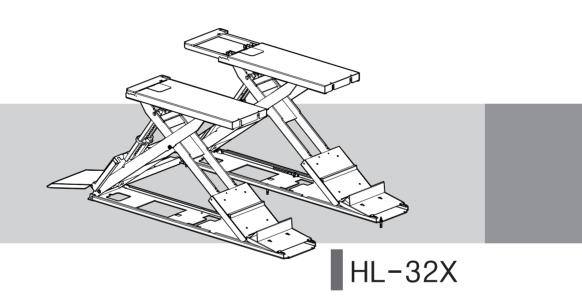


HESHBON SCISSORS LIFT

Installation/Operation & Maintenance Manual



Please read this manual before you get started. You must read and understand the precautions for safety to protect your safety and any damage to your property.

NOTE TO THE USER

Thank you for purchasing HESHBON CAR LIFT Please read this instruction carefully for safe and proper use of the car lift, and keep it handy for future reference.

- This Manual is for model: HL 32X
- As for the assurance of safety in design and construction of car lift, read this manual first.
- Please make sure that this Manual is delivered to end users for their implementation of safety.
- Don't use the car lift in a potentially explosive atmosphere.

ANY PART OF THIS PRINT MUST NOT BE REPRODUCED IN ANY FORM WITHOUT PERMISSION.

THIS PRINT IS SUBJECT TO CHANGE WITHOUT NOTICE.

NO. 32X081101A

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Introduction

Safety

Installation

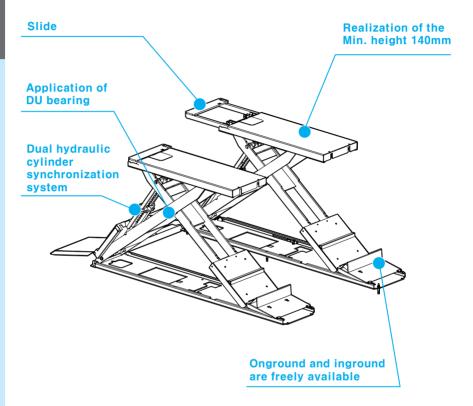
Operation

Mainternance

Part List

Features and characteristics

Introduction





Realization of the lower ground lift

► Cars are entered easily and minimize lift drop accident from minimum height 140mm realization.



■ Double high-pressure seals

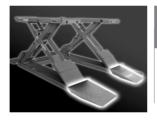
► Powerfull hydraulic cylinder with double u-packing seals.

Introduction



■High performed upper roller

► DU bearing in roller for reducing noise and durability.



- Onground and inground are freely available
- ► As workshop situation, freely change types.



■ Slide of platform

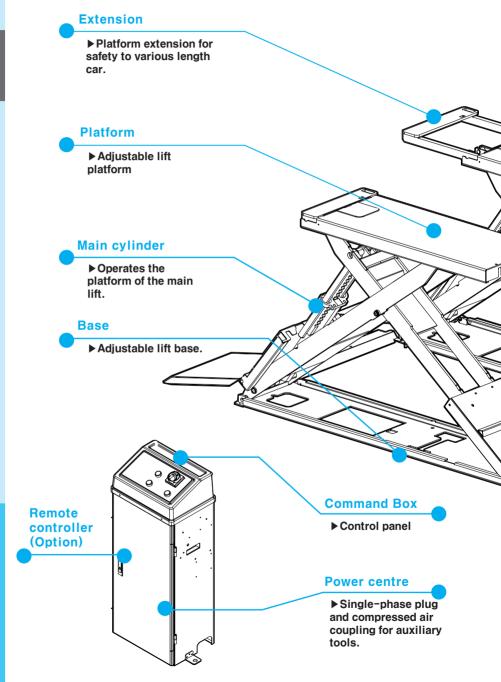
► Slide bar is applied to the platform for van or longer vehicle.

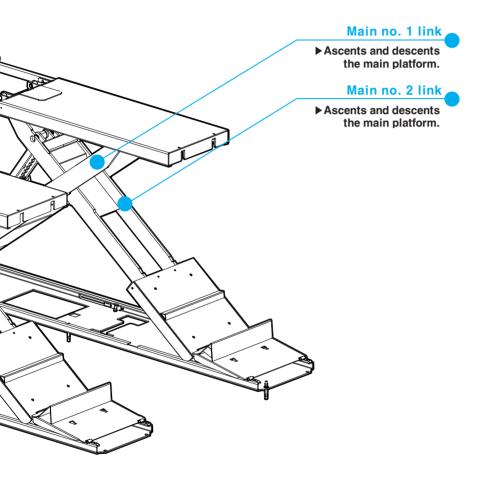


- Dual hydraulic cylinder synchronization system
- ► Use four cylinders for synchronization performance.

