HX300S L MH

Material Handler Service Instruction Manual

This Instruction manual is introduced by DAEMO Engineering Ltd. Contents in the manual can be revised by HYUNDAI CONSTRUCTION EQUIPMENT If it is necessary.

INTRODUCTION

Thank you for purchasing hydraulic material handler product.

The 'Material Handler' for crawler excavator is developed for scrap and bulk material handling equipped with a grapple, clamshell bucket' or magnets. Hydraulic Elevating Cabin is also intended to improve working area visibility.

Two-piece Material Handler offers exceptional lift performance and range of operation. The purpose of this instruction manual is to provide the user with detailed information on how to operate, inspect, maintain and adjust 'Material Handler' and 'Elevating Cabin'.

Be sure to refer to this manual before operating the equipment and products for safe operation and maintenance of 'Material Handler' and 'Elevating Cabin'.

- 1. Be sure to refer to this instruction manual before operating the machine.
- 2. Check the environment of the workplace and follow the safety regulations to ensure safe operation.

If you have any questions about this manual, please contact HYUNDAI CONSTRUCTION EQUIPMENT.

| Model | HX300S L MH | Remarks |
|-------------------|-------------|---------|
| Manufactured Year | 2021 | |

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General Cautions

▲_Safety notices follow ISO standard for safety warnings

- 1) 'A Danger' mark (red) indicates a hazardous situation which will result in death or serious injury, if it is not followed safety regulation.
- 2) 'A Warning' mark (orange) indicates a potentially hazardous situation which may result in death or serious injury, if it is not followed safety regulation.
- 3) 'A caution' mark (yellow) indicates a potentially hazardous situation which may result in minor or moderate injury, if it is not followed safety regulation.
- 4) **Attention** mark (black) indicate a potentially risk situation which may result shortening lifespan of machine components, if it is not followed safety regulation.

Read this manual prior to operation

1-1. Basic Precautions

Check and gain full knowledge of safety labels in this Manual and on the equipment. Material handler equipment must be maintained in standard state at all times, and no alteration is allowed. If safety is not secured, operational performance and durability of the equipment will gradually decrease. Pay particular attention to safety over any other contents presented in this Manual.

Prohibition of remodeling

Remodeling the equipment without discussing with HYUNDAI CONSTRUCTION EQUIPMENT can cause serious safety risks, and the equipment owner is responsible. Please discuss with HYUNDAI CONSTRUCTION EQUIPMENT if you would like to remodel the equipment.

Safe clothing

Appropriate safety clothing such as helmet are required during work. Inappropriate attire and accessories can induce unintended operation of the lever or other operating units. If the operator loses focus, a serious accident can occur. To keep safety, prohibit the use of radio or headset.

Caution for attachments

Make sure to contact HYUNDAI CONSTRUCTION EQUIPMENT before attaching special attachments to the equipment. Do not use attachments that have not been approved by HYUNDAI CONSTRUCTION EQUIPMENT. We are not held responsible for accidents and failures caused by the use of unapproved attachments.

Caution for handling oil

Oil is very dangerous because of flammability. Since there is a concern for ignition nearby firearms, be extremely careful when handling oil. Keep the equipment clean by removing foreign substance and grease.

Securing working ground condition

Operator or service personnel should check working ground condition in advance before locating the equipment to prevent rollover accidents, operate equipment on a flat ground after securing safe place.

Keep limited lifting weight spec range

Operate equipment within the operating weight spec range otherwise it may cause serious accident such as rollover of equipment or human injury due to overweight effect. Lifting capacities are based on the machine and the load both remaining level at all times. Never exceed the limited lifting spec stated in this instruction manual

Operating speed

Operate equipment as slowly as possible for safe operation. Quick movement of front attachment may lead object falling down or rollover accident.

Precaution for inspection and maintenance of hydraulic parts

Stop the equipment on a flat and solid ground. Put attachments down on the ground and stop the engine. Do not perform maintenance immediately after work. Wait until the entire equipment is completely cooled down. If the equipment is still hot and hydraulic parts have residual pressure, the user can be seriously injured by spurting of hot operating oil. Residual pressure inside the operating oil tank must be removed before performing maintenance on hydraulic parts. Operate the working lever in the operating room many times to remove pressure remaining in the hydraulic circuit. Keep body parts and face away from the workplace when loosening plugs and screws on the hydraulic line.

Warning sign during inspection and maintenance

To prevent persons other than the maintenance worker from moving the equipment during inspection or maintenance, hang a warning sign for "Under maintenance" or "Inspection in process" in the operating room or on the work lever.

Use appropriate tools.

Stop the engine to conduct inspection or maintenance on the equipment.

Keep the equipment clean.

Water can cause malfunctioning of electric devices.

Do not touch moving parts of the equipment with hands.

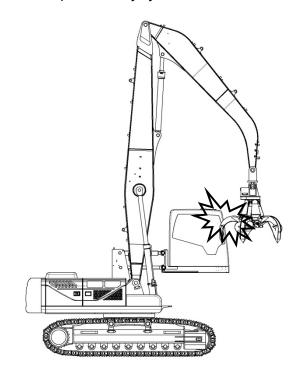
Be careful about high pressure of operating oil in the hydraulic circuit.

1-2. Precautions for front Attachment Operation

'A Danger'

Need to be careful when operating elevating cabin or front attachment

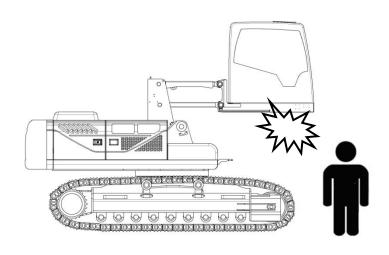
Please be sure to keep safe operating position when operating front attachment or elevating cabin otherwise it may lead serious personal injury or death from a crash.



'A Danger'

Need to be careful when operating elevating cabin to downward position

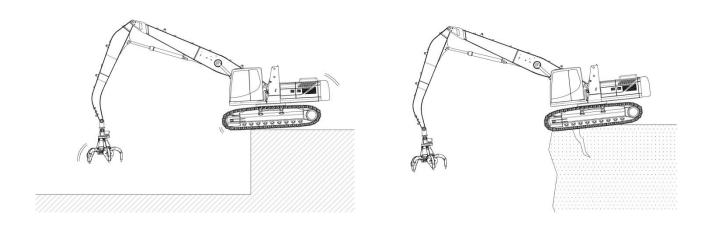
Careless operation may lead serious personal injury or death from crash.



'A Danger'

Need to be careful when operating on high ground condition

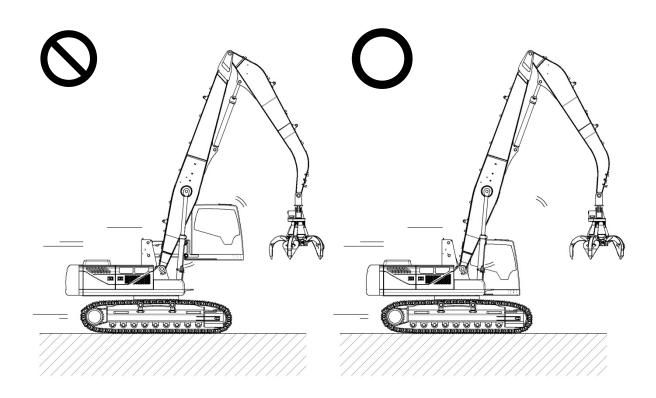
Careless operation may lead serious personal injury or death from crash accident.



'A Warning'

Need to be careful when driving

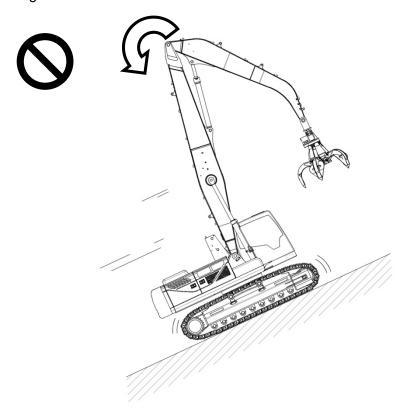
Do not drive machine with elevating cabin's upward positioned



'A Warning'

Need to be careful when driving

Do not drive machine on a slope. Machine may have a risk of falling over due to center of gravity change.



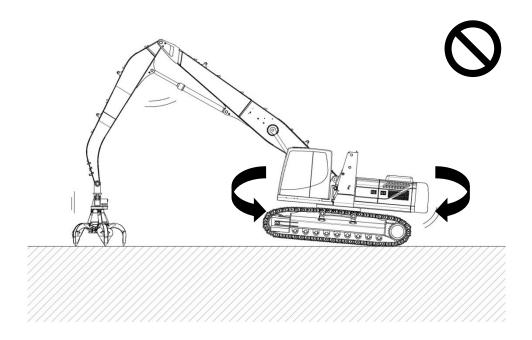
Need to be careful when driving

Drive machine as slowly as possible on a rough and bumpy area. Otherwise it may cause of damage of machine



Attention

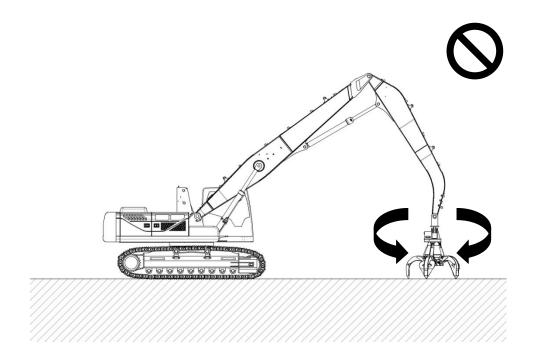
<u>Do not rotate machine by using grapple or front attachment.</u>
This operation method may lead risk situation which may result shortening lifespan of machine components, if it is not avoided.



Attention

Do not rotate grapple attachment with its arm touched to the ground position.

