noisy operation	● Incorrect lubricant or oil level too low
	● Bearings scored or damaged.
	● Sun gear teeth excessively worn or damaged
	● Bearings of planetary pinions worn

* In the event of equipment failure stop all work, move the equipment to a safe place, and contact the Hyundai Construction Equipment or Hyundai dealer.

Parts List

R480LC-9S MH

(SMH50-55-SG & SCE25)

CONTENTS

B. Electric System

HYDRAULIC PARTS INSTALLATION	-----	B010
WIRE HARNESS ASSEMBLY	-----	B010a

C. Hydraulic System

BOOM PIPING	-----	C040
BOOM GREASE PIPING	-----	C040a
ARM PIPING	-----	C060
ARM LOCK VALVE PIPING	-----	C060a
ARM GREASE PIPING	-----	C060b
GREASE PIPING (ELEVATED CABIN)	-----	C170

D. Hydraulic Component

ARM CYLINDER	-----	D080
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G. Structure System

CABIN ELEVATING ASSEMBLY	-----	G010
CABIN ELEVATING CYLINDER SEAL KIT	-----	G010a
CATWALK	-----	G060

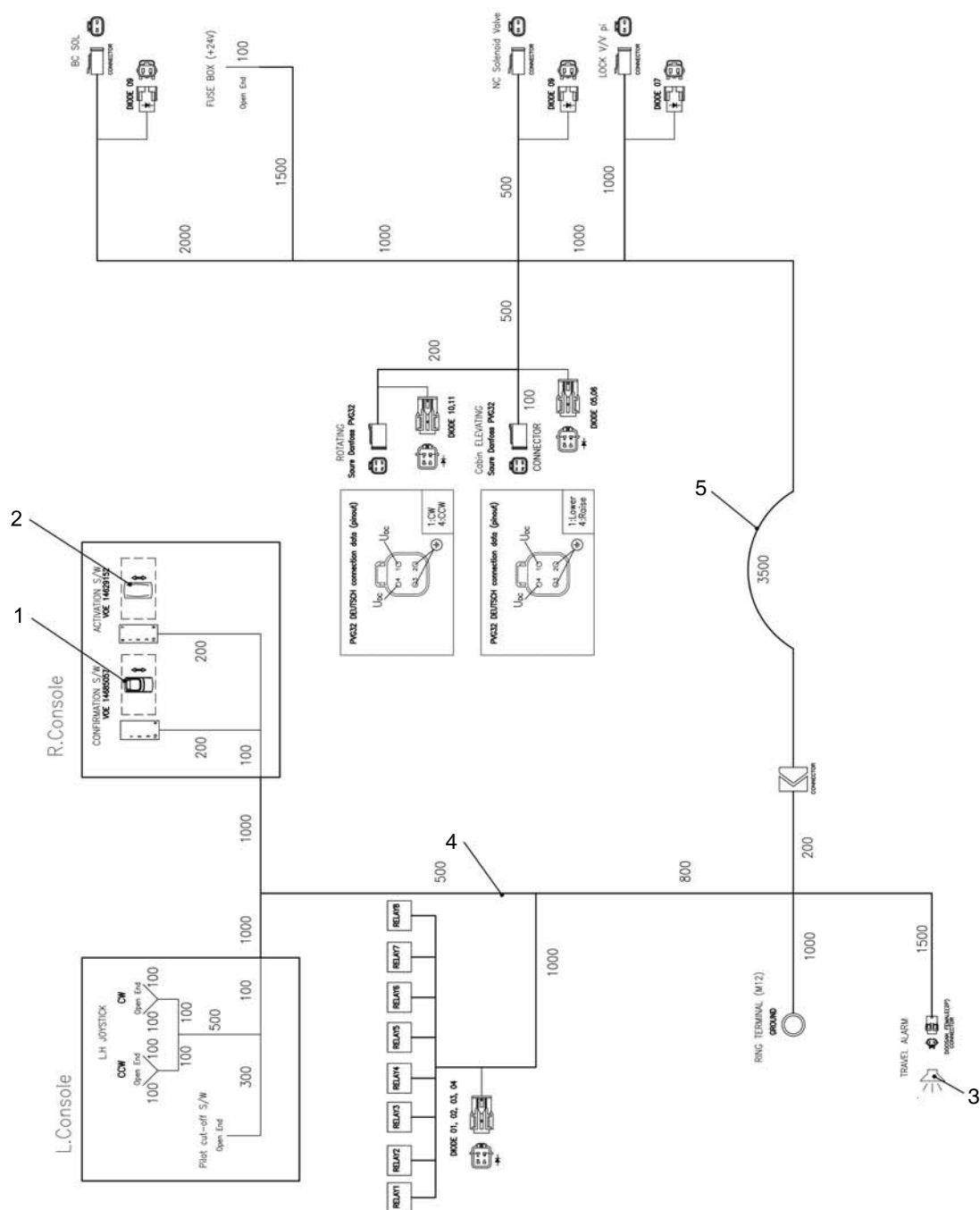
H. Attachment System

BOOM ASSEMBLY	-----	H010
ARM ASSEMBLY	-----	H020

HYDRAULIC PARTS INSTALLATION

R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
1	XKDA-01528	VALVE-CONTROL	1			
2	XKDA-00956	VALVE-SOLENOID	1			
3	XKDA-00957	VALVE-CONTROL	1			
4	XKDA-01221	VALVE-EMERGENCY 1	2			
5	XKDA-00958	VALVE-SHUTTLE	1			
6	XKDA-01529	VALVE-LOCK LH	1			
7	XKDA-01530	VALVE-LOCK RH	1			
8	XKDA-01531	BLOCK-SANDWICH	1			

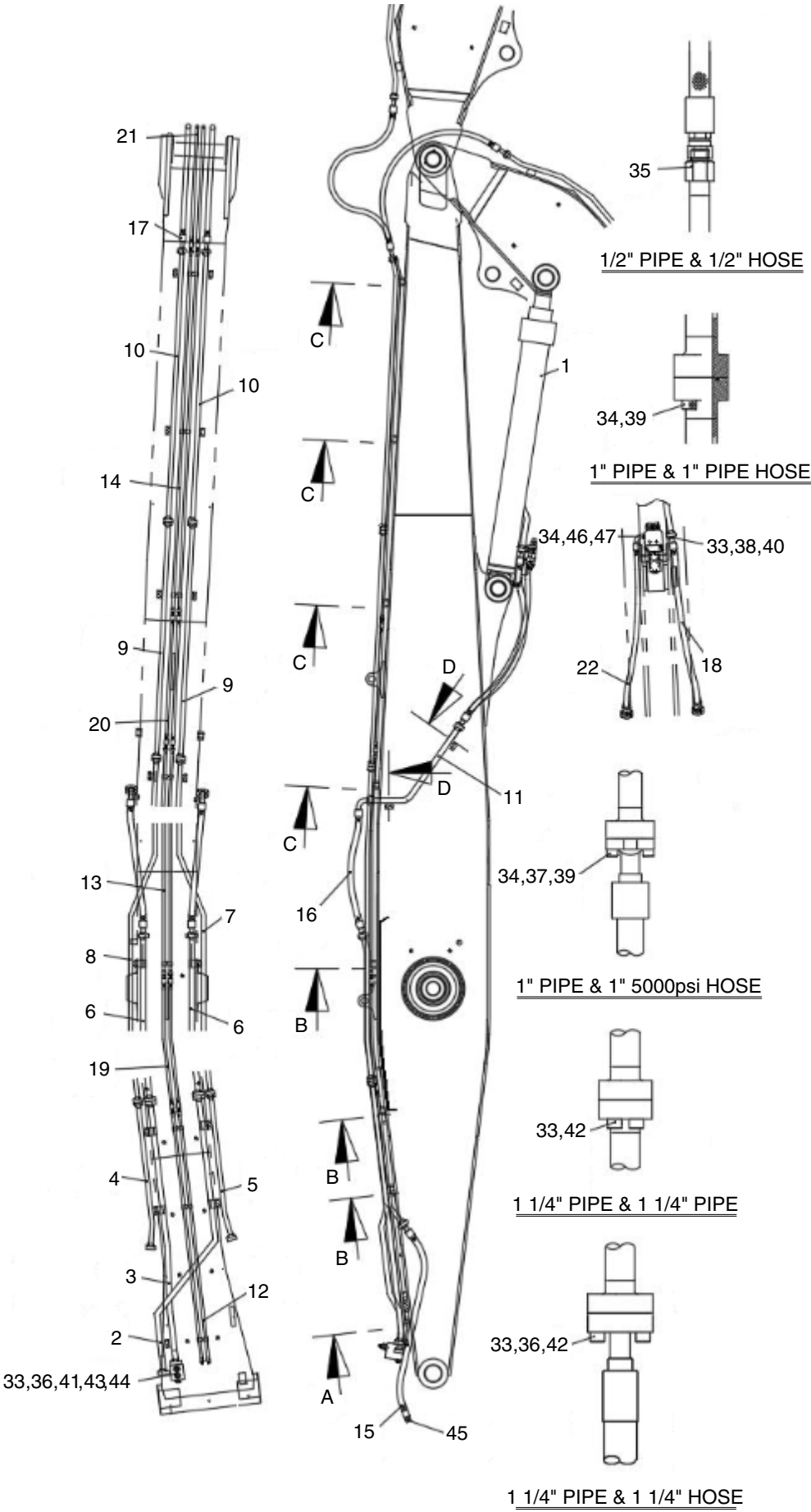


WIRE HARNESS ASSEMBLY

R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
1	XKDA-00945	SWITCH	1			
2	XKDA-01197	SWITCH-ACTIVATION	1			
3	XKDA-01198	ALARM-TRAVEL	1			
4	XKDA-01532	HARNESS-INSIDE CABIN	1			
5	XKDA-01533	HARNESS- OUTSIDE CABIN	1			

BOOM PIPING (1/2)



