

Manual

Material Handler

(HW250A MH)

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	

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1. Safety

1-1. Operation Cautions

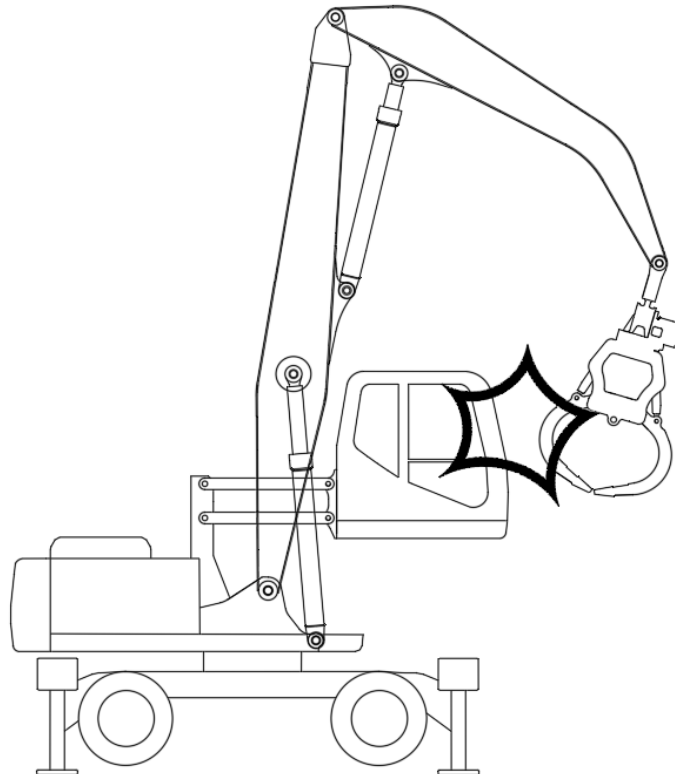
WARNING!

- | |
|--|
| <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 |
|--|

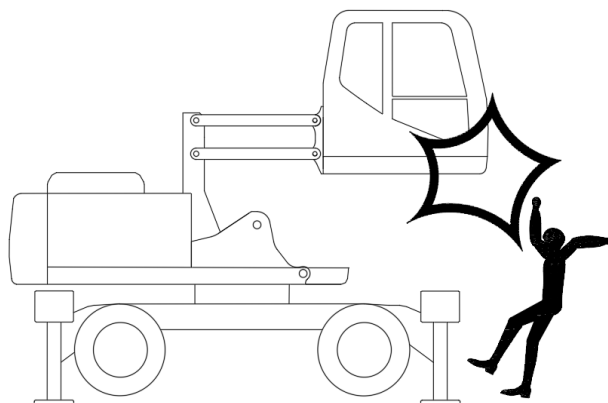
1-2. Front Attachment Operation Caution

Be careful with operating elevating cabin or front attachment.

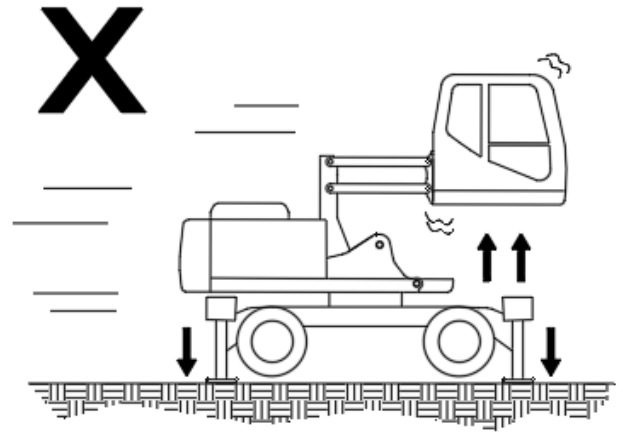
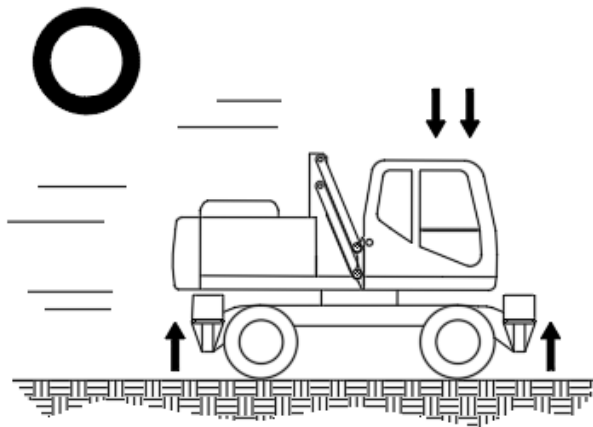
When you operate elevating cabin or front attachment, you should be careful to avoid crash between elevating cabin and front attachment. Serious personal injury or death may result from this crash.



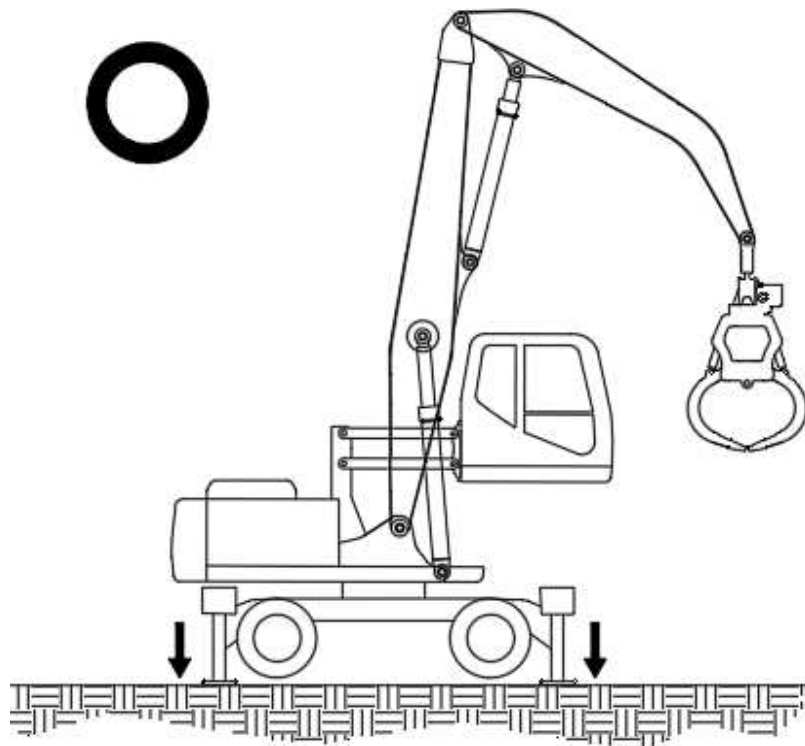
Be careful object or person when elevating cabin descends.



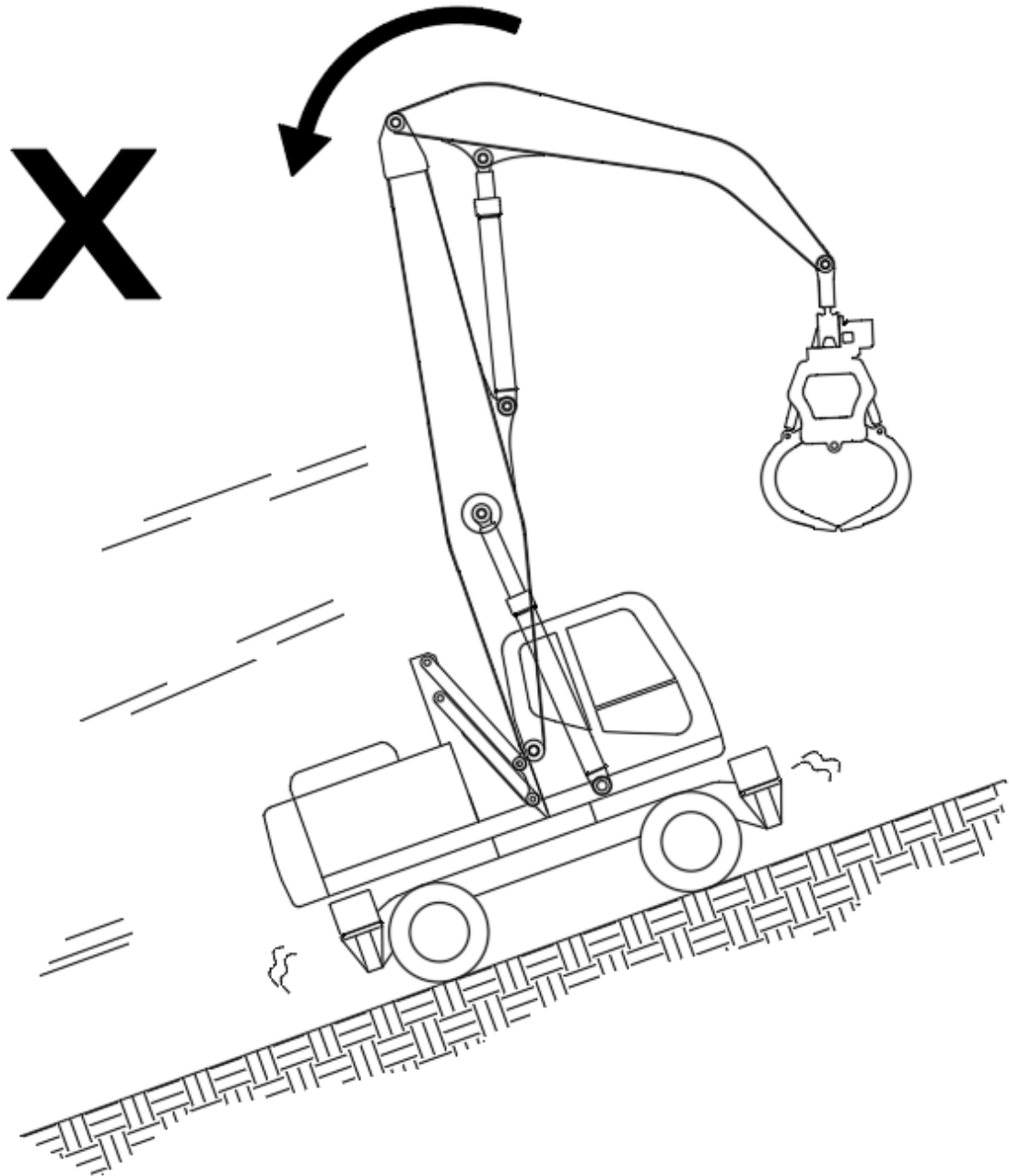
Only drive the machine in a state of Elevating Cabin down and outrigger up.



Only Work the machine in a state.

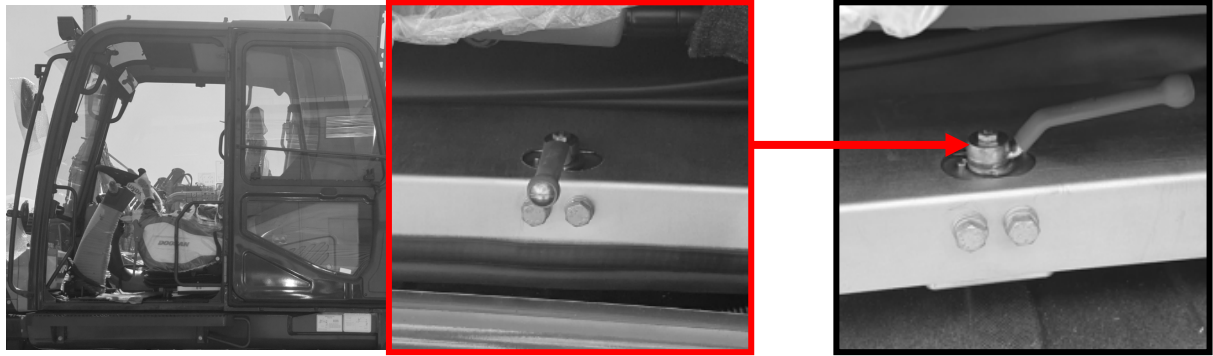


If equipment is used in a slope, the equipment should not be operated since the equipment is overturned.



1-3. Emergency Lowering of Elevating Cabin

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



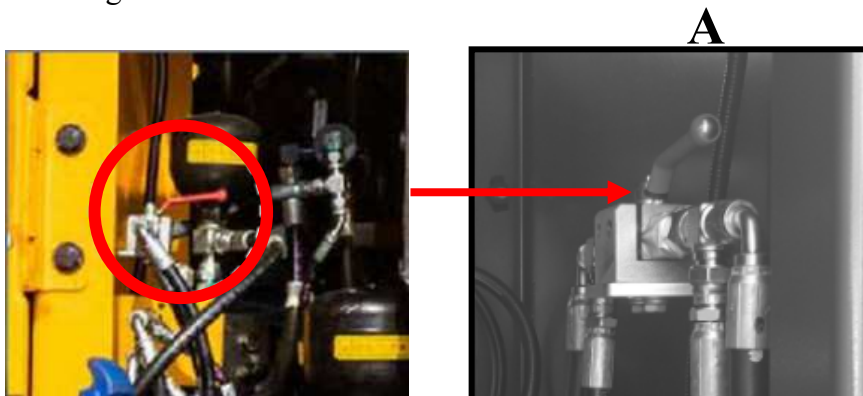
A - Emergency Cabin lowering : Inside the operator station

- 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.



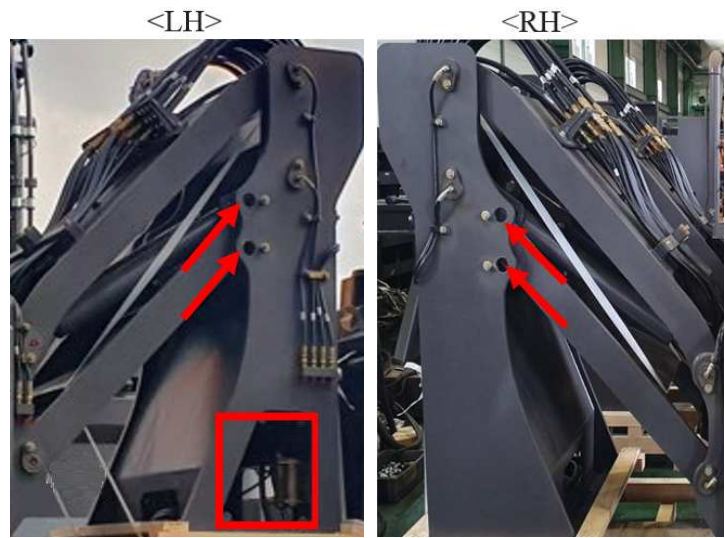
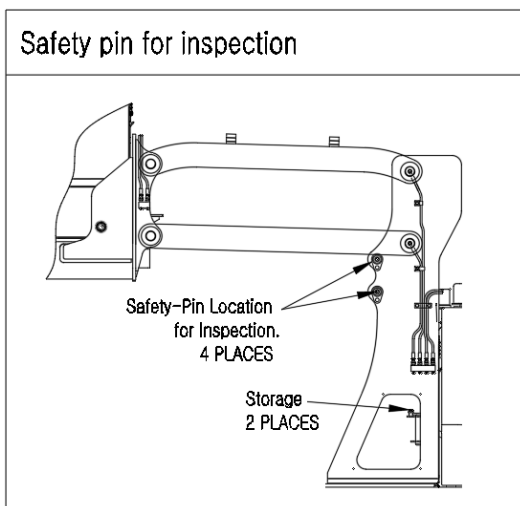
- Open the side cover of the cooler
- Turn the lever (A) until the cab starts lowering.
- When the cab is completely down, return the lever to the original position, see above Photo.

1-4. Safety pin

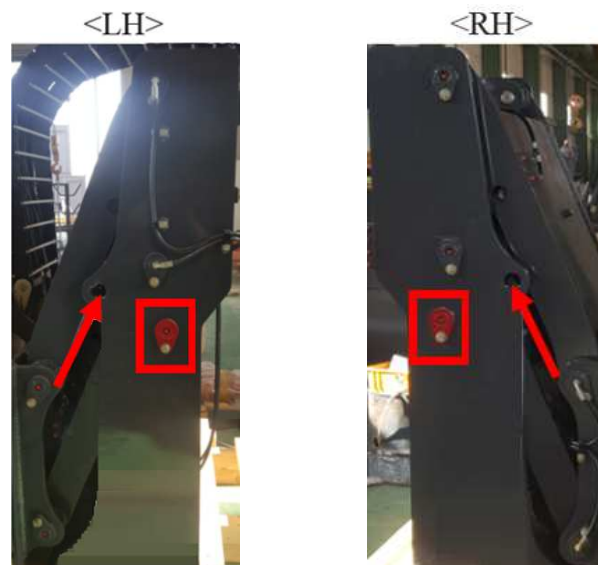
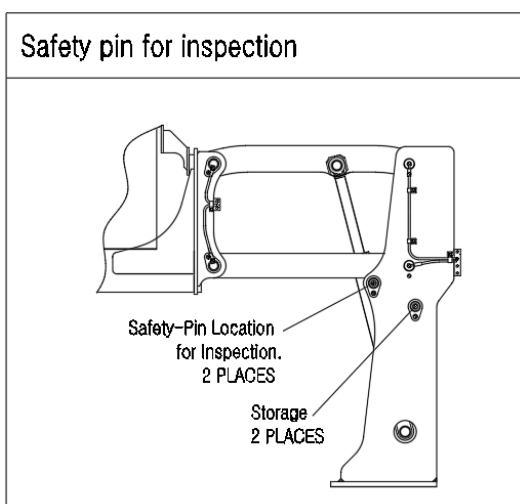
Safety pin is used to be fastened when repairing cabin elevating system.

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

***Elevated Height : 2.5m**



***Elevated Height : 2.0m**



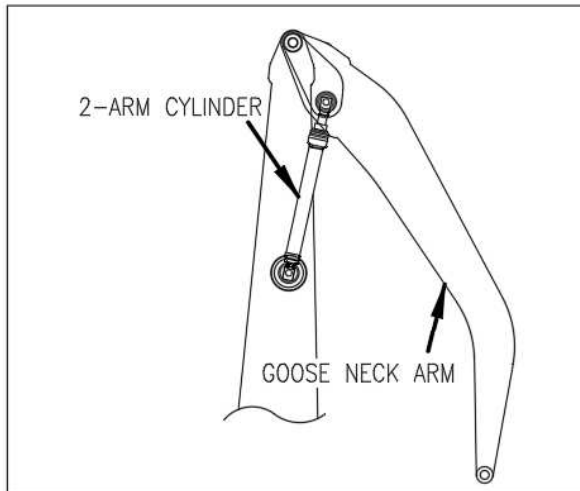
 : The position of the safety pin.

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

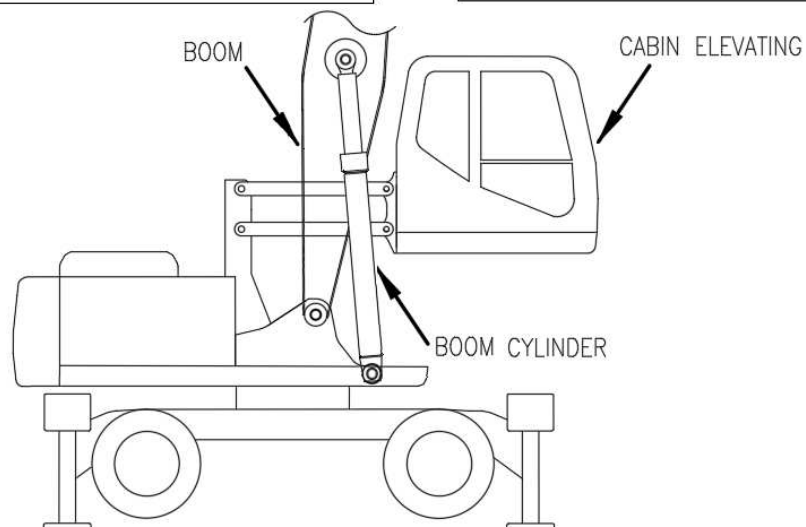
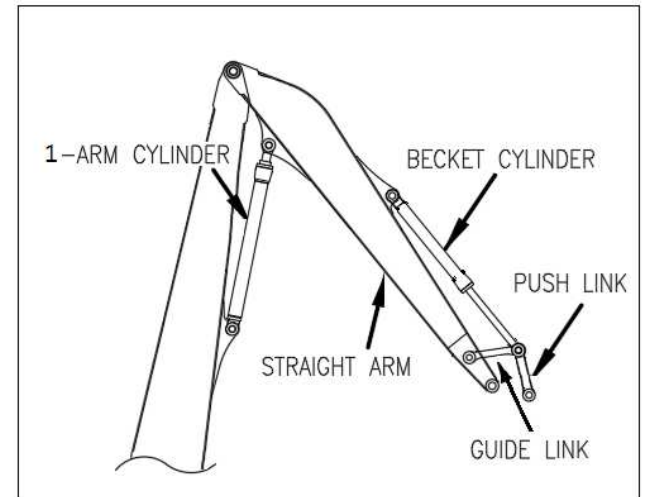
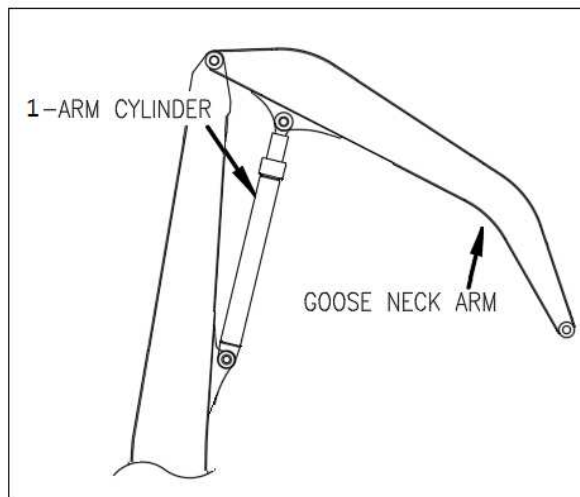
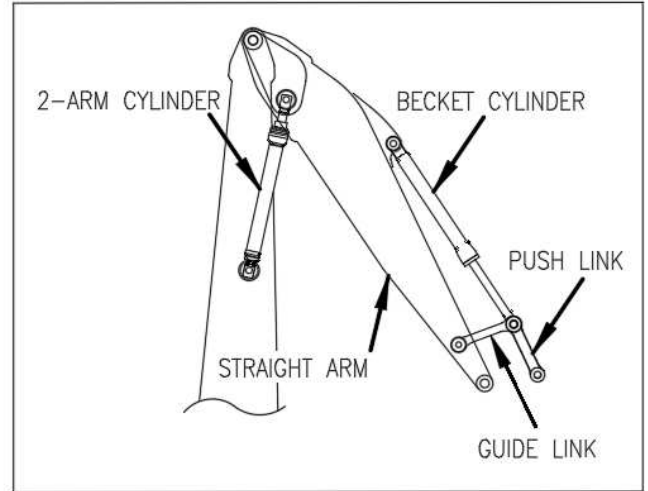
2. Specification