Names of each part are described

Introduction

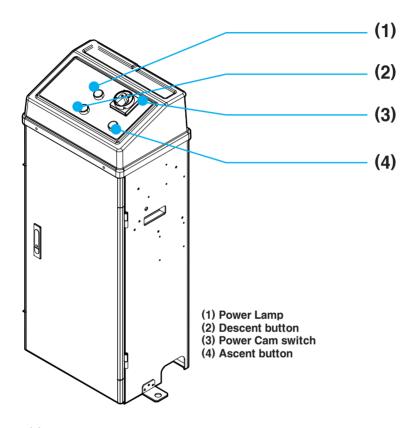






Control panel

Introduction



- (1) Power Lamp
- (2) Descent button Descends the main platform
- (3) Power Cam Switch Supply or isolate the power of the lift.
- (4) Ascent button Ascends the main platform

Specification

Model Name	HL-32X
Capacity	3,000 Kg
Used Hydraulic Pressure	250 Kgf/cm²
Overall Max.Height	1,953 mm
Min.Runways Height	140 mm
Stroke	1,813 mm
Lifting Time	Approx. 55 ~ 65 sec
Lowering Time	Approx . 50 ~ 65 sec.
Standard Motor	1ph 2.5HP 220V 60Hz / 3ph 2HP 220,380V 60Hz
Net Weight	1,050 kg
Layout Dimension	3,841 $ imes$ 140 $ imes$ 2,065 mm

Introduction



enjoy repairing



Caution Sticker layout

Introduction



Heshbon Lift

Capacity

Introduction



enjoy repairing



Danger/warning/caution

Rules for illustrations in the Manual.

These are the rules for the illustrations in the manual. Make sure that you read and understand them. The rules are applied only to the manuals of Heshbon Co., Ltd.



Make sure you follow the instructions, otherwise critical injuries can occur.



Make sure you follow the instructions, otherwise critical injury or damage can occur.



Make sure you follow the instructions; otherwise, injury or damage can occur



The terms are described to enhance the understanding of the equipment.



Information to use the equipment efficiently.



Precautions or check points for the use of the equipment.



Please refer to the page



Do not come under the vehicle during operation.

It may cause severe injuries.

Evacuate to a safe place instantly in the event that the vehicle tips. It may cause severe injuries.



Do not overload the rated capacity. It may cause severe injuries.









Warning before using the equipment

Only trained personnel may operate the equipment. Inexperience can cause accidents.



Position the vehicle to make sure that it is balanced front and rear, right and left (otherwise the vehicle may fall off).



Do not operate damaged equipment (a critical accident could occur contact your Heshbon supplier)



After that a vehicle is placed on the lift make sure that the hand brake is applied. Passenger transport is forbidden.





Warning while operating

Allow no unauthorized persons in the work area.

Before lowering the lift, check that there are no obstructions under the vehicle or the lift arms. When the vehicle is lifted, do not rock it as this may dislodge it.

Do not lift a vehicle using one pair of arms only.









Safety



Warning while operating

To avoid injury, keep your feet clear of the arms and carriages. Before going under the lift, make sure that the safety pawls are engaged. To avoid being electrocuted, disconnect the main power before opening the control panel.

Do not modify the control panel or the safety functions as this may impair their function.











Warning when operating

Do not rock the vehicle when lifted. Do not use a high pressure cleaner as the vehicle lower part.



Read and fully understand the manual before using the lift



Warning before using the equipment



If the lift is idle for a long time, disconnect the main power supply. In the event of thunder storm. disconnect the main power supply.



Checklist before installing

Installation site

The site must be flat and horizontal. The floor must have minimum 160mm depth of reinforced concrete.

160mm

Surface load under the posts must be minimum 25N/mm.



To maintain the warranty, the lift is intended for indoor installation only. In the event that it is installed outside it should be protected from snow and rain. Outdoor installation makes the warranty invalid.



Installation site

Ambient temperature 10℃ to 50℃. Do not operate under freezing conditions.



Vehicle access to the lift must be safe and easy.



There must be a safe working distance of minimum 1m between the lift and the wall or any fixed object.



Installation site

To ensure that the anchor is secure, the hole for an anchor bolt must be more than 2/3 of the bolt length.



Skilled engineers of Heshbon or its sale representative agency shall install the lift, otherwise a failure may occur.



Please contact Heshbon head office or distributors for the removal of lifts.