BOOM PIPING

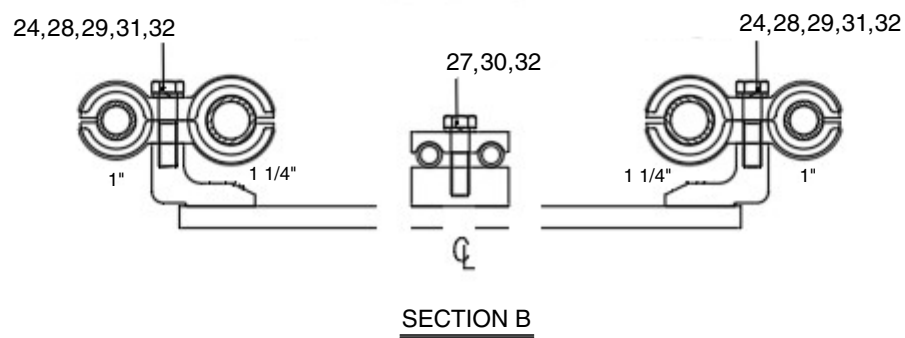
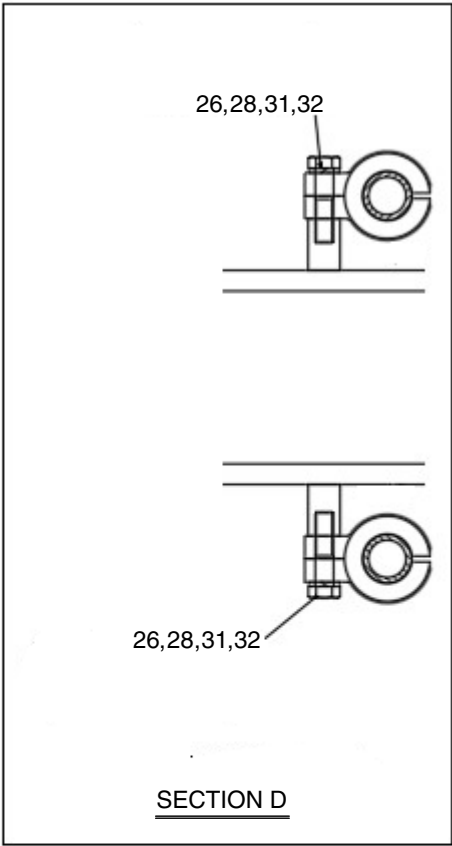
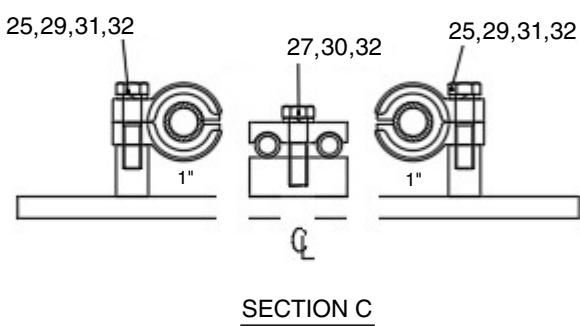
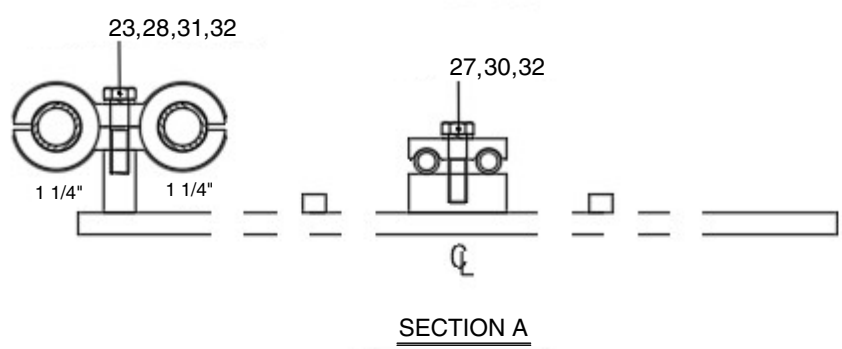
R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
1	XKDA- 01448	CYLINDER -ARM	1			
2	XKDA- 01449	PIPE	1			
3	XKDA- 01450	PIPE	1			
4	XKDA- 01451	PIPE	1			
5	XKDA- 01452	PIPE	1			
6	XKDA- 01453	PIPE	2			
7	XKDA- 01454	PIPE	1			
8	XKDA- 01455	PIPE	1			
9	XKDA- 01456	PIPE	2			
10	XKDA- 01457	PIPE	2			
11	XKDA- 01458	PIPE	2			
12	XKDA- 01459	PIPE	2			
13	XKDA- 01460	PIPE	2			
14	XKDA- 01461	PIPE	2			
15	XKDA- 01462	HOSE	2			L=1700
16	XKDA- 01463	HOSE	2			L=1130
17	XKDA- 01464	HOSE	2			L=1850
18	XKDA- 01465	HOSE	1			L=1650
19	XKDA- 01466	HOSE	2			L=980
20	XKDA- 01467	HOSE	2			L=1130
21	XKDA- 01468	HOSE	2			L=1880
22	XKDA- 01469	HOSE	1			L=1620
23	XKDA- 00779	CLAMP	2			
24	XKDA- 00780	CLAMP	12			
25	XKDA- 00781	CLAMP	16			
26	XKDA- 00782	CLAMP	8			
27	XKDA- 00035	CLAMP-PIPE	8			
28	XKDA- 00208	PAD- RUBBER	12			
29	XKDA- 00328	PAD- RUBBER	14			
30	XKDA- 00209	BOLT-HEX	8			
31	XKDA- 00783	BOLT-HEX	38			
32	XKDA- 00048	WASHER -SPRING	46			
33	XKDA- 00648	O - RING	13			
34	XKDA- 00649	O - RING	9			
35	XKDA- 00336	O - RING	12			
36	XKDA- 00789	FLANGE	20			6000psi
37	XKDA- 00790	FLANGE	4			5000psi
38	P174- 200106	FLANGE-SPLIT	2			
39	XKDA- 00053	BOLT-SOCKET	32			
40	XKDA- 00794	BOLT-SOCKET	4			

BOOM PIPING

R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
41	XKDA-01470	BOLT-SOCKET	4			
42	XKDA-00071	BOLT-SOCKET	44			
43	XKDA-01471	BOLT-SOCKET	4			
44	XKDA-01472	VALVE-CONTROL	1			
45	XKDA-01473	O-RING	2			
46	XKDA-00650	FLANGE	2			6000psi
47	XKDA-00055	BOLT-SOCKET	4			



BOOM PIPING

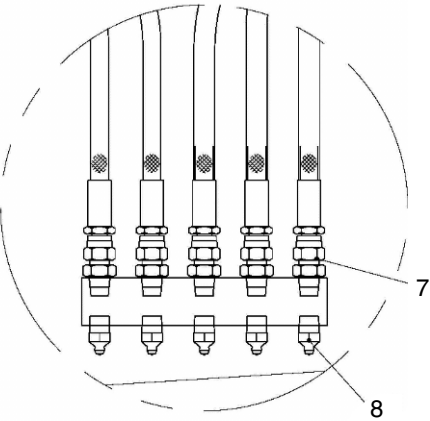
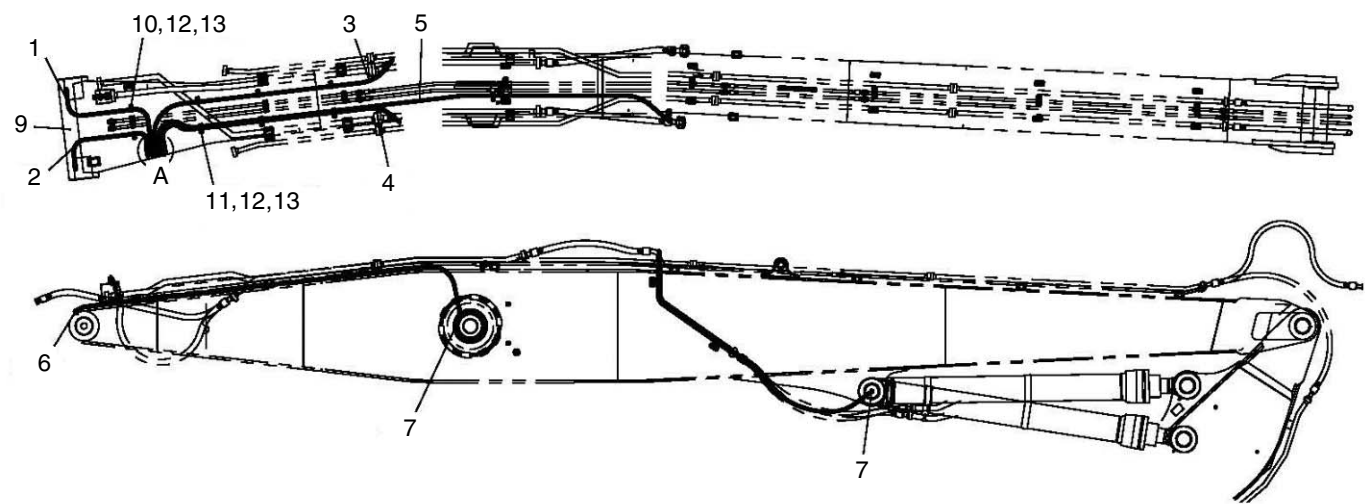
R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
1	XKDA- 01448	CYLINDER -ARM	1			
2	XKDA- 01449	PIPE	1			
3	XKDA- 01450	PIPE	1			
4	XKDA- 01451	PIPE	1			
5	XKDA- 01452	PIPE	1			
6	XKDA- 01453	PIPE	2			
7	XKDA- 01454	PIPE	1			
8	XKDA- 01455	PIPE	1			
9	XKDA- 01456	PIPE	2			
10	XKDA- 01457	PIPE	2			
11	XKDA- 01458	PIPE	2			
12	XKDA- 01459	PIPE	2			
13	XKDA- 01460	PIPE	2			
14	XKDA- 01461	PIPE	2			
15	XKDA- 01462	HOSE	2			L=1700
16	XKDA- 01463	HOSE	2			L=1130
17	XKDA- 01464	HOSE	2			L=1850
18	XKDA- 01465	HOSE	1			L=1650
19	XKDA- 01466	HOSE	2			L=980
20	XKDA- 01467	HOSE	2			L=1130
21	XKDA- 01468	HOSE	2			L=1880
22	XKDA- 01469	HOSE	1			L=1620
23	XKDA- 00779	CLAMP	2			
24	XKDA- 00780	CLAMP	12			
25	XKDA- 00781	CLAMP	16			
26	XKDA- 00782	CLAMP	8			
27	XKDA- 00035	CLAMP-PIPE	8			
28	XKDA- 00208	PAD- RUBBER	12			
29	XKDA- 00328	PAD- RUBBER	14			
30	XKDA- 00209	BOLT-HEX	8			
31	XKDA- 00783	BOLT-HEX	38			
32	XKDA- 00048	WASHER -SPRING	46			
33	XKDA- 00648	O - RING	13			
34	XKDA- 00649	O - RING	9			
35	XKDA- 00336	O - RING	12			
36	XKDA- 00789	FLANGE	20			6000psi
37	XKDA- 00790	FLANGE	4			5000psi
38	P174- 200106	FLANGE-SPLIT	2			
39	XKDA- 00053	BOLT-SOCKET	32			
40	XKDA- 00794	BOLT-SOCKET	4			

BOOM PIPING

R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
41	XKDA-01470	BOLT-SOCKET	4			
42	XKDA-00071	BOLT-SOCKET	44			
43	XKDA-01471	BOLT-SOCKET	4			
44	XKDA-01472	VALVE-CONTROL	1			
45	XKDA-01473	O-RING	2			
46	XKDA-00650	FLANGE	2			6000psi
47	XKDA-00055	BOLT-SOCKET	4			