2-1. The Names of Each Part

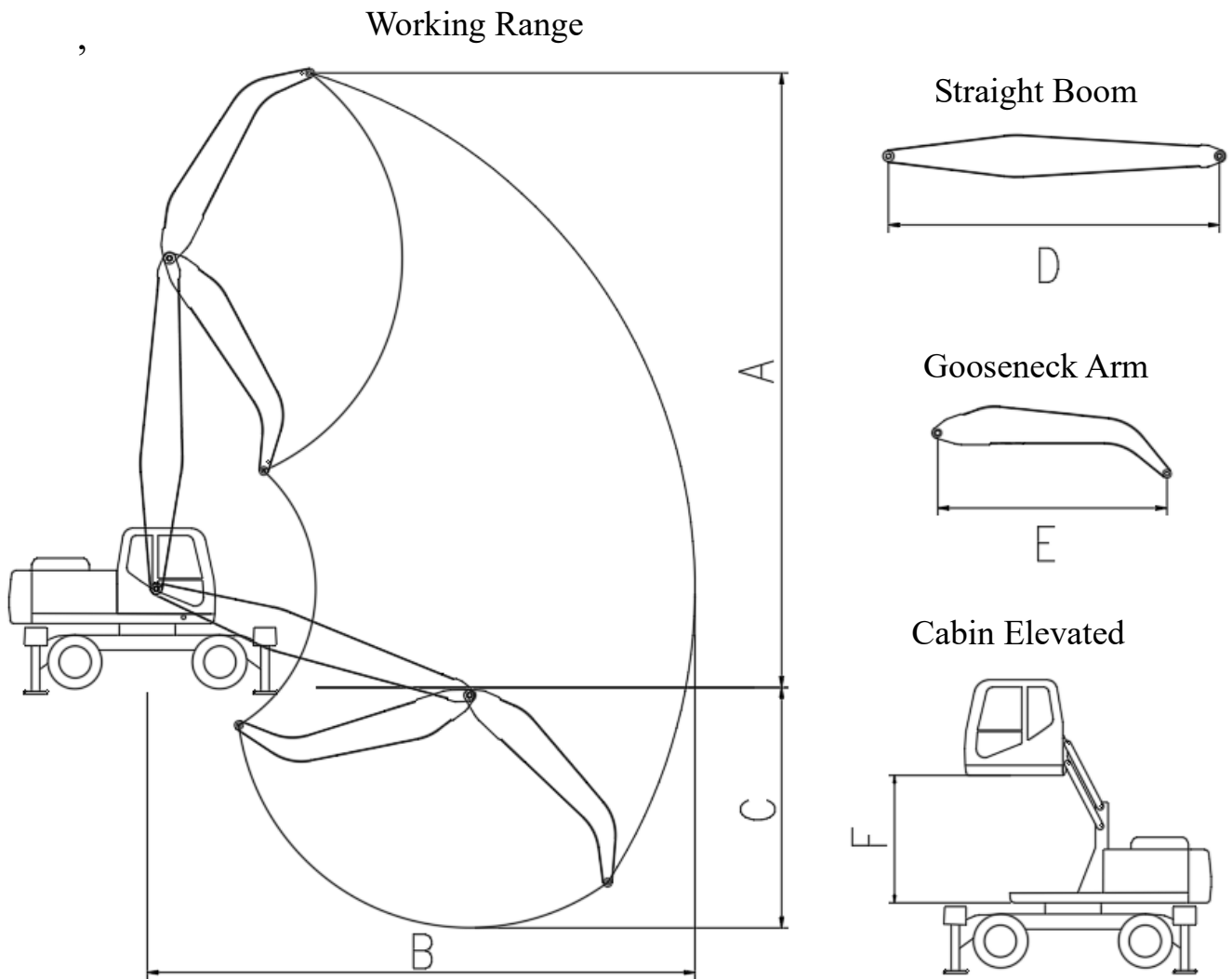
<Goose neck Arm>



<Straight Arm>



2-2. Specification



SMH21-36-DG & SCE25-WE & ACW10S for HW210A

Max. Pin Height (A)	12.1 m	Boom Length (D)	6.5 m
Max. Operation Reach (B)	10.7 m	Arm Length (E)	4.5 m
Max. Working Depth (C)	3.9 m	Elevated Height (F)	2.5 m
Additional Counter Weight	1.0 ton		
Lift Capacity at Max. Reach	Front : #3.8ton / Side : 2.8ton		

2-3. Component Weight & Transportation Dimension

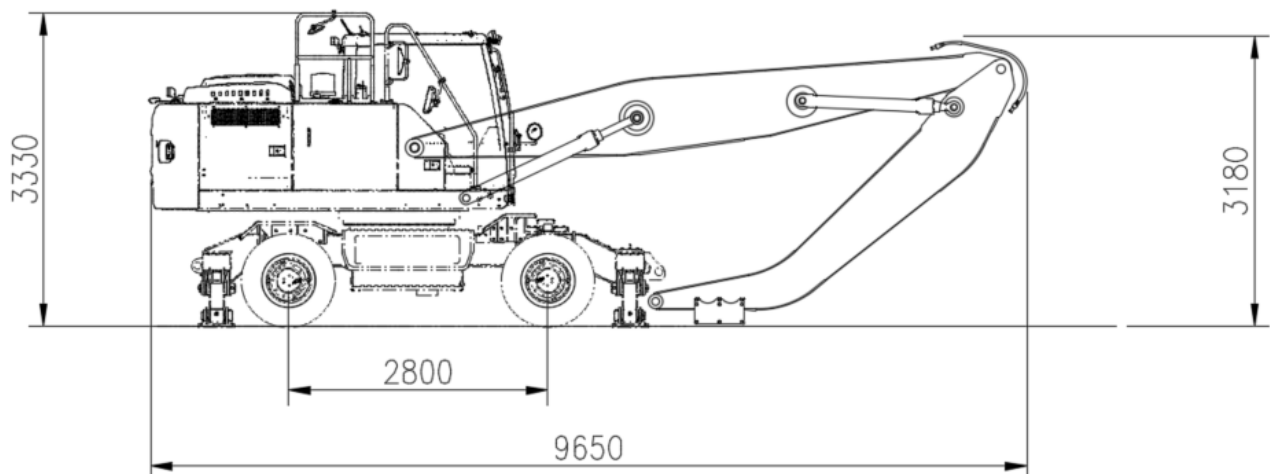
- Component Weight(Without attachment)

Item		Unit	Weight	Remark
Base Machine		kg	19,236.5	Shoe : 600 mm, Factory CWT 4,112.8 kg
Additional Counter Weight		kg	1,000	
Front	Boom	kg	2,200	With arm cylinder&
	Arm	kg	1,240	
Hydraulic Cabin Elevating		kg	2,000	
Total		kg	25,676.5	Without attachment

- Transportation Dimension

Overall width : 2,530 mm

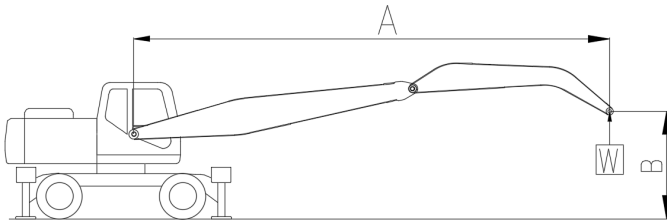
unit: mm



2-4. SAE Lift Capacities

BOOM: 6.5m

ARM: 4.5m



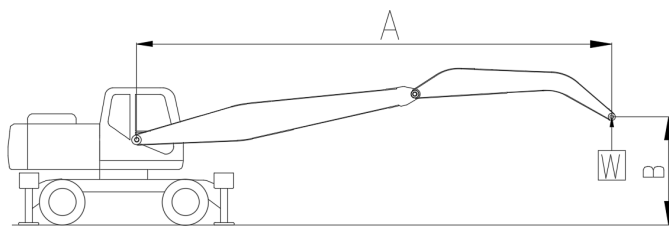
F: RATING OVER FRONT

S: RATING OVER SIDE OR 360°

unit: kgf

A B	3m F	3m S	4.5m F	4.5m S	6m F	6m S	7.5m F	7.5m S
12m								
10.5m			*7550	*7550	*6060	*6060		
9m					*6160	*6160	*5550	*5550
7.5m					*6150	*6150	*5460	*5460
6m			*7660	*7660	*6430	*6430	*5570	5560
4.5m	*12000	*12000	*8700	*8700	*6920	*6920	*5790	5380
3m			*9960	*9960	*7480	7300	*6040	5170
1.5m			*4900	*4900	*7850	6900	*6170	4950
0m	*400	*400	*1890	*1890	*7790	6610	*6050	4780
-1.5m	*580	*580	*1570	*1570	*7160	6460	*5560	4690
-3m			*1650	*1650	*5920	*5920	*4570	*4570

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: 6.5m

ARM: 4.5m

F: RATING OVER FRONT

S: RATING OVER SIDE OR 360°

unit: kgf

B \ A	9m F	9m S	10.5 F	10.5 S	Max. F	Max. S	Max. Reach(m)
12m					*6790	*6790	@3.53
10.5m					*4950	*4950	@6.43
9m					*4360	*4360	@8.08
7.5m	*4820	4120			*4090	3960	@9.19
6m	*4910	4090			*3990	3420	@9.96
4.5m	*4970	4010			*4000	3120	@10.45
3m	*5040	3890	*4180	3040	*4040	2950	@10.71
1.5m	*5010	3780	*4010	2990	*3810	2880	@10.75
0m	*4800	3680	*3610	2950	*3530	2920	@10.58
-1.5m	*4270	3630			*3170	3080	@10.18
-3m	*3240	*3240					@3.53

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

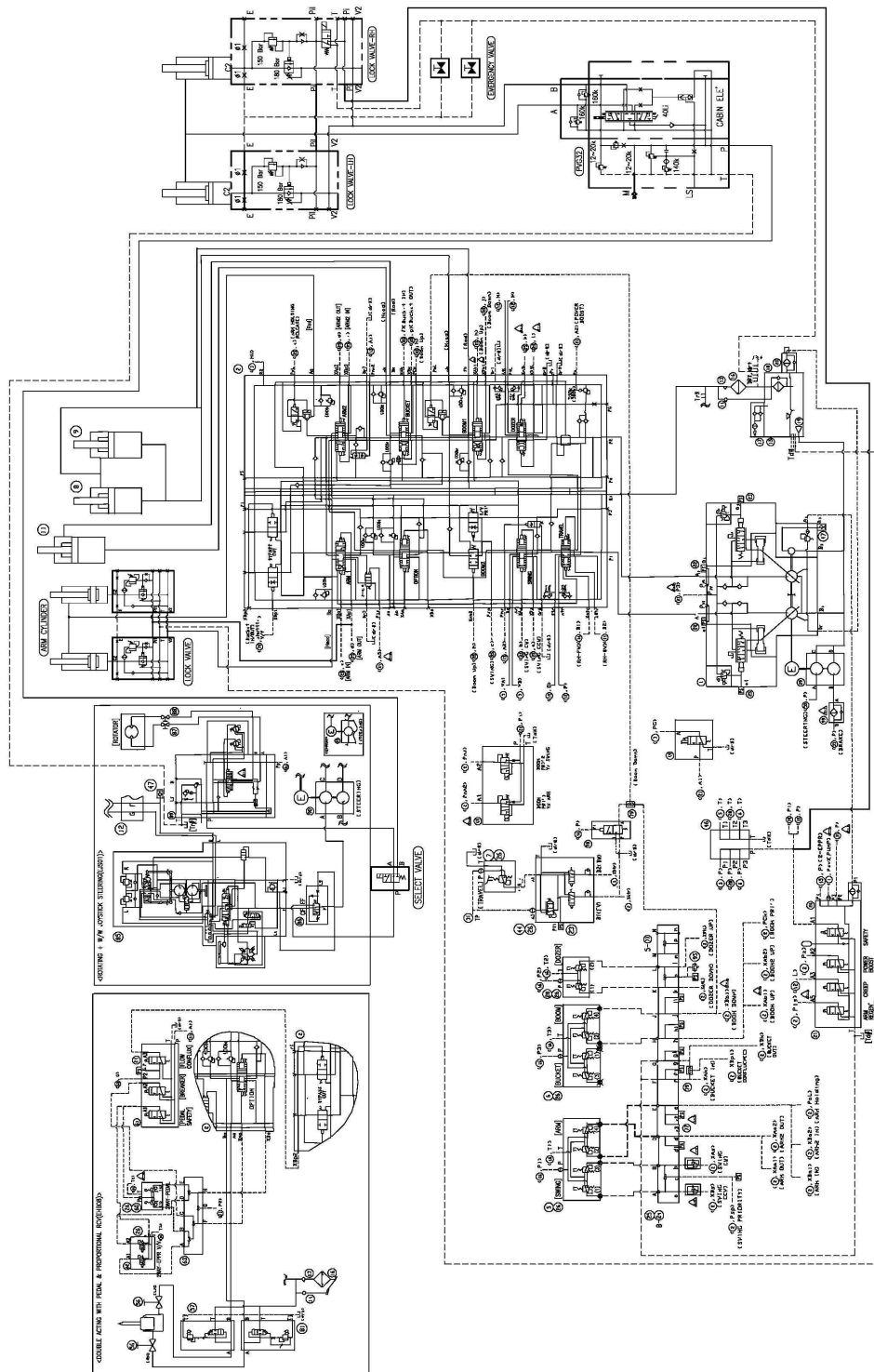
2.Load point is the end pin point of front attachment.

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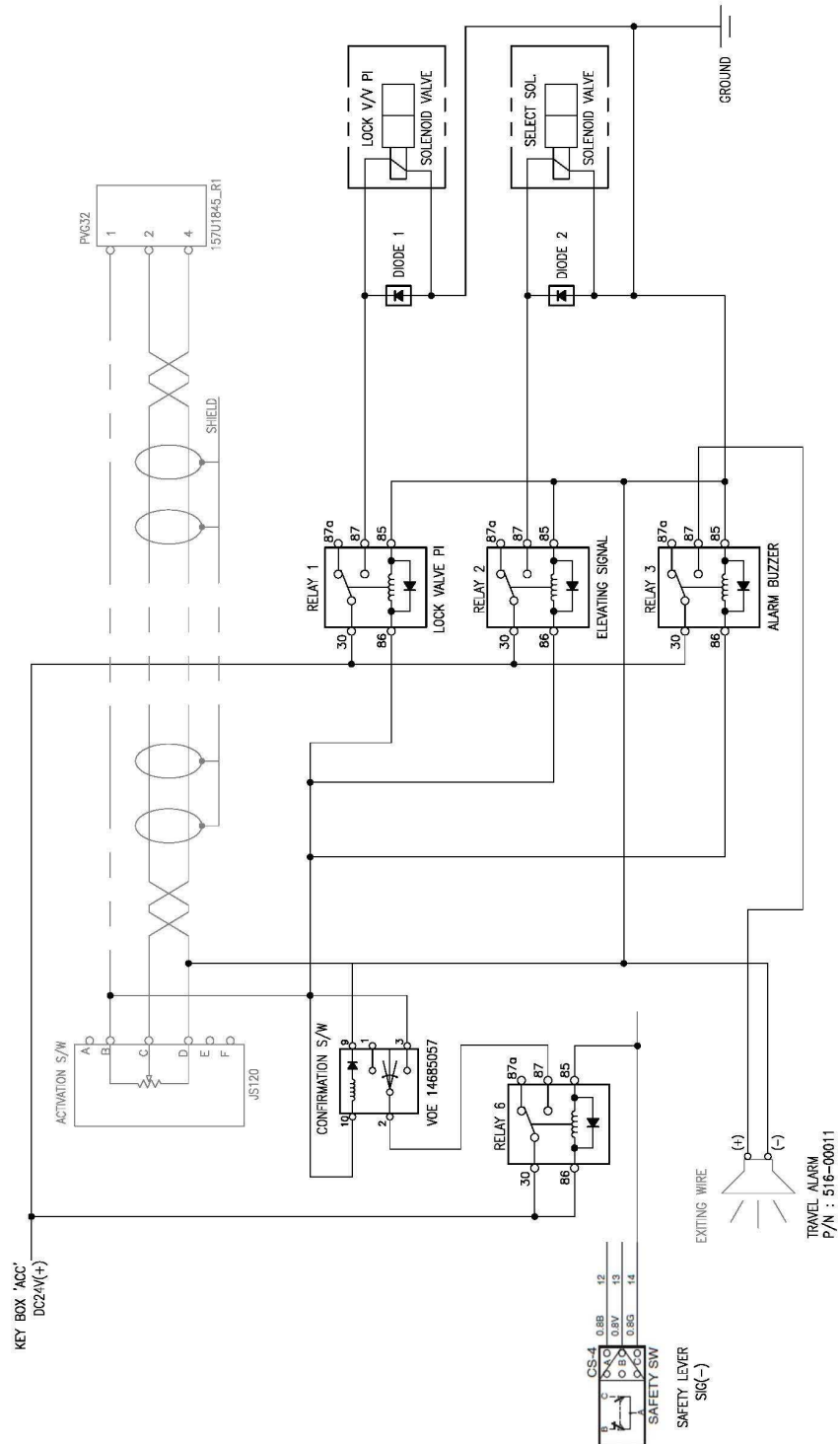
4.(#) indicates load limited by hydraulic capacity.

3. Circuit Diagram

3-1. Hydraulic Circuit Diagram



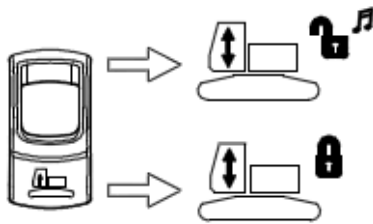
3-3. Electric Circuit Diagram



4. Operation

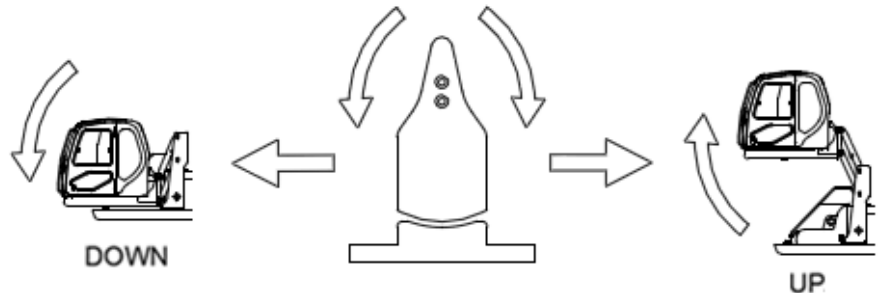
4-1. Control Devices for Operation

Switch



CABIN ELEVATING
SYSTEM ON/OFF

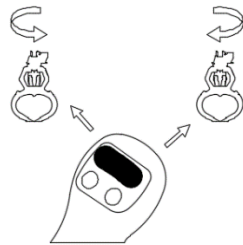
Lever



CABIN ELEVATING
SYSTEM DOWN/UP

Joystick

GRAPPLE
ROTATION (L)



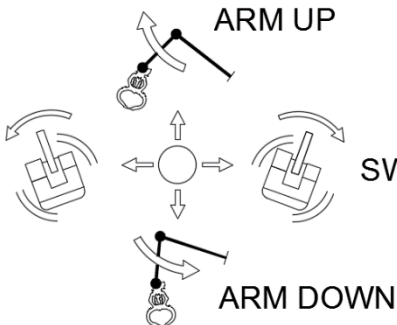
GRAPPLE
ROTATION (R)

GRAPPLE
CLOSE



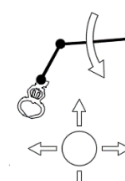
GRAPPLE
OPEN

SWING (L)



SWING (R)

BOOM
DOWN



BOOM UP

4-2. Cabin Elevating Operation



The "Activation switch" is allow to adjust the "cabin up & down speed" at the same time as the cabin up & down operation according to the pressure level on the 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. Turn the confirmation switch on. (and buzzer starts)
5. Press and hold cabin Activation switch forward.
6. When the station arrives intended height, release the Activation switch.
7. Turn the confirmation switch off (and buzzer stops).

* When you lower the cabin, please turn off the parking switch.

Lowering the operator station

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

* When you operate elevating cabin, you should check the mirrors on the bottom to avoid crash between cabin and Lower Equipment.

5. Maintenance

5-1. Greasing

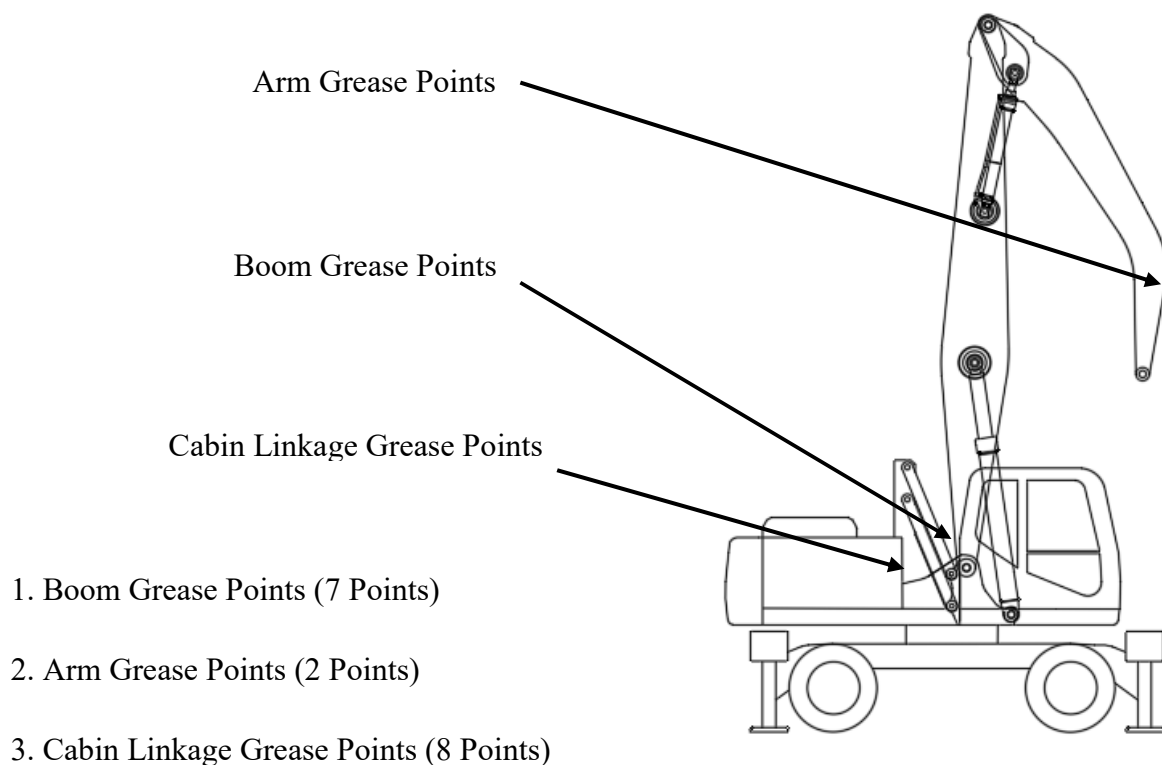
50HOUR/WEEKLY SERVICE

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

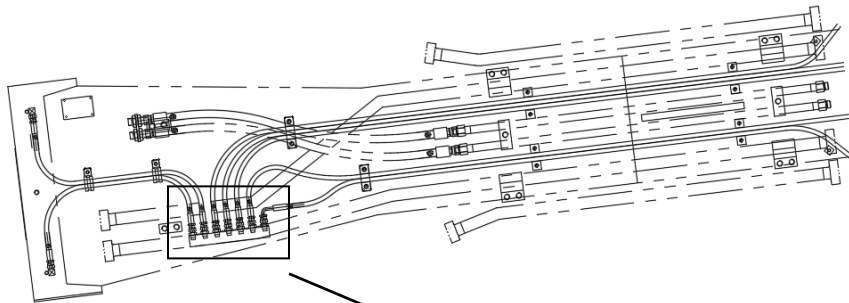
Grease every 10 hours for first 100 hours and every 50 hours there after.