This operation method may lead risk situation which may result shortening lifespan of machine components, if it is not avoided.

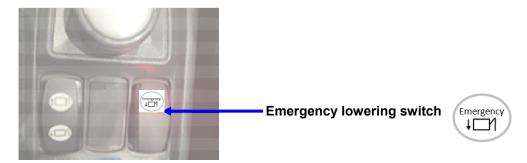


1-3. Emergency Lowering of Elevating Cabin

Emergency condition;

When the engine is shut down condition, hydraulic system will be deactivated because hydraulic pump would not discharge the required oil to the system. In this case, cabin is able to be lowered by using emergency switch.

Before lowering any equipment with the engine stopped, please check if there is any person around or underneath elevating cabin. To keep away any object or person from the elevating cabin before emergency cabin lowering operation.



- 1) Please turn the Key-Switch to the ON position on the dashboard.
- 2) Sound a horn by using relevant joy stick button switch for any persons around outside cabin to take care of themselves if exist.
- 3) Push the emergency switch to lower the cabin In this condition, the hydraulic oil in the elevating cylinder will be returned to the tank passage by using the weight of cabin so that the cabin is to be able to be seated lower position safely.

1-4. Safety pin

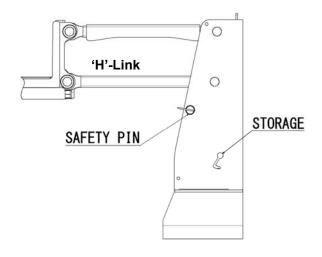
Safety pin will need to be used when repairing cabin elevating system. In any case of performing elevating system inspection & maintaining cabin elevating system, Please be sure safety pins are mounted on supporting hole properly.

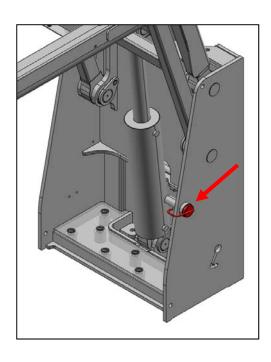
*Elevated Height: 2.5m

'A Danger',

Please follow the safety instruction introduced as shown in the list below.

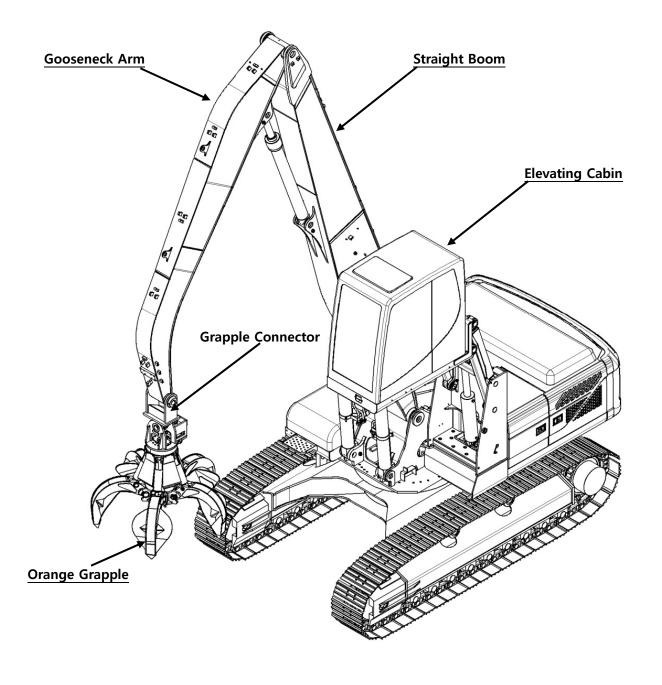
- -. Before starting any inspection or maintenance work, install a standing signboard near the work area for alert and warning for bystanders in advance.
- -. Safety pin has to be used when any maintenance or repair work is required only. (Please do not operate when the safety pin is installed condition.)
- -. Please always be sure to keep a distance between safety pin and 'H'-Link to prevent pin damage due to interference when inspecting work or maintenance work.
- -. If the 'H'-Link has any deformation then, please replace the 'H'-link for safe operation.
- -. Please note that the grapple function for open and close would not be operated at 'Work-mode' condition on the dashboard however, rotating function is able to be activated even in this condition. So, please be sure that it's required to be extremely careful not to operate this function.
- -. In any case when requiring elevating function after completing inspection or maintenance work then, deactivate 'Auto Idle' function by using relative button switch on cluster switch panel in the cabin.





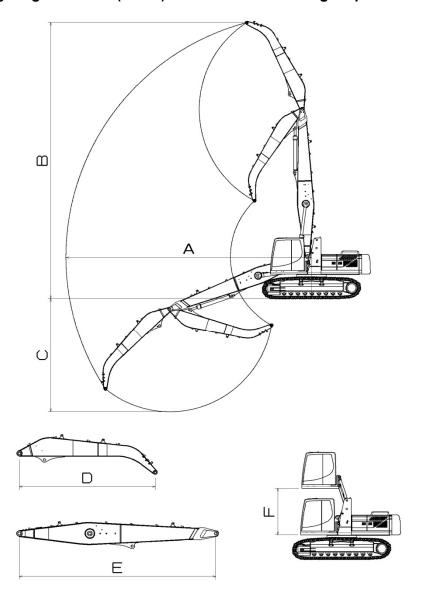
2. Specification

2-1. Major parts location



2-2. Specifications

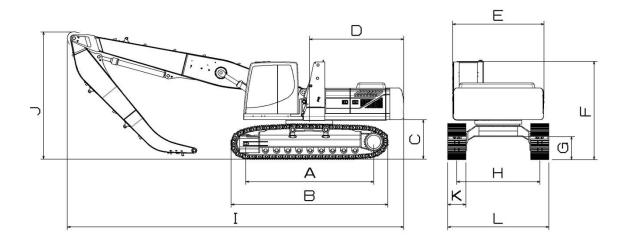
-. Working range distance (meter) and Boom & Arm Length spec.



HX300S L MH Working attachment spec table.

| ITEM | DISTANCE (Unit: mm) | Remarks |
|--------------------------|----------------------------------|---------------|
| Working Radius Max. (A) | 13,090 | |
| Working Height Max. (B) | 14,590 | |
| Working Depth Max. (C) | 6,190 | |
| Goose-neck Arm (D) | 7,800 | |
| Straight Boom (E) | 5,400 | |
| Lifting Cabin (F) | 2,500 | |
| Boom Cylinder spec. | 2- Ø 140 X 1,465 | bore X stroke |
| Arm Cylinder spec. | 1- Ø 150 X 1,765 | bore X stroke |
| Grapple spec. | 5 Tines, Hydraulic rotation type | |

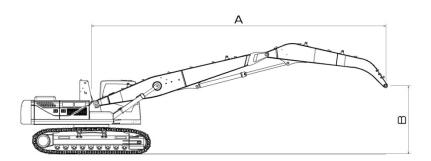
-. Transportation Spec' information



| Item | | Specification | Unit |
|--------------------------|---|---------------|------|
| Tumbler distance | Α | 4,030 | mm |
| Track length | В | 4,940 | mm |
| Counterweight clearance | С | 1,185 | mm |
| Turning radius | D | 3,120 | mm |
| Top width | Е | 2,980 | mm |
| Driving height | F | 3,130 | mm |
| Minimum ground clearance | G | 500 | mm |
| Track center distance | Н | 2,600 | mm |
| Overall length | I | 11,085 | mm |
| Overall height | J | 4,170 | mm |
| Shoe width | K | 600 | mm |
| Overall width | L | 3,200 | mm |

2-3. Lifting capacities

- -. Load point is the pin end point of front.
- -. Rated load values are based on hydraulic capacity
- -. Rated load values do not exceed 87% of hydraulic or 75% of tipping load capacity.
- -. Lifting capacity is based on SAE J1097, ISO 10567.
- -. (*) indicates load limited by hydraulic capacity.



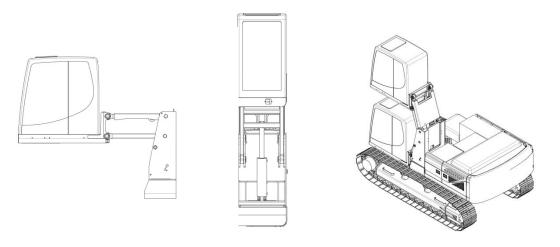
• '(@F)': Rating over front

• '(@S)': Rating over side or 360°(degree)

| ВАВ | 3m (@F) | 3m (@S) | 4.5m (@F) | 4.5m (@S) | 6m (@F) | 6m (@S) | 7.5m (@F) | 7.5m (@S) | 9.0m (@F) | 9.0m (@S) |
|-------|------------|------------|--------------|--------------|------------|------------|--------------|--------------|--------------|--------------|
| 12.0m | | | | | *7367 | *7367 | *6892 | *6892 | | |
| 10.5m | | | | | | | *6502 | *6502 | *6181 | 6110 |
| 9.0m | | | | | *6967 | *6967 | *6458 | *6458 | *6057 | *6057 |
| 7.5m | | | | | *7342 | *7342 | *6673 | *6673 | *6147 | 6092 |
| 6.0m | | | *9504 | *9504 | *8087 | *8087 | *7106 | *7106 | *6384 | 5965 |
| 4.5m | | | *11525 | *11525 | *9136 | *9136 | *7691 | 7561 | *6712 | 5789 |
| 3.0m | | | *13830 | *13830 | *10275 | 9888 | *8315 | 7225 | *7059 | 5588 |
| 1.5m | | | *4895 | *4895 | *11165 | 9333 | *8820 | 6906 | *7334 | 5395 |
| 0m | | | *3841 | *3841 | *11528 | 8942 | *9062 | 6656 | *7448 | 5235 |
| -1.5m | *1928 | *1928 | *4522 | *4522 | *11286 | 8734 | *8945 | 6499 | *7319 | 5128 |
| -3.0m | *3381 | *3381 | *5693 | *5693 | *10470 | 8673 | *8414 | 6435 | *6870 | 5083 |
| -4.5m | | | *7098 | *7098 | *9092 | 8725 | *7408 | 6457 | *5996 | 5105 |
| -6.0m | | | | | *7077 | *7077 | *5801 | *5801 | *4484 | *4484 |

