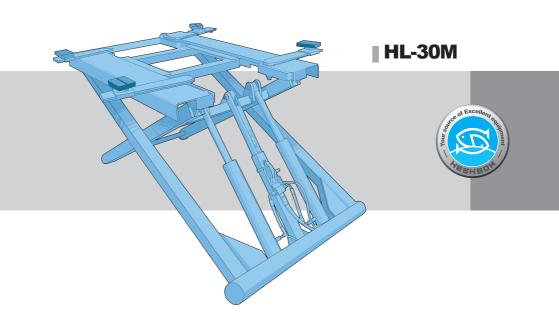




HESHBON MID-RISE LIFT

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,S 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 30M
- 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. 30M051102A

Introduction

Safety

Installation

Operation

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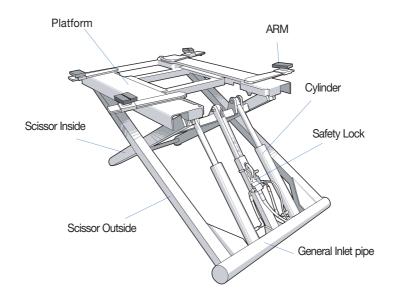
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■ This manual was prepared in April,2005 the product specifications contained in this manual are subject to change without notice,

Components

■ Lift

Introduction

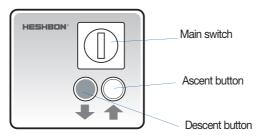


■ Control panel



Introduction

Description



Specification

Model Name	HL - 30M
Capacity	2700 kg
Hydraulic working pressure	200 Kgf/cm²
Overall Max.Height	1,000 mm
Min.platform height	170 mm
Stroke	340 mm
Lifting Time	15 ~ 25 sec
Lowering Time	10 ~ 20 sec.
Standard Motor	1ph 2.5HP 4P 220V 50/60Hz
Net Weight	320 kg
Layout dimensions (W/L/H)	1,017 × 2,000 × 100 mm

Rules for illustrations

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



Make sure you follow the instructions, otherwise critical injury or death 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



Safety

Do not come under the vehicle during operation.

▶ This can cause injury or death.





Evacuate to a safe



Do not overload the rated capacity

▶ This can cause injury or death.



*Not following the instructions can lead to a critical accident involving your life. Make sure you follow the instructions





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.











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

Warning before using the equipment

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 Check the safety devices to see that they are clean and operable.











Checklist before installing

Installation site

The site must be flat and horizontal, The floor must have minimum 250mm depth of reinforced concrete.



Surface load under the posts must be minimum 350kN/m2.



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

Installation site

Ambient temperature 10°C to 50°C. 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.



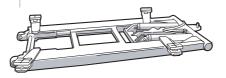


The lift should be installed by skilled engineers either from Heshbon's appointed representatives, Failure to observe this makes the lift warranty invalid. If the lift is to be moved to another site at a later date, it must be reinstalled by skilled engineers either from Heshbon or from Heshbon's appointed representatives.

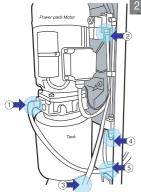
installation

1 Installation procedures

Place the main parts on the appropriate position





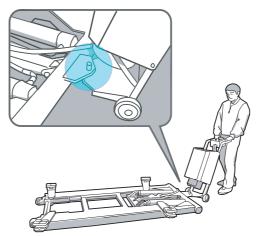


2 Assembling control panel

- ① Connection of pressure hose
- ② Connection of air hose (Out)
- (3) Connection of Main Power
- (4) Connection of air hose (IN)
- ⑤ Fix the hose with tie strings up to a distance of 100mm from control panel.

3 The way to move lift

After product establishment completing it sells and neyl it hangs it moves the main body mobile exchange seal in the main body. Hook as shown below to pull or push.



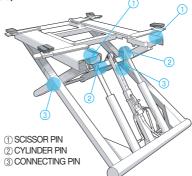
Installation

Lubrication

▶ At 2-or 3-month intervals, depending on service usage.

1 Molybdenum disulphide grease

▶ Apply molybdenum disulphide grease liberally to the carriage guides and the guide runners inside the posts,

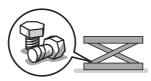








Operation

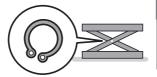


■ Cleanliness

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



- \blacktriangleright Clean safety devices at 2-or-3-month intervals, depending on service usage.
- Clean the arm lock gears and surroundings, lubricate the gear teeth and the release mechanisms.
 Clean the safety lock pawls, and lubricate the axles.



■ Check the circlep of the link axis

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



Dange

- the lift is very dangerous. Do not enter the lift.
- ② Do not touch the operational part if you do not understand the manual descending method
- ③ If you decide a failure cannot be treated properly request after-sale service immediately.

Corrective Action to be taken

Check point

Trouble Shooting

Symptoms

Hydraulic Cylinder And its units	ler at motor listened. 2. Relief pressure is low.		Operate within rated capacity. Adjust to 2,7 ton Let air out of the hydraulic unit after supplying the oil.
	2. Leakage from connecting parts.		Replace the hydraulic hose. Tighten the connection. Request A/S.
	Oil is contaminated.	Check if an water or Foreign substance comes into the cylinder.	Exchange oil (annually) (Hydraulic oil: 32CST/12litter)
	The lift is not move up.	Check if the oil is leaked or hydraulic pump are damaged.	Contact customer service department.
	The lift is not lowered. Check if the value is properly operated.		Contact customer service department.
	The fitting parts is rusted.	Check if the grease is not sufficiently injected.	Inject the grease every 1 month.
Electric Devices	Motor is not operated and the abnormal noise at motor is listened	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 moved up.	Check if the rotating direction of motor is correct. Check if hydraulic lines is damaged.	1. Re-operate after changing the phase connection. 2. Refer to check points for hydraulic cylinder and unit.