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

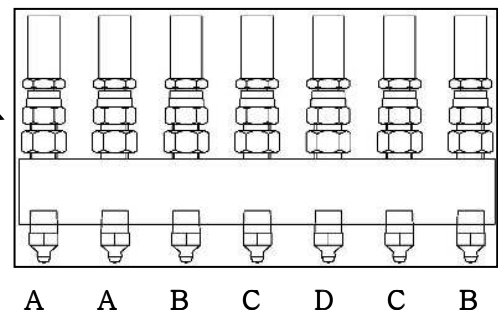
- Position machine as shown below and lower the front attachment on the ground and stop the engine
- Press the grease fitting and inject grease gun on the marked point
- After injection, clean off the old grease that has been purged



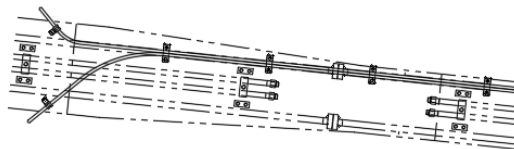
1. Boom Grease Points (7 Points)



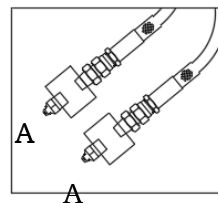
- A : Boom Foot Pin (2Points)
B : Boom Cylinder Rod Pin (2Points)
C : Arm Cylinder Bore Pin (2Points)
D : Boom Arm Joint Pin (1 Point)



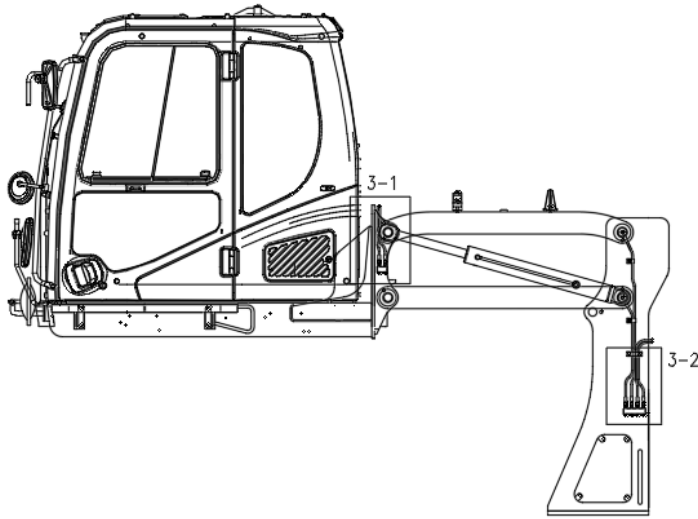
2. Arm Grease Points (2 Points)



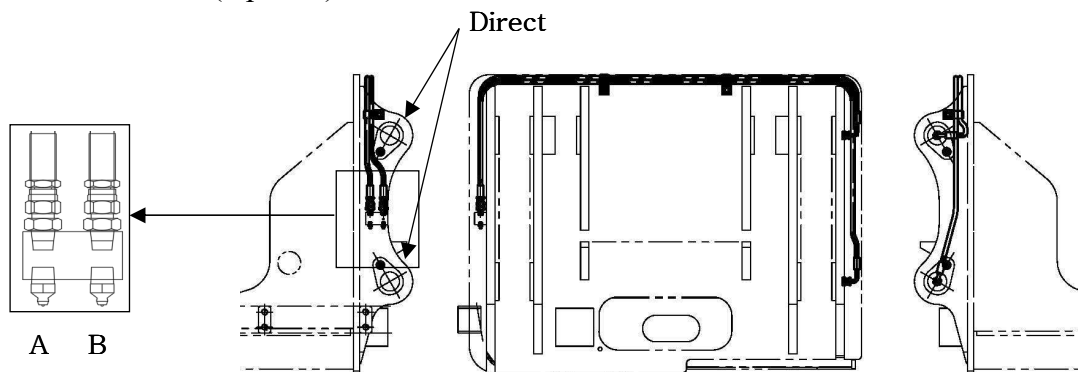
- A: Arm Cylinder Rod Pin (2 Points)



3. Cabin Linkage Grease Points (8 Points)



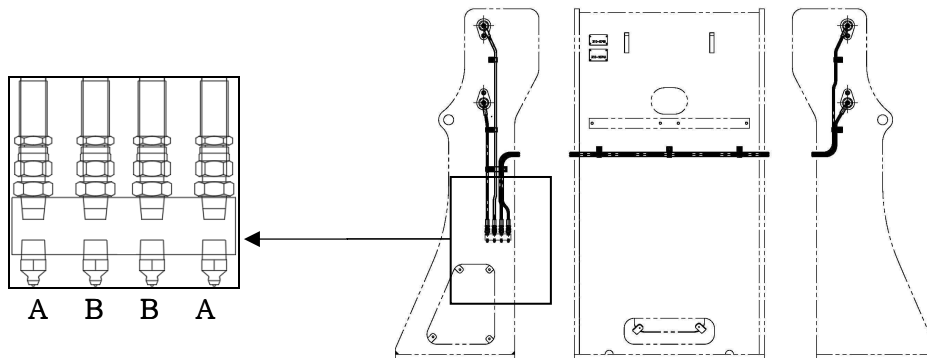
3-1. Bed Frame Grease (4 points)



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)

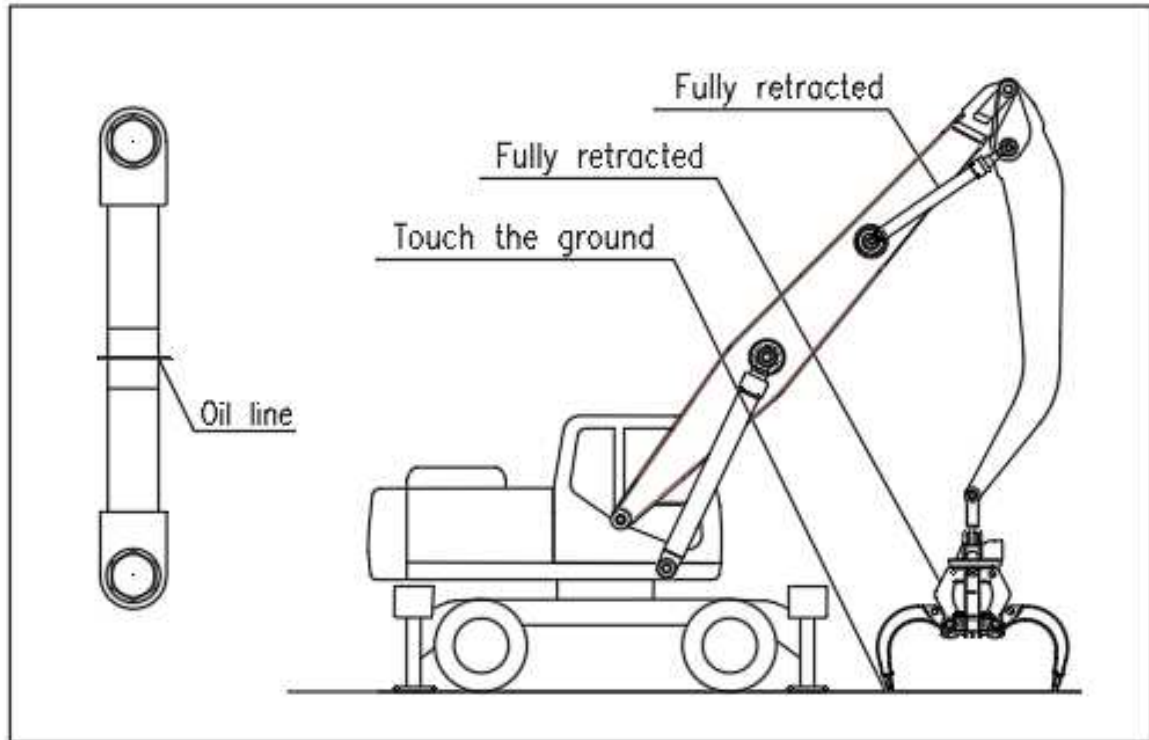


A : Support Frame & Guide Link Joint Pin (2 Points)

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 machine on firm and level ground. Lower attachment on ground as shown in Figure.
2. Lower outriggers and dozer blade to ground, to displace oil into hydraulic oil tank.
3. Set parking brake switch to “I” (APPLIED) position.
4. Move engine speed to “LOW IDLE”.
5. Move safety lever to “LOCK” position

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 SNS business department.

PARTS MANUAL

MOVING YOU FURTHER

MATERIAL HANDLER
HW250AMH

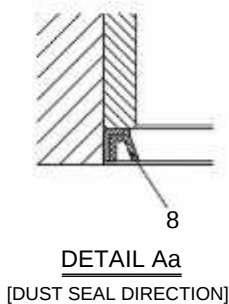
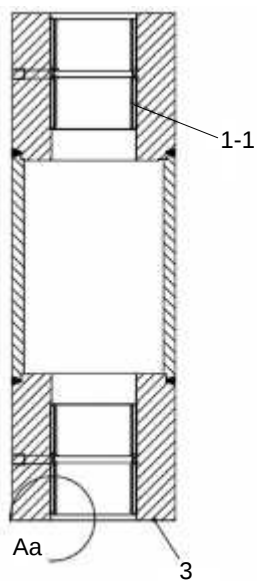
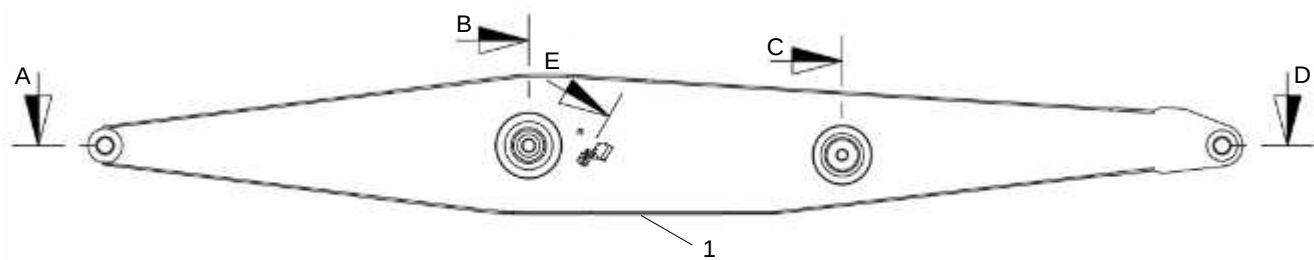
 **HYUNDAI**
CONSTRUCTION EQUIPMENT

CONTENTS

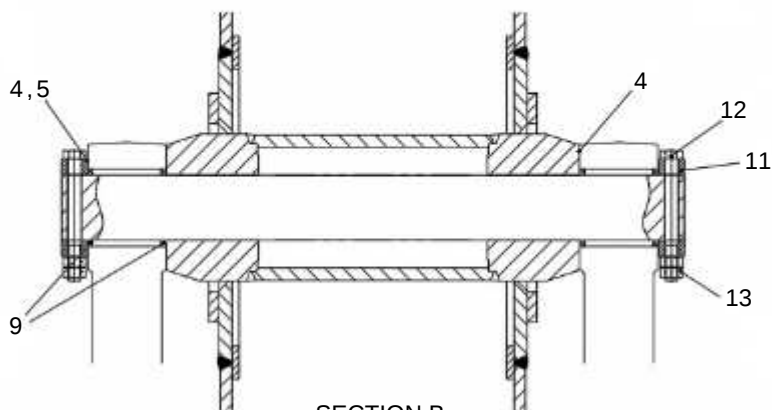
HW250AMH

BOOM ASSEMBLY (1/2)	-----S010
BOOM ASSEMBLY (2/2)	-----S011
ARM ASSEMBLY	-----S020
BOOM PIPING (1/2)	-----S030
BOOM PIPING (2/2)	-----S031
ARM CYLINDER	-----S040
ARM PIPING	-----S050
ARM LOCK VAVLE PIPING (1/2)	-----S060
ARM LOCK VAVLE PIPING (2/2)	-----S061
BOOM GREASE PIPING	-----S070
ARM GREASE PIPING	-----S080
CABIN ELEVATING ASSEMBLY (1/3)	-----S090
CABIN ELEVATING ASSEMBLY (2/3)	-----S091
CABIN ELEVATING ASSEMBLY (3/3)	-----S092
GREASE PIPING (ELEVATED CABIN)	-----S100
SIDE BUMPER ASSEMBLY	-----S110
FRONT STEP ASSEMBLY	-----S120
SIDE STEP ASSEMBLY	-----S130
ADDITIONAL COUNTER WEIGHT	-----S140
HYDRAULIC PARTS INSTALLATION	-----S150
WIRE HARNESS ASSEMBLY	-----S160

BOOM ASSEMBLY (1/2)



SECTION A



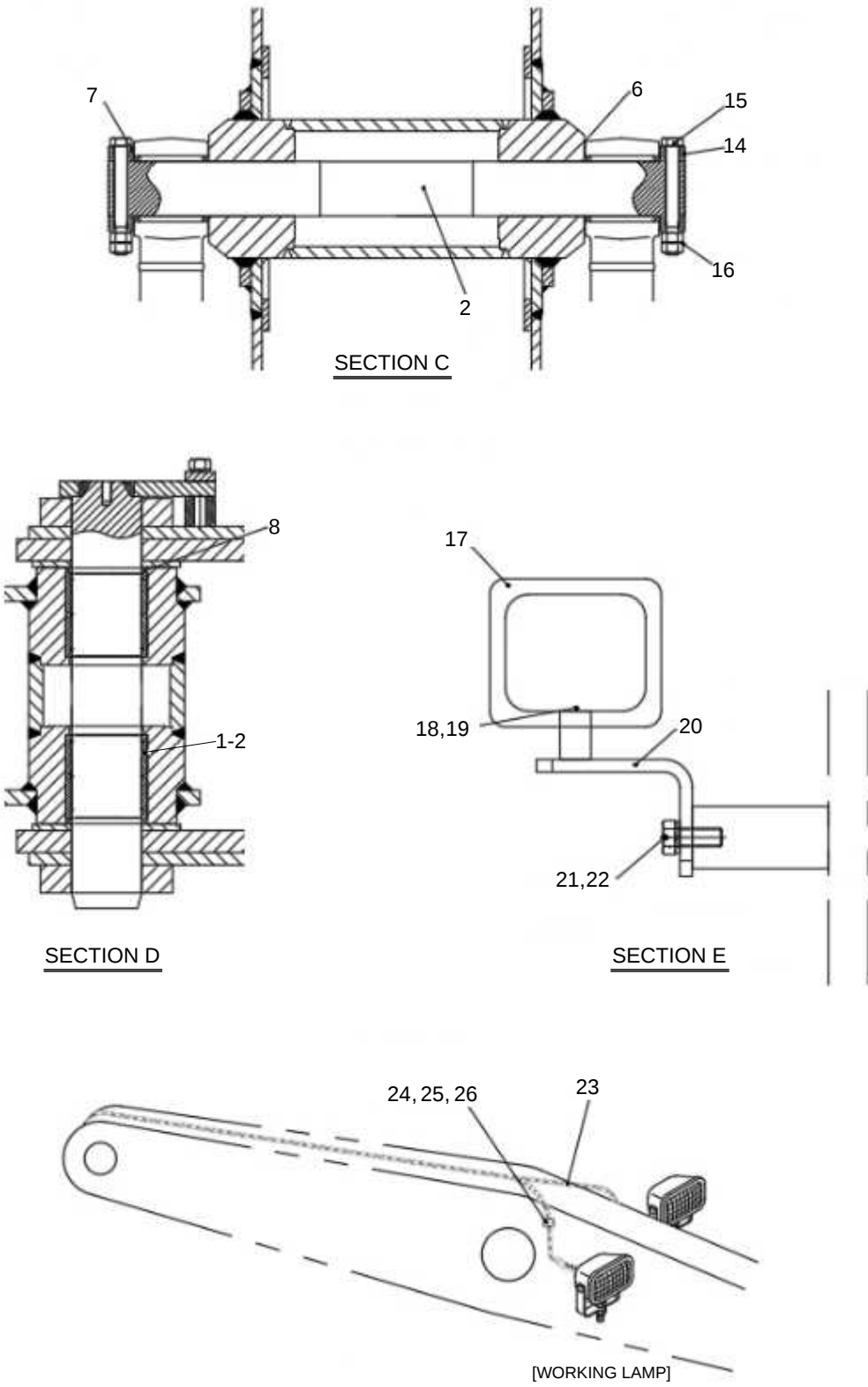
SECTION B

BOOM ASSEMBLY (1/2)

HW250AMH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
*	XKDA-00969	BOOM ASSY	1			
1	XKDA-00970	. BOOM	1			
1-1	XKDA-00971	.. BUSHING	2			
1-2	XKDA-00184	.. BUSHING	2			
2	XKDA-00972	. PIN	1			
3	XKDA-00973	. SHIM-1.0	2			
4	S993-080140	. SHIM-POLYMER 2.0	4			
5	S991-080140	. SHIM-POLYMER 1.0	2			
6	XKDA-00974	. SHIM-1.0	2			
7	XKDA-00975	. SHIM-1.0	4			
8	XKDA-00976	. SEAL-DUST	4			
9	XKDA-00977	. SEAL-DUST	4			
11	61Q6-00320	. STOPPER-PIN	2			
12	S017-161606	. BOLT-HEX	2			
13	S205-16100B	. NUT-HEX	4			
14	XKDA-00978	. STOPPER	2			
15	XKDA-00979	. BOLT-HEX	2			
16	XKDA-00980	. NUT-HEX	4			
17	XKDA-00981	. LAMP-WORKING	2			
18	XKDA-00900	. BOLT-HEX	2			
19	XKDA-00050	. WASHER-SPRING	2			
20	XKDA-00982	. BRACKET	2			
21	XKDA-00746	. BOLT-HEX	2			
22	XKDA-00049	. WASHER-SPRING	2			
23	XKDA-00983	. HARNESS-WIRE	1			
24	XKDA-00411	. CLIP	2			
25	XKDA-00841	. BOLT-HEX	2			
26	XKDA-00171	. WASHER-SPRING	2			

BOOM ASSEMBLY (2/2)

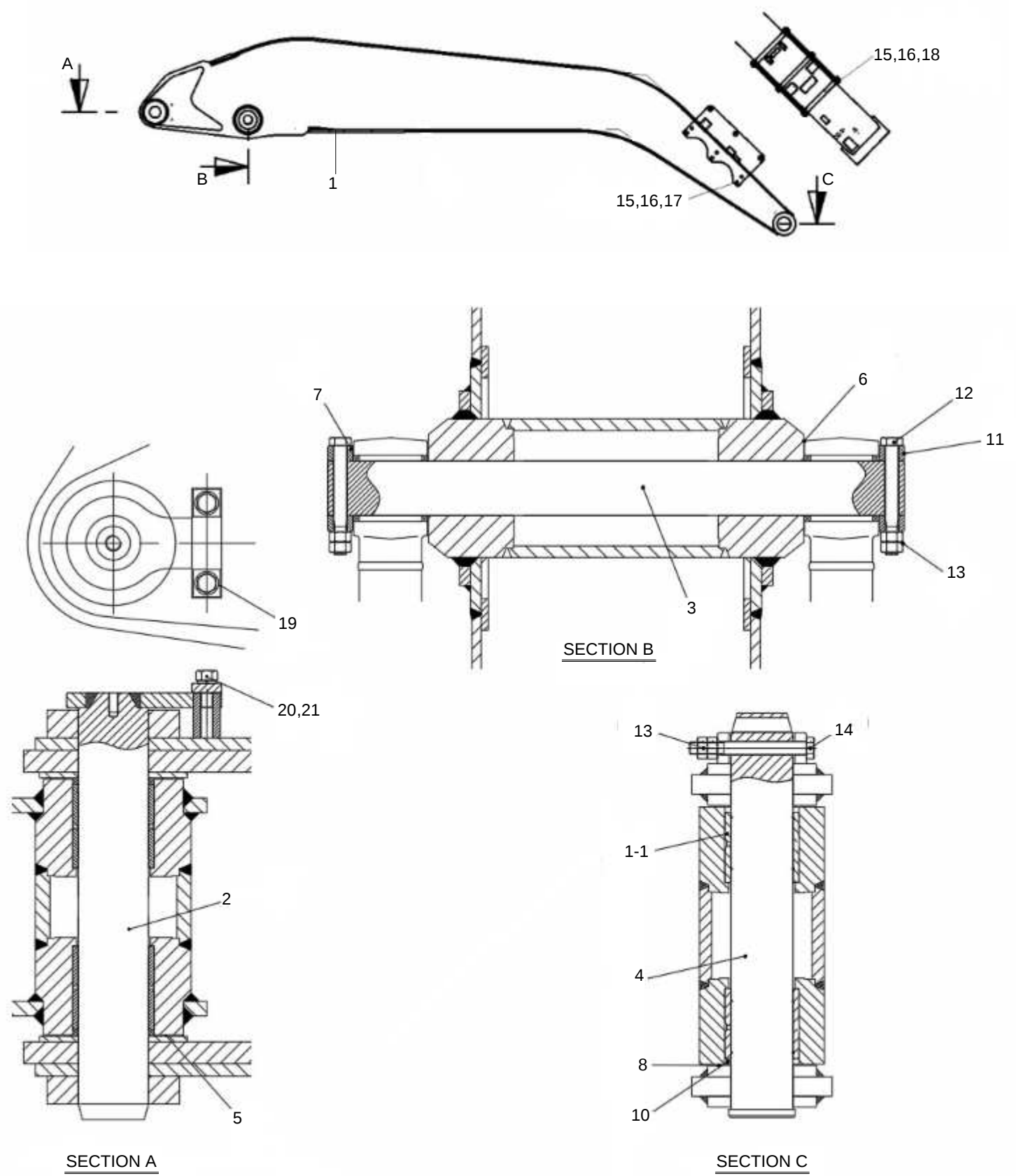


BOOM ASSEMBLY (2/2)