| A B | 10.5m (@F) | 10.5m (@S) | 12.0m (@F) | 12.0m (@S) | Max. (@F) | Max. (@S) | Max. Reach (m) |
|--------|---------------|---------------|---------------|---------------|--------------|--------------|----------------------|
| 12.0m | | | | | *6202 | *602 | 8.34 |
| 10.5m | | | | | *5584 | 5188 | 9.89 |
| 9.0m | *5755 | 4768 | | | *5250 | 4373 | 11.02 |
| 7.5m | *5727 | 4767 | | | *5073 | 3876 | 11.85 |
| 6.0m | *5826 | 4702 | *5364 | 3788 | *5000 | 3559 | 12.44 |
| 4.5m | *5990 | 4600 | *5403 | 3743 | 4989 | 3559 | 12.83 |
| 3.0m | *6163 | 4480 | *5445 | 3679 | 4840 | 3245 | 13.03 |
| 1.5m | *6282 | 4362 | 5394 | 3614 | *4791 | 3206 | 13.05 |
| 0m | *6281 | 4264 | *5304 | 3562 | *4625 | 3237 | 12.9 |
| -1.5m | *6083 | 4199 | *4957 | 3539 | *4414 | 3346 | 12.57 |
| -3.0m | *5593 | 4181 | *4176 | 3566 | *4120 | 3553 | 12.04 |
| -4.5m | *4629 | 4225 | | | *3684 | *3684 | 11.29 |
| -6.0m | | | | | *4376 | *4376 | 9.11 |

2-4. Elevating Cabin System Spec.



| Cabin lifting system | | | | | | |
|-------------------------------|------------------------|---------------------------|--|--|--|--|
| Lifting height | | Max. 2,500 mm | | | | |
| Forward protrusion length (| Compared to standard) | Max. 1,706 mm | | | | |
| Torward protidsion length (| Compared to standard) | Min. 872 mm | | | | |
| Cabin under frame weight | | Up to 367 kg | | | | |
| Lifting assembly weight | | Up to 1,714 kg | | | | |
| Lifting assembly fixed bolt q | uantity | M24 x 9 EA | | | | |
| Lifting ovlinder | Cylinder quantity | 1 EA | | | | |
| Lifting cylinder | Cylinder stroke | 955 mm – 1565 mm (610 mm) | | | | |
| Cabin Moving speed | Upward direction | 39 sec +/-10% @ E-Mode | | | | |
| Cabili Movilly speed | Downward direction | 51 sec +/-10% @ E-Mode | | | | |

3. Operation Method

3-1. Machine Operating Precautions

Attention

Before starting work

- Pay attention in a workplace where there is a concern for falling objects.
- Check proper operation of the equipment.
- Check leaking of operating oil, cooling water and engine oil.
- Check that the warning sign is lighted on the dashboard in the operator cabin.
- To prevent injury, close the operator cabin door or fragment protection device. Work piece can fly into the operating room during operation.
- Operate on the operator's seat. Do not operate until the equipment and accessories are placed in the proper position.
- Do not operate in poor conditions such as medication and drinking.

During work

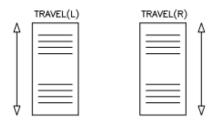
- Remove any obstacles within the work scope.
- Do not perform dangerous operations presented in this Manual.
- Contact HYUNDAI CONSTRUCTION EQUIPMENT for remodeling of the equipment.

After work

- During maintenance and repair, guarantee stable working conditions and equipment.
- Inspect leaking of operating oil, cooling water and engine oil, as well as loosening of the hydraulic hose, bolts and nuts.
- Check the oil level of the operating oil tank.
- Clean the equipment and important parts.

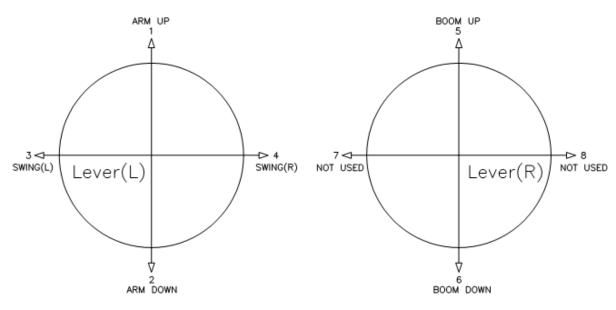
3-2. Control lever and Joystick

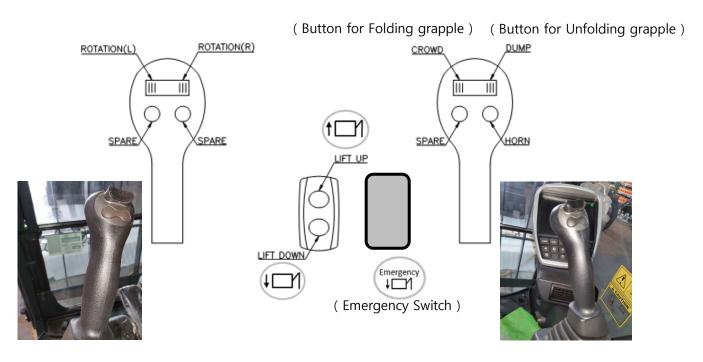
Joystick travel pedal (LH/RH side)



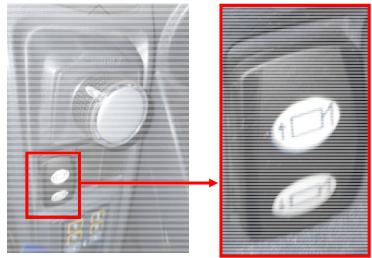
Joystick Control Level (LH-side)

Joystick Control Level (RH-side)





3-3. Elevating cabin operation



Upward selection switch

Downward selection switch

Switch location:

On the RH-Side of control console box

Elevating operator cabin

- 1) Close the door and fasten the seat belt.
- 2) Lock the pilot cutoff lever.
- 3) Start the engine.
- 4) Sound horn before elevating cabin operation to notify any people around the cabin if exist.
- 5) Press and hold cabin elevating switch.
- 6) When the station arrives intended height, release the elevating switch.

Lowering operator cabin

- 1) Close the door and fasten the seat belt.
- 2) Lock the pilot cutoff lever.
- 3) Sound horn before elevating cabin operation to notify any people around the cabin if exist.
- 4) Press and hold cabin elevating switch downward.
- 5) After lowering completed, release the elevating switch.

4. Circuit Diagram

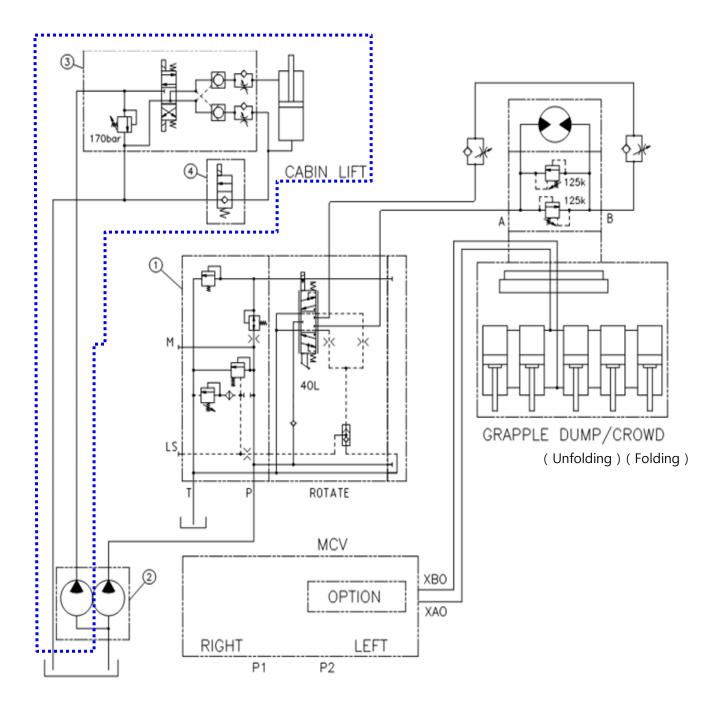
4-1. Hydraulic Circuit Diagram for Elevating Cabin

Item No. 1 Additional Valve - PVG 32

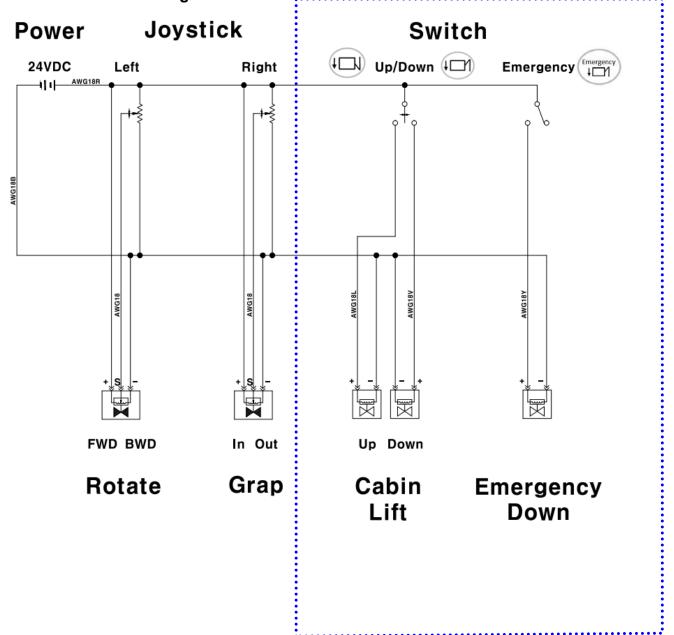
Item No. 2 Double Pump (PTO pump)

Item No. 3 Motion Control Valve

Item No. 4 Solenoid valve for Emergency



4-2. Electric Circuit Diagram



5. Inspection and Maintenance

5-1. General cautions

Inspection and maintenance help fully exhibit functions of the equipment and extend service life of the equipment. Pay particular attention to the following while operating the equipment.