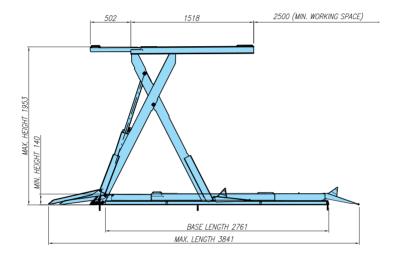


Place of installation (Layout)

Check points before selecting the place of installation

- ① Distance from the wall or any fixed object
- 2 Drive-on direction
- 3 Position of power post and slave posts
- 4 Ceiling height

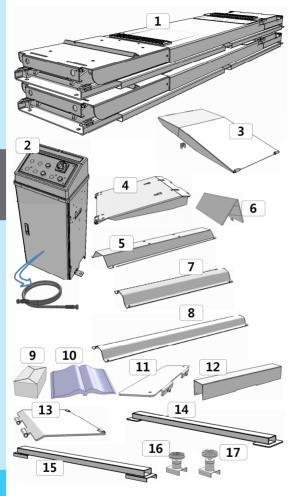




3837

Check if anything is missing

■ Check the items of HL-32X



HL-32X (Ground type)

- 1. Main body
- 2. Control panel: 1unit
- 3. Entrance plate at front side (Ground type): 2 unit
- 4. Entrance plate at rear side (Ground type): 2 unit
- 5. Synchronization cover (Ground type): 1unit
- 6. Stopper at rear side (Ground type): 2 unit
- 7. Hose cover1: 1unit
- 8. Hose cover2: 1unit
- Component box for shipment : 1 unit
- 10. Manual: 1unit

HL-32X (Inground type)

- 1. Main body
- 2. Control panel: 1unit
- 9. Component box for shipment: 1 unit
- 10. Manual: 1unit
- 11. Entrance plate at front side (Inground type): 2 unit
- 12. Hose cover
 - (Inground type): 1 unit
- 13. Entrance plate at rear side (Inground type): 2 unit

HL-32X (Option)

- 14. Extension beam SET-1 (1 unit)
- 15. Extension beam SET-2 (1 unit)
- 16. Extension beam SET-3 (2 unit)
- 17. Extension beam SET-4 (2 unit)

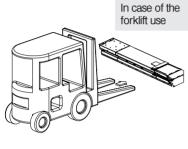


Check the items: If any of these items is missing from the box, contact your sales representative. Preparation for installation: Deploy the items in the installation site as specified in the layout. Check the positions of power and slave posts, drive-on direction, safe working area.

Installation procedures

■ Landing down the product at the place to be installed

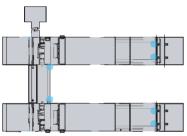
- ▶ Place the lift main body at the place to be installed referring to layout document.
- Fixing the product after checking the caution notes.



In case of the crane use



Installation



■Fixing the base with anchor bolt

▶ Fix the 6pcs Anchor bolt of the base plate and 2pcs Anchor bolt of the control panel after supporting lift using liner.

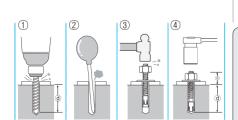
■Fixation horizon of the base

- ► After adjust horizon of the product precisely, fix up using anchor bolt.
- 1 Adjustment the level of the base.

After measure the horizontal status, lay down the lie.

2 Fixation of base (anchor)

After adjust the level, fix up the base platform using anchor.

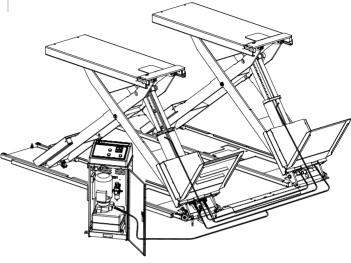


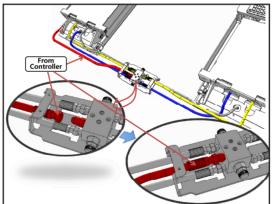
Anchor bolt installation.

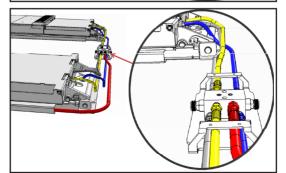
- Drill a hole (@: hole depth)
- (2) Clean the inside of the hole
- ③ Put the anchor bolt into the hole and hammer in until it reaches the bottom of the hole
- 4 Tighten the bolt with a spanner. (@35~45mm)- Torque: 80~100N.m

■Connection of oil pressure hose

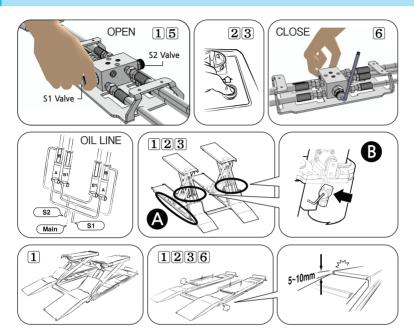
▶ Connect oil pressure hose by referring oil pressure line diagram. (Refer to part list oil pressure circuit)







How to level adjusting (unloaded) - Use by user



1 Horizontal control

- Descend to bottommost position and continue to push the down button again fully after opened the valve "S1,S2".
- 2. Push the ascending button like short time clicking several times for filling oil to 20~40mm gap height. Descend again.
- 3. Once again, click the ascending button for a short time several times for filling oil until beginning time of the moving board (platform).
- 4. Descend again to bottommost.
- Next, still to be opened "S1,S2 valve", push the ascending button for a short time several times.
- 6. (Important) at this time with No.5, at the moment to be started moving up the board(5~10mm) with leveled both boards, close the both valves(S1,S2) tightly at the same time. Finish.