HW250AMH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
* 1 1-1 1-2 2	XKDA-00969 XKDA-00970 XKDA-00971 XKDA-00184 XKDA-00972	BOOM ASSY . BOOM .. BUSHING .. BUSHING . PIN	1 1 2 2 1			
3 4 5 6 7	XKDA-00973 S993-080140 S991-080140 XKDA-00974 XKDA-00975	. SHIM-1.0 . SHIM-POLYMER 2.0 . SHIM-POLYMER 1.0 . SHIM-1.0 . SHIM-1.0	2 4 2 2 4			
8 9 11 12 13	XKDA-00976 XKDA-00977 61Q6-00320 S017-161606 S205-16100B	. SEAL-DUST . SEAL-DUST . STOPPER-PIN . BOLT-HEX . NUT-HEX	4 4 2 2 4			
14 15 16 17 18	XKDA-00978 XKDA-00979 XKDA-00980 XKDA-00981 XKDA-00900	. STOPPER . BOLT-HEX . NUT-HEX . LAMP-WORKING . BOLT-HEX	2 2 4 2 2			
19 20 21 22 23	XKDA-00050 XKDA-00982 XKDA-00746 XKDA-00049 XKDA-00983	. WASHER-SPRING . BRACKET . BOLT-HEX . WASHER-SPRING . HARNESS-WIRE	2 2 2 2 1			
24 25 26	XKDA-00411 XKDA-00841 XKDA-00171	. CLIP . BOLT-HEX . WASHER-SPRING	2 2 2			

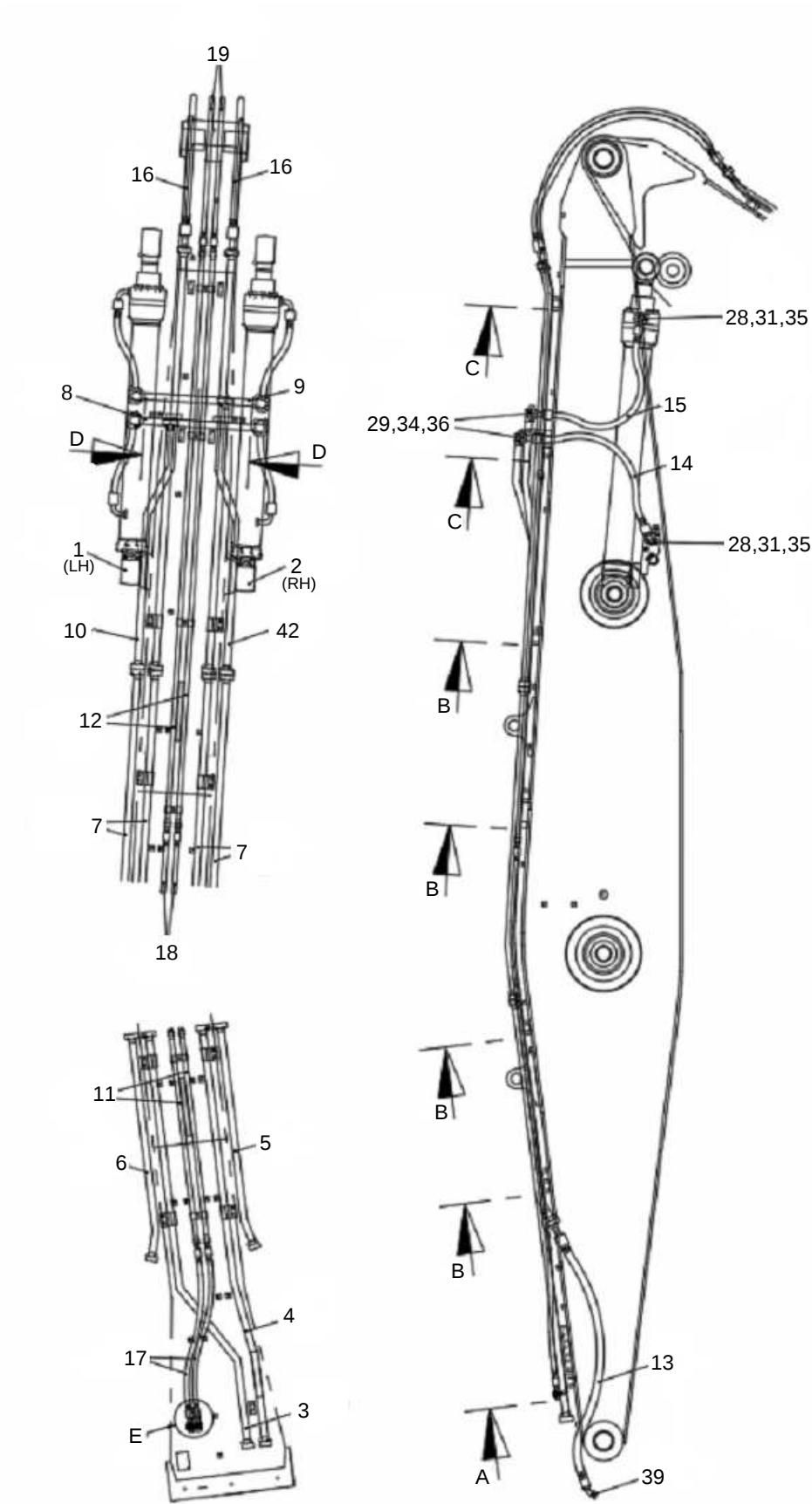
ARM ASSEMBLY



ARM ASSEMBLY

HW250AMH

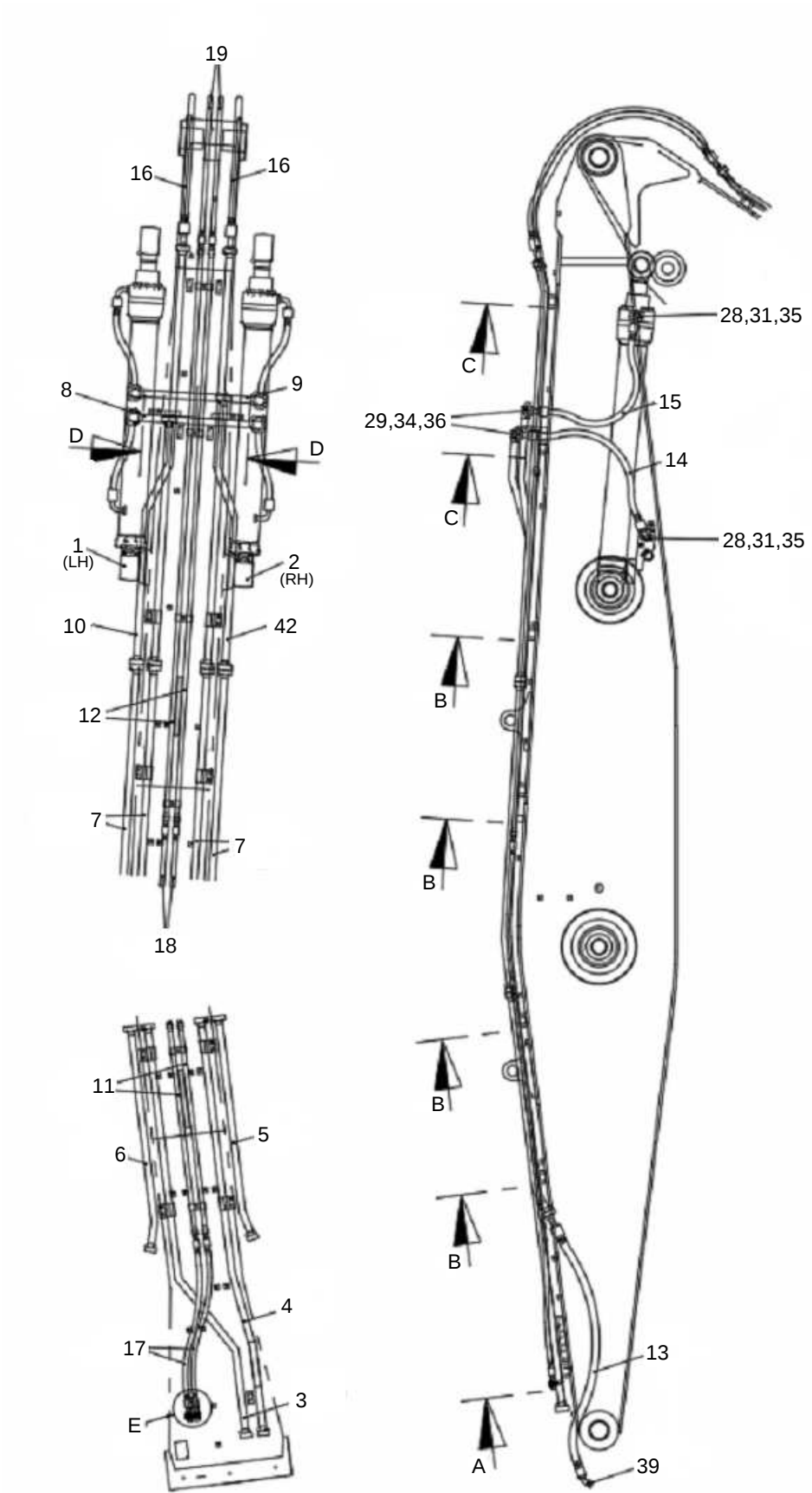
ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
* 1 1-1 2 3	XKDA-00984 XKDA-00985 XKDA-00986 XKDA-00987 XKDA-00972	ARM ASSY . ARM .. BUSHING . PIN-JOINT . PIN	1 1 2 1 1			
4 5 6 7 8	XKDA-00988 XKDA-00989 XKDA-00974 XKDA-00975 XKDA-00990	. PIN . SHIM-1.0 . SHIM-1.0 . SHIM-1.0 . SHIM-1.0	1 2 2 2 4			
10 11 12 13 14	XKDA-00120 XKDA-00978 XKDA-00979 XKDA-00991 XKDA-00992	. SEAL-DUST . STOPPER . BOLT-HEX . NUT-HEX . BOLT-HEX	2 2 2 6 1			
15 16 17 18 19	XKDA-00048 XKDA-00993 XKDA-00994 XKDA-00995 XKDA-00996	. WASHER-SPRING . BOLT-HEX . COVER . BAR . PLATE-STOPPER	18 18 2 3 1			
20 21	XKDA-00997 XKDA-00048	. BOLT-HEX . WASHER-SPRING	2 2			



BOOM PIPING (1/2)

HW250AMH

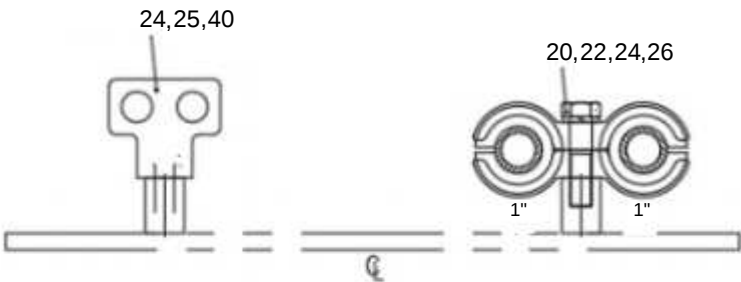
ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
* 1 2 3 4	XKDA-01629 XKDA-01630 XKDA-01631 XKDA-01001 XKDA-01002	PIPING ASSY-BOOM . CYLINDER-ARM LH . CYLINDER-ARM RH . PIPE . PIPE	1 1 1 1 1			
5 6 7 8 9	XKDA-01003 XKDA-01632 XKDA-01005 XKDA-01006 XKDA-01007	. PIPE . PIPE . PIPE . PIPE . PIPE	1 1 4 1 1			
10 11 12 13 14	XKDA-01008 XKDA-01009 XKDA-01010 XKDA-01011 XKDA-01012	. PIPE . PIPE . PIPE . HOSE . HOSE	1 2 2 2 2			L=1460 L=1010
15 16 17 18 19	XKDA-01013 XKDA-01014 XKDA-01015 XKDA-01016 XKDA-01017	. HOSE . HOSE . HOSE . HOSE . HOSE	2 2 2 2 2			L=1040 L=1590 L=930 L=810 L=1750
20 21 22 23 24	XKDA-00328 XKDA-00781 XKDA-01018 XKDA-00035 XKDA-00048	. PAD-RUBBER . CLAMP . CLAMP . CLAMP-PIPE . WASHER-SPRING	26 16 18 6 42			
25 26 27 28 29	XKDA-00101 XKDA-00783 XKDA-01019 XKDA-01020 XKDA-00649	. BOLT-HEX . BOLT-HEX . BOLT-HEX . O-RING . O-RING	2 36 4 4 18			
30 31 32 33 34	XKDA-00336 XKDA-01021 XKDA-00053 XKDA-00074 XKDA-01022	. O-RING . BOLT-SOCKET . BOLT-SOCKET . BOLT-SOCKET . BOLT-SOCKET	12 16 24 32 16			
35 36 37 38 39	XKDA-01023 XKDA-00650 XKDA-00790 XKDA-00851 XKDA-00339	. FLANGE-SPLIT . FLANGE . FLANGE . ADAPTER . O-RING	8 8 12 2 2			



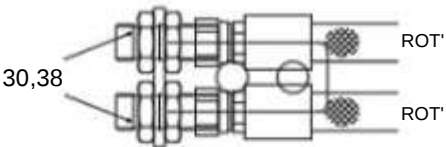
BOOM PIPING (1/2)

HW250AMH

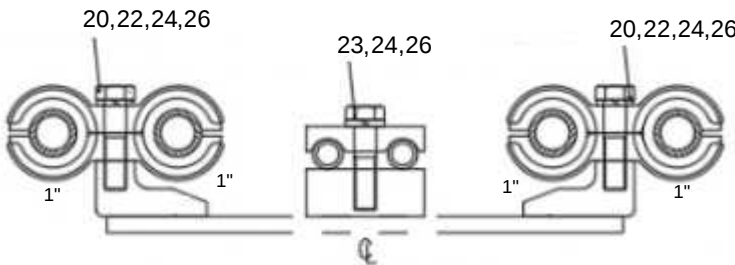
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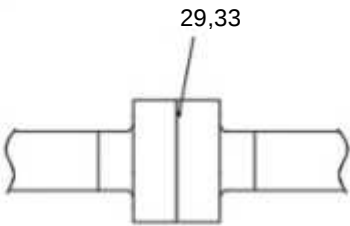
SECTION A



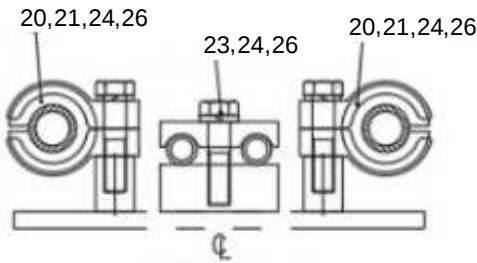
DETAIL E



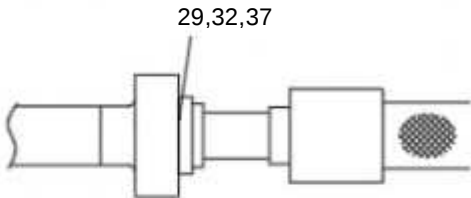
SECTION B



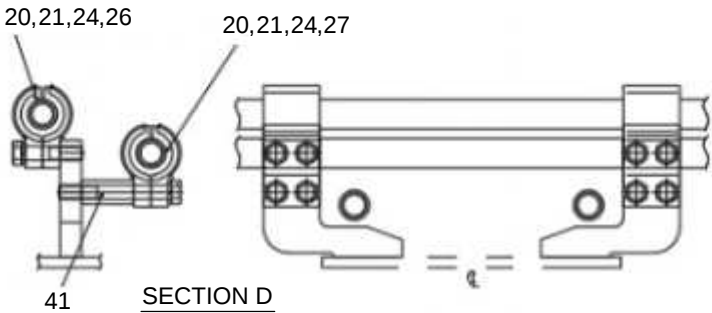
1" PIPE + 1" PIPE
61code



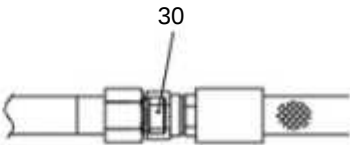
SECTION C



1" PIPE + 1" HOSE
61code



SECTION D

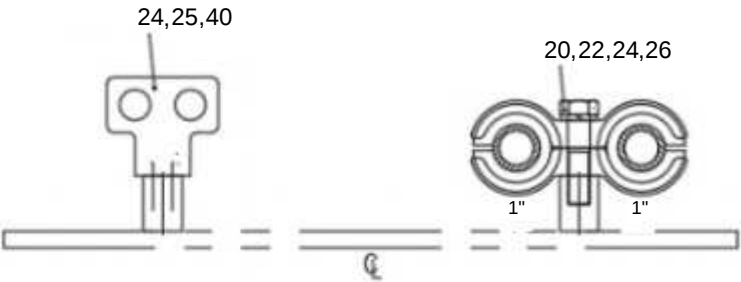


1/2" PIPE + 1/2" HOSE

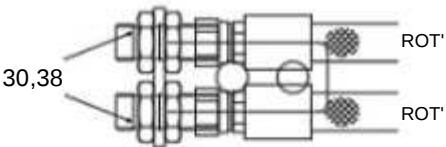
BOOM PIPING (2/2)

HW250AMH

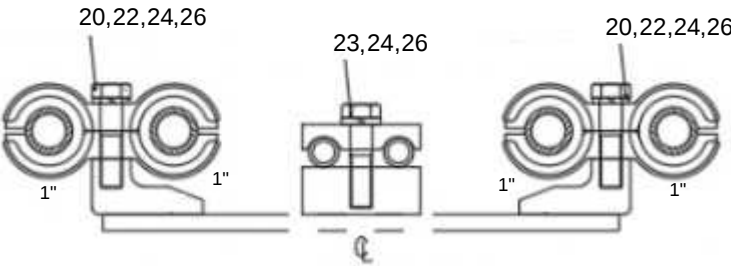
ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
* 1 2 3 4	XKDA-01629 XKDA-01630 XKDA-01631 XKDA-01001 XKDA-01002	PIPING ASSY-BOOM . CYLINDER-ARM LH . CYLINDER-ARM RH . PIPE . PIPE	1 1 1 1 1			
5 6 7 8 9	XKDA-01003 XKDA-01632 XKDA-01005 XKDA-01006 XKDA-01007	. PIPE . PIPE . PIPE . PIPE . PIPE	1 1 4 1 1			
10 11 12 13 14	XKDA-01008 XKDA-01009 XKDA-01010 XKDA-01011 XKDA-01012	. PIPE . PIPE . PIPE . HOSE . HOSE	1 2 2 2 2			L=1460 L=1010
15 16 17 18 19	XKDA-01013 XKDA-01014 XKDA-01015 XKDA-01016 XKDA-01017	. HOSE . HOSE . HOSE . HOSE . HOSE	2 2 2 2 2			L=1040 L=1590 L=930 L=810 L=1750
20 21 22 23 24	XKDA-00328 XKDA-00781 XKDA-01018 XKDA-00035 XKDA-00048	. PAD-RUBBER . CLAMP . CLAMP . CLAMP-PIPE . WASHER-SPRING	26 16 18 6 42			
25 26 27 28 29	XKDA-00101 XKDA-00783 XKDA-01019 XKDA-01020 XKDA-00649	. BOLT-HEX . BOLT-HEX . BOLT-HEX . O-RING . O-RING	2 36 4 4 18			
30 31 32 33 34	XKDA-00336 XKDA-01021 XKDA-00053 XKDA-00074 XKDA-01022	. O-RING . BOLT-SOCKET . BOLT-SOCKET . BOLT-SOCKET . BOLT-SOCKET	12 16 24 32 16			
35 36 37 38 39	XKDA-01023 XKDA-00650 XKDA-00790 XKDA-00851 XKDA-00339	. FLANGE-SPLIT . FLANGE . FLANGE . ADAPTER . O-RING	8 8 12 2 2			