- -. Are operating devices and meters functioning properly?
- -. Are there abnormalities in appearance, strange noise and heating?
- -. Are there loosened bolts and nuts?
- -. Have structures and parts been damaged, worn or disassembled?
- -. Is each part operating smoothly?

If an abnormality is discovered during operation or inspection, identify the cause and then perform maintenance work immediately. If the cause is unclear or there is a problem in the hydraulic unit, contact HYUNDAI CONSTRUCTION EQUIPMENT.

5-2. Inspection Method

- -. Be especially careful about safety.
- -. Devise appropriate inspection and maintenance plans considering the conditions and environment of use for effective inspection and maintenance.
- -. Only use parts approved by HYUNDAI CONSTRUCTION EQUIPMENT.
- -. Do not allow water and moisture to infiltrate into electric parts.

Caution:

Malfunctioning of electric parts is related to safety.

Never disassemble electronic parts.

Remodeling and alteration of the equipment is strictly prohibited.

5-3. Preparations before maintenance

Before starting maintenance work described in this Manual, stop the equipment as below for maintenance unless described otherwise.

- -. Place the equipment on a safe and flat place.
- -. Attach a "Do not start" tag to the work lever.
- -. Wear appropriate protective clothing when working on a dangerous task.
- -. Wear safety helmet, safety shoes, protective glasses, tight work trousers, ear protection, industrial gloves and breathing mask.

5-4. Periodic Inspection of Important Parts

Periodic inspection must be conducted to secure safety during work and operation.

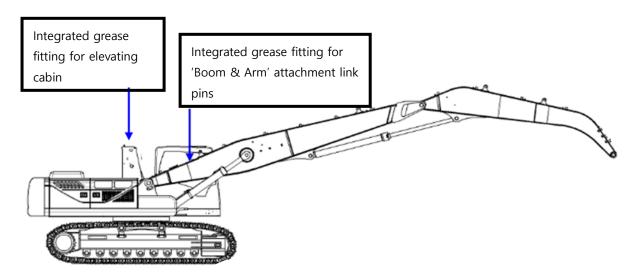
| Inspection Points |
|--|
| • |
| 1) Injection of grease into each part |
| 2) Deformation, damaging and abnormal noise of each part |
| 3) Loosening, loss and falling of bolts, nuts and stoppers |
| 4) Abrasion and damaging of pin, bush and pad |
| 5) Operating status and oil leakage of hydraulic valve |
| 6) Oil leakage of hydraulic cylinder and deformation and damaging of rod |
| 7) Deformation of wood grapple structure |
| 8) Abrasion and damaging of grappler of wood grapple |

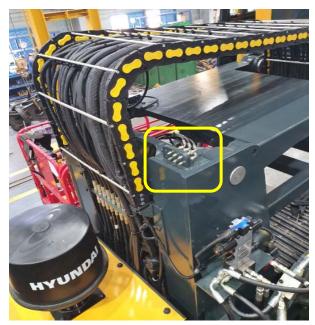
5-5. Types and Causes of Ordinary Troubles

| Failure Type | Cause of Failure |
|----------------------------|---|
| | Temperature of operating oil fails to reach normal level. |
| | RPM of the engine is too low. |
| | Flow of operating oil is low. |
| | There is an obstacle on the hydraulic line. |
| Boor bydroulio | The cooling system, pump control system or pilot line is damaged. |
| Poor hydraulic performance | Oil is leaking internally (control block, valve, power unit, etc.). |
| periormance | The hydraulic hose is entangled or twisted. |
| | The spool of the control valve is not opened maximally. |
| | The relief valve is damaged or cannot be adjusted. |
| | Internal oil leak occurs due to aging of the cylinder. |
| | The hydraulic pump is damaged. |
| | The cylinder rod is bent. |
| | The piston is jammed. |
| | The cylinder tube has partially increased inner diameter or flaw. |
| Door oguinment | Air exists in the hydraulic line. |
| Poor equipment power | Temperature of operating oil is too low. |
| power | The valve spool is jammed or the spring is broken. |
| | The pump or engine control system is damaged. |
| | The power control valve is damaged. |
| | Engine oil is insufficient or improper lubricant is used. |
| Generation of | The bearing is damaged. |
| abnormal noise | The gear tooth of the turning reducer is worn and broken. |
| | The gear tooth of the driving reducer is worn and broken. |

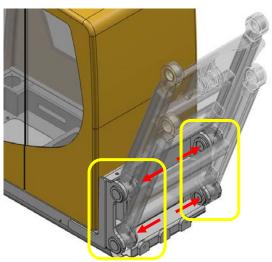
5-6. Greasing

1) Integrated grease fitting location : Four locations as shown in the pictures below









2) Greasing interval

| Time based condition | Greasing interval | Remarks |
|-----------------------------|-------------------|---------|
| For 1st 100 hours operation | Every 10 hours | - |
| After 100 hours operation | Every 50 hours | - |

- -. Put a rease to the required greasing point on a regular base as shown below.
 - ① Locate the machine on a flat and safe ground for greasing work.
 - ② Stop engine running
 - 3 Put grease through integrated grease fitting

Attention Please note that when a machine attachment is operated underwater working condition then the front attachment has to be greased on every 10 hour and daily basis.

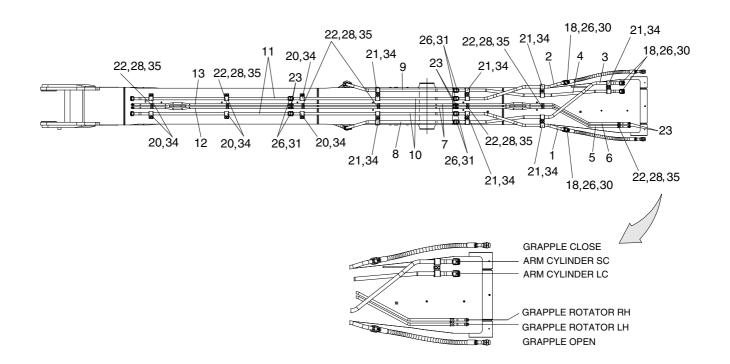
HX300S L MH

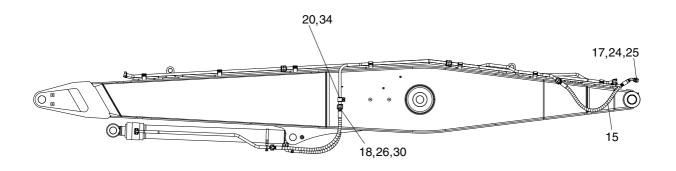
Parts Manual

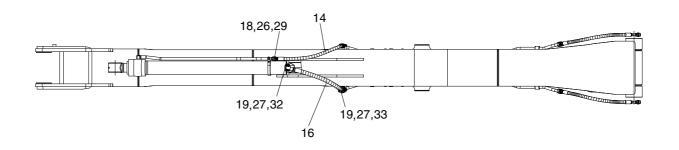
CONTENTS

| C. HYDRAULIC GROUP | |
|--|----------------------|
| BOOM PIPING GREASE PIPING ARM PIPING | C070 C080 C140 |
| G. STRUCTURE GROUP | |
| LIFTING CABIN | G010 |
| H. ATTACHMENT GROUP | |
| BOOM MOUNT GROUP 1 | H010 |
| BOOM MOUNT GROUP 2 | H011 |
| BOOM ASSY | H020 |
| ARM ASSY | H030 |