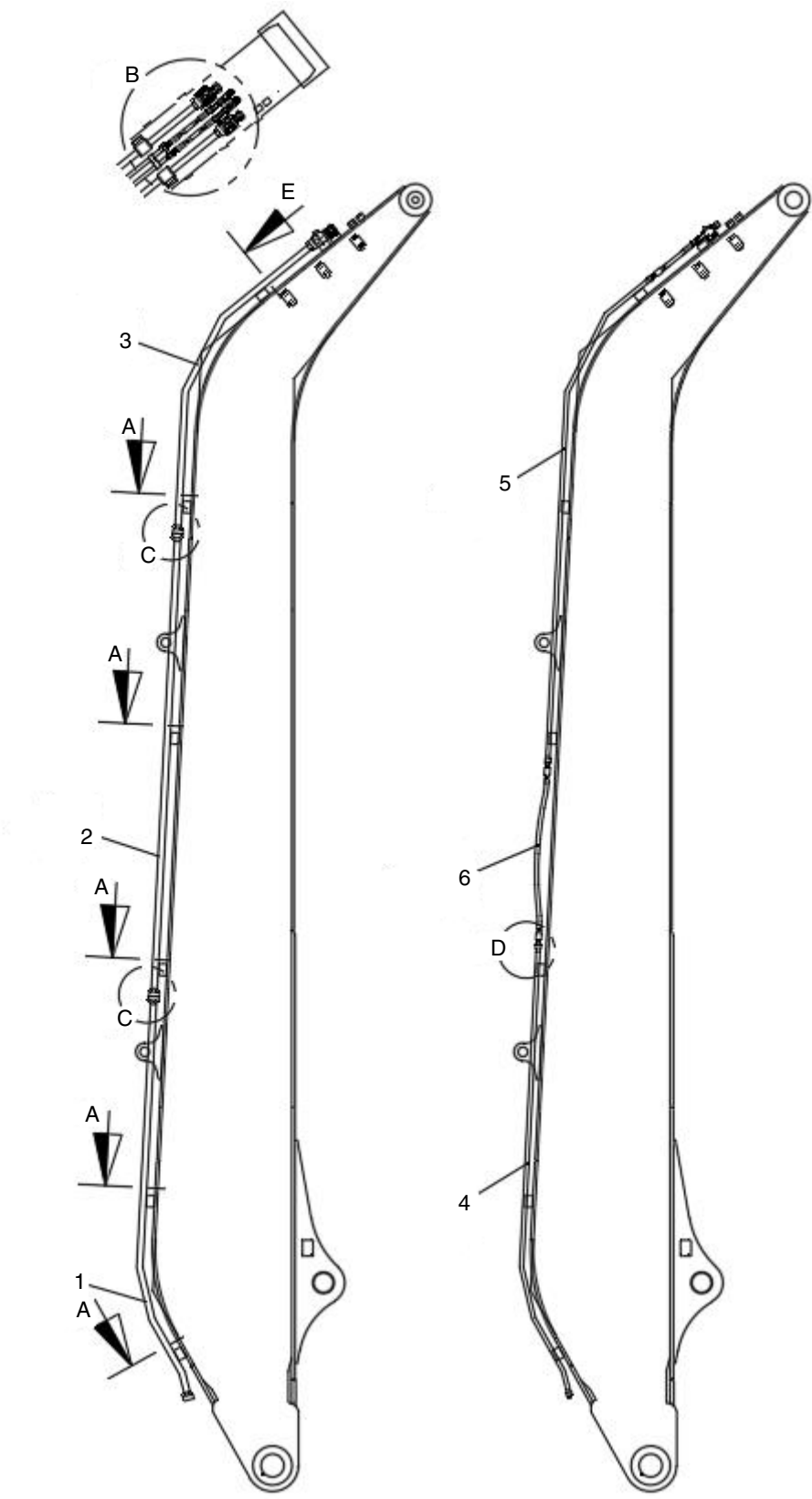


DETAIL A

BOOM GREASE PIPING

R480LC-9S MH

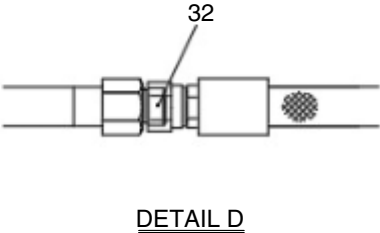
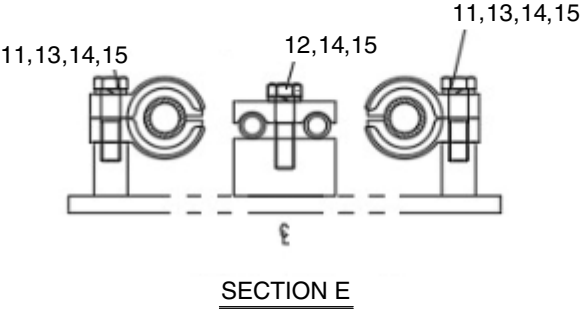
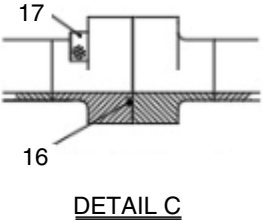
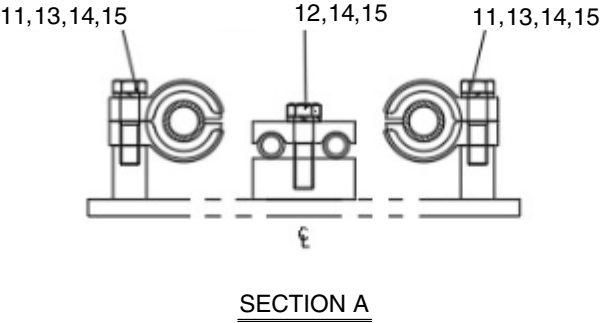
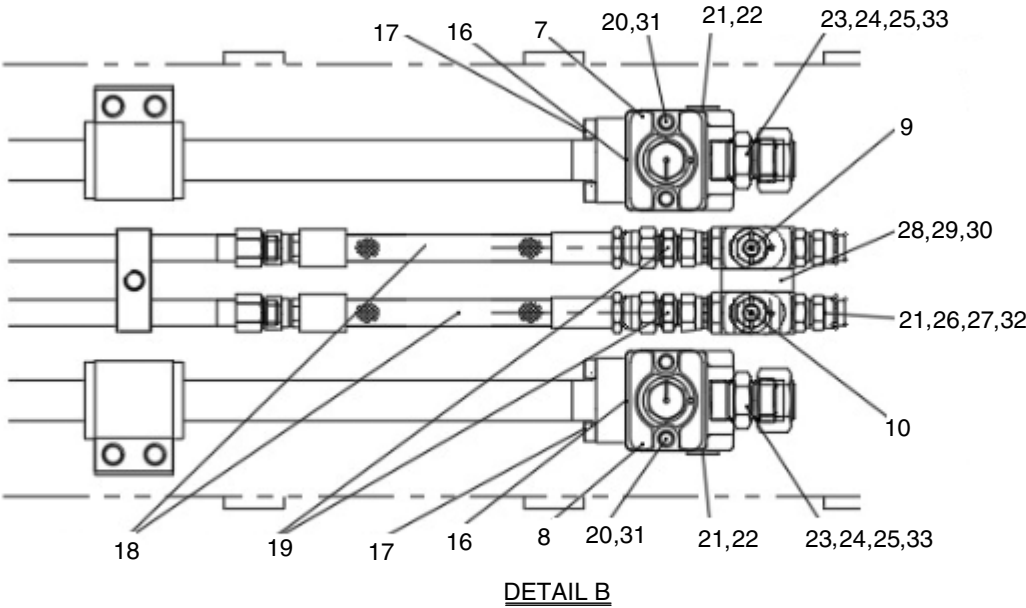
ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
1	XKDA-01496	HOSE	1			L=1100
2	XKDA-01497	HOSE	1			L=900
3	XKDA-01498	HOSE	1			L=3200
4	XKDA-01499	HOSE	1			L=3100
5	XKDA-01500	HOSE	1			L=6900
6	XKDA-00159	ELBOW	2			
7	XKDA-00160	ADAPTER	8			
8	XKDA-00124	FITTING - GREASE	5			
9	XKDA-00161	SCREW-SET	1			
10	XKDA-00411	CLIP	8			
11	XKDA-00412	CLIP	3			
12	XKDA-01501	BOLT	11			
13	XKDA-00171	WASHER-SPRING	11			



ARM PIPING

R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
1	XKDA-01478	PIPE	2			
2	XKDA-01479	PIPE	2			
3	XKDA-01480	PIPE	2			
4	XKDA-01481	PIPE	2			
5	XKDA-01482	PIPE	2			
6	XKDA-01483	HOSE	2			L=1030
7	XKDA-00330	VALVE-STOP IH	1			
8	XKDA-00331	VALVE-STOP RH	1			
9	XKDA-01484	VALVE-STOP IH	1			
10	XKDA-01485	VALVE-STOP RH	1			
11	XKDA-00781	CLAMP	24			
12	XKDA-00035	CLAMP-PIPE	6			
13	XKDA-00328	PAD-RUBBER	12			
14	XKDA-00783	BOLT-HEX	30			
15	XKDA-00048	WASHER-SPRING	30			
16	XKDA-00649	O-RING	6			
17	XKDA-00053	BOLT-SOCKET	24			
18	XKDA-01486	HOSE	2			L=330
19	XKDA-01487	ADAPTER	2			
20	XKDA-01475	BOLT-SOCKET	4			
21	XKDA-00066	O-RING	4			
22	XKDA-01049	PLUG	2			
23	XKDA-00061	O-RING	2			
24	XKDA-01488	ADAPTER	2			
25	XKDA-00063	CAP	2			
26	XKDA-00388	ADAPTER	2			
27	XKDA-00392	CAP	2			
28	XKDA-00046	BOLT	2			
29	XKDA-00050	WASHER-SPRING	4			
30	XKDA-01489	NUT-HEX	4			
31	XKDA-00049	WASHER-SPRING	4			
32	XKDA-00336	O-RING	10			
33	XKDA-00339	O-RING	2			

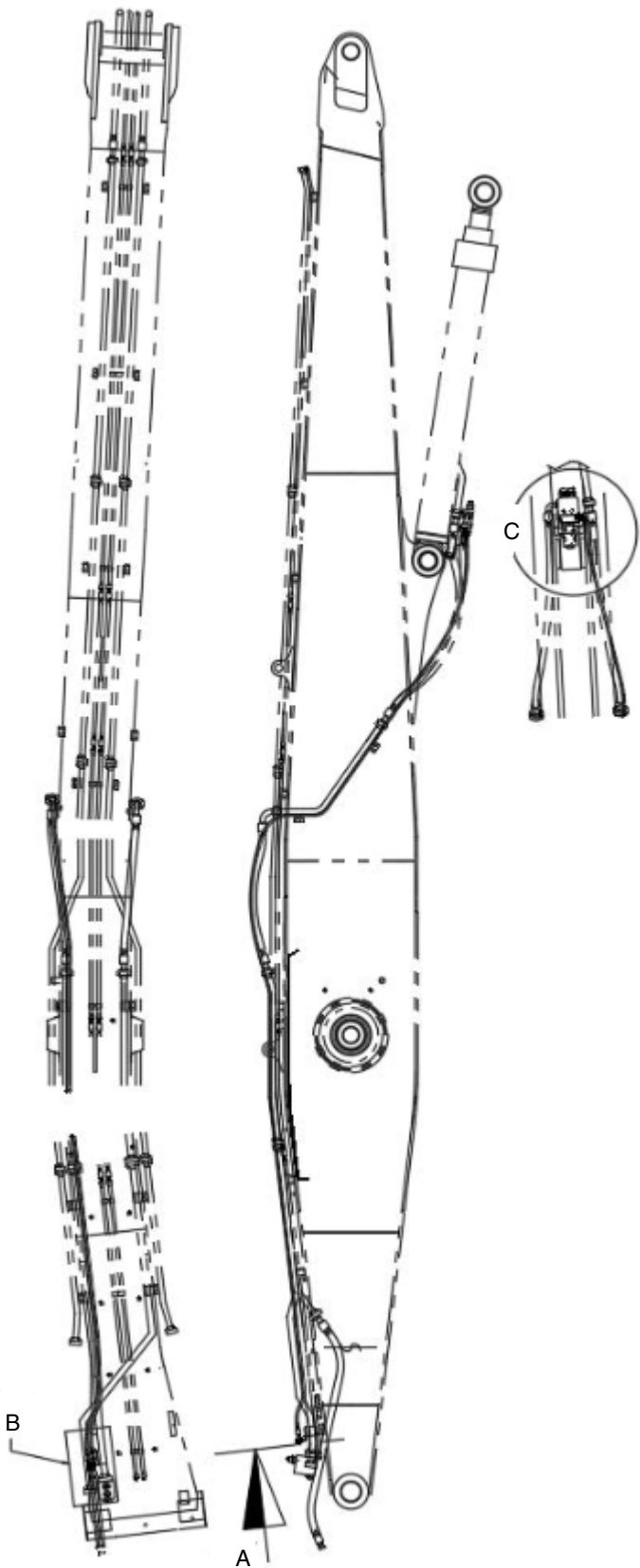


ARM PIPING

R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
1	XKDA-01478	PIPE	2			
2	XKDA-01479	PIPE	2			
3	XKDA-01480	PIPE	2			
4	XKDA-01481	PIPE	2			
5	XKDA-01482	PIPE	2			
6	XKDA-01483	HOSE	2			L=1030
7	XKDA-00330	VALVE-STOP IH	1			
8	XKDA-00331	VALVE-STOP RH	1			
9	XKDA-01484	VALVE-STOP IH	1			
10	XKDA-01485	VALVE-STOP RH	1			
11	XKDA-00781	CLAMP	24			
12	XKDA-00035	CLAMP-PIPE	6			
13	XKDA-00328	PAD-RUBBER	12			
14	XKDA-00783	BOLT-HEX	30			
15	XKDA-00048	WASHER-SPRING	30			
16	XKDA-00649	O-RING	6			
17	XKDA-00053	BOLT-SOCKET	24			
18	XKDA-01486	HOSE	2			L=330
19	XKDA-01487	ADAPTER	2			
20	XKDA-01475	BOLT-SOCKET	4			
21	XKDA-00066	O-RING	4			
22	XKDA-01049	PLUG	2			
23	XKDA-00061	O-RING	2			
24	XKDA-01488	ADAPTER	2			
25	XKDA-00063	CAP	2			
26	XKDA-00388	ADAPTER	2			
27	XKDA-00392	CAP	2			
28	XKDA-00046	BOLT	2			
29	XKDA-00050	WASHER-SPRING	4			
30	XKDA-01489	NUT-HEX	4			
31	XKDA-00049	WASHER-SPRING	4			
32	XKDA-00336	O-RING	10			
33	XKDA-00339	O-RING	2			