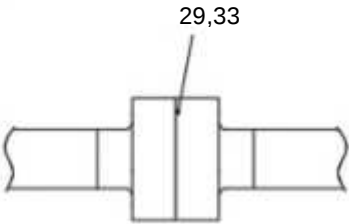
SECTION A



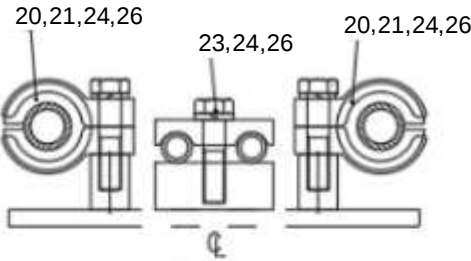
DETAIL E



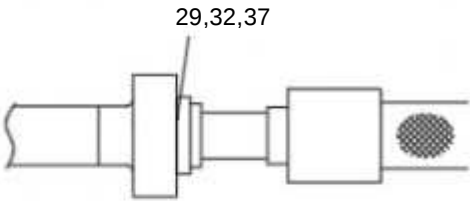
SECTION B



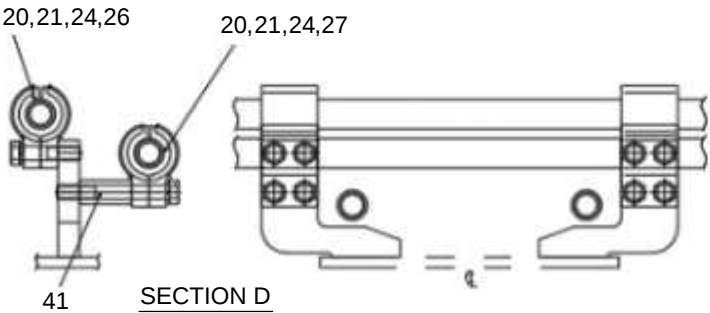
1" PIPE + 1" PIPE
61code



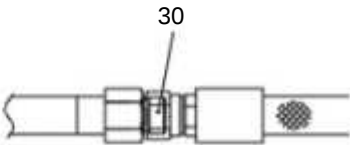
SECTION C



1" PIPE + 1" HOSE
61code



SECTION D

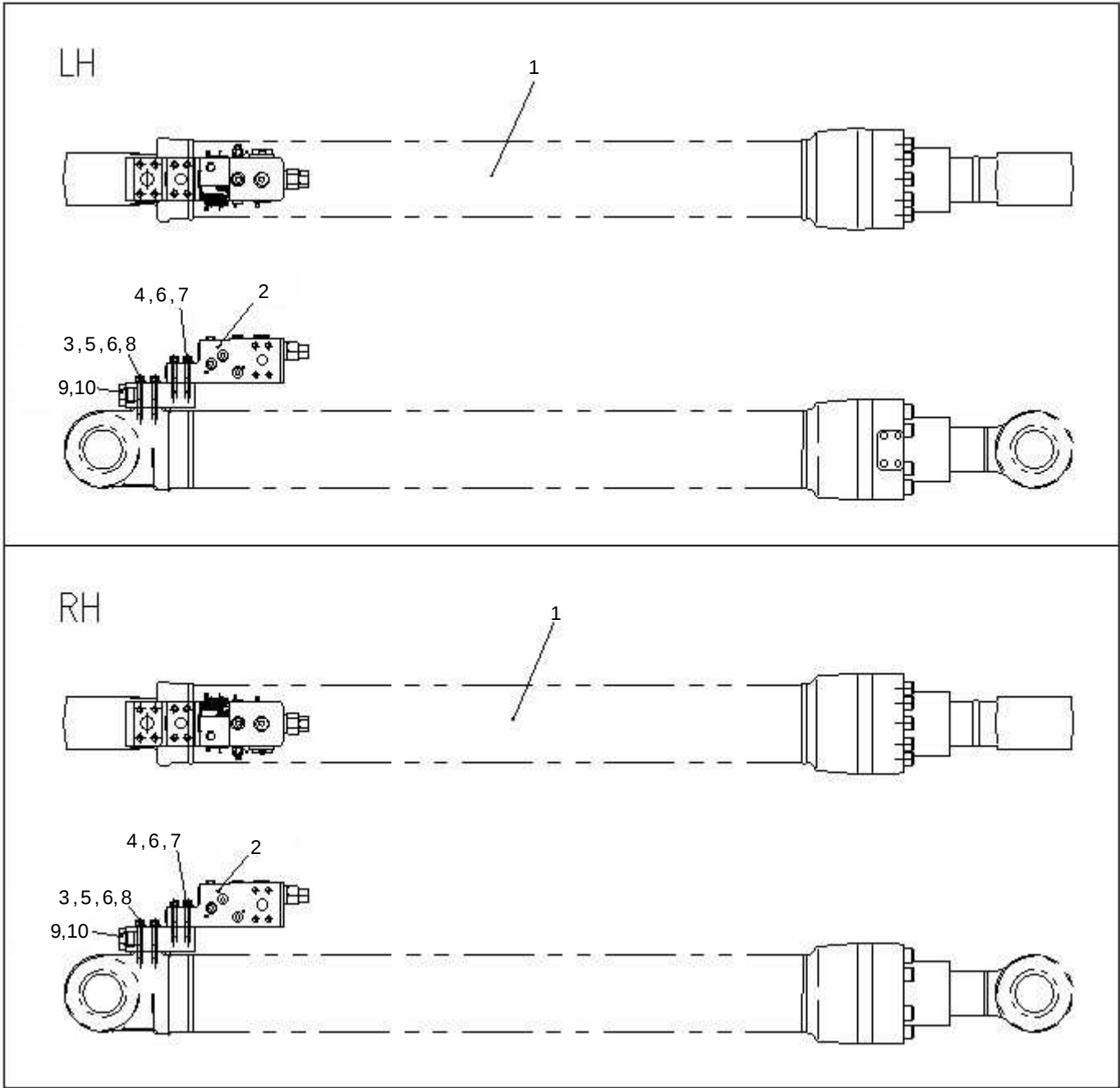


1/2" PIPE + 1/2" HOSE

BOOM PIPING (2/2)

HW250AMH

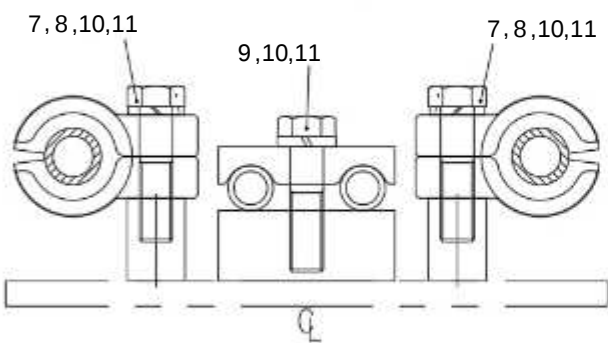
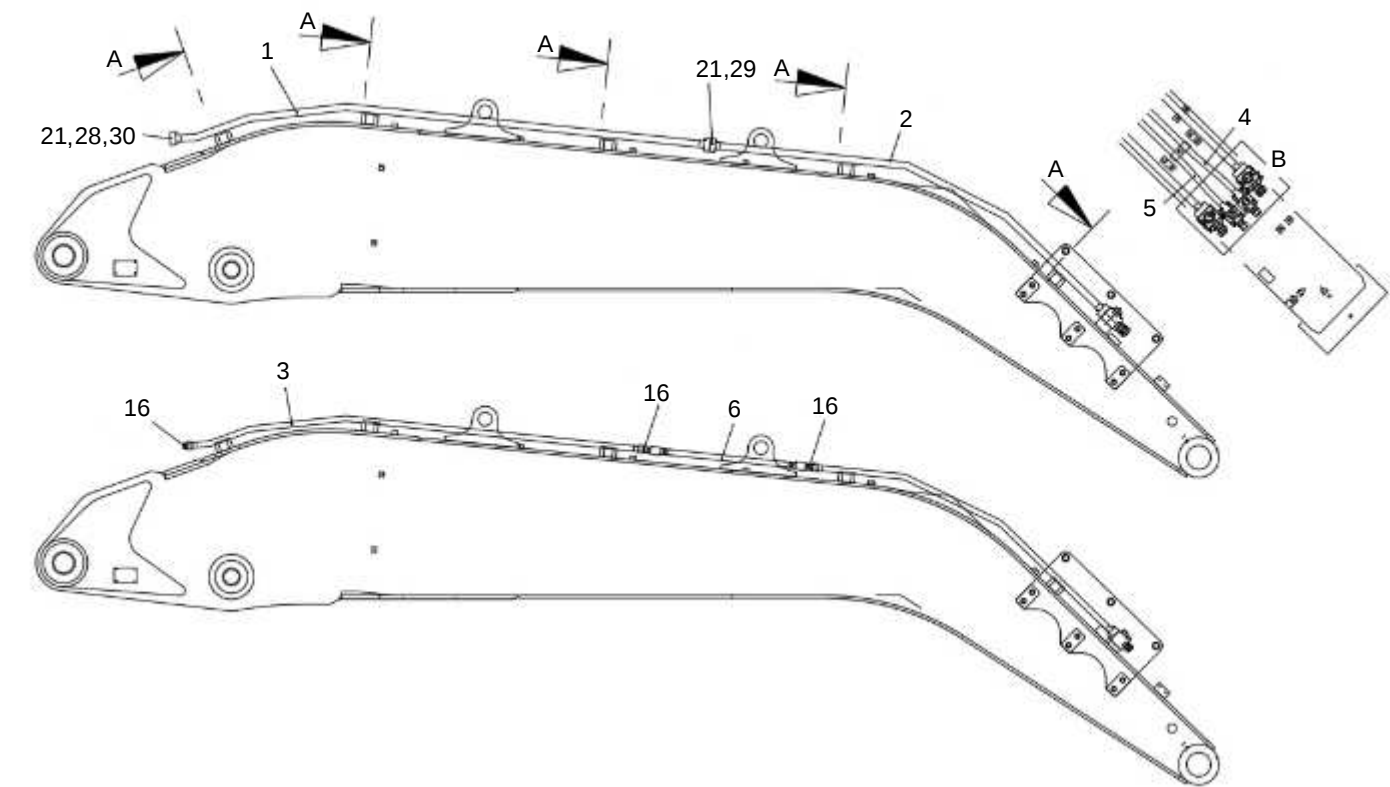
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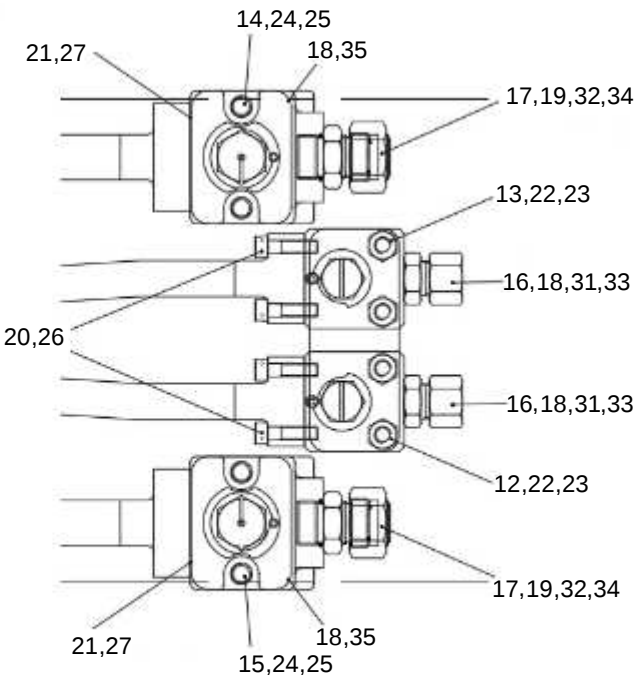
ARM CYLINDER

HW250AMH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
*1	XKDA-01630	CYLINDER-ARM LH	1			
*2	XKDA-01631	CYLINDER-ARM RH	1			
1	31K4-52150E	. CYLINDER ASSY-ARM	1			
2	XKDA-01660	. VALVE-SAFETY LOCK LH	1			
2	XKDA-01661	. VALVE-SAFETY LOCK RH	1			
3	XKDA-01633	. BLOCK	1			
4	XKDA-01028	. BOLT-SOCKET	4			
5	XKDA-01029	. BOLT-SOCKET	4			
6	XKDA-00050	. WASHER-SPRING	8			
7	XKDA-01020	. O-RING	1			
8	XKDA-00649	. O-RING	1			
9	XKDA-01030	. PLUG	1			
10	XKDA-00591	. O-RING	1			



SECTION A



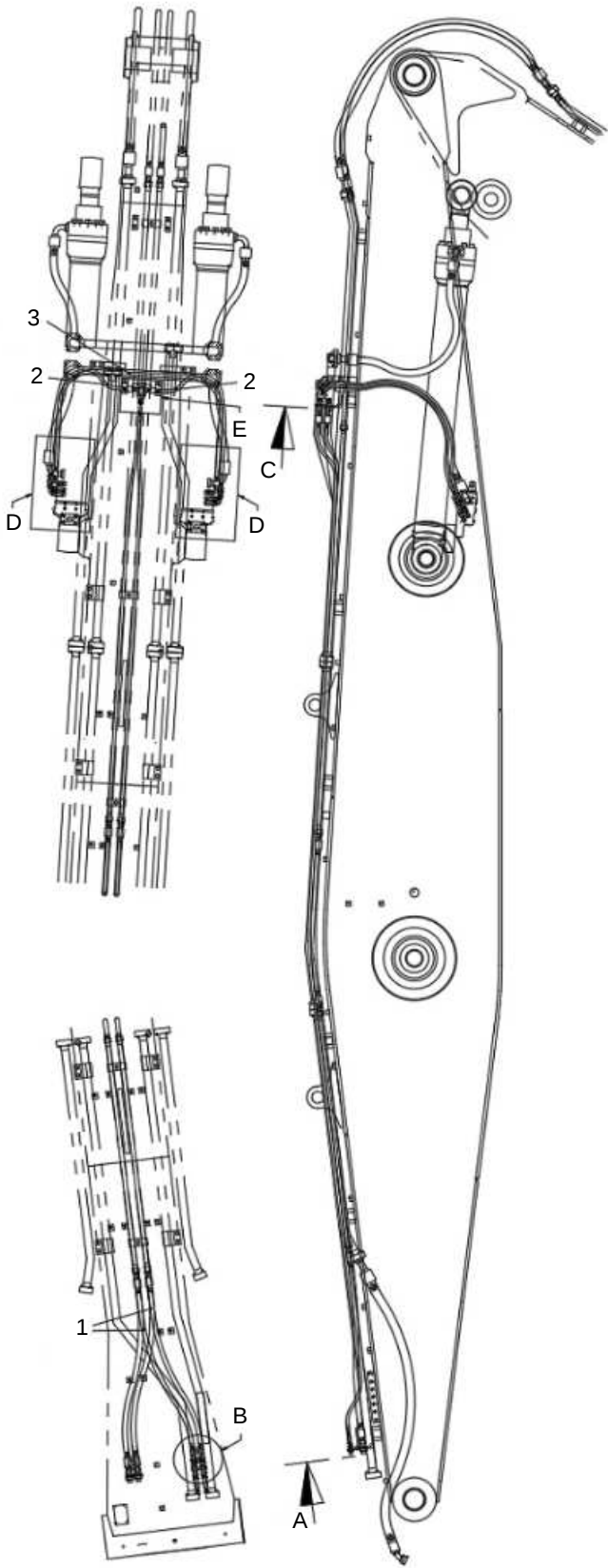
DETAIL B

ARM PIPING

HW250AMH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
*	XKDA-01031	PIPINGKIT-ARM	1			
1	XKDA-01032	. PIPE	2			
2	XKDA-01033	. PIPE	2			
3	XKDA-01034	. PIPE	2			
4	XKDA-01035	. PIPE	1			
5	XKDA-01036	. PIPE	1			L=680
6	XKDA-01037	. HOSE	2			
7	XKDA-01038	. SEAL-RUBBER	10			
8	XKDA-01039	. CLAMP-PIPE	20			
9	XKDA-00035	. CLAMP-PIPE	5			
10	XKDA-00048	. WASHER-SPRING	25			
11	XKDA-00783	. BOLT-HEX	25			
12	XKDA-00416	. VALVE-STOP RH	1			
13	XKDA-00389	. VALVE-STOP LH	1			
14	XKDA-01040	. VALVE-STOP LH	1			
15	XKDA-01041	. VALVE-STOP RH	1			
16	XKDA-00336	. O-RING	8			
17	XKDA-01042	. O-RING	2			
18	XKDA-00066	. O-RING	4			
19	XKDA-00591	. O-RING	2			
20	XKDA-00814	. O-RING	2			
21	XKDA-01020	. O-RING	6			
22	XKDA-00050	. WASHER-SPRING	4			
23	XKDA-00811	. BOLT-HEX	4			
24	XKDA-00049	. WASHER-SPRING	4			
25	XKDA-00812	. BOLT-SOCKET	4			
26	XKDA-00813	. BOLT-SOCKET	8			
27	XKDA-01021	. BOLT-SOCKET	8			
28	XKDA-00053	. BOLT-SOCKET	8			
29	XKDA-01043	. BOLT-SOCKET	8			
30	XKDA-01044	. FLANGE-SPLIT	4			5000psi
31	XKDA-01045	. ADAPTER	2			
32	XKDA-01046	. ADAPTER	2			
33	XKDA-01047	. CAP	2			
34	XKDA-01048	. CAP	2			
35	KBST-00154	. PLUG	2			

ARM LOCK VALVE PIPING (1/2)

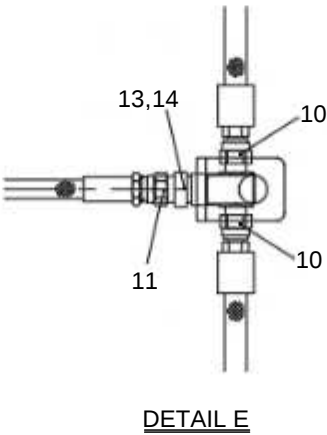
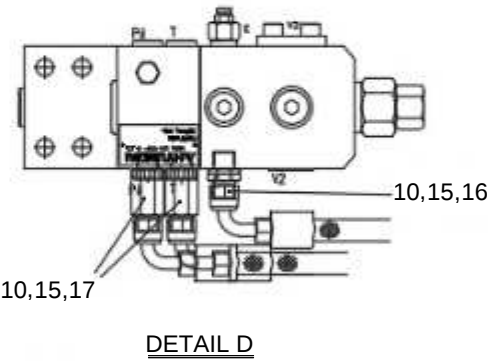
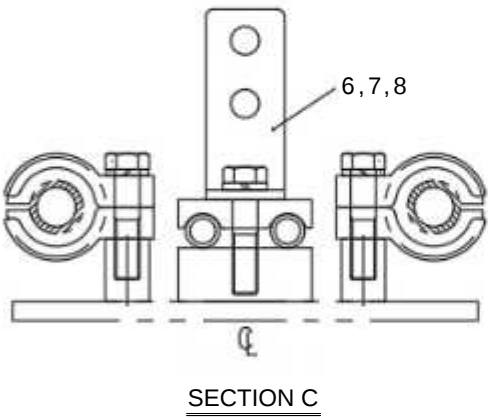
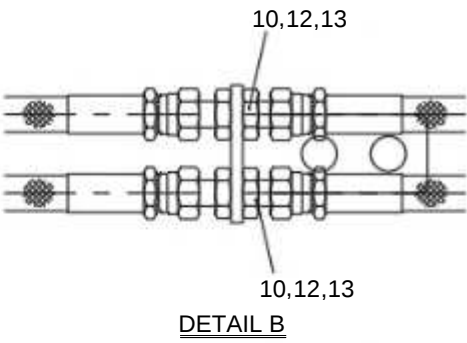
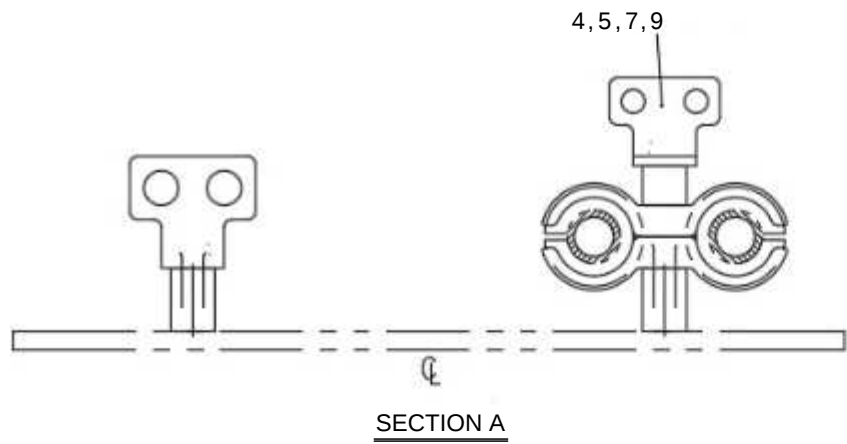


ARM LOCK VAVLE PIPING (1/2)

HW250AMH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
*	XKDA-01050	PIPINGKIT-ARM LOCK VALVE	1			
1	XKDA-01051	. HOSE	2			L=4850
2	XKDA-01052	. HOSE	4			L=1550
3	XKDA-01053	. HOSE	1			L=3050
4	XKDA-01054	. SPACER	1			
5	XKDA-01055	. BRACKET	1			
6	XKDA-01056	. BRACKET	1			
7	XKDA-00048	. WASHER-SPRING	3			
8	XKDA-00043	. BOLT-DACRO	1			
9	XKDA-00044	. BOLT-DACRO	2			
10	XKDA-01057	. O-RING	14			
11	XKDA-00335	. O-RING	2			
12	XKDA-01058	. ADAPTER	2			
13	XKDA-01059	. NUT	6			
14	XKDA-01060	. TEE	2			
15	XKAG-00135	. O-RING	6			
16	XKDA-01061	. ADAPTER	2			
17	XKDA-01062	. ADAPTER-LONG	4			

ARM LOCK VALVE PIPING (2/2)

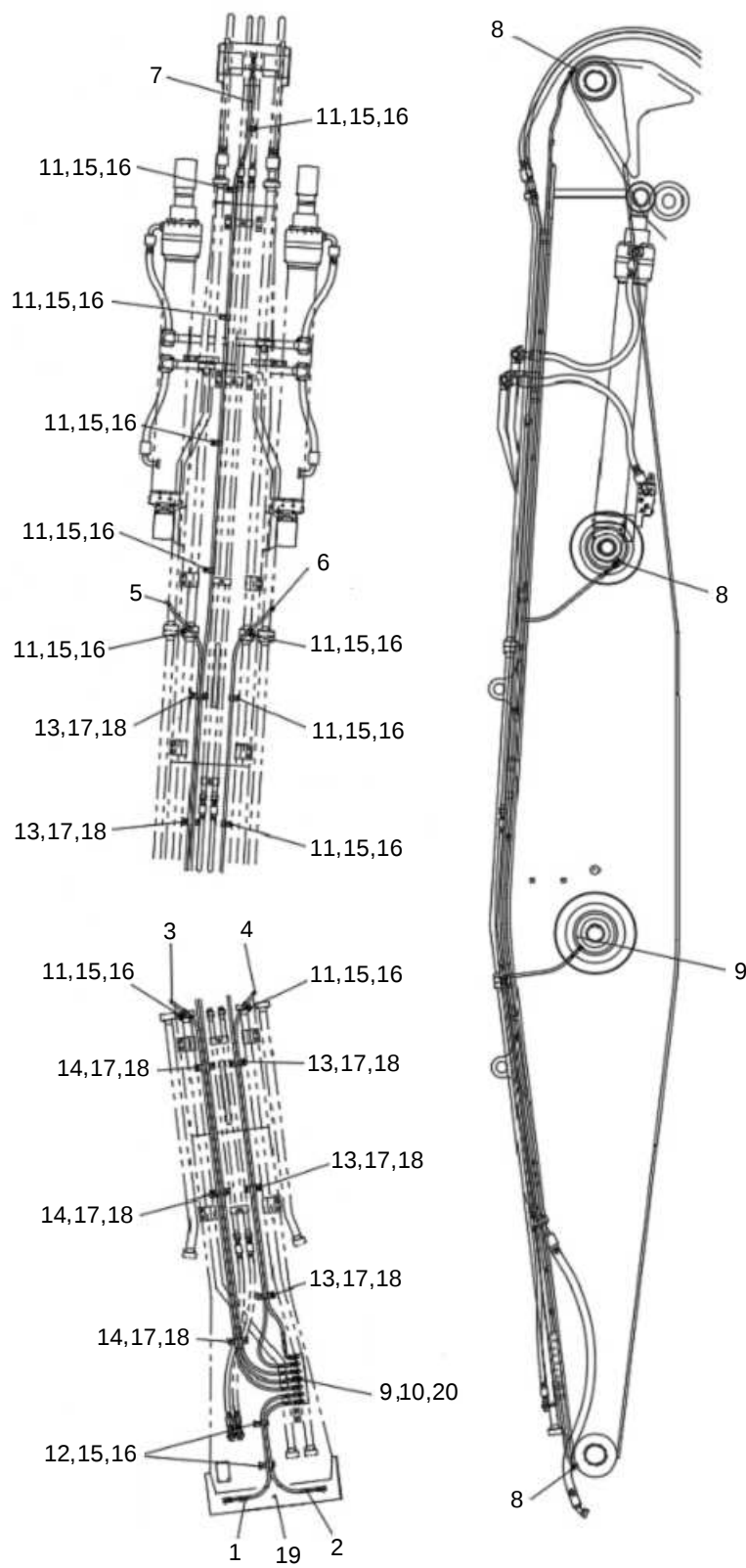


ARM LOCK VAVLE PIPING (2/2)