BOOM PIPING



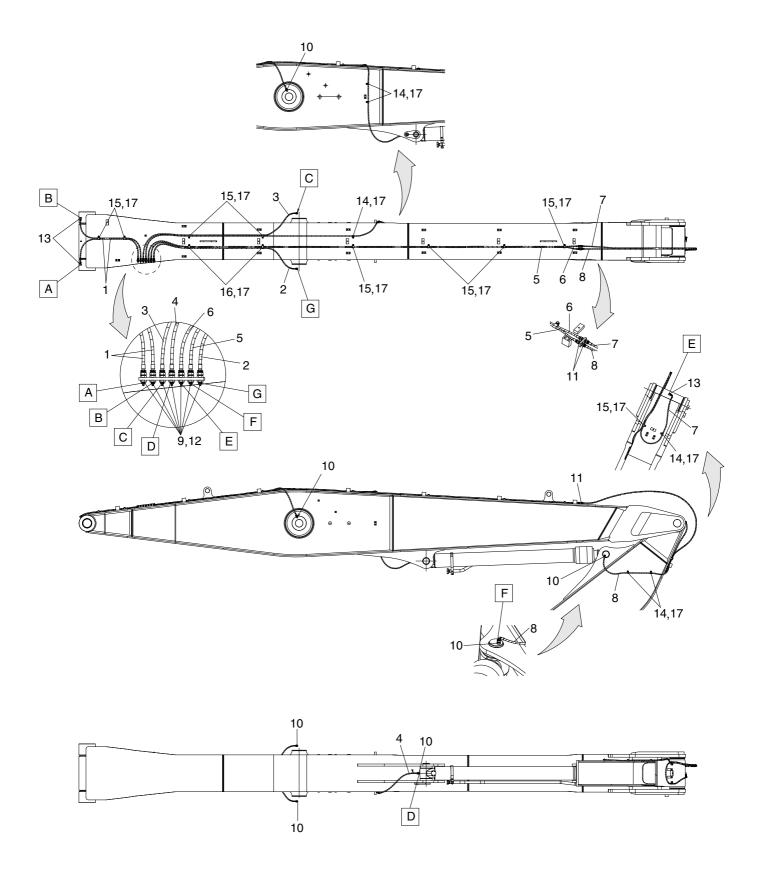




BOOM PIPING HX300S L MH

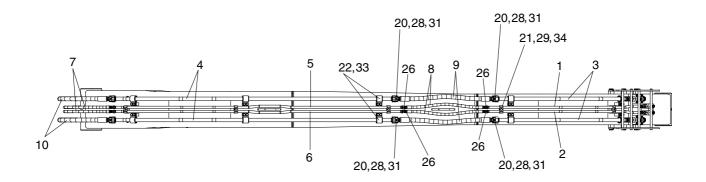
| ITEM | PART NO | DESCRIPTION | QTY | SERIAL NO | ITC | REMARK |
|------|-------------|-------------------|-----|-----------|-----|--------|
| * | XKBN-06073 | PIPE-BOOM | 1 | | | |
| 1 | XKBN-06074 | . PIPE ASSY | 1 | | | |
| 2 | XKBN-06075 | . PIPE ASSY | 1 | | | |
| 3 | XKBN-06076 | . PIPE ASSY | 1 | | | |
| 4 | XKBN-06077 | . PIPE ASSY | 1 | | | |
| 5 | XKBN-06078 | . PIPE ASSY | 1 | | | |
| 6 | XKBN-06079 | . PIPE ASSY | 1 | | | |
| 7 | XKBN-06080 | . PIPE ASSY | 2 | | | |
| 8 | XKBN-06081 | . PIPE ASSY | 1 | | | |
| 9 | XKBN-06082 | . PIPE ASSY | 1 | | | |
| 10 | XKBN-06083 | . PIPE ASSY | 2 | | | |
| 11 | XKBN-06084 | . PIPE ASSY | 2 | | | |
| 12 | XKBN-06085 | . PIPE ASSY | 1 | | | |
| 13 | XKBN-06086 | . PIPE ASSY | 1 | | | |
| 14 | XKBN-06087 | . HOSE-OIL | 1 | | | 1350L |
| 15 | XKBN-06088 | . HOSE-P.D | 2 | | | 1400L |
| 16 | XKBN-06089 | . HOSE-OIL | 1 | | | 1250L |
| 17 | XKBN-04497 | . CONNECTOR | 2 | | | |
| 18 | P173-160104 | . FLANGE-SPLIT | 12 | | | |
| 19 | P174-200106 | . FLANGE-SPLIT | 4 | | | |
| 20 | 31E7-01711 | . CLAMP ASSY-BAND | 16 | | | |
| 21 | 31E7-01750 | . CLAMP ASSY-BAND | 14 | | | |
| 22 | 31M6-65100 | . CLAMP | 7 | | | |
| 23 | XKBN-02075 | . O-RING | 6 | | | |
| 24 | XKBN-06090 | . O-RING | 2 | | | |
| 25 | S631-038001 | . O-RING | 2 | | | |
| 26 | Y470-160000 | . SEAL-TRAP | 12 | | | |
| 27 | Y470-200000 | . SEAL-TRAP | 2 | | | |
| 28 | XKBN-06091 | . BOLT-HEX | 7 | | | |
| 29 | XKBN-04534 | . BOLT-SOCKET | 4 | | | |
| 30 | XKBN-06092 | . BOLT-SOCKET | 20 | | | |
| 31 | XKBN-06093 | . BOLT-SOCKET | 24 | | | |
| 32 | | . BOLT-SOCKET | 4 | | | |
| 33 | XKBN-03064 | . BOLT-SOCKET | 4 | | | |
| 34 | S037-123526 | . BOLT-W/WASHER | 30 | | | |
| 35 | XKBN-00065 | . WASHER-SPRING | 7 | | | |
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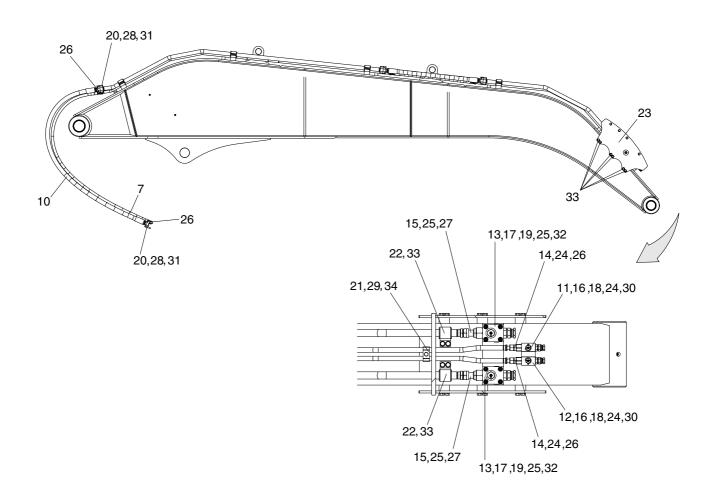
GREASE PIPING



| ITEM | PART NO | DESCRIPTION | QTY | SERIAL NO | ITC | REMARK |
|------|-------------|----------------------|-----|-----------|-----|------------|
| | | | QII | SEMIAL NO | 110 | TILIVIATIO |
| * | XKBN-06113 | PIPE-GREASE | 1 | | | |
| 1 | P840-042024 | . HOSE ASSY-SYNF&THD | 2 | | | |
| 2 | | . HOSE ASSY-THD | 1 | | | |
| 3 | P840-042052 | . HOSE ASSY-SYNF&THD | 1 | | | |
| 4 | | . HOSE ASSY-SYNF&THD | 1 | | | |
| 5 | | . HOSE ASSY-THD | 1 | | | |
| 6 | XKBN-06115 | . HOSE ASSY-THD | 1 | | | |
| 7 | P860-042069 | . HOSE ASSY-SYNF&THD | 1 | | | |
| 8 | P860-042072 | . HOSE ASSY-SYNF&THD | 1 | | | |
| 9 | XKBN-00009 | . NIPPLE-GREASE | 7 | | | |
| 10 | P010-430011 | . CONNECTOR | 4 | | | |
| 11 | XKBN-06116 | . CONNECTOR | 2 | | | |
| 12 | XKBN-06117 | . CONNECTOR | 7 | | | |
| 13 | XKBN-06118 | . ELBOW | 3 | | | |
| 14 | 31Q6-50370 | . CLAMP-HOSE | 6 | | | |
| 15 | 31Q6-50380 | . CLAMP-HOSE | 9 | | | |
| 16 | | . CLAMP-HOSE | 2 | | | |
| 17 | | . BOLT-W/WASHER | 17 | | | |
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ARM PIPING