ARM LOCK VALVE PIPING (1/2)

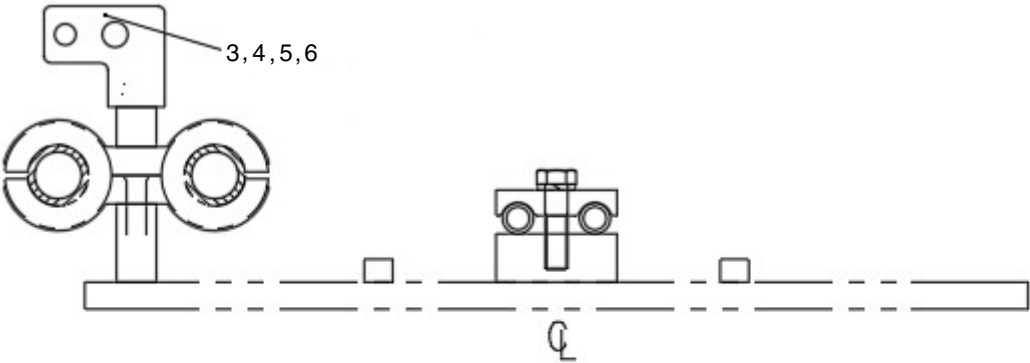


ARM LOCK VALVE PIPING

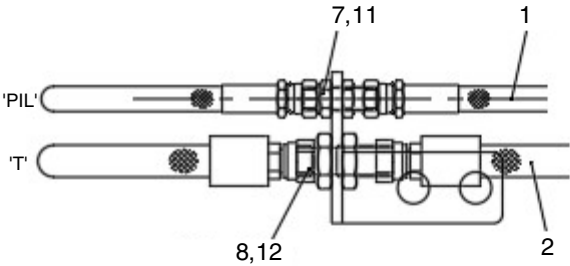
R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
1	XKDA-01491	HOSE	1			L=7200
2	XKDA-01492	HOSE	1			L=7200
3	XKDA-00850	SPACER	1			
4	XKDA-01493	BRACKET	1			
5	XKDA-00048	WASHER-SPRING	2			
6	XKDA-00044	BOLT-DACRO	2			
7	XKDA-01494	ADAPTER	1			
8	XKDA-00238	ADAPTER-BULK	1			
9	XKDA-01061	ADAPTER	2			
10	XKDA-00057	O-RING	2			
11	XKDA-01057	O-RING	4			
12	XKDA-00335	O-RING	2			

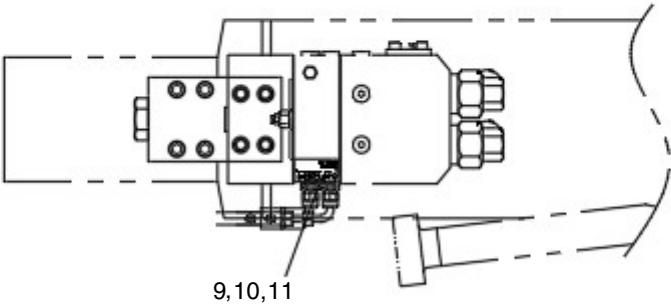
ARM LOCK VALVE PIPING (2/2)



SECTION A



DETAIL B



DETAIL C

ARM LOCK VALVE PIPING

R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
1	XKDA-01491	HOSE	1			L=7200
2	XKDA-01492	HOSE	1			L=7200
3	XKDA-00850	SPACER	1			
4	XKDA-01493	BRACKET	1			
5	XKDA-00048	WASHER-SPRING	2			
6	XKDA-00044	BOLT-DACRO	2			
7	XKDA-01494	ADAPTER	1			
8	XKDA-00238	ADAPTER-BULK	1			
9	XKDA-01061	ADAPTER	2			
10	XKDA-00057	O-RING	2			
11	XKDA-01057	O-RING	4			
12	XKDA-00335	O-RING	2			

ARM GREASE PIPING



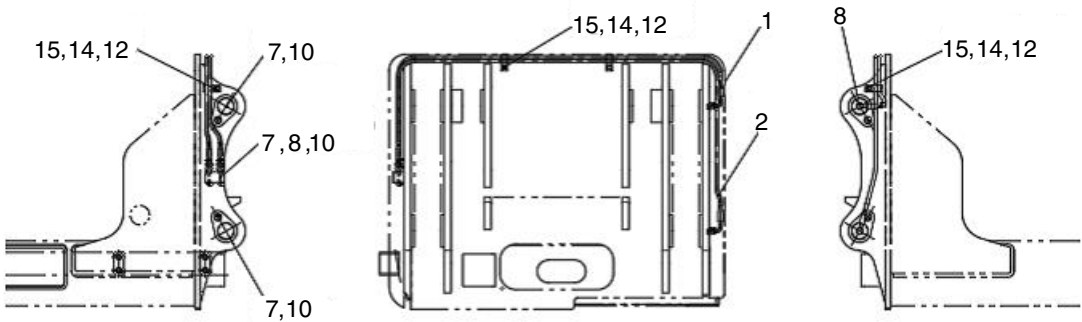
ARM GREASE PIPING

R480LC-9S MH

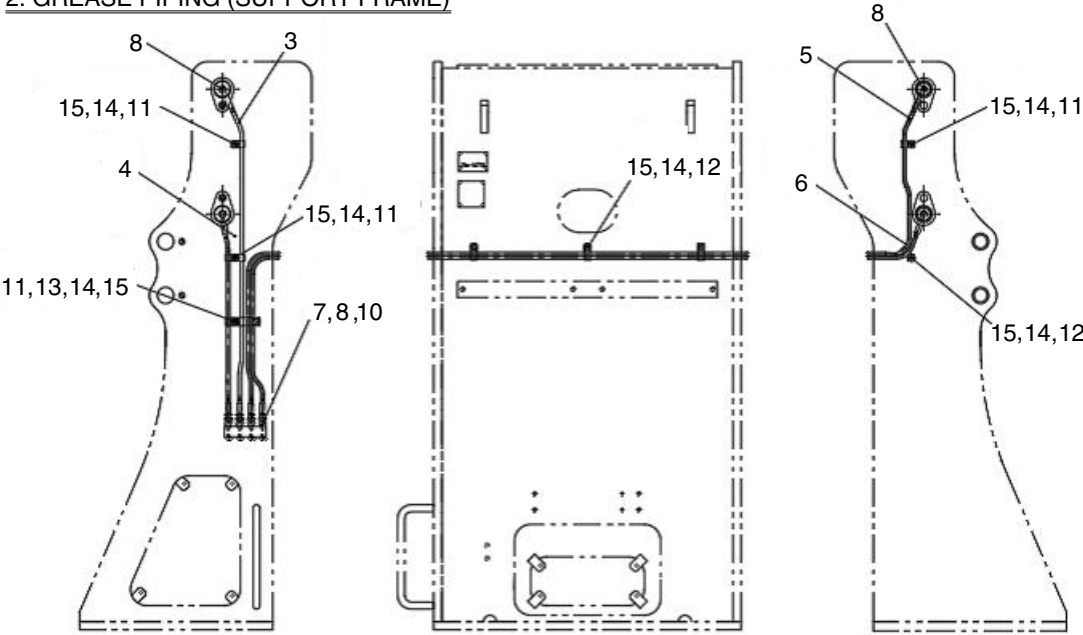
ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
1	XKDA-01503	HOSE	1			L=7900
2	XKDA-01504	HOSE	1			L=7500
3	XKDA-00160	ADAPTER	3			
4	XKDA-00159	ELBOW	1			
5	XKDA-00124	FITTING - GREASE	4			
6	XKDA-00411	CLIP	2			
7	XKDA-01505	BOLT	2			
8	XKDA-00171	WASHER-SPRING	2			

GREASE PIPING (ELEVATED CABIN)

1. GREASE PIPING (BED FRAME)



2. GREASE PIPING (SUPPORT FRAME)



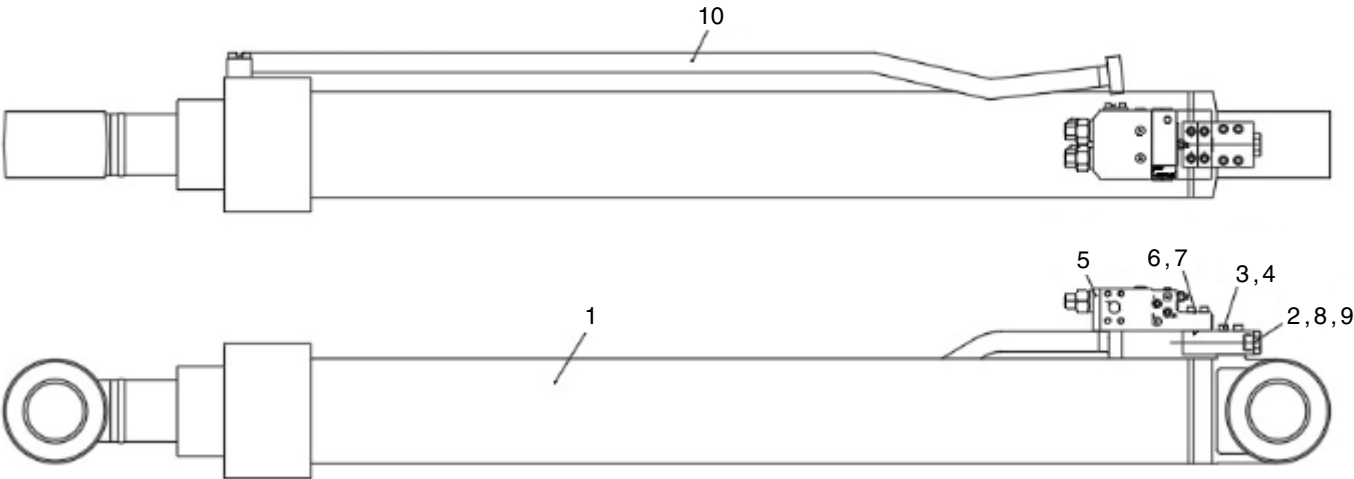
GREASE PIPING (ELEVATED CABIN)

R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
1	XKDA-01129	HOSE- GREASE	1			L=1400L
2	XKDA-01130	HOSE- GREASE	1			L=1800L
3	XKDA-01131	HOSE- GREASE	1			L=1050L
4	XKDA-01132	HOSE- GREASE	1			L=670L
5	XKDA-01067	HOSE	1			L=2180L
6	XKDA-01133	HOSE- GREASE	1			L=1810L
7	XKDA-01073	CAP- GREASE NIPPLE	8			
8	XKDA-01134	ADAPTER	12			
10	XKDA-00124	FITTING - GREASE	8			
11	XKDA-00411	CLIP	5			
12	XKDA-01135	BAND- CLIP	8			
13	XKDA-01136	CLAMP- HOSE	1			
14	XKDA-01137	BOLT- HEX	13			
15	XKDA-01138	WASHER- SPRING	13			