▶ If maintaining level is not well achieved with vehicles on the lift, after-sales service is strongly recommended. Self-operating by customer is heavily dangerous. Our company is not responsible for any accidents that occur from this case.

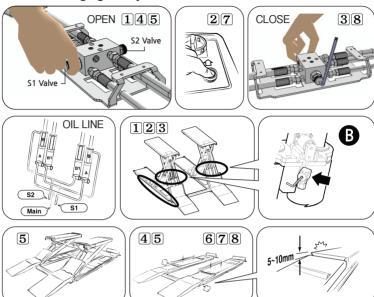


► Any operations other than what is introduced in this manual are supposed to be handled with other service instructions.

Any accidents coming from manipulation of manual above is out of company's responsibility.

How to level adjusting (unloaded)-Service man

- After changing the cylinder or oil hose



Installation

Horizontal control

- 1. First, bleed the air inside of cylinder and oil line after filling the oil.
- 2. Ascend the board to the topmost position after release the limit switch "A". Unscrew the "B", and push the ascending button for bleeding.
- 3. Push the ascending button several times, and screw the "B" tightly.
- 4. Descend to bottommost position and continue to push the down button again fully after opened the valve "S1.S2".
- 5. Push the ascending button like short time clicking several times for filling oil to 20~40mm gap height. Descend again.
- Once again, click the ascending button for a short time several times for filling oil until beginning time of the moving board (platform).
- 7. Descend again to bottommost.
- 8. Next, still to be opened "S1,S2 valve", push the ascending button for a short time several times.
- 9. (Important) at this time with No.5, at the moment to be started moving up the board(5~10mm) with leveled both boards, close the both valves(S1,S2) tightly at the same time. Finish.



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Any operations other than what is introduced in this manual are supposed to be handled with other service instructions. Any accidents coming from manipulation of manual above is out of company's responsibility.

Check points before operation

Before loading the lift, check the following points.



■ Test operation

▶ Operate ascent and descent 2~3 times under no load condition.

■ Switch operation

► Check that the ascent and descent push buttons are working correctly.

■ Hydraulic check

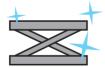
► Check if there are no hydraulic leaks from either cylinders, pipes, or hose joins.

Operation



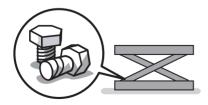
■ Mechanical check

► Check the tightness of all nuts, bolts, etc.



■ Exterior check

► Check the exterior of the lift to ensure that there is no obvious damage.



■ Cleanliness

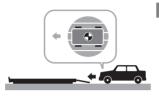
► Check every day that the lift and the work area are clean and free from debris or obstructions.

Inspect the lift everyday to operate the lift safely for a long time.

Operation

Prior to use

Check that the platforms are parked at floor level by using the descent button. Check that the auxiliary lift is at the down position.



2 Prior to vehicle entry

Check that the position of the righthand (movable) platform is suitable for the majority of the vehicles to be lifted. Fix the platform at this position with the bolts provided.



Attention before you enter







Remove the humidity of the tire before you enter.

Attention the sudden stop.

After you drive into the lift, hold the side brake.

After you drive into the lift, get out of the car.

3 Lift up the lift to the second descent position

Press the ascent switch, and lift up to the 140mm height. Extract the platform slide plate at the 140mm height and adjust position to be lifted safely. (use rubber support)



4 Vehicle repair

Perform the necessary repairs and/ or maintenance on the vehicle. After completion, lower the auxiliary lift. As soon as the vehicle load is firmly on the platforms, stop the descent of the auxiliary lift, remove the rubber pads, push in the extensions, and lower to bottom position.Lower main lift.



5 Descent lift

Press the decent switch and descend to the position (140mm height), and return the platform slide plate to the original place, and descend to the bottom postion.

Extract the car after checking it is descended to the bottom place completely.

Operation

1700 mm

1700 mm

Proper car lift method (the weight setting)

Proper weight setting method(3-ton standard)

▶ Using the proper car weight setting method. lift would be maintained safely. This guide follows the Europe CE standards.

Entering from the front side

▶ Set the weight front/rear platform. each ratio 3:2 3/5 region is 1800kg, 2/5 region is 1200kg, total 3000kg setting is possible.