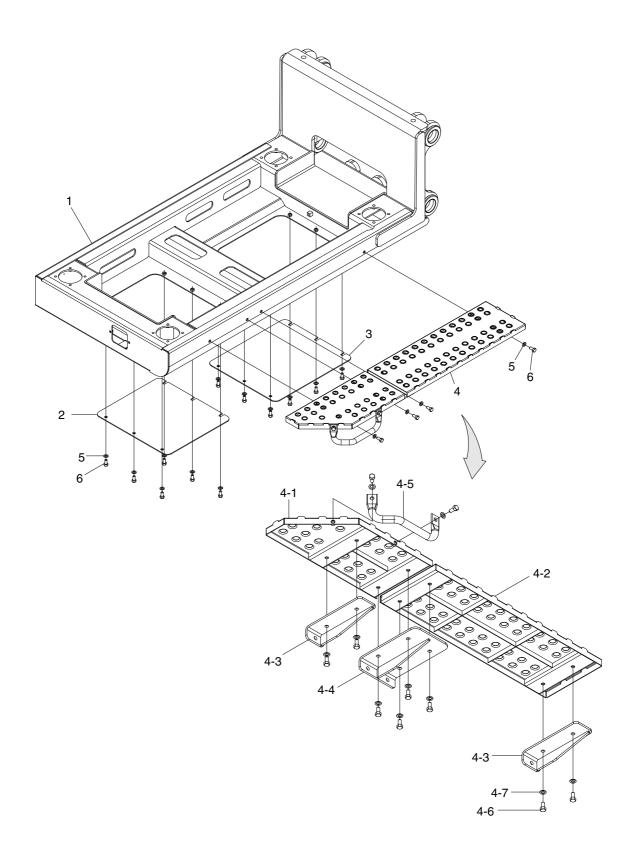




ARM PIPING HX300S L MH

| ITEM | PART NO | DESCRIPTION | QTY | SERIAL NO | ITC | REMARK |
|------|-------------|-------------------|-----|-----------|-----|--------|
| * | XKBN-06095 | PIPE-ARM | 1 | | | |
| 1 | XKBN-06096 | . PIPE ASSY | 1 | | | |
| 2 | XKBN-06097 | . PIPE ASSY | 1 | | | |
| 3 | XKBN-06098 | . PIPE ASSY | 2 | | | |
| 4 | XKBN-06099 | . PIPE ASSY | 2 | | | |
| 5 | XKBN-06100 | . PIPE ASSY | 1 | | | |
| 6 | XKBN-06101 | . PIPE ASSY | 1 | | | |
| 7 | XKBN-06102 | . HOSE-P.D | 2 | | | |
| 8 | XKBN-06103 | . HOSE-OIL | 2 | | | |
| 9 | XKBN-06104 | . HOSE-OIL | 2 | | | |
| 10 | XKBN-06105 | . HOSE-P.D | 2 | | | |
| 11 | XKBN-06106 | . VALVE-STOP | 1 | | | |
| 12 | XKBN-06107 | . VALVE-STOP | 1 | | | |
| 13 | XKBN-06108 | . VALVE-STOP | 2 | | | |
| 14 | XKBN-06109 | . CONNECTOR | 2 | | | |
| 15 | XKBN-06110 | . CONNECTOR | 2 | | | |
| 16 | P010-110004 | . CONNECTOR | 2 | | | |
| 17 | P010-110006 | . CONNECTOR | 2 | | | |
| 18 | XKBN-02867 | . CAP-UNION | 2 | | | |
| 19 | XKBN-02390 | . CAP-UNION | 2 | | | |
| 20 | P173-160104 | . FLANGE-SPLIT | 16 | | | |
| 21 | 31M6-65100 | . CLAMP | 5 | | | |
| 22 | 31E7-01711 | . CLAMP ASSY-BAND | 20 | | | |
| 23 | XKBN-06111 | . COVER-PIPE | 1 | | | |
| 24 | S631-018004 | . O-RING | 4 | | | |
| 25 | S631-029001 | . O-RING | 4 | | | |
| 26 | XKBN-02075 | . O-RING | 10 | | | |
| 27 | XKBN-06090 | . O-RING | 2 | | | |
| 28 | Y470-160000 | . SEAL-TRAP | 8 | | | |
| 29 | XKBN-06091 | . BOLT-HEX | 5 | | | |
| 30 | XKBN-03080 | . BOLT-SOCKET | 8 | | | |
| 31 | XKBN-06092 | . BOLT-SOCKET | 32 | | | |
| 32 | XKBN-06112 | . BOLT-SOCKET | 8 | | | |
| 33 | S037-123526 | . BOLT-W/WASHER | 32 | | | |
| 34 | XKBN-00065 | . WASHER-SPRING | 5 | | | |
| | | | | | | |

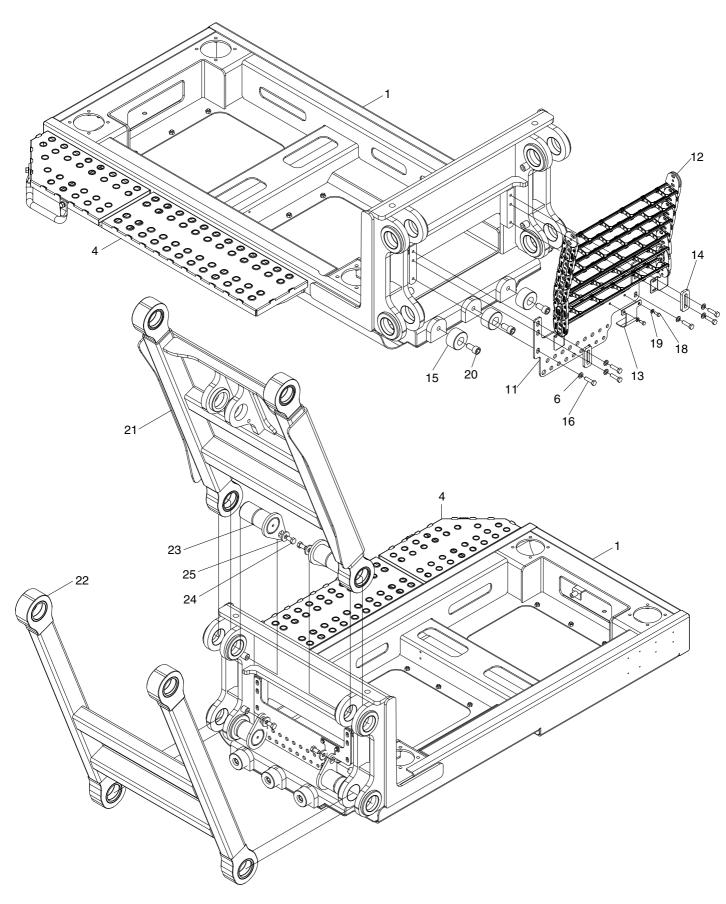
LIFTING CABIN (1/3)



G010-1 G010 G010-2

| ITEM | PART NO | DESCRIPTION | QTY | SERIAL NO | ITC | REMARK |
|------|------------|----------------------|-----|-----------|-----|--------|
| * | XKBN-06134 | CABIN-LIFTING | 1 | | | |
| 1 | XKBN-06135 | . FRAME-UNDER CABIN | 1 | | | |
| 2 | XKBN-06136 | . COVER-UNDER FRONT | 1 | | | |
| 3 | XKBN-06137 | . COVER-UNDER REAR | 1 | | | |
| 4 | XKBN-06138 | . STEP ASSY-SIDE | 1 | | | |
| 4-1 | XKBN-06139 | STEP ASSY | 1 | | | |
| 4-2 | XKBN-06140 | STEP ASSY | 1 | | | |
| 4-3 | XKBN-06141 | PLATE-SUPPORT | 2 | | | |
| 4-4 | XKBN-06142 | PLATE-SUPPORT | 1 | | | |
| 4-5 | XKBN-06143 | HANDLE | 1 | | | |
| 4-6 | XKBN-06144 | BOLT-HEX | 10 | | | |
| 4-7 | XKBN-06145 | WASHER | 10 | | | |
| 5 | XKBN-06144 | . BOLT-HEX | 16 | | | |
| 6 | XKBN-06145 | . WASHER | 28 | | | |
| 11 | XKBN-06146 | . BRACKET-FRONT | 1 | | | |
| 12 | XKBN-06147 | . CARRIER-CABLE | 1 | | | |
| 13 | XKBN-06148 | . PLATE | 1 | | | |
| 14 | XKBN-06149 | . SHIM | 2 | | | |
| 15 | XKBN-06150 | . STOPPER | 3 | | | |
| 16 | XKBN-06151 | . BOLT | 6 | | | |
| 18 | XKBN-06152 | . BOLT-HEX | 6 | | | |
| 19 | XKBN-06153 | . WASHER | 2 | | | |
| 20 | XKBN-06154 | . BOLT-SOCKET | 3 | | | |
| 21 | XKBN-06155 | . LINK ASSY-UPPER | 1 | | | |
| 22 | XKBN-06156 | . LINK ASSY-LOWER | 1 | | | |
| 23 | XKBN-06157 | . PIN ASSY-BASE LINK | 4 | | | |
| 24 | XKBN-06158 | . BOLT-HEX | 9 | | | |
| 25 | XKBN-06159 | . WASHER | 10 | | | |
| 31 | XKBN-06160 | . CYLINDER ASSY | 1 | | | |
| 32 | XKBN-06161 | . PIN ASSY-SUPPORT | 5 | | | |
| 33 | XKBN-06162 | . PIN ASSY-CYL | 1 | | | |
| 34 | XKBN-06163 | . BOLT-HEX | 1 | | | |
| 37 | XKBN-06164 | . BRACKET-REAR | 1 | | | |
| 42 | XKBN-06165 | . PIN-SAFETY | 1 | | | |
| 43 | XKBN-06166 | . BOLT-HEX | 4 | | | |
| 44 | XKBN-06167 | . BASE-LIFTING | 1 | | | |
| 51 | XKBN-06168 | . BOLT-HEX | 9 | | | |
| 52 | XKBN-06169 | . BOLT-HEX | 2 | | | |
| 53 | XKBN-06170 | . WASHER | 11 | | | |
| 54 | XKBN-06172 | . FRAME-LIFTING | 1 | | | |

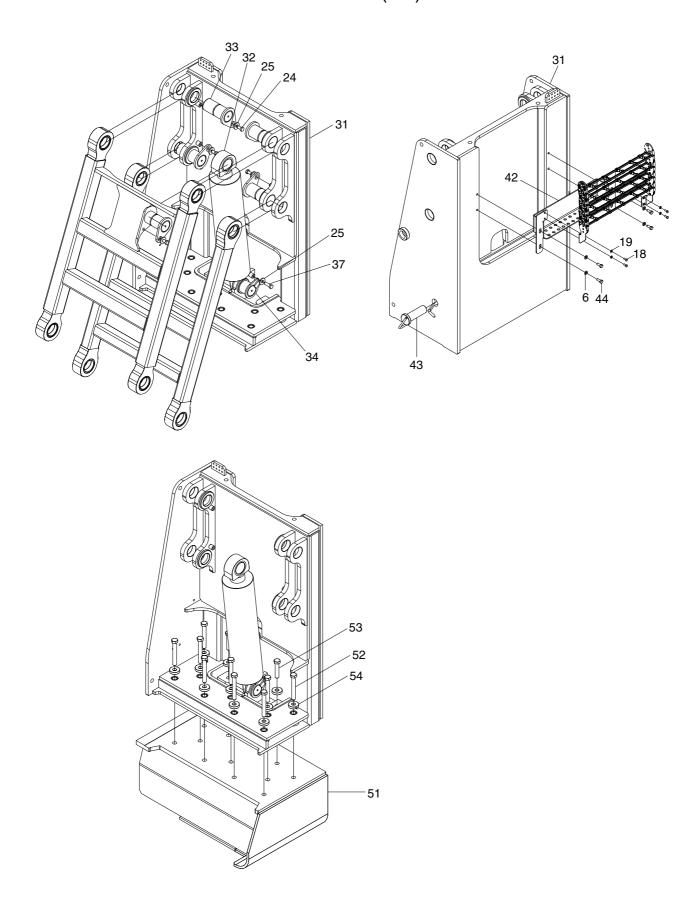
LIFTING CABIN (2/3)