R480LC-9S MH

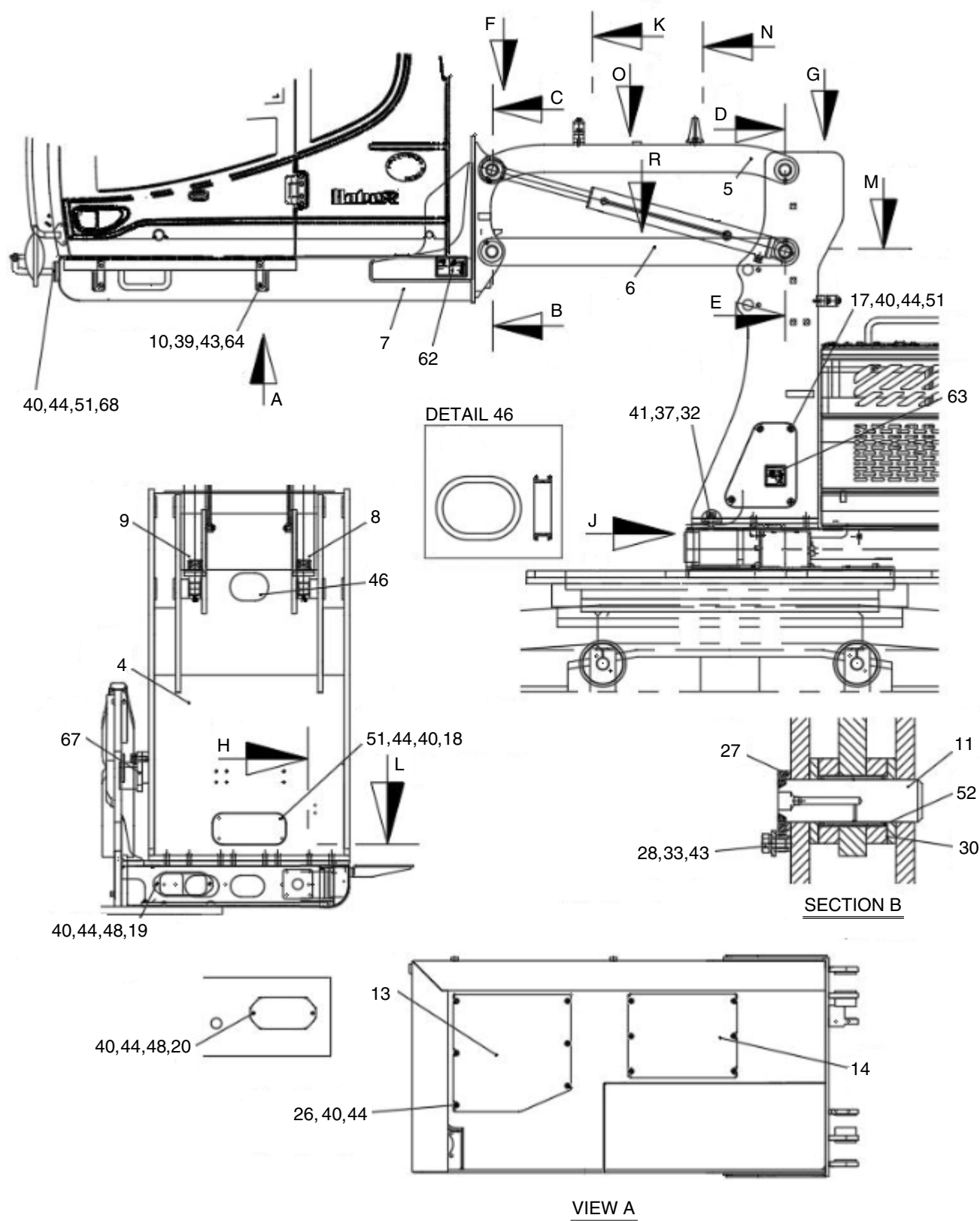
ARM CYLINDER



ARM CYLINDER

R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
1	XKDA-01474	CYLINDER-ARM	1			
2	XKDA-00437	BLOCK	1			
3	XKDA-00648	O - RING	1			
4	XKDA-01475	BOLT-SOCKET	4			
5	31QB-55032GG	VALVE-SAFETY	1			
6	XKDA-00649	O - RING	1			
7	XKDA-01476	BOLT-SOCKET	4			
8	XKDA-00179	PLUG	1			
9	XKDA-00061	O - RING	1			
10	31Y1-35421GG	PIPE ASSY- RD	1			



CABIN ELEVATING ASSEMBLY

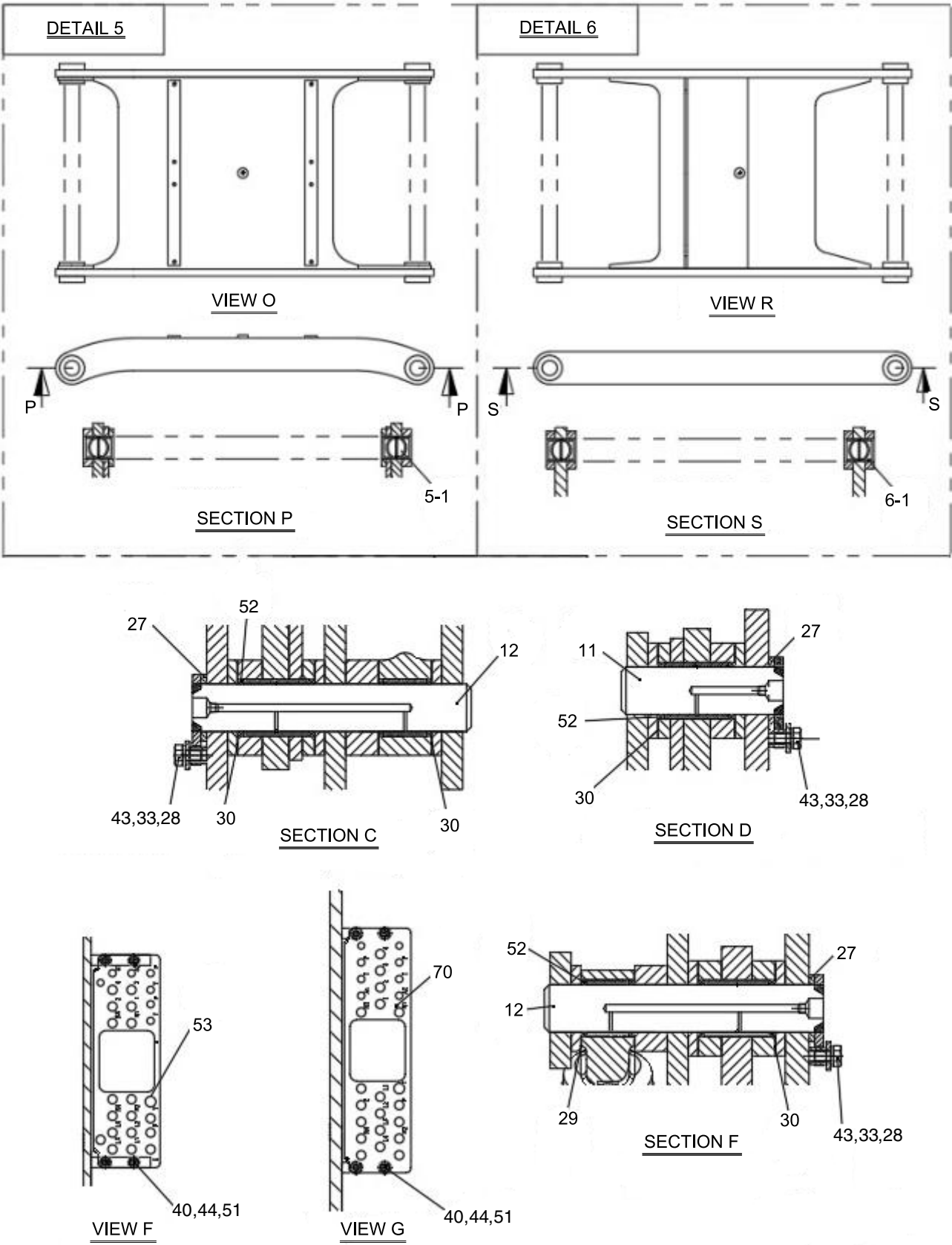
R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
4	XKDA-01507	SUPPORT - FRAME	1			
5	XKDA-01079	LINK - CABIN	1			
5-1	XKDA-01080	. BUSHING	4			
6	XKDA-01081	LINK - GUIDE	1			
6-1	XKDA-01080	. BUSHING	4			
7	XKDA-01508	FRAME - BED	1			
8	XKDA-01202	CYLINDER - CABIN	1			
9	XKDA-01203	CYLINDER - CABIN	1			
10	XKDA-01511	STEP ASSY - SIDE	1			
11	XKDA-01205	PIN - GREASE	6			
12	XKDA-01206	PIN - GREASE	4			
13	XKDA-01512	COVER - UNDER 1	1			
14	XKDA-01513	COVER - UNDER 2	1			
17	XKDA-01209	COVER - SIDE 1	1			
18	XKDA-01210	COVER - FRONT	1			
19	XKDA-01514	COVER - SUPPORT	1			
20	XKDA-01212	COVER - SUPPORT	1			
22	XKDA-01213	BRACKET - PVG	1			
23	XKDA-01214	PIPE - STOPPER	1			
24	XKDA-01215	BRACKET - STOPPER	1			
25	XKDA-01216	STOPPER	1			
26	XKDA-00696	BOLT - HEX	12			
27	XKDA-01217	SPACER - PIN	10			
28	XKDA-01218	WASHER	10			
29	XKDA-01219	SHIM - 1.0	5			
30	XKDA-01220	SHIM - 1.0	20			
32	XKDA-01082	BOLT - HEX	12			
33	XKDA-01083	BOLT - HEX	10			
35	XKDA-00746	BOLT - HEX	6			
36	XKDA-00783	BOLT - HEX	1			
37	XKDA-01084	WASHER - PLAIN	12			
38	XKDA-00699	WASHER - PLAIN	1			
39	XKDA-00692	WASHER - PLAIN	22			
40	XKDA-00697	WASHER - PLAIN	40			
41	XKDA-01085	WASHER - SPRING	12			
42	XKDA-00048	WASHER - SPRING	1			
43	XKDA-00049	WASHER - SPRING	32			
44	XKDA-00050	WASHER - SPRING	40			
45	XKDA-00124	FITTING - GREASE	2			
46	XKDA-01086	GROMMET	1			

CABIN ELEVATING ASSEMBLY

R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
47	XKDA-01087	SPACER-STOPPER	4			
48	XKDA-01088	BOLT-HEX	10			
51	XKDA-00900	BOLT-HEX	18			
52	XKDA-00449	SEAL-DUST	24			
53	XKDA-01515	BRACKET	1			
54	XKDA-01516	BOLT-HEX	4			
55	XKDA-01093	BOLT-HEX	6			
57	XKDA-01517	PLATE ASSY	2			
58	XKDA-01095	PLATE	2			
59	XKDA-01518	PLATE ASSY	2			
60	XKDA-01097	PAD	4			
62	XKDA-01098	STICKER	1			
63	XKDA-01099	STICKER	1			
64	XKDA-00091	BOLT-HEX	6			
65	XKDA-01100	PAD	4			
66	XKDA-01101	PLATE-PIN STRAGE	1			
67	XKDA-01519	BRACKET	1			
68	XKDA-01520	BRACKET	1			
69	XKDA-01521	BRACKET ASSY	2			
70	XKDA-01522	BRACKET	1			
71	XKDA-01112	PLATE ASSY	1			
72	XKDA-01113	PLATE	1			
73	XKDA-01114	BOLT-HEX	1			
74	XKDA-01115	BOLT-HEX	1			
*1	XKDA-01509	SEAL KIT	1			
*2	XKDA-01510	SEAL KIT	1			