HW250AMH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
*	XKDA-01050	PIPINGKIT-ARM LOCK VALVE	1			
1	XKDA-01051	. HOSE	2			L=4850
2	XKDA-01052	. HOSE	4			L=1550
3	XKDA-01053	. HOSE	1			L=3050
4	XKDA-01054	. SPACER	1			
5	XKDA-01055	. BRACKET	1			
6	XKDA-01056	. BRACKET	1			
7	XKDA-00048	. WASHER-SPRING	3			
8	XKDA-00043	. BOLT-DACRO	1			
9	XKDA-00044	. BOLT-DACRO	2			
10	XKDA-01057	. O-RING	14			
11	XKDA-00335	. O-RING	2			
12	XKDA-01058	. ADAPTER	2			
13	XKDA-01059	. NUT	6			
14	XKDA-01060	. TEE	2			
15	XKAG-00135	. O-RING	6			
16	XKDA-01061	. ADAPTER	2			
17	XKDA-01062	. ADAPTER-LONG	4			

BOOM GREASE PIPING

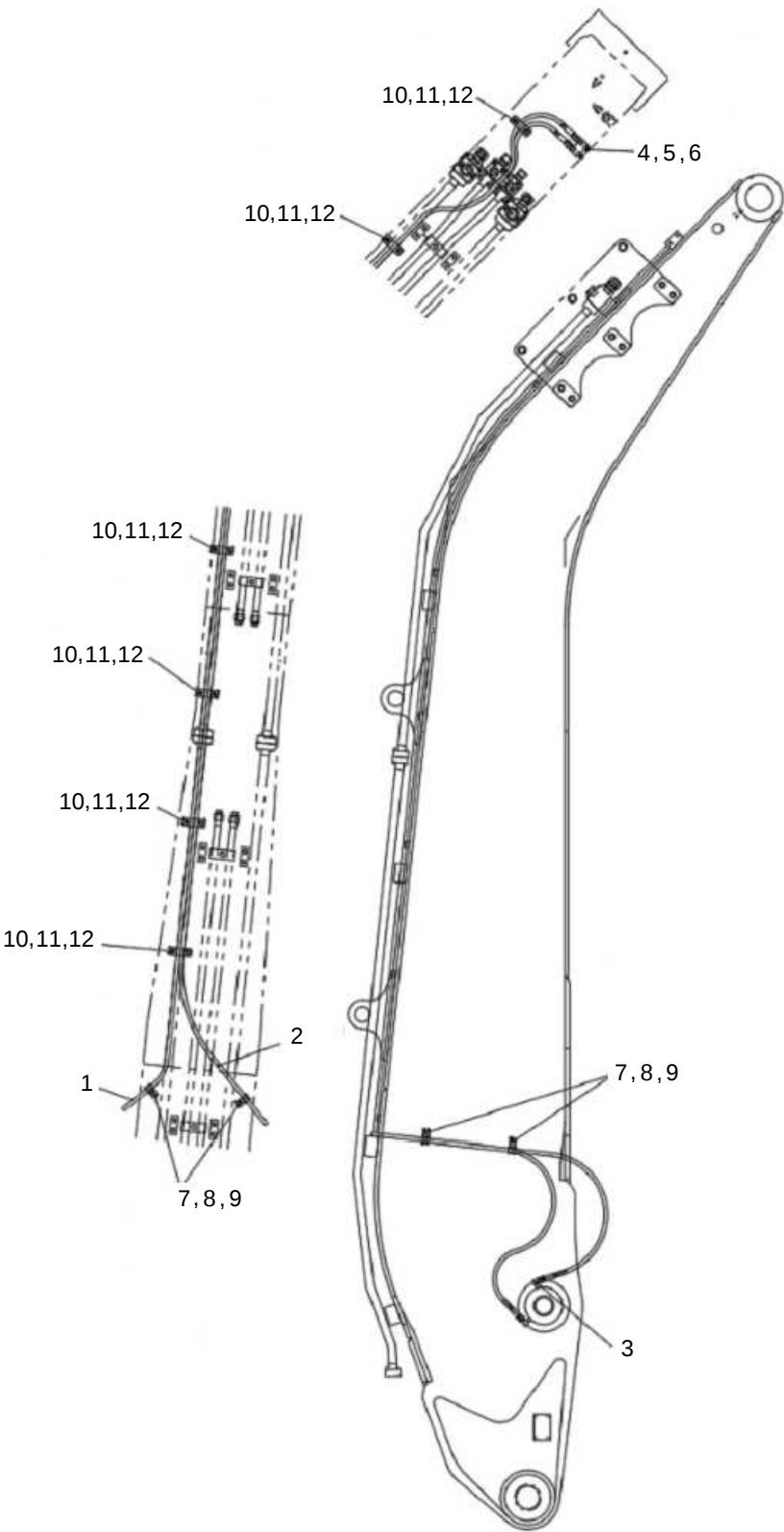


BOOM GREASE PIPING

HW250AMH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
*	XKDA-01063	PIPINGKIT-BOOM GREASE	1			
1	XKDA-01064	. HOSE	1			L=780
2	XKDA-01065	. HOSE	1			L=740
3	XKDA-01066	. HOSE	1			L=2490
4	XKDA-01067	. HOSE	1			L=2180
5	XKDA-01068	. HOSE	1			L=4290
6	XKDA-01069	. HOSE	1			L=4170
7	XKDA-01070	. HOSE	1			L=6300
8	XKDA-00159	. ELBOW	5			
9	XKDA-00160	. ADAPTER	9			
10	XKDA-00124	. FITTING-GREASE	7			
11	XKDA-00411	. CLIP	11			
12	XKDA-00412	. CLIP	2			
13	XKDA-01071	. PLATE	5			
14	XKDA-01072	. PLATE	3			
15	XKDA-00841	. BOLT-HEX	13			
16	XKDA-00171	. WASHER-SPRING	13			
17	XKDA-00090	. BOLT-HEX	16			
18	XKDA-00050	. WASHER-SPRING	16			
19	XKDA-00161	. SCREW-SET	1			
20	XKDA-01073	. CAP-GREASE NIPPLE	7			

ARM GREASE PIPING



ARM GREASE PIPING

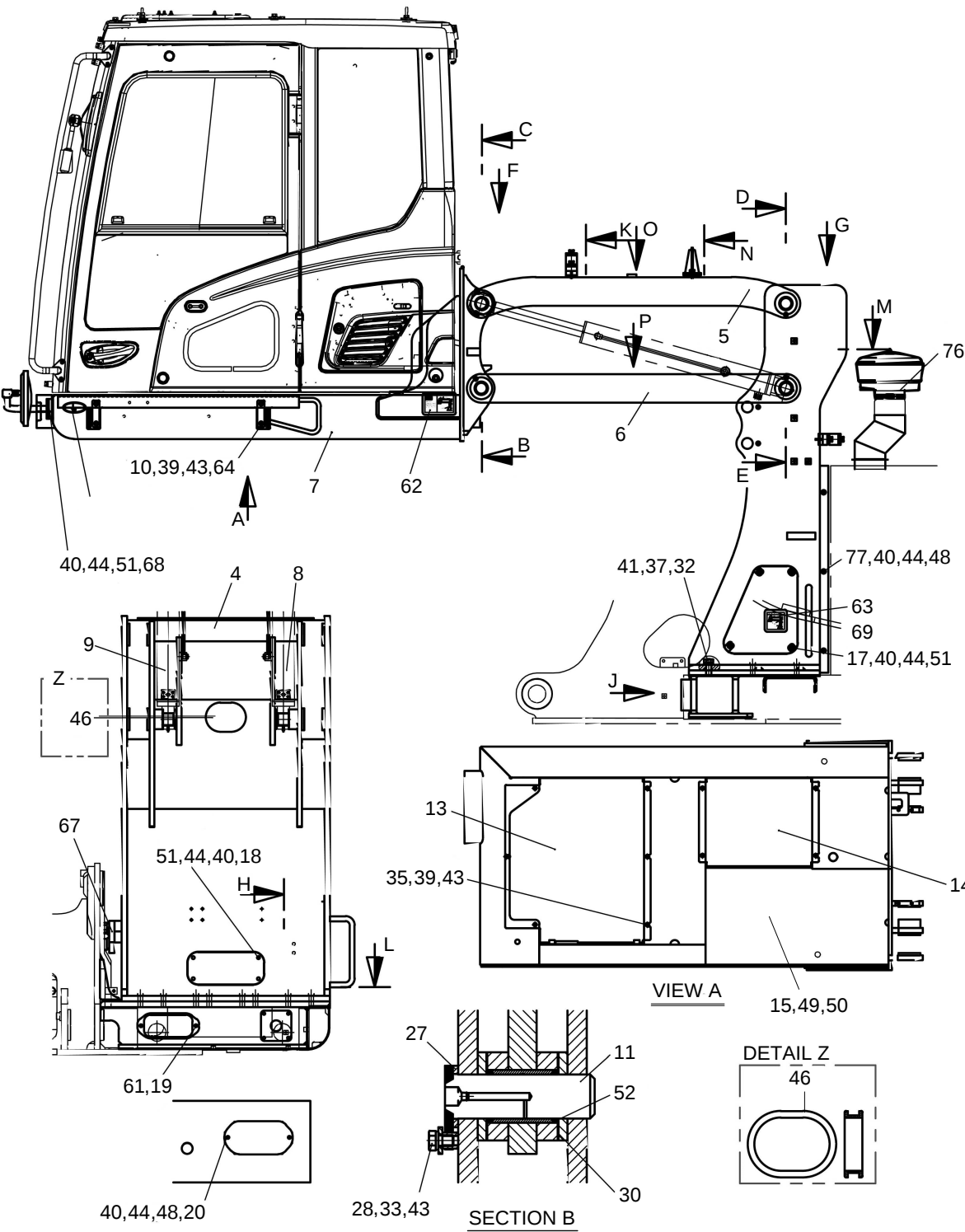
HW250AMH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
*	XKDA-01074	PIPINGKIT-ARM GREASE	1			
1	XKDA-01075	. HOSE	1			L=4950
2	XKDA-01076	. HOSE	1			L=5100
3	XKDA-00159	. ELBOW	2			
4	XKDA-00160	. ADAPTER	2			
5	XKDA-00124	. FITTING-GREASE	2			
6	XKDA-01073	. CAP-GREASE NIPPLE	2			
7	XKDA-00411	. CLIP	6			
8	XKDA-00841	. BOLT-HEX	6			
9	XKDA-00171	. WASHER-SPRING	6			
10	XKDA-01071	. PLATE	6			
11	XKDA-00090	. BOLT-HEX	12			
12	XKDA-00050	. WASHER-SPRING	12			

CABIN ELEVATING ASSEMBLY (1/3)

HW250AMH

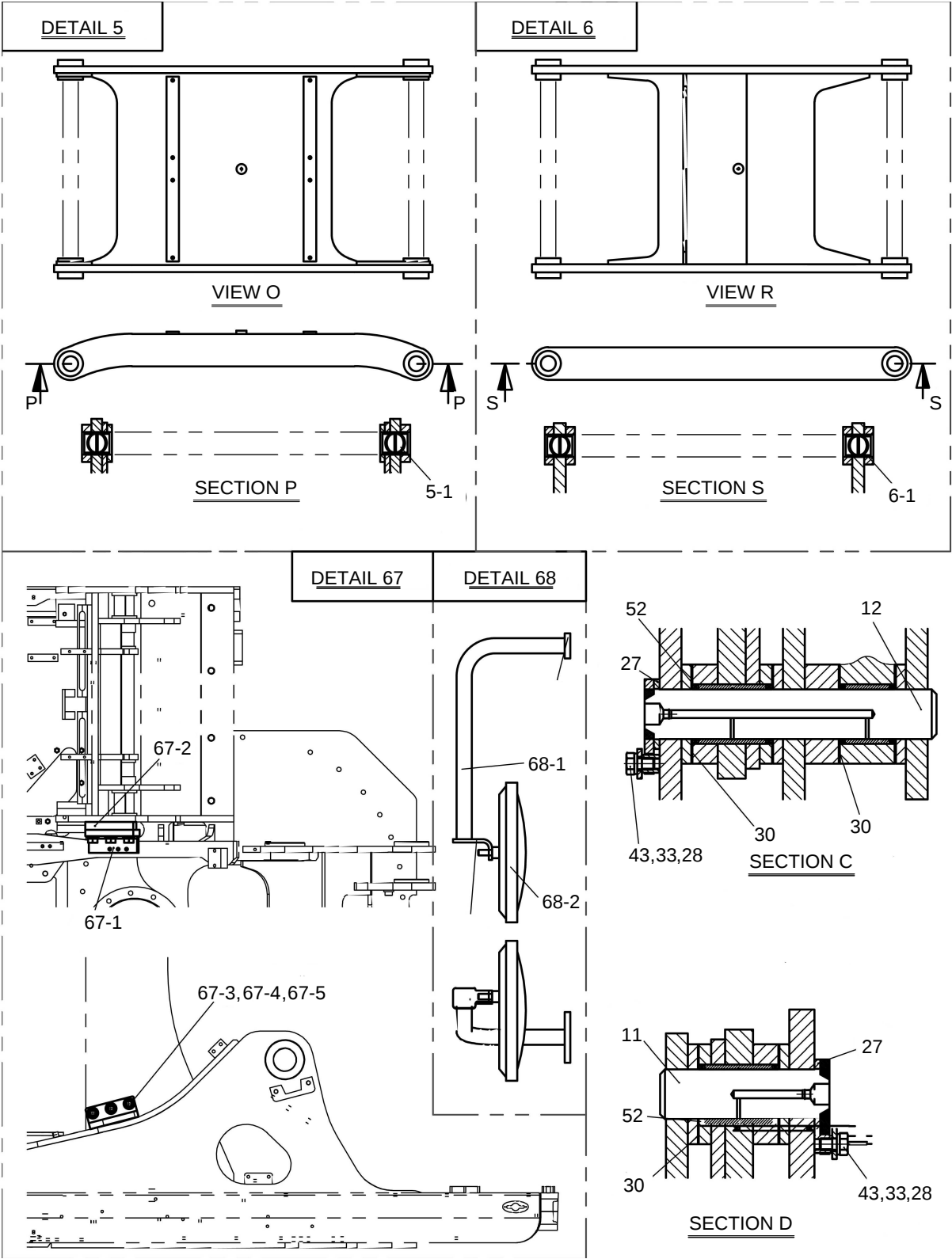
ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
* 4 5 5-1 6	XKDA-01634 XKDA-01635 XKDA-01636 XKDA-01080 XKDA-01637	CABIN ASSY-ELEVATING . SUPPORT-FRAME SEAT . LINK-CABIN .. BUSHING . LINK-GUIDE	1 1 1 4 1			L=4950 L=5100
6-1 7 8 9 10	XKDA-01080 XKDA-01638 XKDA-01612 XKDA-01614 XKDA-01204	.. BUSHING . FRAME-BED . CYLINDER-ELEVATED CABIN . CYLINDER-ELEVATED CABIN . STEP ASSY-SIDE	4 1 1 1 1			
11 12 13 14 15	XKDA-01205 XKDA-01206 XKDA-01639 XKDA-01208 XKDA-01640	. PIN-GREASE . PIN-GREASE . COVER-UNDER 1 . COVER-UNDER 2 . COVER-UNDER 3	6 4 1 1 1			
17 18 19 20 22	XKDA-01209 XKDA-01210 XKDA-01618 XKDA-01212 XKDA-01213	. COVER-SIDE 1 . COVER-FRONT . STOPPER . COVER-SUPPORT . BRACKET-PVG	1 1 1 1 1			
23 24 25 27 28	XKDA-01214 XKDA-01215 XKDA-01216 XKDA-01641 XKDA-01218	. PIPE-STOPPER . BRACKET-STOPPER . STOPPER . SPACER-PIN . WASHER	2 2 2 10 10			
29 30 32 33 35	XKDA-01219 XKDA-01220 XKDA-01082 XKDA-01083 XKDA-00746	. SHIM-1.0 . SHIM-1.0 . BOLT-HEX . BOLT-HEX . BOLT-HEX	14 20 12 10 20			
36 37 38 39 40	XKDA-00783 XKDA-01084 XKDA-00699 XKDA-00692 XKDA-00697	. BOLT-HEX . WASHER-PLAIN . WASHER-PLAIN . WASHER-PLAIN . WASHER-PLAIN	2 12 2 36 29			
41 42 43 44 45	XKDA-01085 XKDA-00048 XKDA-00049 XKDA-00050 XKDA-00124	. WASHER-SPRING . WASHER-SPRING . WASHER-SPRING . WASHER-SPRING . FITTING-GREASE	12 2 46 29 2			



CABIN ELEVATING ASSEMBLY (1/3)

HW250AMH

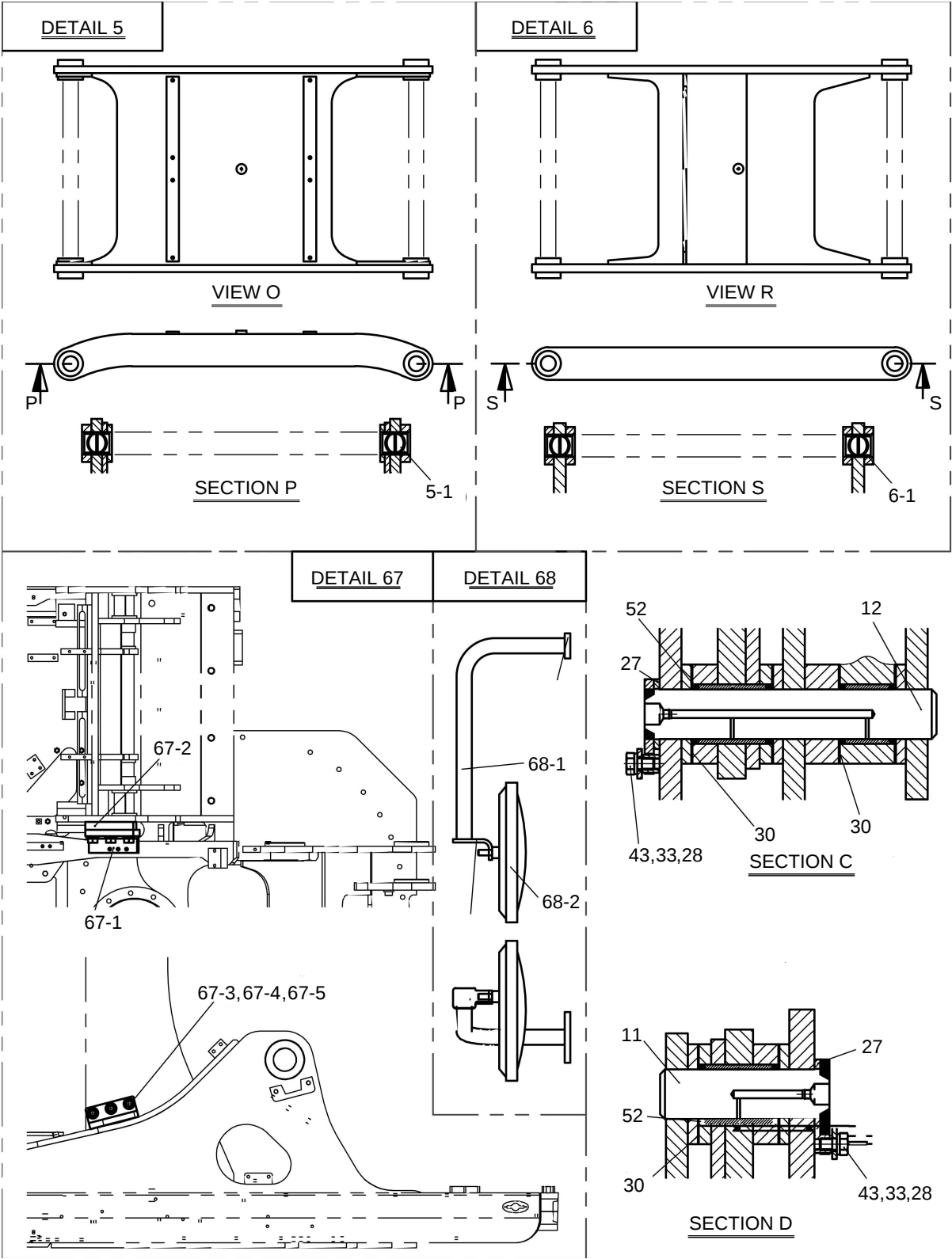
ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
46	XKDA-01086	. GROMMET	1			
47	XKDA-01087	. SPACER-STOPPER	4			
48	XKDA-01088	. BOLT-HEX	11			
49	XKDA-00841	. BOLT-HEX	4			
50	XKDA-00171	. WASHER-SPRING	4			
51	XKDA-00900	. BOLT-HEX	18			
52	XKDA-00449	. SEAL-DUST	24			
53	XKDA-01642	. BRACKET-CONNECTOR	1			
54	XKDA-01092	. BOLT-HEX	4			
55	XKDA-01093	. BOLT-HEX	6			
57	XKDA-01094	. PLATE	2			
58	XKDA-01095	. PLATE	2			
59	XKDA-01096	. PLATE	2			
60	XKDA-01097	. PAD	8			
61	XKDA-01643	. BOLT-SOCKET	2			
62	XKDA-01098	. STICKER	1			
63	XKDA-01099	. STICKER	1			
64	XKDA-00091	. BOLT-HEX	6			
65	XKDA-01100	. PAD	8			
66	XKDA-01101	. PLATE-PIN STRAGE	1			
67	XKDA-01644	. BRACKET-ANTI VIBRATION	1			
67-1	XKDA-01645	.. PLATE ASSY	1			
67-2	XKDA-01104	.. SEAT-SCREW	1			
67-3	XKDA-01082	.. BOLT-HEX	3			
67-4	XKDA-01085	.. WASHER-SPRING	3			
67-5	XKDA-01084	.. WASHER-PLAIN	3			
68	XKDA-01646	. BRACKET-MIRROR	1			
68-1	XKDA-01106	.. MIRROR	1			
68-2	XKDA-01107	.. PIPE	1			
69	XKDA-01647	. COVER ASSY	1			
70	XKDA-01110	. BRACKET ASSY	2			
71	XKDA-01648	. BRACKET-CONNECTOR	1			
72	XKDA-01112	. PLATE ASSY	1			
73	XKDA-01113	. PLATE	1			
74	XKDA-01114	. BOLT-HEX	1			
75	XKDA-01115	. BOLT-HEX	1			
76	XKDA-01116	. CONNECTOR-PRE CLEANER	1			
77	XKDA-01649	. COVER ASSY	1			
*1	XKDA-01613	. SEAL KIT	1			
*2	XKDA-01615	. SEAL KIT	1			