G010 G010-1 G010-2

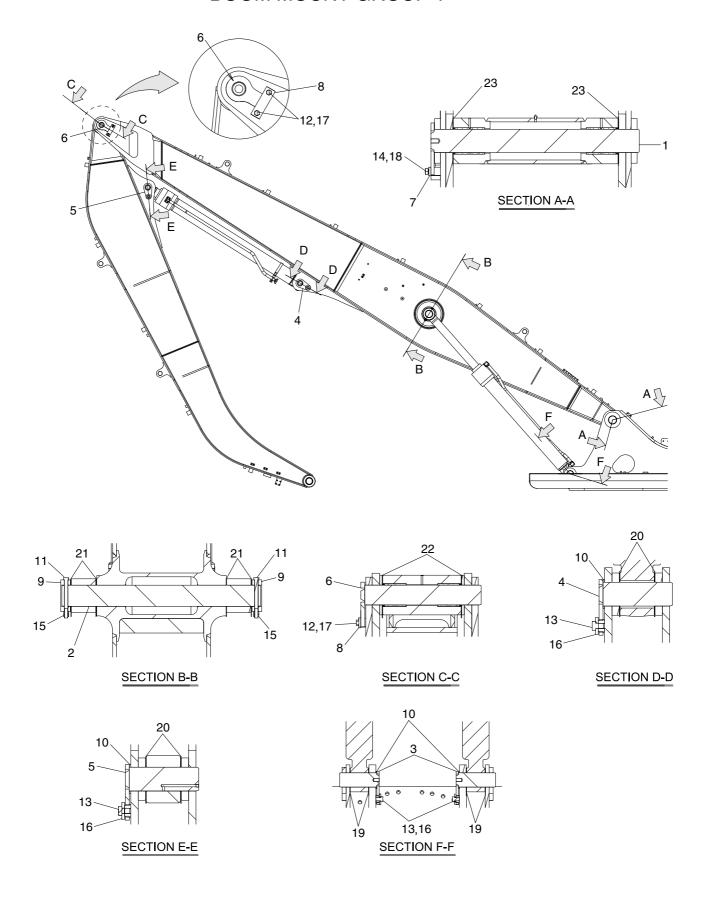
| ITEM | PART NO | DESCRIPTION | QTY | SERIAL NO | ITC | REMARK |
|------|------------|----------------------|-----|-----------|-----|--------|
| * | XKBN-06134 | CABIN-LIFTING | 1 | | | |
| 1 | XKBN-06135 | . FRAME-UNDER CABIN | 1 | | | |
| 2 | XKBN-06136 | . COVER-UNDER FRONT | 1 | | | |
| 3 | XKBN-06137 | . COVER-UNDER REAR | 1 | | | |
| 4 | XKBN-06138 | . STEP ASSY-SIDE | 1 | | | |
| 4-1 | XKBN-06139 | STEP ASSY | 1 | | | |
| 4-2 | XKBN-06140 | STEP ASSY | 1 | | | |
| 4-3 | XKBN-06141 | PLATE-SUPPORT | 2 | | | |
| 4-4 | XKBN-06142 | PLATE-SUPPORT | 1 | | | |
| 4-5 | XKBN-06143 | HANDLE | 1 | | | |
| 4-6 | XKBN-06144 | BOLT-HEX | 10 | | | |
| 4-7 | XKBN-06145 | WASHER | 10 | | | |
| 5 | XKBN-06144 | . BOLT-HEX | 16 | | | |
| 6 | XKBN-06145 | . WASHER | 28 | | | |
| 11 | XKBN-06146 | . BRACKET-FRONT | 1 | | | |
| 12 | XKBN-06147 | . CARRIER-CABLE | 1 | | | |
| 13 | XKBN-06148 | . PLATE | 1 | | | |
| 14 | XKBN-06149 | . SHIM | 2 | | | |
| 15 | XKBN-06150 | . STOPPER | 3 | | | |
| 16 | XKBN-06151 | . BOLT | 6 | | | |
| 18 | XKBN-06152 | . BOLT-HEX | 6 | | | |
| 19 | XKBN-06153 | . WASHER | 2 | | | |
| 20 | XKBN-06154 | . BOLT-SOCKET | 3 | | | |
| 21 | XKBN-06155 | . LINK ASSY-UPPER | 1 | | | |
| 22 | XKBN-06156 | . LINK ASSY-LOWER | 1 | | | |
| 23 | XKBN-06157 | . PIN ASSY-BASE LINK | 4 | | | |
| 24 | XKBN-06158 | . BOLT-HEX | 9 | | | |
| 25 | XKBN-06159 | . WASHER | 10 | | | |
| 31 | XKBN-06160 | . CYLINDER ASSY | 1 | | | |
| 32 | XKBN-06161 | . PIN ASSY-SUPPORT | 5 | | | |
| 33 | XKBN-06162 | . PIN ASSY-CYL | 1 | | | |
| 34 | XKBN-06163 | . BOLT-HEX | 1 | | | |
| 37 | XKBN-06164 | . BRACKET-REAR | 1 | | | |
| 42 | XKBN-06165 | . PIN-SAFETY | 1 | | | |
| 43 | XKBN-06166 | . BOLT-HEX | 4 | | | |
| 44 | XKBN-06167 | . BASE-LIFTING | 1 | | | |
| 51 | XKBN-06168 | . BOLT-HEX | 9 | | | |
| 52 | XKBN-06169 | . BOLT-HEX | 2 | | | |
| 53 | XKBN-06170 | . WASHER | 11 | | | |
| 54 | XKBN-06172 | . FRAME-LIFTING | 1 | | | |

LIFTING CABIN (3/3)

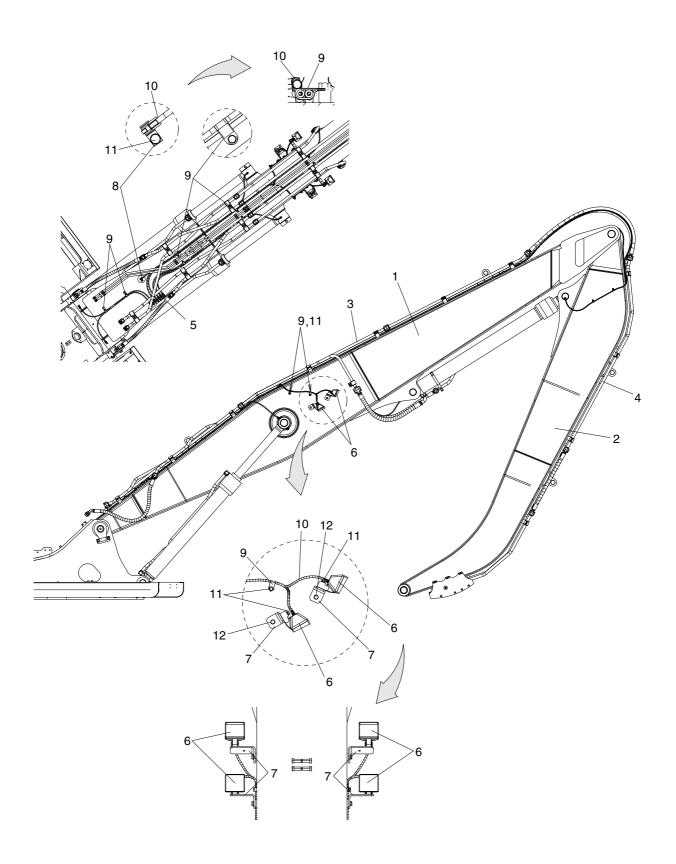


G010 G010-2 G010-1

| ITEM | PART NO | DESCRIPTION | QTY | SERIAL NO | ITC | REMARK |
|------|------------|----------------------|-----|-----------|-----|--------|
| * | XKBN-06134 | CABIN-LIFTING | 1 | | | |
| 1 | XKBN-06135 | . FRAME-UNDER CABIN | 1 | | | |
| 2 | XKBN-06136 | . COVER-UNDER FRONT | 1 | | | |
| 3 | XKBN-06137 | . COVER-UNDER REAR | 1 | | | |
| 4 | XKBN-06138 | . STEP ASSY-SIDE | 1 | | | |
| 4-1 | XKBN-06139 | STEP ASSY | 1 | | | |
| 4-2 | XKBN-06140 | STEP ASSY | 1 | | | |
| 4-3 | XKBN-06141 | PLATE-SUPPORT | 2 | | | |
| 4-4 | XKBN-06142 | PLATE-SUPPORT | 1 | | | |
| 4-5 | XKBN-06143 | HANDLE | 1 | | | |
| 4-6 | XKBN-06144 | BOLT-HEX | 10 | | | |
| 4-7 | XKBN-06145 | WASHER | 10 | | | |
| 5 | XKBN-06144 | . BOLT-HEX | 16 | | | |
| 6 | XKBN-06145 | . WASHER | 28 | | | |
| 11 | XKBN-06146 | . BRACKET-FRONT | 1 | | | |
| 12 | XKBN-06147 | . CARRIER-CABLE | 1 | | | |
| 13 | XKBN-06148 | . PLATE | 1 | | | |
| 14 | XKBN-06149 | . SHIM | 2 | | | |
| 15 | XKBN-06150 | . STOPPER | 3 | | | |
| 16 | XKBN-06151 | . BOLT | 6 | | | |
| 18 | XKBN-06152 | . BOLT-HEX | 6 | | | |
| 19 | XKBN-06153 | . WASHER | 2 | | | |
| 20 | XKBN-06154 | . BOLT-SOCKET | 3 | | | |
| 21 | XKBN-06155 | . LINK ASSY-UPPER | 1 | | | |
| 22 | XKBN-06156 | . LINK ASSY-LOWER | 1 | | | |
| 23 | XKBN-06157 | . PIN ASSY-BASE LINK | 4 | | | |
| 24 | XKBN-06158 | . BOLT-HEX | 9 | | | |
| 25 | XKBN-06159 | . WASHER | 10 | | | |
| 31 | XKBN-06160 | . CYLINDER ASSY | 1 | | | |
| 32 | XKBN-06161 | . PIN ASSY-SUPPORT | 5 | | | |
| 33 | XKBN-06162 | . PIN ASSY-CYL | 1 | | | |
| 34 | XKBN-06163 | . BOLT-HEX | 1 | | | |
| 37 | XKBN-06164 | . BRACKET-REAR | 1 | | | |
| 42 | XKBN-06165 | . PIN-SAFETY | 1 | | | |
| 43 | XKBN-06166 | . BOLT-HEX | 4 | | | |
| 44 | XKBN-06167 | . BASE-LIFTING | 1 | | | |
| 51 | XKBN-06168 | . BOLT-HEX | 9 | | | |
| 52 | XKBN-06169 | . BOLT-HEX | 2 | | | |
| 53 | XKBN-06170 | . WASHER | 11 | | | |
| 54 | XKBN-06172 | . FRAME-LIFTING | 1 | | | |