CABIN ELEVATING ASSEMBLY

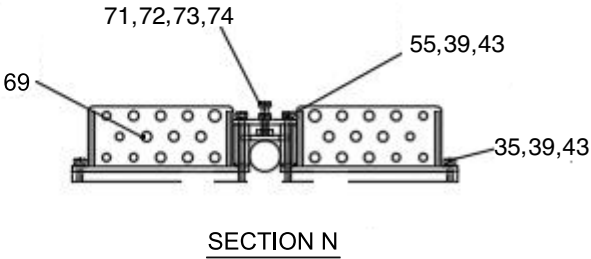
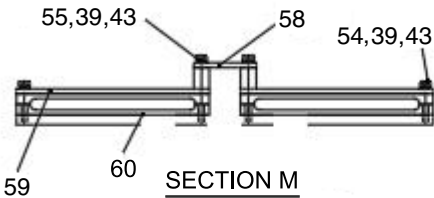
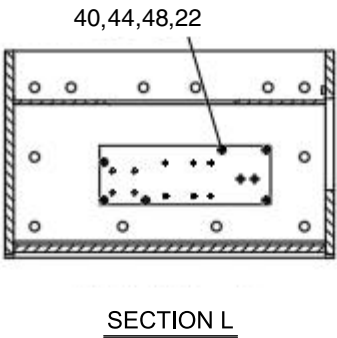
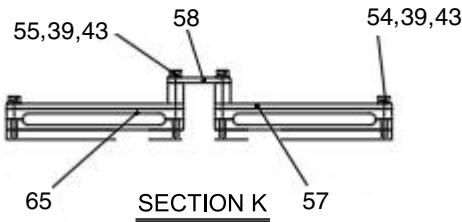
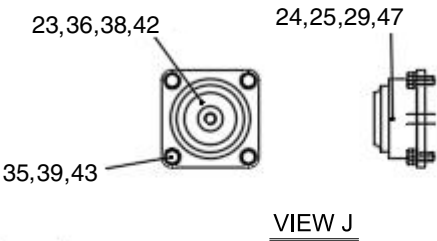
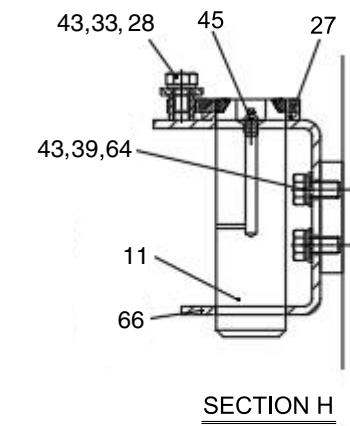
R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
4	XKDA-01507	SUPPORT - FRAME	1			
5	XKDA-01079	LINK - CABIN	1			
5-1	XKDA-01080	. BUSHING	4			
6	XKDA-01081	LINK - GUIDE	1			
6-1	XKDA-01080	. BUSHING	4			
7	XKDA-01508	FRAME - BED	1			
8	XKDA-01202	CYLINDER - CABIN	1			
9	XKDA-01203	CYLINDER - CABIN	1			
10	XKDA-01511	STEP ASSY - SIDE	1			
11	XKDA-01205	PIN - GREASE	6			
12	XKDA-01206	PIN - GREASE	4			
13	XKDA-01512	COVER - UNDER 1	1			
14	XKDA-01513	COVER - UNDER 2	1			
17	XKDA-01209	COVER - SIDE 1	1			
18	XKDA-01210	COVER - FRONT	1			
19	XKDA-01514	COVER - SUPPORT	1			
20	XKDA-01212	COVER - SUPPORT	1			
22	XKDA-01213	BRACKET - PVG	1			
23	XKDA-01214	PIPE - STOPPER	1			
24	XKDA-01215	BRACKET - STOPPER	1			
25	XKDA-01216	STOPPER	1			
26	XKDA-00696	BOLT - HEX	12			
27	XKDA-01217	SPACER - PIN	10			
28	XKDA-01218	WASHER	10			
29	XKDA-01219	SHIM - 1.0	5			
30	XKDA-01220	SHIM - 1.0	20			
32	XKDA-01082	BOLT - HEX	12			
33	XKDA-01083	BOLT - HEX	10			
35	XKDA-00746	BOLT - HEX	6			
36	XKDA-00783	BOLT - HEX	1			
37	XKDA-01084	WASHER - PLAIN	12			
38	XKDA-00699	WASHER - PLAIN	1			
39	XKDA-00692	WASHER - PLAIN	22			
40	XKDA-00697	WASHER - PLAIN	40			
41	XKDA-01085	WASHER - SPRING	12			
42	XKDA-00048	WASHER - SPRING	1			
43	XKDA-00049	WASHER - SPRING	32			
44	XKDA-00050	WASHER - SPRING	40			
45	XKDA-00124	FITTING - GREASE	2			
46	XKDA-01086	GROMMET	1			

CABIN ELEVATING ASSEMBLY

R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
47	XKDA-01087	SPACER-STOPPER	4			
48	XKDA-01088	BOLT-HEX	10			
51	XKDA-00900	BOLT-HEX	18			
52	XKDA-00449	SEAL-DUST	24			
53	XKDA-01515	BRACKET	1			
54	XKDA-01516	BOLT-HEX	4			
55	XKDA-01093	BOLT-HEX	6			
57	XKDA-01517	PLATE ASSY	2			
58	XKDA-01095	PLATE	2			
59	XKDA-01518	PLATE ASSY	2			
60	XKDA-01097	PAD	4			
62	XKDA-01098	STICKER	1			
63	XKDA-01099	STICKER	1			
64	XKDA-00091	BOLT-HEX	6			
65	XKDA-01100	PAD	4			
66	XKDA-01101	PLATE-PIN STRAGE	1			
67	XKDA-01519	BRACKET	1			
68	XKDA-01520	BRACKET	1			
69	XKDA-01521	BRACKET ASSY	2			
70	XKDA-01522	BRACKET	1			
71	XKDA-01112	PLATE ASSY	1			
72	XKDA-01113	PLATE	1			
73	XKDA-01114	BOLT-HEX	1			
74	XKDA-01115	BOLT-HEX	1			
*1	XKDA-01509	SEAL KIT	1			
*2	XKDA-01510	SEAL KIT	1			



CABIN ELEVATING ASSEMBLY

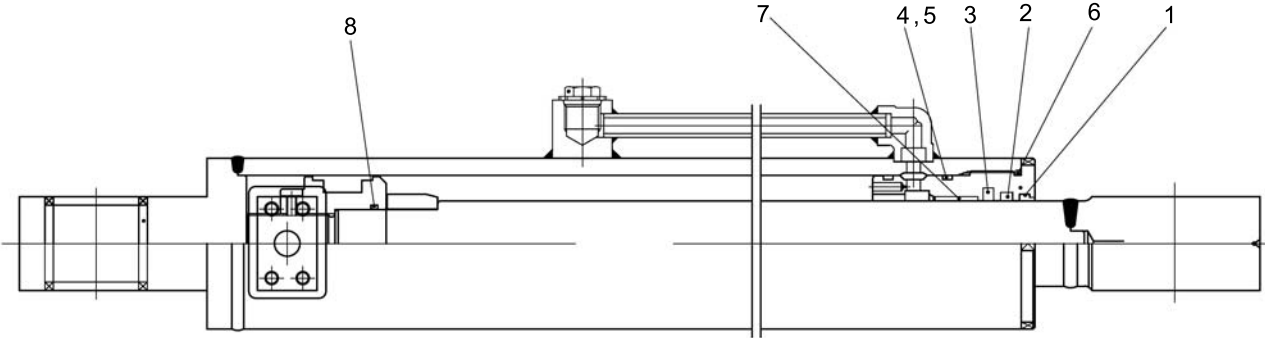
R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
4	XKDA-01507	SUPPORT - FRAME	1			
5	XKDA-01079	LINK - CABIN	1			
5-1	XKDA-01080	. BUSHING	4			
6	XKDA-01081	LINK - GUIDE	1			
6-1	XKDA-01080	. BUSHING	4			
7	XKDA-01508	FRAME - BED	1			
8	XKDA-01202	CYLINDER - CABIN	1			
9	XKDA-01203	CYLINDER - CABIN	1			
10	XKDA-01511	STEP ASSY - SIDE	1			
11	XKDA-01205	PIN - GREASE	6			
12	XKDA-01206	PIN - GREASE	4			
13	XKDA-01512	COVER - UNDER 1	1			
14	XKDA-01513	COVER - UNDER 2	1			
17	XKDA-01209	COVER - SIDE 1	1			
18	XKDA-01210	COVER - FRONT	1			
19	XKDA-01514	COVER - SUPPORT	1			
20	XKDA-01212	COVER - SUPPORT	1			
22	XKDA-01213	BRACKET - PVG	1			
23	XKDA-01214	PIPE - STOPPER	1			
24	XKDA-01215	BRACKET - STOPPER	1			
25	XKDA-01216	STOPPER	1			
26	XKDA-00696	BOLT - HEX	12			
27	XKDA-01217	SPACER - PIN	10			
28	XKDA-01218	WASHER	10			
29	XKDA-01219	SHIM - 1.0	5			
30	XKDA-01220	SHIM - 1.0	20			
32	XKDA-01082	BOLT - HEX	12			
33	XKDA-01083	BOLT - HEX	10			
35	XKDA-00746	BOLT - HEX	6			
36	XKDA-00783	BOLT - HEX	1			
37	XKDA-01084	WASHER - PLAIN	12			
38	XKDA-00699	WASHER - PLAIN	1			
39	XKDA-00692	WASHER - PLAIN	22			
40	XKDA-00697	WASHER - PLAIN	40			
41	XKDA-01085	WASHER - SPRING	12			
42	XKDA-00048	WASHER - SPRING	1			
43	XKDA-00049	WASHER - SPRING	32			
44	XKDA-00050	WASHER - SPRING	40			
45	XKDA-00124	FITTING - GREASE	2			
46	XKDA-01086	GROMMET	1			