▶ Set the weight front/rear platform, each ratio 3:2 3/5 region is 1800kg, 2/5 region is 1200kg, total 3000kg setting is possible.

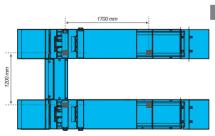
3 Put the rubber plate on the proper position.

▶ Place the rubber switch on 1700mm X 1200mm region corner. (Any place inside the 1700mm X 1200mm, cars are lifted safely)



► This guide show the normal standard. Following the car vendor, model, position of the engine, this guide would be modified.

Operation



MEMO

Operation

Equipment maintenance and service



▶ Periodic grease and oil injection maintain the product to be safe.



► Grease or oil should be applied every 2 or 3 months to the parts shown below.

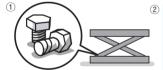


1 Injecting grease

► Inject enough grease at shaft of auxiliary lift and roller. (2~3 months period)

2 Injecting oil

► Location of injecting lubricating oil - Paint the lubricant oil to the rubbing surface, base platform every 2~3 months.





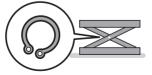
■ Cleanliness

① Check the working area under and around the lift for cleanliness. Check visibly if any nuts or bolts are loose or missing. Replace and retighten as necessary.

②Safety devices Check the area around the safety devices for cleanliness and any obstruction.



■ Check the snap-ring of the link axis



► Check the existence of the inside and outside of the link axis.

Maintenance

Auxiliary lift platform extensions

▶ Check that the rear extensions can be adjusted throughout the full length of their travel without obstruction. Check that the stop bolts at full travel are in place and are tight. Check the surfaces of the extension arms for wear.

■ Emergency descent

How to descend the lift manually in emergency

It is necessary

- ①When a blackout or the hydraulic circuit failure occurs
- When the lift cannot descend as specified in the troubleshooting.

Preparation before operating

- 1) Remove any object under the lift.
- ② Turn off the main power switch and panel power switch.
- 3 Manually release the locker in case of locking state, releases the locker while another hydraulic device is lifting the locker 30 mm high.
- 4 After taking to pieces in manually, put the supports between lockers.





This situation is potentially very dangerous.

This operation should not be undertaken by unskilled staff. Therefore, if in any doubt, call your lift supplier immediately for after sales service.



Operation procedure of manual descent

Remove the cover of the powerpack.
Remove the solenoid valve hexagon
cap (19mm) in the middle of the pump
manifold.

Turn the emergency cock lever (a) very slowly anti-clockwise. Too much movement will increase descent speed too much.



Turn the emergency cock lever very slowly to ensure that descent speed is slow and safe, especially if there is a vehicle on the lift.

Steps after completing the operation

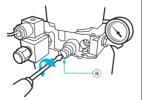
▶ Turn the lever clockwise and lock it securely when the lift reaches bottom position. Replace and refit the hexagon cap. Request after sales service to check the lift.

2 Powerpack pressure



The pressure is set by the factory. The lift may be damaged if the operator increases the pressure. If the equipment does not lift the rated capacity, contact your lift supplier for engineer assistance.

Maintenance



Information for the authorized service engineer only

Open the control panel and install a pressure gauge in the pump manifold as shown. The pressure adjusting screw (a) is sealed by the factory. Remove the seal and adjust the pressure with a screwdriver. This should be done while pressing the ascent button at the same time and with the lift loaded with the full rated capacity.

Proper pressure by model-

HL-32X - 250 Kgf/cm2

1 Oil injection

2 Oil discharge

- (a) Cap of the oil tank
- (b) Oil tank
- © Cover of the hydraulic unit
- **@ Pump filter**
- Emergency manual pump : option
- ① Emergency cock

3 Oil change

Oil should be changed 3 months after installation and thereafter annually.

Oil change procedure

- 1) Remove the cover of the hydraulic unit.
- ② Remove the oil filter cap and dipstick. Carefully remove the oil drain plug and allow the oil to discharge into a suitable container.
- 3 Refit the drain plug and tighten.
- 4 Refill the oil tank with new oil.
- ⑤ Check with the dipstick that the level is correct, raise and lower the lift and recheck that the level is still correct. If not, top up with oil.
- 6 Refit the cover.

4 Emergency manual pump operating

In case of the emergency situation you cannot use the electric operation, you can use manual hand pump "@" for emergency descent.

You can shake lever "@" repeatedly, then you can see that the Lift goes up slightly. Next, you should release the safety locker.

then you can descend manually with unscrewing the emergency "①" cock(check valve).



At the annual oil change, after having drained the oil tank, remove the oil tank from the pump and check the condition of the pump filter.

Clean or replace as necessary. Replace tank and follow the above procedure.