CABIN ELEVATING ASSEMBLY (2/3)

HW250AMH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
* 4 5 5-1 6	XKDA-01634 XKDA-01635 XKDA-01636 XKDA-01080 XKDA-01637	CABIN ASSY-ELEVATING . SUPPORT-FRAME SEAT . LINK-CABIN .. BUSHING . LINK-GUIDE	1 1 1 4 1			
6-1 7 8 9 10	XKDA-01080 XKDA-01638 XKDA-01612 XKDA-01614 XKDA-01204	.. BUSHING . FRAME-BED . CYLINDER-ELEVATED CABIN . CYLINDER-ELEVATED CABIN . STEP ASSY-SIDE	4 1 1 1 1			
11 12 13 14 15	XKDA-01205 XKDA-01206 XKDA-01639 XKDA-01208 XKDA-01640	. PIN-GREASE . PIN-GREASE . COVER-UNDER 1 . COVER-UNDER 2 . COVER-UNDER 3	6 4 1 1 1			
17 18 19 20 22	XKDA-01209 XKDA-01210 XKDA-01618 XKDA-01212 XKDA-01213	. COVER-SIDE 1 . COVER-FRONT . STOPPER . COVER-SUPPORT . BRACKET-PVG	1 1 1 1 1			
23 24 25 27 28	XKDA-01214 XKDA-01215 XKDA-01216 XKDA-01641 XKDA-01218	. PIPE-STOPPER . BRACKET-STOPPER . STOPPER . SPACER-PIN . WASHER	2 2 2 10 10			
29 30 32 33 35	XKDA-01219 XKDA-01220 XKDA-01082 XKDA-01083 XKDA-00746	. SHIM-1.0 . SHIM-1.0 . BOLT-HEX . BOLT-HEX . BOLT-HEX	14 20 12 10 20			
36 37 38 39 40	XKDA-00783 XKDA-01084 XKDA-00699 XKDA-00692 XKDA-00697	. BOLT-HEX . WASHER-PLAIN . WASHER-PLAIN . WASHER-PLAIN . WASHER-PLAIN	2 12 2 36 29			
41 42 43 44 45	XKDA-01085 XKDA-00048 XKDA-00049 XKDA-00050 XKDA-00124	. WASHER-SPRING . WASHER-SPRING . WASHER-SPRING . WASHER-SPRING . FITTING-GREASE	12 2 46 29 2			

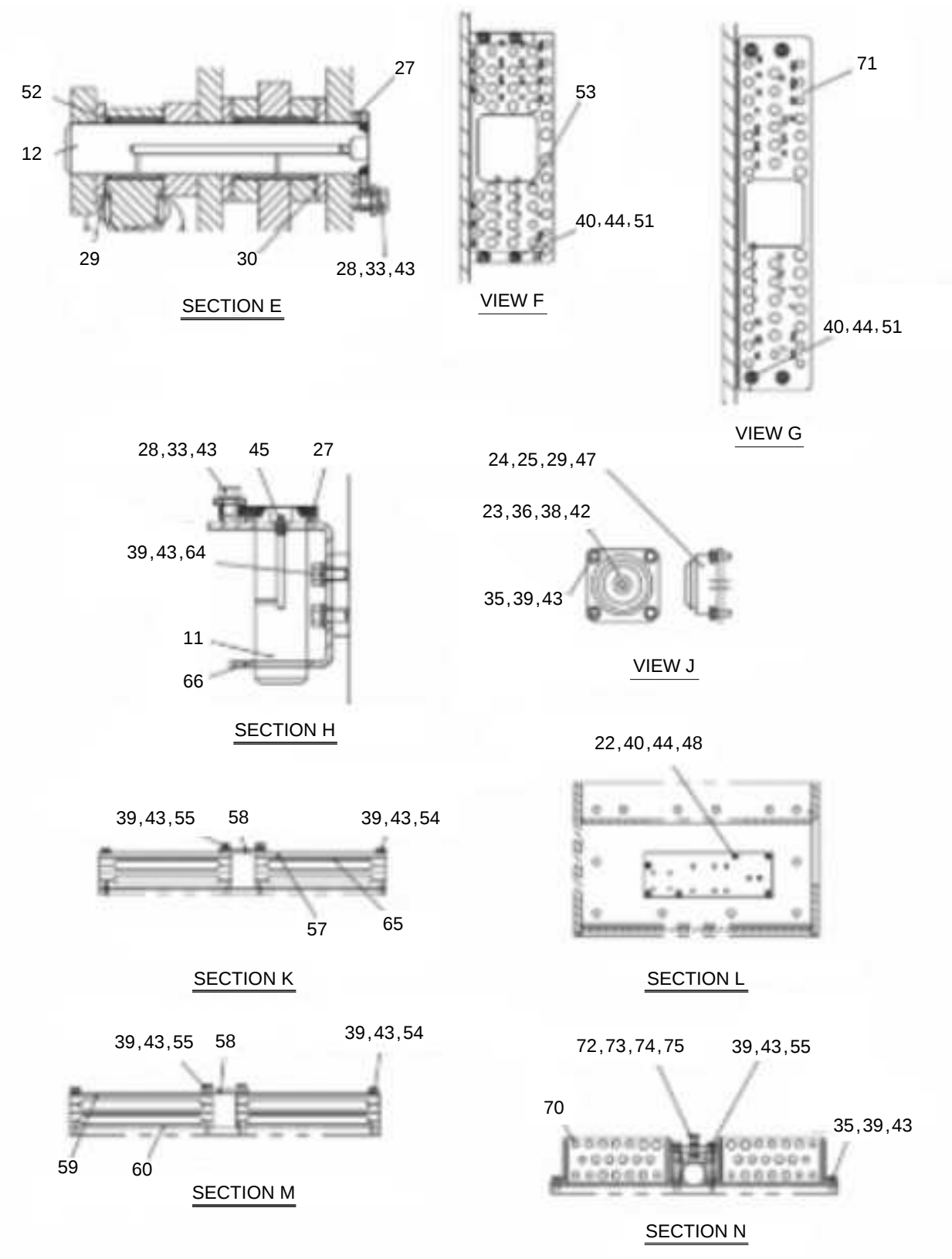


CABIN ELEVATING ASSEMBLY (2/3)

HW250AMH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
46	XKDA- 01086	. GROMMET	1			
47	XKDA- 01087	. SPACER-STOPPER	4			
48	XKDA- 01088	. BOLT-HEX	11			
49	XKDA- 00841	. BOLT-HEX	4			
50	XKDA- 00171	. WASHER-SPRING	4			
51	XKDA- 00900	. BOLT-HEX	18			
52	XKDA- 00449	. SEAL-DUST	24			
53	XKDA- 01642	. BRACKET-CONNECTOR	1			
54	XKDA- 01092	. BOLT-HEX	4			
55	XKDA- 01093	. BOLT-HEX	6			
57	XKDA- 01094	. PLATE	2			
58	XKDA- 01095	. PLATE	2			
59	XKDA- 01096	. PLATE	2			
60	XKDA- 01097	. PAD	8			
61	XKDA- 01643	. BOLT-SOCKET	2			
62	XKDA- 01098	. STICKER	1			
63	XKDA- 01099	. STICKER	1			
64	XKDA- 00091	. BOLT-HEX	6			
65	XKDA- 01100	. PAD	8			
66	XKDA- 01101	. PLATE-PIN STRAGE	1			
67	XKDA- 01644	. BRACKET-ANTI VIBRATION	1			
67-1	XKDA- 01645	.. PLATE ASSY	1			
67-2	XKDA- 01104	.. SEAT-SCREW	1			
67-3	XKDA- 01082	.. BOLT-HEX	3			
67-4	XKDA- 01085	.. WASHER-SPRING	3			
67-5	XKDA- 01084	.. WASHER-PLAIN	3			
68	XKDA- 01646	. BRACKET-MIRROR	1			
68-1	XKDA- 01106	.. MIRROR	1			
68-2	XKDA- 01107	.. PIPE	1			
69	XKDA- 01647	. COVER ASSY	1			
70	XKDA- 01110	. BRACKET ASSY	2			
71	XKDA- 01648	. BRACKET-CONNECTOR	1			
72	XKDA- 01112	. PLATE ASSY	1			
73	XKDA- 01113	. PLATE	1			
74	XKDA- 01114	. BOLT-HEX	1			
75	XKDA- 01115	. BOLT-HEX	1			
76	XKDA- 01116	. CONNECTOR-PRE CLEANER	1			
77	XKDA- 01649	. COVER ASSY	1			
*1	XKDA- 01613	. SEAL KIT	1			
*2	XKDA- 01615	. SEAL KIT	1			

CABIN ELEVATING ASSEMBLY (3/3)

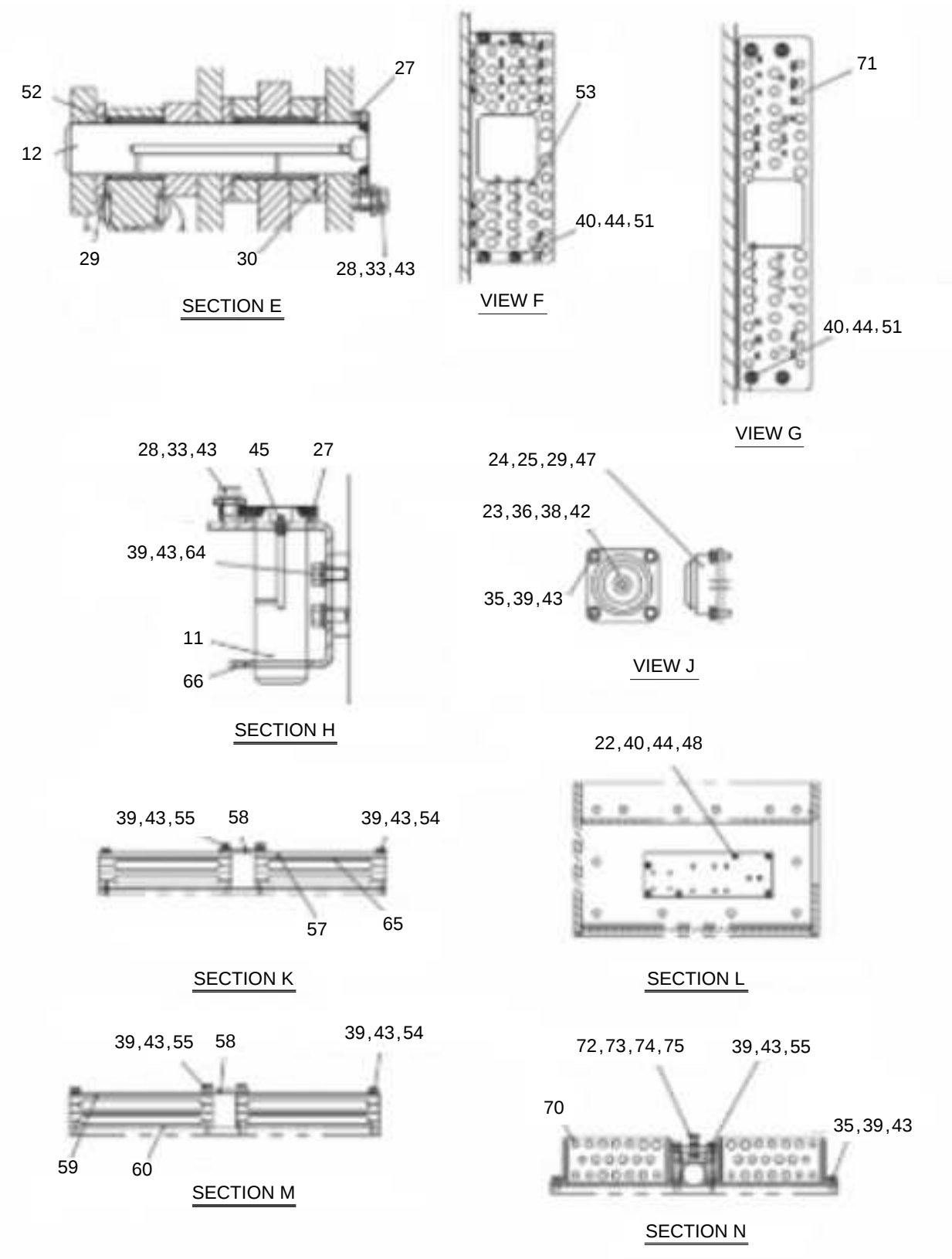


CABIN ELEVATING ASSEMBLY (3/3)

HW250AMH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
* 4 5 5-1 6	XKDA-01634 XKDA-01635 XKDA-01636 XKDA-01080 XKDA-01637	CABIN ASSY-ELEVATING . SUPPORT-FRAME SEAT . LINK-CABIN .. BUSHING . LINK-GUIDE	1 1 1 4 1			
6-1 7 8 9 10	XKDA-01080 XKDA-01638 XKDA-01612 XKDA-01614 XKDA-01204	.. BUSHING . FRAME-BED . CYLINDER-ELEVATED CABIN . CYLINDER-ELEVATED CABIN . STEP ASSY-SIDE	4 1 1 1 1			
11 12 13 14 15	XKDA-01205 XKDA-01206 XKDA-01639 XKDA-01208 XKDA-01640	. PIN-GREASE . PIN-GREASE . COVER-UNDER 1 . COVER-UNDER 2 . COVER-UNDER 3	6 4 1 1 1			
17 18 19 20 22	XKDA-01209 XKDA-01210 XKDA-01618 XKDA-01212 XKDA-01213	. COVER-SIDE 1 . COVER-FRONT . STOPPER . COVER-SUPPORT . BRACKET-PVG	1 1 1 1 1			
23 24 25 27 28	XKDA-01214 XKDA-01215 XKDA-01216 XKDA-01641 XKDA-01218	. PIPE-STOPPER . BRACKET-STOPPER . STOPPER . SPACER-PIN . WASHER	2 2 2 10 10			
29 30 32 33 35	XKDA-01219 XKDA-01220 XKDA-01082 XKDA-01083 XKDA-00746	. SHIM-1.0 . SHIM-1.0 . BOLT-HEX . BOLT-HEX . BOLT-HEX	14 20 12 10 20			
36 37 38 39 40	XKDA-00783 XKDA-01084 XKDA-00699 XKDA-00692 XKDA-00697	. BOLT-HEX . WASHER-PLAIN . WASHER-PLAIN . WASHER-PLAIN . WASHER-PLAIN	2 12 2 36 29			
41 42 43 44 45	XKDA-01085 XKDA-00048 XKDA-00049 XKDA-00050 XKDA-00124	. WASHER-SPRING . WASHER-SPRING . WASHER-SPRING . WASHER-SPRING . FITTING-GREASE	12 2 46 29 2			

CABIN ELEVATING ASSEMBLY (3/3)



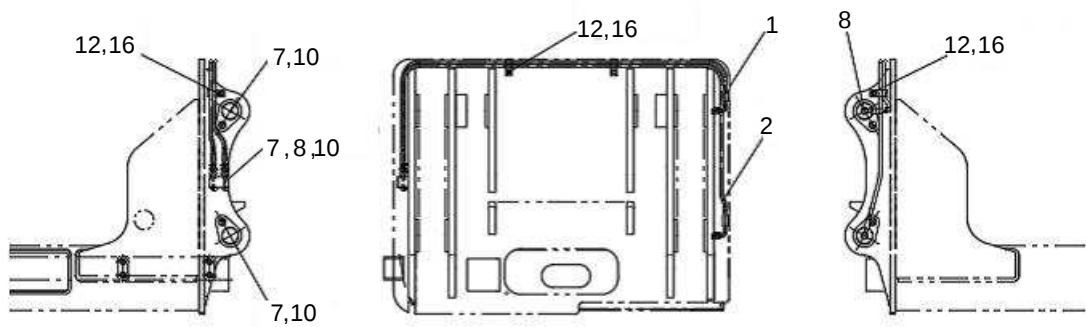
CABIN ELEVATING ASSEMBLY (3/3)

HW250AMH

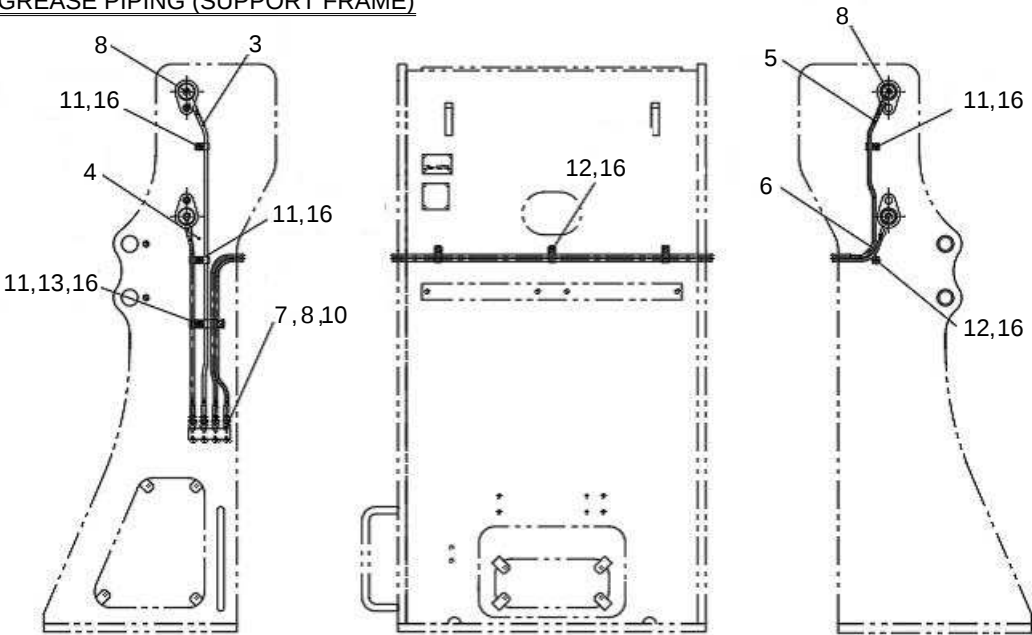
ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
46	XKDA- 01086	. GROMMET	1			
47	XKDA- 01087	. SPACER-STOPPER	4			
48	XKDA- 01088	. BOLT-HEX	11			
49	XKDA- 00841	. BOLT-HEX	4			
50	XKDA- 00171	. WASHER-SPRING	4			
51	XKDA- 00900	. BOLT-HEX	18			
52	XKDA- 00449	. SEAL-DUST	24			
53	XKDA- 01642	. BRACKET-CONNECTOR	1			
54	XKDA- 01092	. BOLT-HEX	4			
55	XKDA- 01093	. BOLT-HEX	6			
57	XKDA- 01094	. PLATE	2			
58	XKDA- 01095	. PLATE	2			
59	XKDA- 01096	. PLATE	2			
60	XKDA- 01097	. PAD	8			
61	XKDA- 01643	. BOLT-SOCKET	2			
62	XKDA- 01098	. STICKER	1			
63	XKDA- 01099	. STICKER	1			
64	XKDA- 00091	. BOLT-HEX	6			
65	XKDA- 01100	. PAD	8			
66	XKDA- 01101	. PLATE-PIN STRAGE	1			
67	XKDA- 01644	. BRACKET-ANTI VIBRATION	1			
67-1	XKDA- 01645	.. PLATE ASSY	1			
67-2	XKDA- 01104	.. SEAT-SCREW	1			
67-3	XKDA- 01082	.. BOLT-HEX	3			
67-4	XKDA- 01085	.. WASHER-SPRING	3			
67-5	XKDA- 01084	.. WASHER-PLAIN	3			
68	XKDA- 01646	. BRACKET-MIRROR	1			
68-1	XKDA- 01106	.. MIRROR	1			
68-2	XKDA- 01107	.. PIPE	1			
69	XKDA- 01647	. COVER ASSY	1			
70	XKDA- 01110	. BRACKET ASSY	2			
71	XKDA- 01648	. BRACKET-CONNECTOR	1			
72	XKDA- 01112	. PLATE ASSY	1			
73	XKDA- 01113	. PLATE	1			
74	XKDA- 01114	. BOLT-HEX	1			
75	XKDA- 01115	. BOLT-HEX	1			
76	XKDA- 01116	. CONNECTOR-PRE CLEANER	1			
77	XKDA- 01649	. COVER ASSY	1			
*1	XKDA- 01613	. SEAL KIT	1			
*2	XKDA- 01615	. SEAL KIT	1			

GREASE PIPING (ELEVATED CABIN)

1. GREASE PIPING (BED FRAME)



2. GREASE PIPING (SUPPORT FRAME)

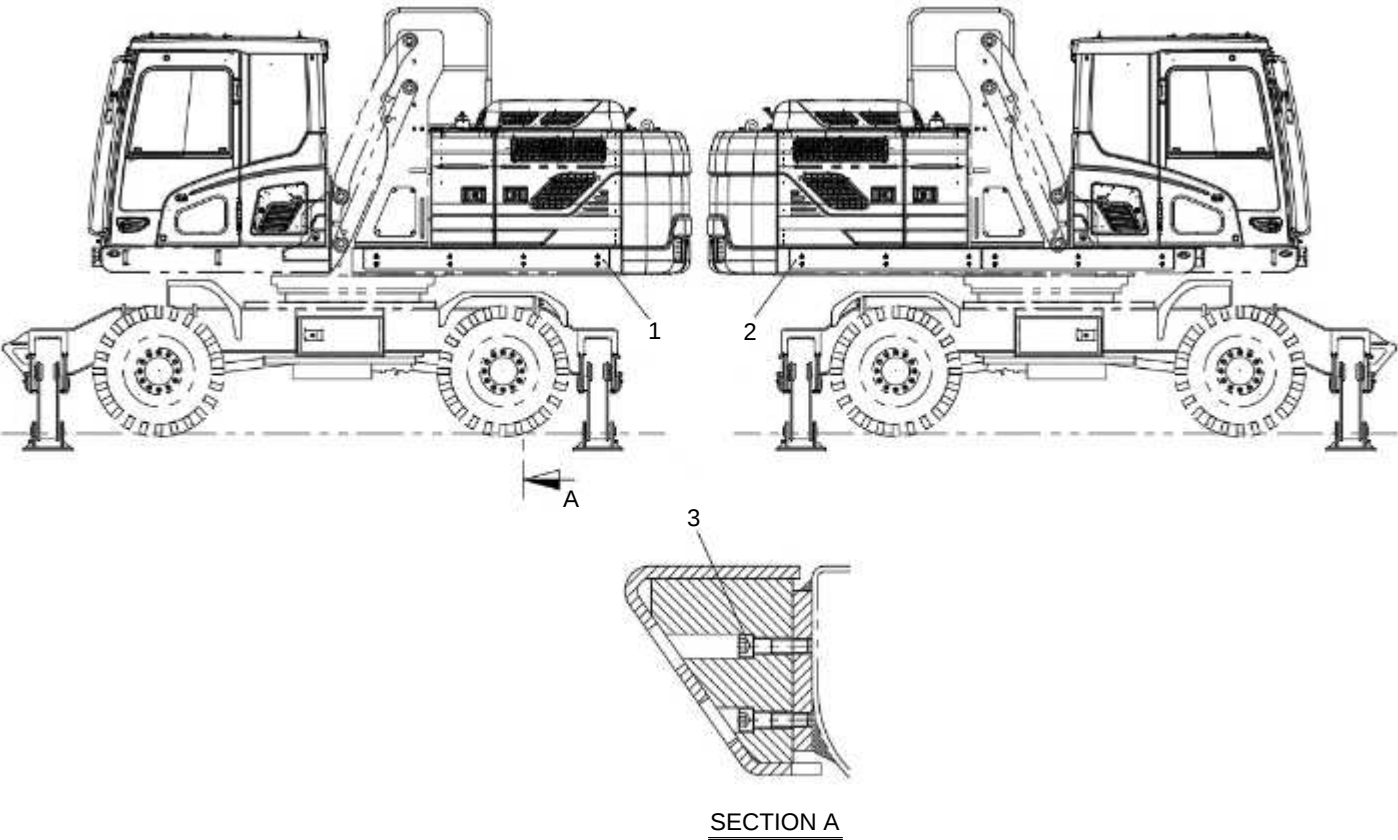


GREASE PIPING (ELEVATED CABIN)