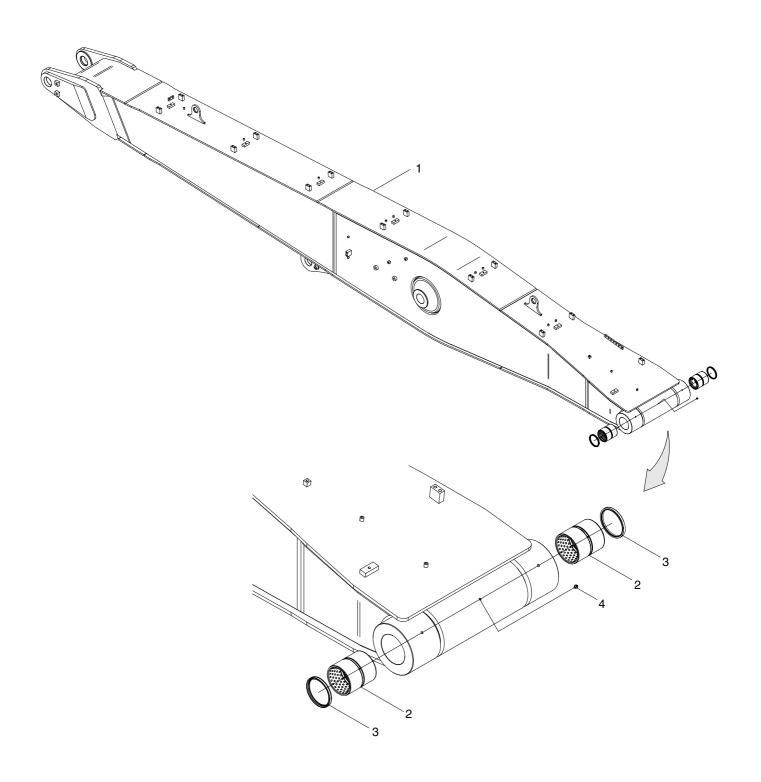


| ITEM | PART NO | DESCRIPTION | QTY | SERIAL NO | ITC | REMARK |
|------|---------------|--------------------|-----|-----------|-----|--------|
| * | XKBN-06171 | MOUNT-BOOM | 1 | | | |
| 1 | 61Q8-00010 | . PIN-JOINT | 1 | | | |
| 2 | 61E9-11021 | . PIN-JOINT | 1 | | | |
| 3 | 61Q6-01700GG | . PIN-JOINT | 2 | | | |
| 4 | XKBN-06120 | . PIN-JOINT | 1 | | | |
| 5 | XKBN-06121 | . PIN-JOINT | 1 | | | |
| 6 | XKBN-06122 | . PIN-JOINT | 1 | | | |
| 7 | 61Q8-00310 | . PLATE | 1 | | | |
| 8 | 61Q8-00320 | . PLATE | 1 | | | |
| 9 | 61Q6-00330 | . PIN-STOP | 2 | | | |
| 10 | 61Q8-00150 | . SPACER-PIN | 4 | | | |
| 11 | XKBN-06123 | . BOLT-HEX | 2 | | | |
| 12 | S017-16035D | . BOLT-HEX | 2 | | | |
| 13 | S017-20030D | . BOLT-HEX | 4 | | | |
| 14 | S017-20035D | . BOLT-HEX | 2 | | | |
| 15 | XKBN-00665 | . NUT-HEX | 4 | | | |
| 16 | 61N8-00320-DA | . WASHER-HARDEN | 4 | | | |
| 17 | XKBN-06124 | . WASHER-SPRING | 2 | | | |
| 18 | XKBN-06125 | . WASHER-SPRING | 2 | | | |
| 19 | S991-090150 | . SHIM-POLYMER 1.0 | 4 | | | |
| 19 | S993-090150 | . SHIM-POLYMER 2.0 | 4 | | | |
| 20 | S991-090170 | . SHIM-POLYMER 1.0 | 4 | | | |
| 20 | S992-090170 | . SHIM-POLYMER 1.5 | 4 | | | |
| 20 | S993-090170 | . SHIM-POLYMER 2.0 | 4 | | | |
| 21 | S991-100160 | . SHIM-POLYMER 1.0 | 4 | | | |
| 21 | S993-100160 | . SHIM-POLYMER 2.0 | 4 | | | |
| 22 | S991-100200 | . SHIM-POLYMER 1.0 | 2 | | | |
| 22 | S992-100200 | . SHIM-POLYMER 1.5 | 2 | | | |
| 22 | S993-100200 | . SHIM-POLYMER 2.0 | 2 | | | |
| 22 | S994-100200 | . SHIM-POLYMER 2.5 | 2 | | | |
| 23 | S991-110210 | . SHIM-POLYMER 1.0 | 2 | | | |
| 23 | S992-110210 | . SHIM-POLYMER 1.5 | 2 | | | |
| 23 | S993-110210 | . SHIM-POLYMER 2.0 | 2 | | | |
| 23 | S994-110210 | . SHIM-POLYMER 2.5 | 2 | | | |
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| ITEM | PART NO | DESCRIPTION | QTY | SERIAL NO | ITC | REMARK |
| * | XKBN-06126 | MOUNT-BOOM | 1 | | | |
| 1 | XKBN-06069 | . BOOM ASSY | 1 | | | SEE PH020 |
| 2 | XKBN-06071 | . ARM ASSY | 1 | | | SEE PH030 |
| 3 | XKBN-06073 | . PIPE-BOOM | 1 | | | SEE PC070 |
| 4 | XKBN-06095 | . PIPE-ARM | 1 | | | SEE PC140 |
| 5 | XKBN-06113 | . PIPE-GREASE | 1 | | | SEE PC080 |
| 6 | 21QB-60700 | . LAMP ASSY-WORK | 4 | | | |
| 7 | XKBN-06132 | . BRACKET-LAMP | 4 | | | |
| 8 | 25D1-10640 | . CLIP | 1 | | | |
| 9 | 31L7-10350 | . CLAMP | 8 | | | |
| 10 | XKBN-06133 | . HARNESS | 1 | | | |
| 11 | S037-102026 | . BOLT-W/WASHER | 9 | | | |
| 12 | S037-122526 | . BOLT-W/WASHER | 4 | | | |
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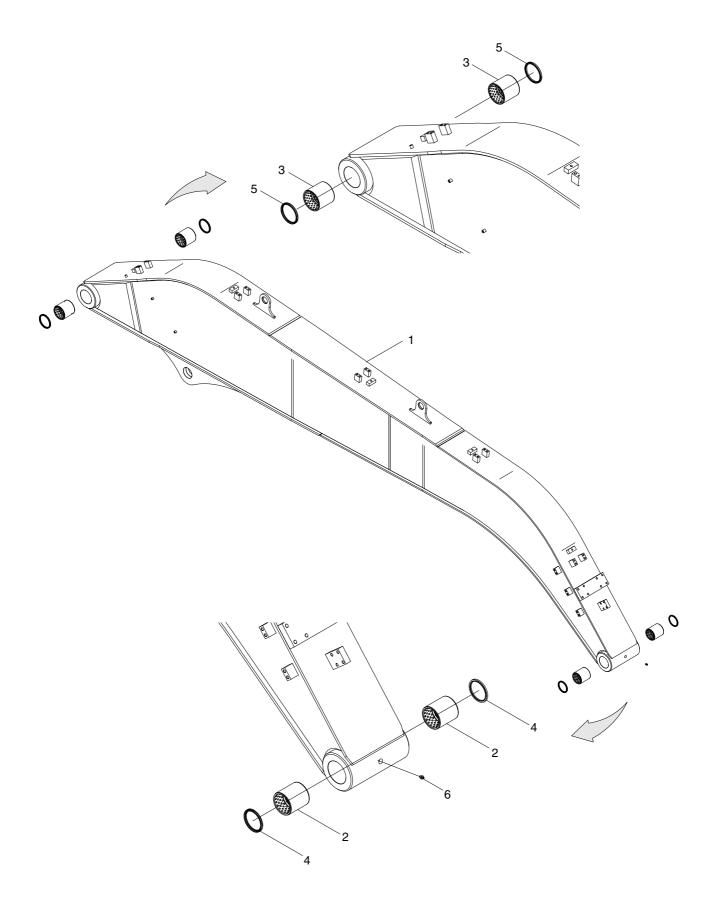
BOOM ASSY



BOOM ASSY HX300S L MH

| ITEM | PART NO | DESCRIPTION | QTY | SERIAL NO | ITC | REMARK |
|-----------|--|--|-----------|-----------|-----|--------|
| * 1 2 3 4 | XKBN-06069 XKBN-06070 X172-223140 Y020-110111 XKBN-00009 | BOOM ASSY . BODY-BOOM . BUSHING-DIMPLE . SEAL-DUST . NIPPLE-GREASE | 1 1 2 2 1 | | | 7.8M |
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ARM ASSY



ARM ASSY HX300S L MH

| ITEM | PART NO | DESCRIPTION | QTY | SERIAL NO | ITC | REMARK |
|---------------|--|---|---------------------------------|-----------|-----|--------|
| * 1 2 3 4 5 6 | XKBN-06071 XKBN-06072 X171-163100 X171-203110 Y020-080011 Y020-100111 XKBN-00009 | ARM ASSY . BODY-ARM . BUSHING-DIMPLE . BUSHING-DIMPLE . SEAL-DUST . SEAL-DUST . NIPPLE-GREASE | 1 1 2 2 2 2 1 | | | 5.4M |
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