Troubleshooting

	Symptoms	Check point	Corrective Action to be taken
Hydraulic cylinder and its units	The abnormal noise at motor is hearable.	Rated capacity is exceeded. Relief pressure is low. Shortage of hydraulic oil.	Operate within rated capacity. Adjust to 3 ton. Let air out of the hydraulic unit after supplying the oil.
	Hydraulic Oil is leaked.	Defect in hydraulic hoses. Leakage from connecting parts. Bad cylinder packing.	Replace the hydraulic hose. Tighten the connection. Request A/S.
	Oil is contaminated.	Check if water or foreign substance comes into the cylinder,	Exchange oil (annually) (Hydraulic oil: 32CST/12litter)
	The lift is not moving up.	Check if the oil is leaked or hydraulic pump are damaged.	Pequest A/S.
	The lift is not lowering,	Check if the value is properly operated.	Request A/S.
	The fitting parts is rusted.	Check if the grease is not sufficiently injected.	In jet the grease every 1 month.
Electric Devices	Motor is not operating and the abnormal noise at the motor is hearable,	1. Check if the motor is damaged. 2. Check if the fuse is opened. 3. Check if the push button is damaged. 4. Check if the upper limit is operated. 5. Check if wiring gauge is proper. 6. Check if the input power less than 200V is supplied.	1 Replace the motor (Request A/S). 2. Replace the fuse after solving trouble. 3. Replace the push button (Request A/S). 4. Re-operate after lowering the lift. 5. Replace to the cable with over 3.5mm2 diameter. 6. Increase the input power capacity.
	Fuse is snapped	Check the contact of magnetic contactor. Check the capacity of circuit breaker. Check if the wire is damaged.	Replacement (Request A/S). Replacement (Request A/S). Replacement after checking.
	Motor is operating but lift is not moving up.	Check if the rotating direction of motor is correct. Check if hydraulic lines is damaged.	Re-operate after changing the phase connection. Refer to check points for hydraulic cylinder and unit.

Checklist and periodic maintenance

Inspection period	Points to be checked	Items to be checked	Inspection method	Action to be taken	Replacement period
1 week	Rubber Support for adjustment	Abrasion and deformation	Visual	Replacement	1 year
	Magnetic contactor	Damage of contact	Measurement	Replacement	2 year
3 months	Wire Rope	Abrasion, deformation and Breaking of wire	Visual	Replacement	2 year
	Post Guide	Abrasion	Visual	Replacement	4 year
	DUbush	Abrasion	Visual	Replacement	4 year
	Axle for wire pulley	Noise and abrasion	Visual	Replacement	5 year
	Wire pully	Abrasion	Visual	Replacement	5 year
6 months	Electrical components	Damage of components	Measurement	Replacement	3 year
	Hydraulic Oil	Shortage of oil	Visual	Replacement	1 year
1 year	Piston Seal Kit	Oil leak or deformation	Visual	Replacement	3 year
	Load Seal Kit	Oil leak or deformation	Visual	Replacement	3 year



APPENDIX

- **PART LIST**
- **HYDRAULIC CIRCUIT**
- **■** ELECTRIC CIRCUIT
- PNEUMATIC CIRCUIT DIAGRAM

MODEL

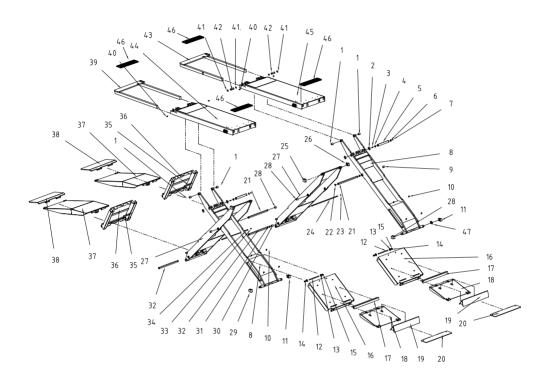
HL-32X

Version 3- 06.2012

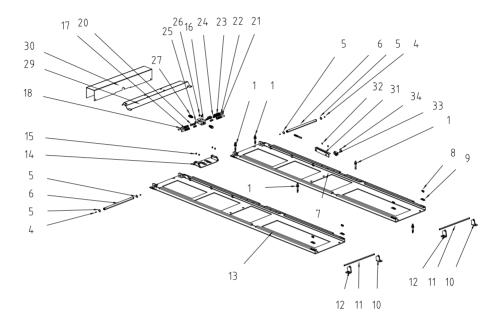
HESHBON®

This installation manual is prepared as of June 2012. This manual is subject to change without prior notice if the lift specificaion is changed.