CABIN ELEVATING ASSEMBLY

R480LC-9S MH

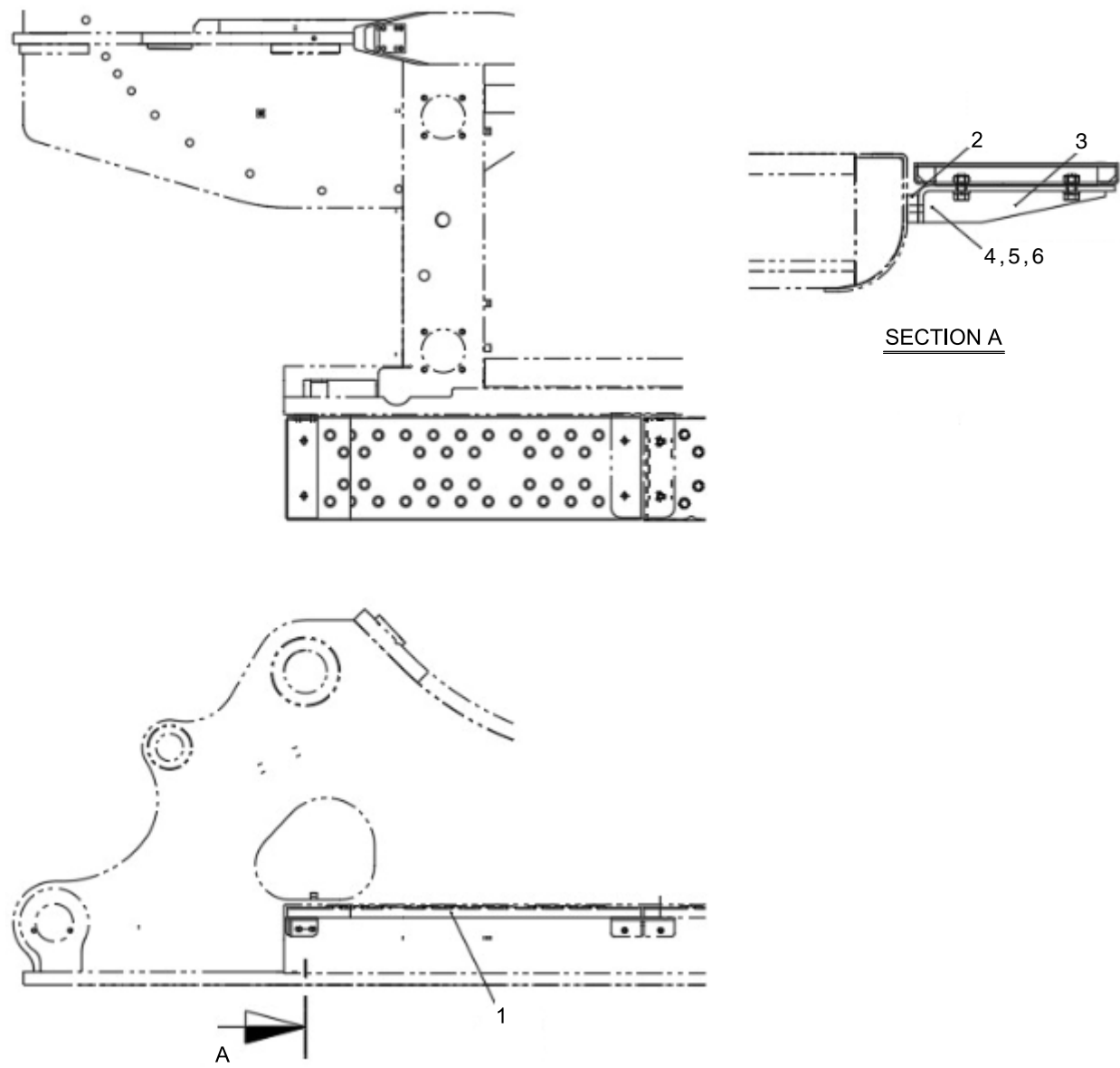
ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
47	XKDA-01087	SPACER-STOPPER	4			
48	XKDA-01088	BOLT-HEX	10			
51	XKDA-00900	BOLT-HEX	18			
52	XKDA-00449	SEAL-DUST	24			
53	XKDA-01515	BRACKET	1			
54	XKDA-01516	BOLT-HEX	4			
55	XKDA-01093	BOLT-HEX	6			
57	XKDA-01517	PLATE ASSY	2			
58	XKDA-01095	PLATE	2			
59	XKDA-01518	PLATE ASSY	2			
60	XKDA-01097	PAD	4			
62	XKDA-01098	STICKER	1			
63	XKDA-01099	STICKER	1			
64	XKDA-00091	BOLT-HEX	6			
65	XKDA-01100	PAD	4			
66	XKDA-01101	PLATE-PIN STRAGE	1			
67	XKDA-01519	BRACKET	1			
68	XKDA-01520	BRACKET	1			
69	XKDA-01521	BRACKET ASSY	2			
70	XKDA-01522	BRACKET	1			
71	XKDA-01112	PLATE ASSY	1			
72	XKDA-01113	PLATE	1			
73	XKDA-01114	BOLT-HEX	1			
74	XKDA-01115	BOLT-HEX	1			
*1	XKDA-01509	SEAL KIT	1			
*2	XKDA-01510	SEAL KIT	1			



CABIN ELEVATING CYLINDER SEAL KIT

R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
*1	XKDA-01509	SEAL KIT	1			
*2	XKDA-01510	SEAL KIT	1			
1	XKDA-01120	WIPER-DUST	1			
2	XKDA-01121	PACKING-U	1			
3	XKDA-01122	SEAL-STEP	2			
4	XKDA-01123	O-RING	2			
5	XKDA-01124	RING-BACK UP	2			
6	XKDA-01125	O-RING	2			
7	XKDA-01126	BUSHING-DU	6			
8	XKDA-01127	FLANGE-COMPACT	6			

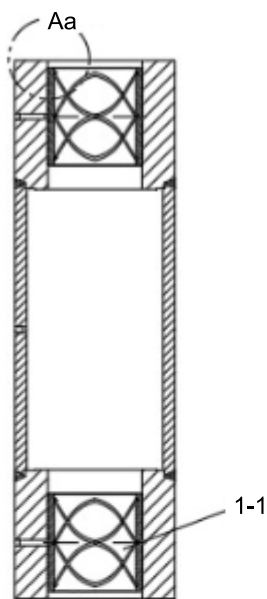
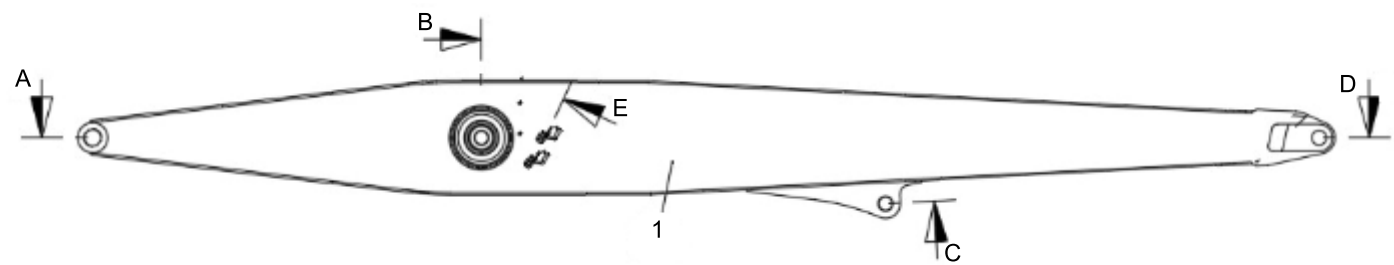


CATWALK

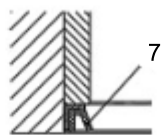
R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
1	XKDA-01524	CATWALK	1			
2	XKDA-01525	SEAT-SCREW	1			
3	XKDA-01526	BRACKET	1			
4	XKDA-00091	BOLT-HEX	2			
5	XKDA-00049	WASHER-SPRING	2			
6	XKDA-00692	WASHER-PLAIN	2			

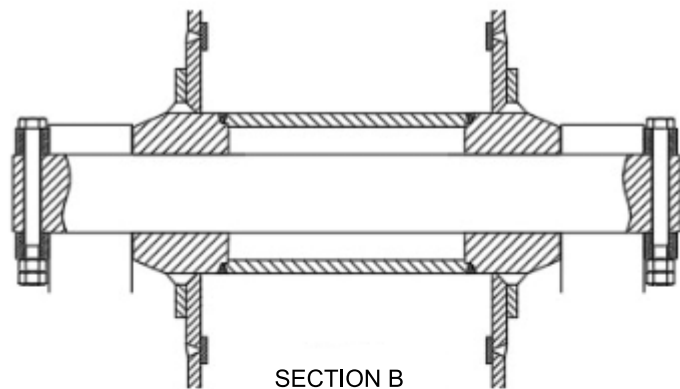
BOOM ASSEMBLY



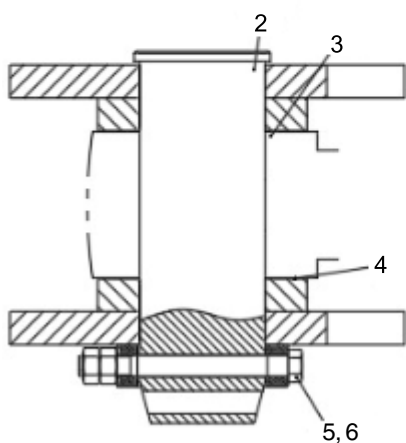
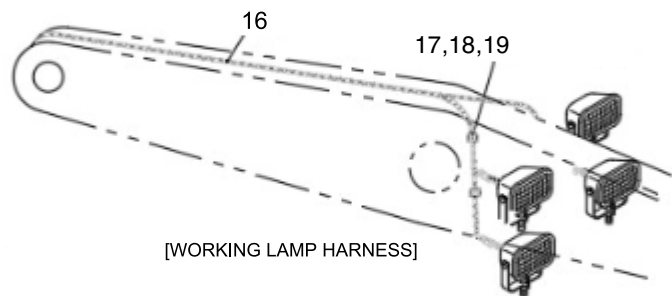
SECTION A



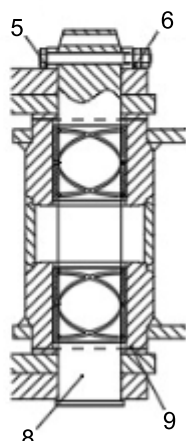
DETAIL Aa



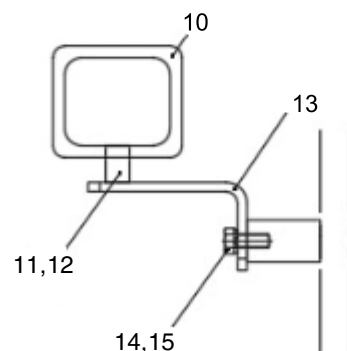
SECTION B



SECTION C



SECTION D



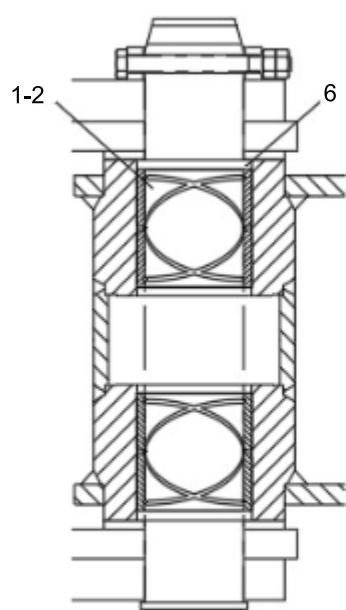
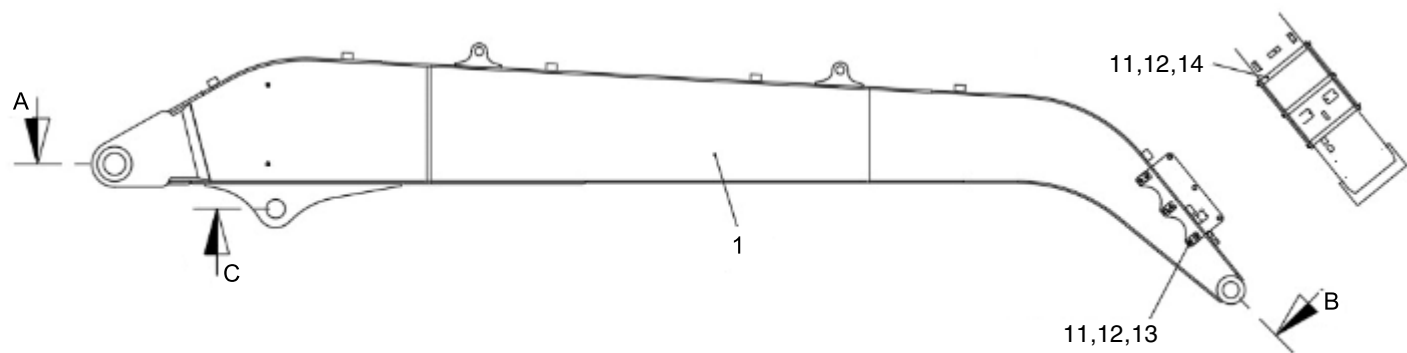
SECTION E