Maintenance

Check list 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	ire Rope Abrasion, deformation and Breaking of wire		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 Damage of components		Measurement	Replacement	3 year
	Hydraulic Oil	Shortage of oil	Visual	Replacement	1 year
1 year	Piston Seal Kit	Piston Seal Kit Oil leak or deformation		Replacement	3 year
	Load Seal Kit	Oil leak or deformation	Visual	Replacement	3 year

Maintenance



APPENDIX

PARTS LIST

MODEL

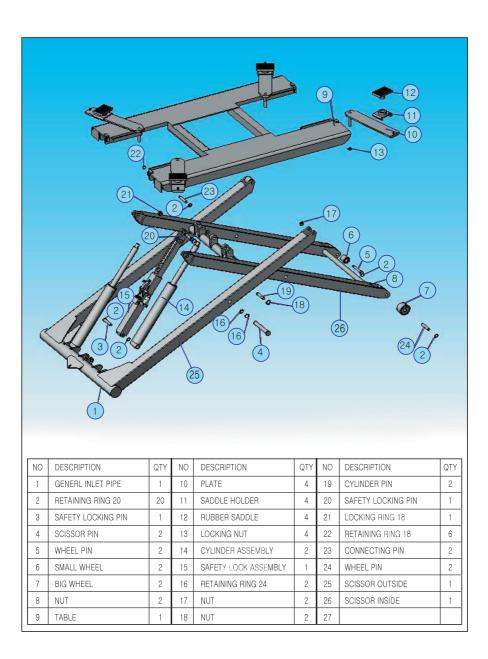
HL - 30M

VERSION 1 - 04.2005

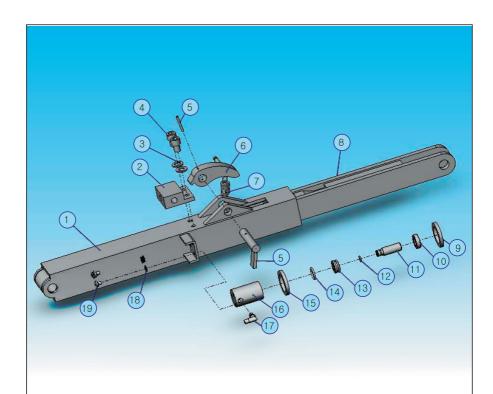
Your Source of Excellent Equipment



This installation manual is prepared as of April, 2005. This manual is subject to change without prior notice if the lift specificaion is changed.

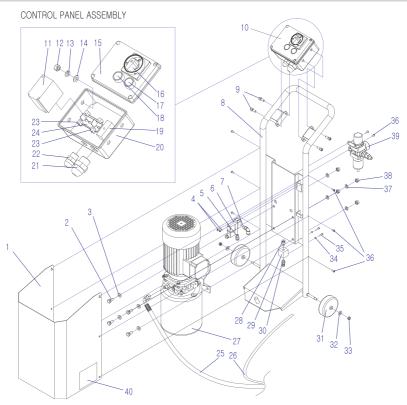


Safety Locker



N	10	DESCRIPTION	QTY	NO	DESCRIPTION	QTY	NO	DESCRIPTION	QTY
	1	LOCK SHEATH	1	8	LOCK POLE	1	15	C - RING	1
	2	BASE	1	9	C - RING	1	16	CYLINDER	1
	3	WASHER 12	2	10	RING	1	17	TIE - IN	2
	4	BLOT M12	2	11	RAM	1	18	WASHER 6	3
	5	PIN	1	12	O - RING	1	19	BOLT M 6	3
	6	LOCK BLOCK	1	13	BUSHING	1	20		
	7	SPING	1	14	O - RING	1	21		

Control panel



NO	DESCRIPTION	Q'TY	NO	DESCRIPTION	Q'TY
1	POWER UNIT COVER	1	21	CABLE LOCKER	1
2	HEX BOLT (M10x25L)	4	22	CABLE LOCKER	1
3	PLATE WASHER (M10)	4	23	STOPPER	2
4	ROUND HEAD BOLT (M4x25L)	2	24	RAIL	1
5	ONE TOUCH AIR NIPPLE(ST.) (PT1/8x6x4)	1	25	HYDRAULIC HOSE	1
6	AIR SOLENOID VALVE	1	26	PNEAUMATIC HOSE (6x4)	1
7	ONE TOUCH AIR NIPPLE(EL.) (PT1/8x6x4)	1	27	POWER UNIT	1
8	CONTROL PANEL CARRIER BODY	1	28	ONE TOUCH AIR NIPPLE(ST.) (PT1/4x6x4)	1
9	WRENCH BOLT (M8x20L)	4	29	AIR BLOCK	1
10	CONTROL BOX ASS'Y	1	30	AIR COUPLER PLUG	1
11	MAGNET CONTACTOR	1	31	CASTER WHEEL (4")	2
12	HEX NUT (M8)	4	32	PLATE WASHER (M10x3t)	2
13	SPRING WASHER (M8)	4	33	NYLON NUT (M8)	2
14	PLATE WASHER (M8)	4	34	SPRING WASHER (M4)	2
15	UPPER CONTROL BOX	1	35	ROUND HEAD BOLT (M4x20L)	2
16	CAM SWITCH	1	36	TRUSS HEAD TAPPING BOLT (M5x13L)	6
17	UP PUSH BUTTON SWITCH	1	37	SPRING WASHER (M10)	4
18	DOWN PUSH BUTTON SWITCH	1	38	HEX NUT (M10)	4
19	FUSE HOLDER	1	39	AIR UNIT (OPTION)	1
20	BUTTOM CONTROL BOX	1	40	NAME PLATE	1



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