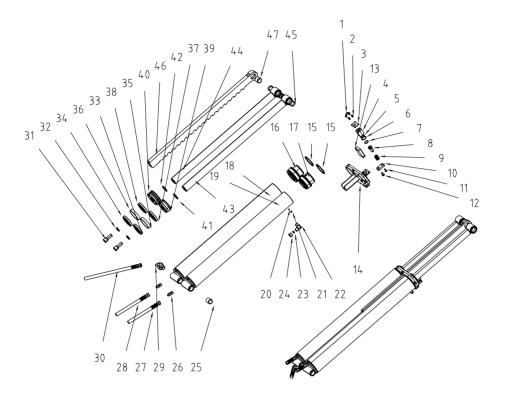
Platform / Link



				47	APPROACH SENSING BRACKET
				46	RUBBER PAD2
16	LINK RAMP	31	SNAP RING(CS25)	45	PLATFORM(L)
15	DIVIDE PIN	30	DU BUSH (DU2530)	44	PLATFORM(R)
14	PLATE WASHER	29	BOTTOM NYLONE(R)	43	EXTENSION BAR(L)
13	ROLLER(INGROUND ONLY)	28	DU BUSH(DU2530)	42	PLATFORM PIN
12	ROLLER PIN(INGROUND ONLY)	27	LINK 1	41	SNAP RING(CS25)
11	BOTTOM NYLONE(L)	26	TOP NYLONE(L)	40	EXTENSION STOP BOLT(WRENCH
10	WRENCH BOLT (M8×20L) 8EA	25	TOP NYLONE(R)		M8×15L)
9	DU BUSH (DU2530)	24	PIN Ø12	39	EXTENSION BAR(R)
8	LINK 2 (WELDED)	23	SNAP RING(CS12)	38	REAR CONNECTOR(INGROUND
7	GREASE NIPPLE	22	SNAP RING(CS25)		ONLY)
6	SNAP RING (CS30)	21	CENTER PIN	37	REAR RAMP
5	CYLINDER UPPER PIN	20	FRONT CONNECTOR(INGROUND	36	LINK 1-RAMP
4	SNAP RING (CS30)	1	ONLY)	35	CYLINDER BACK SLIDER
3	GREASE NIPPLE	19	FRONT STOPPER	34	PIN Ø12
2	PIN SPACER	18	FRONT RAMP	33	SNAP RING(CS12)
1	DU BUSH (DU2530)	17	TIRE REAR STOPPER	32	CYLINDER BOTTOM PIN
N0	PARTS LIST	NO	PARTS LIST	NO	PARTS LIST

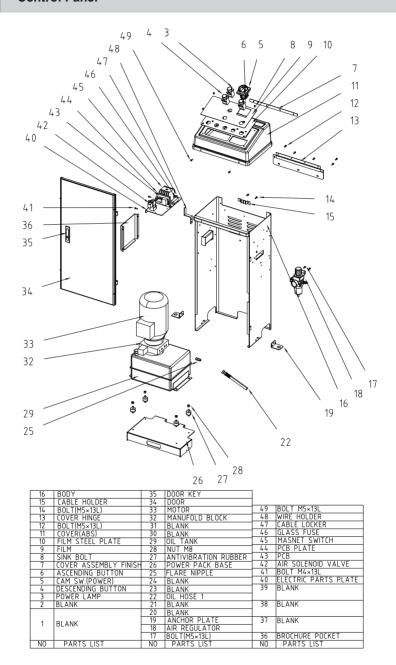


11	INGROUND FRONT RAMP				DOUND HEAD BOLT
	PIN(INGROUND ONLY)			34	ROUND HEAD BOLT APPROACH SENSOR
	T INVINIGING ONE TY	20	STEEL	32	TRUSS HEAD TAPPING BOLT
10	PIN BRACKET(L)		NIPPLE(PT1/4×1/2-20UNF)	,	IAPPROACH SENSOR BRACKET
	(INGROUND ONLY)			30	CENTER COVER(INGROUND
		19	BLANK	00	
9	NYLONE(ROLLER)	18	OIL HOSE 5		ONLY)
8	SINK BOLT M8×12L	17	OIL HOSE 6	29	CENTER COVER
7	BASE(L)	16	OIL CENTER BLOCK	28	BLANK
6	BASE PIN	15	OIL LINE COVER BOLT	27	NEEDLE VALVE(3/4-16UNF)
5	SNAP RING(CS25)		M6×10L	26	STOP PLUG(PT 1/8)
4	GREASE NIPPLE	14	CENTER OIL BRACKET	25	STOP PLUG(PT 1/4)
3	BLANK	13	BASE(R)	24	OIL HOSE 4
2-1	BLANK	12	PIN BRACKET(R)	23	OIL HOSE 1 (Main 3/8 inch)
2	BLANK		(INGROUND ONLY)	22	OIL HOSE 6
1	ANCHOR BOLT M12×100L		(21	OIL HOSE 5
NO	PARTS LIST	NO	PARTS LIST	NO	PARTS LIST