BOOM ASSEMBLY

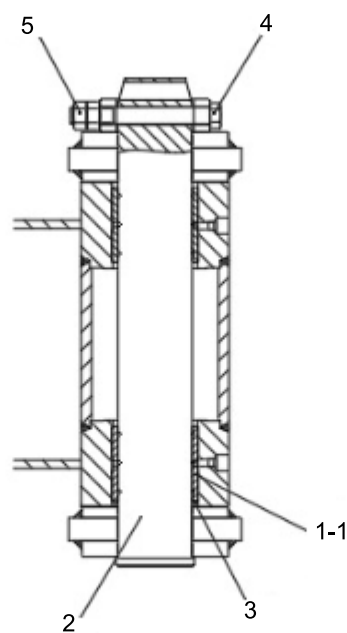
R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
1	XKDA- 01438	BOOM	1			
1-1	XKDA- 00629	. BUSHING	2			
2	XKDA- 00742	PIN	1			
3	XKDA- 00743	SEAL -DUST	2			
4	XKDA- 00303	SHIM	2			
5	XKDA- 00744	BOLT-HEX	2			
6	XKDA- 00093	NUT	4			
7	XKDA- 00287	SEAL -DUST	2			
8	XKDA- 01439	PIN	1			
9	XKDA- 00484	SHIM	2			
10	XKDA- 00981	LAMP- WORKING	4			
11	XKDA- 00900	BOLT-HEX	4			
12	XKDA- 00050	WASHER-SPRING	4			
13	XKDA- 01440	BRACKET	4			
14	XKDA- 00746	BOLT-HEX	4			
15	XKDA- 00049	WASHER-SPRING	4			
16	XKDA- 01441	HARNESS- WIRE	1			
17	XKDA- 00411	CLIP	4			
18	XKDA- 00841	BOLT-HEX	4			
19	XKDA- 00171	WASHER-SPRING	4			

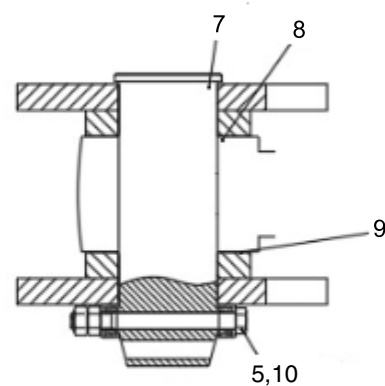
ARM ASSEMBLY



SECTION A



SECTION B



SECTION C

ARM ASSEMBLY

R480LC-9S MH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
1	XKDA-01443	ARM	1			
1-1	XKDA-01444	. BUSHING	2			
1-2	XKDA-00752	. BUSHING	2			
2	XKDA-01445	PIN	1			
3	XKDA-00121	SEAL-DUST	2			
4	XKDA-00114	BOLT-HEX	1			
5	XKDA-00093	NUT	4			
6	XKDA-00301	SEAL-DUST	2			
7	XKDA-00742	PIN	1			
8	XKDA-00743	SEAL-DUST	2			
9	XKDA-00303	SHIM	2			
10	XKDA-00744	BOLT-HEX	1			
11	XKDA-00902	BOLT-HEX	18			
12	XKDA-00048	WASHER-SPRING	18			
13	XKDA-00994	COVER	2			
14	XKDA-01446	BAR	3			

NUMERICAL PART INDEX

PART NO	PAGE	ITEM	PART NO	PAGE	ITEM	PART NO	PAGE	ITEM
31QB - 55032GG	D080	5	XKDA - 00160	C040a	7	XKDA - 00692	G060	6
31Y1 - 35421GG	D080	10	XKDA - 00160	C060b	3	XKDA - 00696	G010	26
P174 - 200106	C040	38	XKDA - 00161	C040a	9	XKDA - 00697	G010	40
XKDA - 00035	C040	27	XKDA - 00171	C040a	13	XKDA - 00699	G010	38
XKDA - 00035	C060	12	XKDA - 00171	C060b	8	XKDA - 00742	H010	2
XKDA - 00044	C060a	6	XKDA - 00171	H010	19	XKDA - 00742	H020	7
XKDA - 00046	C060	28	XKDA - 00179	D080	8	XKDA - 00743	H010	3
XKDA - 00048	C040	32	XKDA - 00208	C040	28	XKDA - 00743	H020	8
XKDA - 00048	C060	15	XKDA - 00209	C040	30	XKDA - 00744	H010	5
XKDA - 00048	C060a	5	XKDA - 00238	C060a	8	XKDA - 00744	H020	10
XKDA - 00048	G010	42	XKDA - 00287	H010	7	XKDA - 00746	G010	35
XKDA - 00048	H020	12	XKDA - 00301	H020	6	XKDA - 00746	H010	14
XKDA - 00049	C060	31	XKDA - 00303	H010	4	XKDA - 00752	H020	1 - 2
XKDA - 00049	G010	43	XKDA - 00303	H020	9	XKDA - 00779	C040	23
XKDA - 00049	G060	5	XKDA - 00328	C040	29	XKDA - 00780	C040	24
XKDA - 00049	H010	15	XKDA - 00328	C060	13	XKDA - 00781	C040	25
XKDA - 00050	C060	29	XKDA - 00330	C060	7	XKDA - 00781	C060	11
XKDA - 00050	G010	44	XKDA - 00331	C060	8	XKDA - 00782	C040	26
XKDA - 00050	H010	12	XKDA - 00335	C060a	12	XKDA - 00783	C040	31
XKDA - 00053	C040	39	XKDA - 00336	C040	35	XKDA - 00783	C060	14
XKDA - 00053	C060	17	XKDA - 00336	C060	32	XKDA - 00783	G010	36
XKDA - 00055	C040	47	XKDA - 00339	C060	33	XKDA - 00789	C040	36
XKDA - 00057	C060a	10	XKDA - 00388	C060	26	XKDA - 00790	C040	37
XKDA - 00061	C060	23	XKDA - 00392	C060	27	XKDA - 00794	C040	40
XKDA - 00061	D080	9	XKDA - 00411	C040a	10	XKDA - 00841	H010	18
XKDA - 00063	C060	25	XKDA - 00411	C060b	6	XKDA - 00850	C060a	3
XKDA - 00066	C060	21	XKDA - 00411	C170	11	XKDA - 00900	G010	51
XKDA - 00071	C040	42	XKDA - 00411	H010	17	XKDA - 00900	H010	11
XKDA - 00091	G010	64	XKDA - 00412	C040a	11	XKDA - 00902	H020	11
XKDA - 00091	G060	4	XKDA - 00437	D080	2	XKDA - 00945	B010a	1
XKDA - 00093	H010	6	XKDA - 00449	G010	52	XKDA - 00956	B010	2
XKDA - 00093	H020	5	XKDA - 00484	H010	9	XKDA - 00957	B010	3
XKDA - 00114	H020	4	XKDA - 00629	H010	1 - 1	XKDA - 00958	B010	5
XKDA - 00121	H020	3	XKDA - 00648	C040	33	XKDA - 00981	H010	10
XKDA - 00124	C040a	8	XKDA - 00648	D080	3	XKDA - 00994	H020	13
XKDA - 00124	C060b	5	XKDA - 00649	C040	34	XKDA - 01049	C060	22
XKDA - 00124	C170	10	XKDA - 00649	C060	16	XKDA - 01057	C060a	11
XKDA - 00124	G010	45	XKDA - 00649	D080	6	XKDA - 01061	C060a	9
XKDA - 00159	C040a	6	XKDA - 00650	C040	46	XKDA - 01067	C170	5
XKDA - 00159	C060b	4	XKDA - 00692	G010	39	XKDA - 01073	C170	7

NUMERICAL PART INDEX

PART NO	PAGE	ITEM	PART NO	PAGE	ITEM	PART NO	PAGE	ITEM
XKDA - 01079	G010	5	XKDA - 01197	B010a	2	XKDA - 01462	C040	15
XKDA - 01080	G010	6 - 1	XKDA - 01198	B010a	3	XKDA - 01463	C040	16
XKDA - 01080	G010	5 - 1	XKDA - 01202	G010	8	XKDA - 01464	C040	17
XKDA - 01081	G010	6	XKDA - 01203	G010	9	XKDA - 01465	C040	18
XKDA - 01082	G010	32	XKDA - 01205	G010	11	XKDA - 01466	C040	19
XKDA - 01083	G010	33	XKDA - 01206	G010	12	XKDA - 01467	C040	20
XKDA - 01084	G010	37	XKDA - 01209	G010	17	XKDA - 01468	C040	21
XKDA - 01085	G010	41	XKDA - 01210	G010	18	XKDA - 01469	C040	22
XKDA - 01086	G010	46	XKDA - 01212	G010	20	XKDA - 01470	C040	41
XKDA - 01087	G010	47	XKDA - 01213	G010	22	XKDA - 01471	C040	43
XKDA - 01088	G010	48	XKDA - 01214	G010	23	XKDA - 01472	C040	44
XKDA - 01093	G010	55	XKDA - 01215	G010	24	XKDA - 01473	C040	45
XKDA - 01095	G010	58	XKDA - 01216	G010	25	XKDA - 01474	D080	1
XKDA - 01097	G010	60	XKDA - 01217	G010	27	XKDA - 01475	C060	20
XKDA - 01098	G010	62	XKDA - 01218	G010	28	XKDA - 01475	D080	4
XKDA - 01099	G010	63	XKDA - 01219	G010	29	XKDA - 01476	D080	7
XKDA - 01100	G010	65	XKDA - 01220	G010	30	XKDA - 01478	C060	1
XKDA - 01101	G010	66	XKDA - 01221	B010	4	XKDA - 01479	C060	2
XKDA - 01112	G010	71	XKDA - 01438	H010	1	XKDA - 01480	C060	3
XKDA - 01113	G010	72	XKDA - 01439	H010	8	XKDA - 01481	C060	4
XKDA - 01114	G010	73	XKDA - 01440	H010	13	XKDA - 01482	C060	5
XKDA - 01115	G010	74	XKDA - 01441	H010	16	XKDA - 01483	C060	6
XKDA - 01120	G010a	1	XKDA - 01443	H020	1	XKDA - 01484	C060	9
XKDA - 01121	G010a	2	XKDA - 01444	H020	1 - 1	XKDA - 01485	C060	10
XKDA - 01122	G010a	3	XKDA - 01445	H020	2	XKDA - 01486	C060	18
XKDA - 01123	G010a	4	XKDA - 01446	H020	14	XKDA - 01487	C060	19
XKDA - 01124	G010a	5	XKDA - 01448	C040	1	XKDA - 01488	C060	24
XKDA - 01125	G010a	6	XKDA - 01449	C040	2	XKDA - 01489	C060	30
XKDA - 01126	G010a	7	XKDA - 01450	C040	3	XKDA - 01491	C060a	1
XKDA - 01127	G010a	8	XKDA - 01451	C040	4	XKDA - 01492	C060a	2
XKDA - 01129	C170	1	XKDA - 01452	C040	5	XKDA - 01493	C060a	4
XKDA - 01130	C170	2	XKDA - 01453	C040	6	XKDA - 01494	C060a	7
XKDA - 01131	C170	3	XKDA - 01454	C040	7	XKDA - 01496	C040a	1
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XKDA - 01133	C170	6	XKDA - 01456	C040	9	XKDA - 01498	C040a	3
XKDA - 01134	C170	8	XKDA - 01457	C040	10	XKDA - 01499	C040a	4
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XKDA - 01136	C170	13	XKDA - 01459	C040	12	XKDA - 01501	C040a	12
XKDA - 01137	C170	14	XKDA - 01460	C040	13	XKDA - 01503	C060b	1
XKDA - 01138	C170	15	XKDA - 01461	C040	14	XKDA - 01504	C060b	2

NUMERICAL PART INDEX

[illegible]