HW250AMH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
*	XKDA-01623	PIPING GREASE CABIN LINK	1			
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			
16	XKDA-01624	. BOLT-HEX	13			

SIDE BUMPER ASSEMBLY

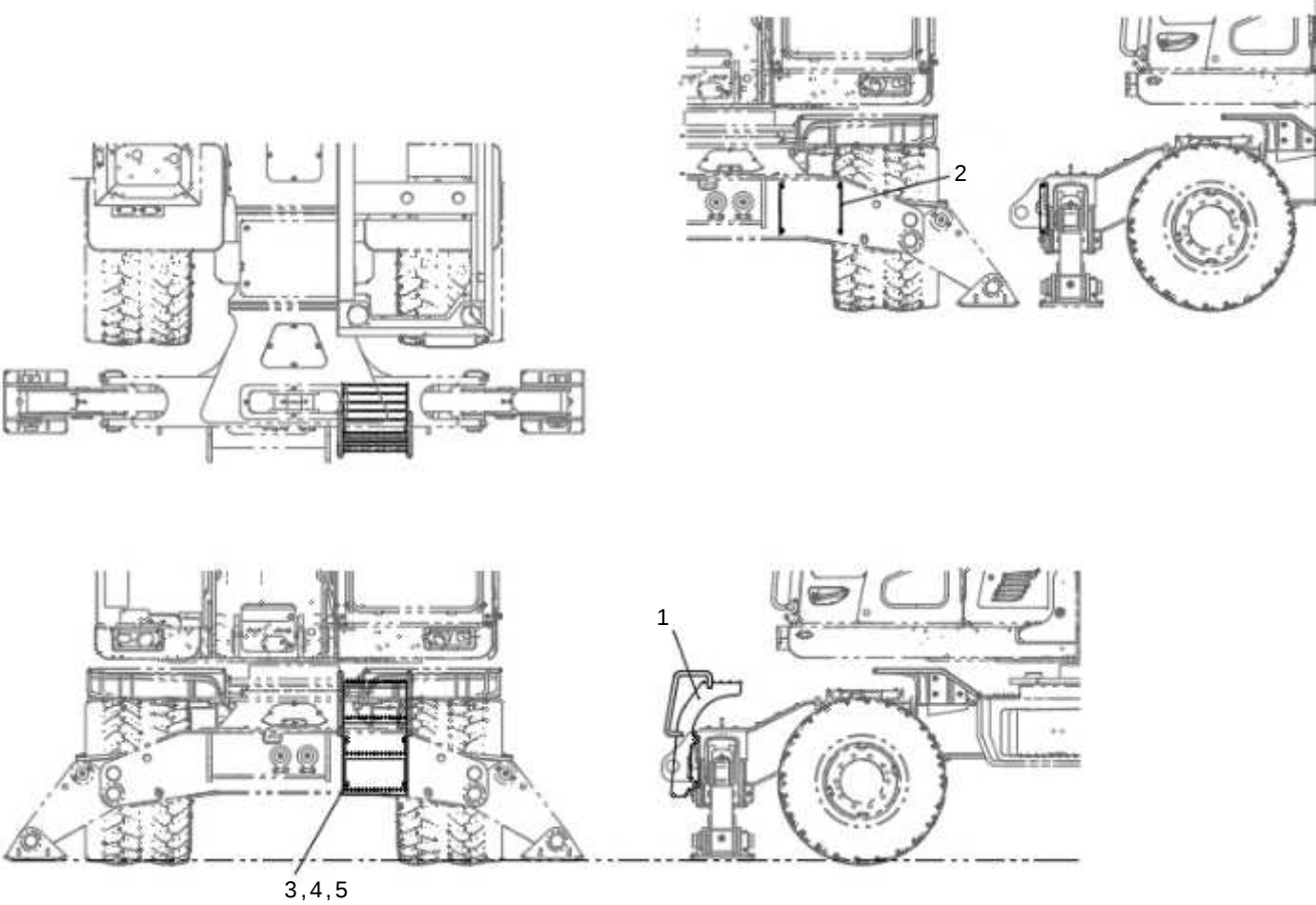


SIDE BUMPER ASSEMBLY

HW250AMH

[illegible]

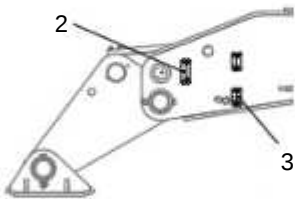
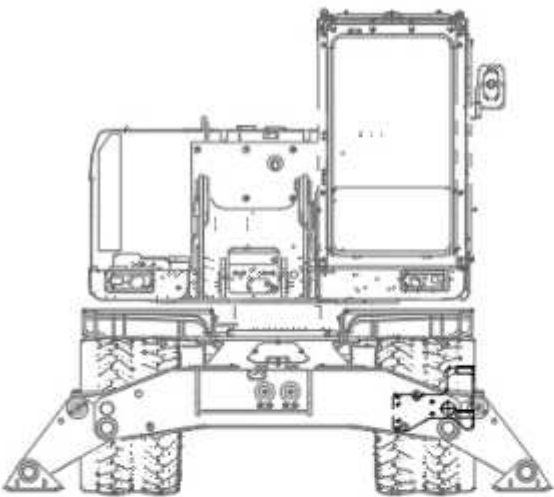
FRONT STEP ASSEMBLY



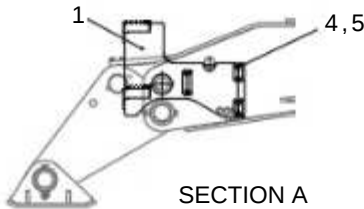
FRONT STEP ASSEMBLY

HW250AMH

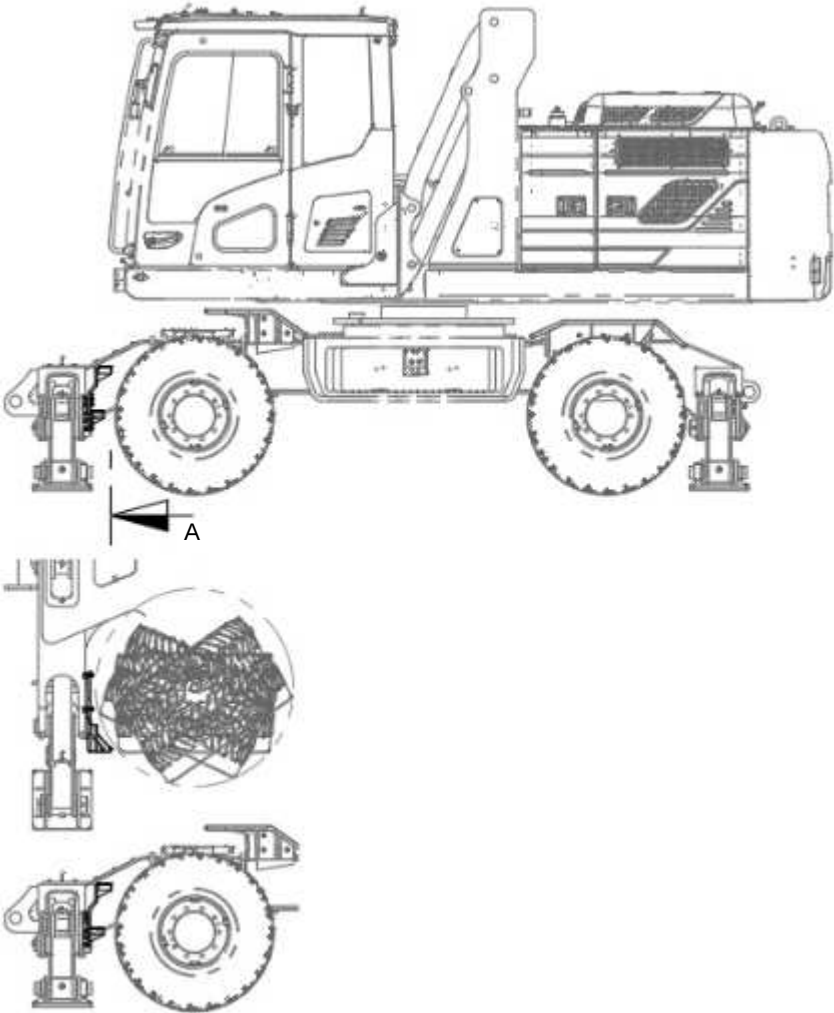
ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
*	XKDA-01181	STEP ASSY-FRONT	1			
1	XKDA-01182	. STEP-FRONT	1			
2	XKDA-01183	. PLATE	2			
3	XKDA-01184	. BOLT-HEX	4			
4	XKDA-01185	. WASHER-PLAIN	4			
5	XKDA-01186	. WASHER-SPRING	4			



SECTION A



SECTION A

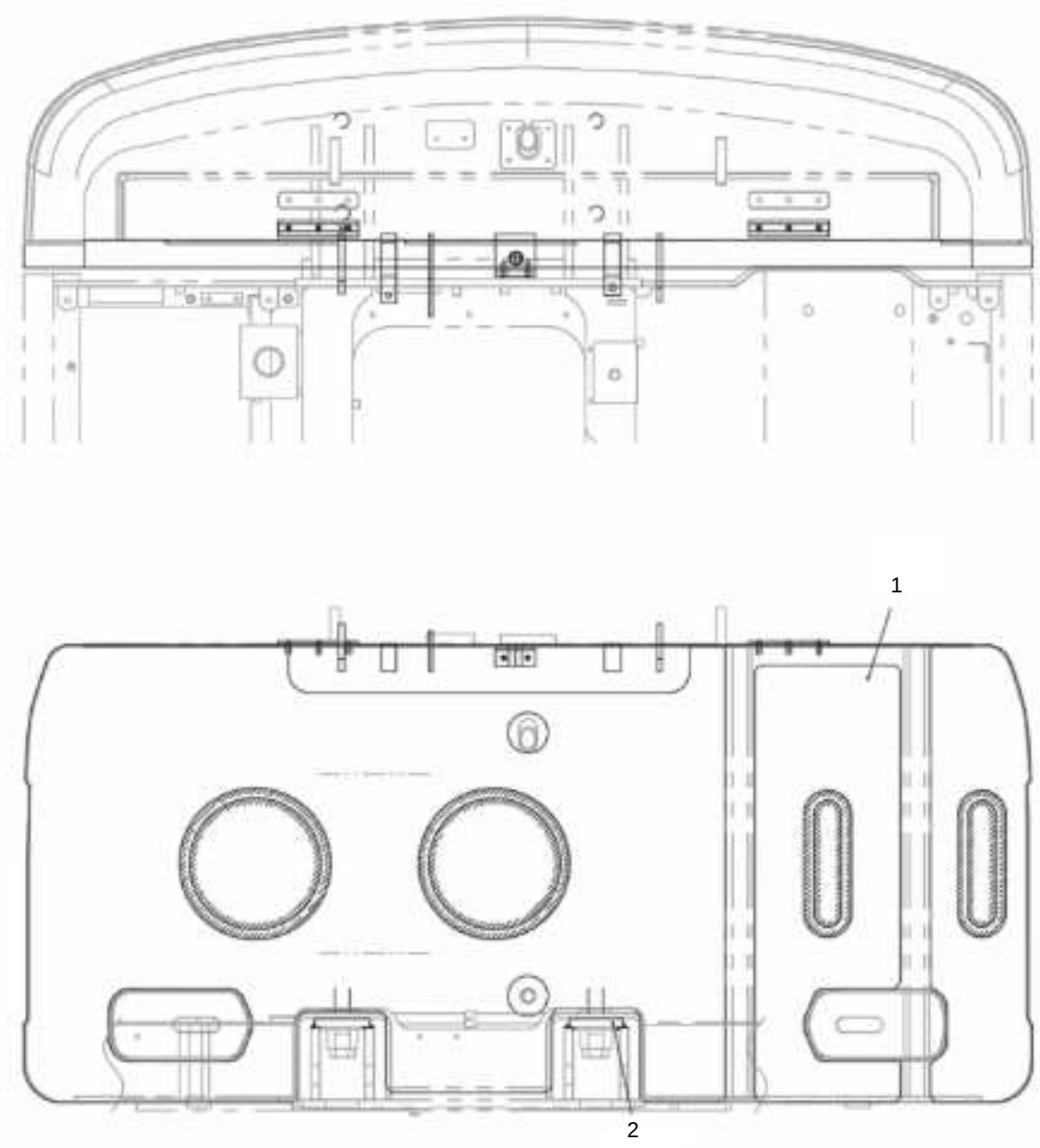


SIDE STEP ASSEMBLY

HW250AMH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
*	XKDA-01187	STEP ASSY-SIDE	1			
1	XKDA-01188	. STEP-SIDE	1			
2	XKDA-01189	. SEAT-SCREW	1			
3	XKDA-01190	. SEAT-SCREW	2			
4	XKDA-01191	. BOLT	6			
5	XKDA-01186	. WASHER-SPRING	6			

ADDITIONAL COUNTER WEIGHT

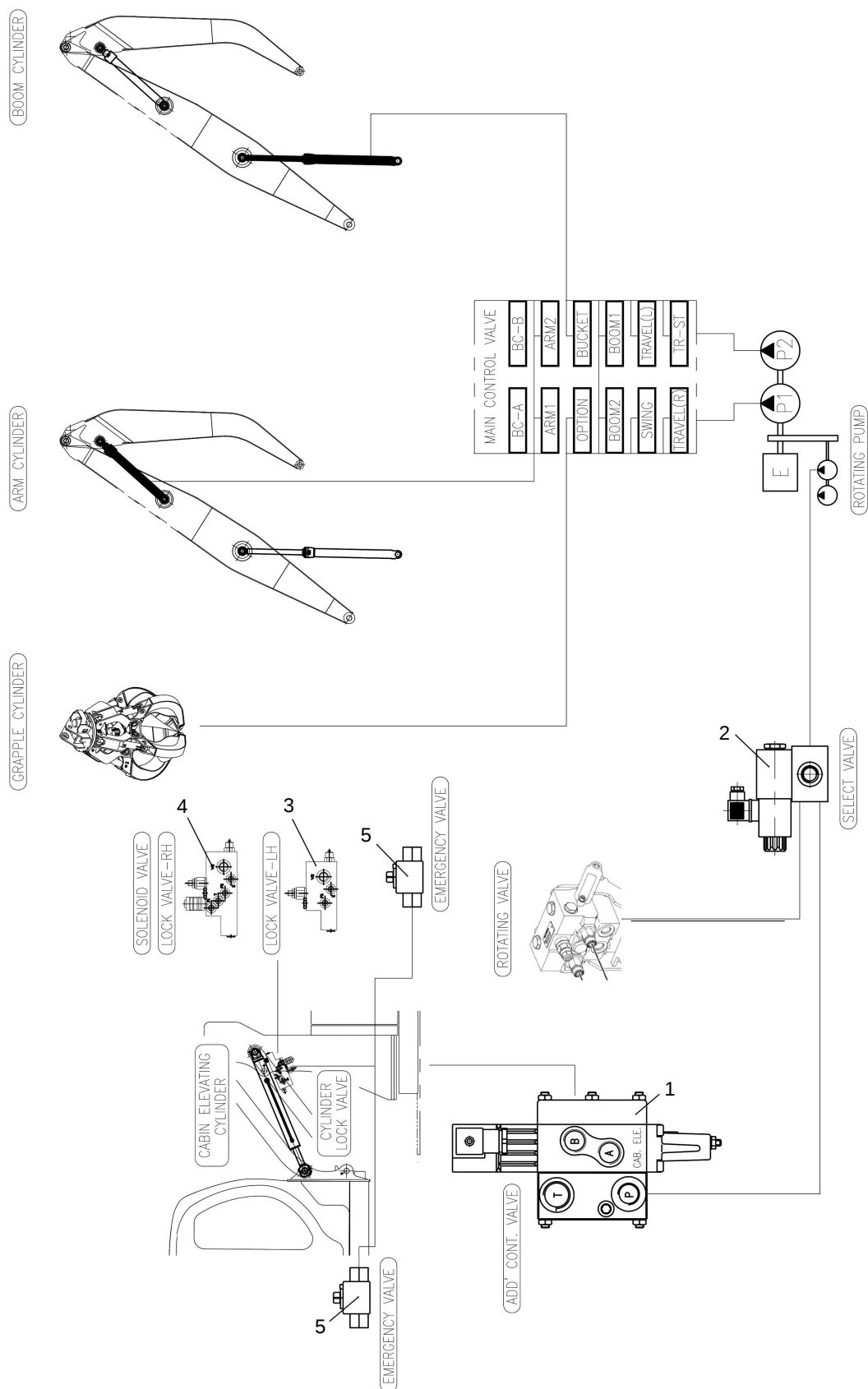


ADDITIONAL COUNTER WEIGHT

HW250AMH

[illegible]

HYDRAULIC PARTS INSTALLATION



HYDRAULIC PARTS INSTALLATION

HW250AMH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
*	XKDA-01192	HARNESS ASSY-WIRE	1			
1	XKDA-00955	. VALVE-ADD	1			
2	XKDA-01193	. VALVE-SHUTTLE	1			
3	XKDA-01194	. VALVE-LOCK LH	1			
4	XKDA-01195	. VALVE-LOCK RH	1			
5	XKDA-01221	. VALVE-EMERGENCY 1	2			

WIRE HARNESS ASSEMBLY

HW250AMH

ITEM	PART NO	DESCRIPTION	QTY	SERIAL NO	ITC	REMARK
*	XKDA-01656	HARNESS KIT-WIRE	1			
1	XKDA-00945	. SWITCH	1			
2	XKDA-01657	. SWITCH-ACTIVATION	1			
3	XKDA-01198	. ALARM-TRAVEL	1			
4	XKDA-01658	. HARNESS-INSIDE CABIN	1			
5	XKDA-01659	. HARNESS-OUTSIDE CABIN	1			

NUMERICAL PART INDEX

PART NO	PAGE	ITEM	PART NO	PAGE	ITEM	PART NO	PAGE	ITEM
31K4-52150E	S040	1	XKDA-00050	S050	22	XKDA-00184	S011	1-2
61Q6-00320	S010	11	XKDA-00050	S070	18	XKDA-00328	S030	20
61Q6-00320	S011	11	XKDA-00050	S080	12	XKDA-00328	S031	20
KBST-00154	S050	35	XKDA-00050	S090	44	XKDA-00335	S060	11
S017-161606	S010	12	XKDA-00050	S091	44	XKDA-00335	S061	11
S017-161606	S011	12	XKDA-00050	S092	44	XKDA-00336	S030	30
S205-16100B	S010	13	XKDA-00053	S030	32	XKDA-00336	S031	30
S205-16100B	S011	13	XKDA-00053	S031	32	XKDA-00336	S050	16
S991-080140	S010	5	XKDA-00053	S050	28	XKDA-00339	S030	39
S991-080140	S011	5	XKDA-00055	S110	3	XKDA-00339	S031	39
S993-080140	S010	4	XKDA-00066	S050	18	XKDA-00389	S050	13
S993-080140	S011	4	XKDA-00074	S030	33	XKDA-00411	S010	24
XKAG-00135	S060	15	XKDA-00074	S031	33	XKDA-00411	S011	24
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XKDA-00035	S030	23	XKDA-00090	S080	11	XKDA-00411	S080	7
XKDA-00035	S031	23	XKDA-00091	S090	64	XKDA-00411	S100	11
XKDA-00035	S050	9	XKDA-00091	S091	64	XKDA-00412	S070	12
XKDA-00043	S060	8	XKDA-00091	S092	64	XKDA-00416	S050	12
XKDA-00043	S061	8	XKDA-00101	S030	25	XKDA-00449	S090	52
XKDA-00044	S060	9	XKDA-00101	S031	25	XKDA-00449	S091	52
XKDA-00044	S061	9	XKDA-00120	S020	10	XKDA-00449	S092	52
XKDA-00048	S020	21	XKDA-00124	S070	10	XKDA-00591	S040	10
XKDA-00048	S020	15	XKDA-00124	S080	5	XKDA-00591	S050	19
XKDA-00048	S030	24	XKDA-00124	S090	45	XKDA-00649	S030	29
XKDA-00048	S031	24	XKDA-00124	S091	45	XKDA-00649	S031	29
XKDA-00048	S050	10	XKDA-00124	S092	45	XKDA-00649	S040	8
XKDA-00048	S060	7	XKDA-00124	S100	10	XKDA-00650	S030	36
XKDA-00048	S061	7	XKDA-00159	S070	8	XKDA-00650	S031	36
XKDA-00048	S090	42	XKDA-00159	S080	3	XKDA-00692	S090	39
XKDA-00048	S091	42	XKDA-00160	S070	9	XKDA-00692	S091	39
XKDA-00048	S092	42	XKDA-00160	S080	4	XKDA-00692	S092	39
XKDA-00049	S010	22	XKDA-00161	S070	19	XKDA-00697	S090	40
XKDA-00049	S011	22	XKDA-00171	S010	26	XKDA-00697	S091	40
XKDA-00049	S050	24	XKDA-00171	S011	26	XKDA-00697	S092	40
XKDA-00049	S090	43	XKDA-00171	S070	16	XKDA-00699	S090	38
XKDA-00049	S091	43	XKDA-00171	S080	9	XKDA-00699	S091	38
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