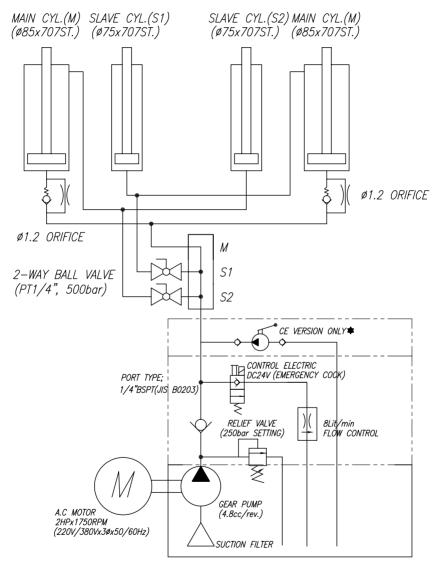


17	SLAVE HEAD COVER	32	SPRING WASHER	45	DU BUSH(DU3015)
16	MASTER HEAD COVER	31	WRENCH BOLT M16×25L	44	MASTER ROD BAR
15	SNAP RING (CS68)	30	OIL HOSE 5	43	SLAVE ROD BAR
14	LOCKER HOUSING	29	MALE CONNECTOR(ELBOW)	42	0-RING(P40)
13	LOCKER	28	OIL HOSE 4	41	0-RING(P40)
12	BOLT M8	27	OIL HOSE 6	40	MASTER PISTON
11	BOLT M6	26	FLARE NIPPLE	39	SLAVE PISTON
10	CONNECTOR	25	DU BUSH(DU2525)	38	PISTON SEAL(Ø75ר
9	SPRING	24	MALE CON2		85×6B)
8	AIR PISTON	23	MALE CON1	37	PISTON SEAL(Ø65ר
7	0-RING	22	MALE CONNECTOR(ELBOW)		75×6B)
6	SNAP RING(CR25)	21	SET SCREW	36	WEAR RING(Ø70ר75×10B)
5	AIR CYLINDER COVER	20	STEEL BALL	35	WEAR RING(Ø80ר85×10B)
4	AIR CYLINDER	19	SLAVE TUBE	34	PISTON SEAL(Ø75ר
3	AIR CYLINDER BRACKET	18	MASTER TUBE		85×6B)
2	BOLT M5×10L	47	DU BUSH(DU3015)	33	PISTON SEAL(Ø65ר
1	SNAP RING (CS15)	46	LOCKER RAIL		75×6B)
NO	PARTS LIST	NO	PARTS LIST	NO	PARTS LIST

Control Panel

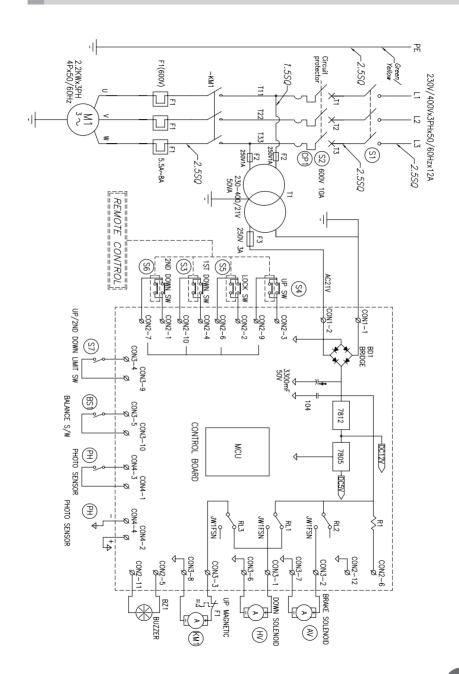


Hydraulic Circuit

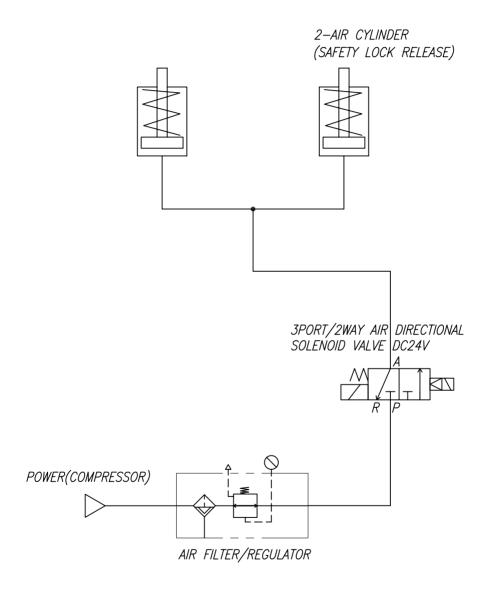


HYDRAULIC RESERVOIR (15LIT-SQUARE TYPE)

Electric Circuit



Pneumatic circuit diagram





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