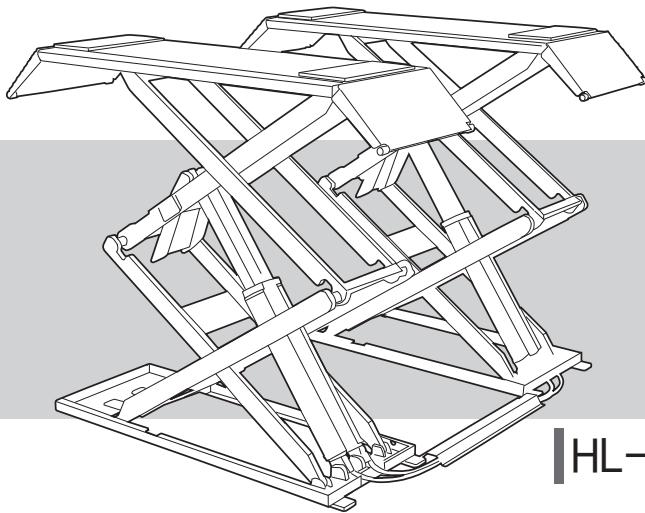




HESHBON DOUBLE SCISSORS LIFT

Installation/Operation & Maintenance Manual



HL-35S

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-35S
- 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.

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Introduction

Safety

Installation

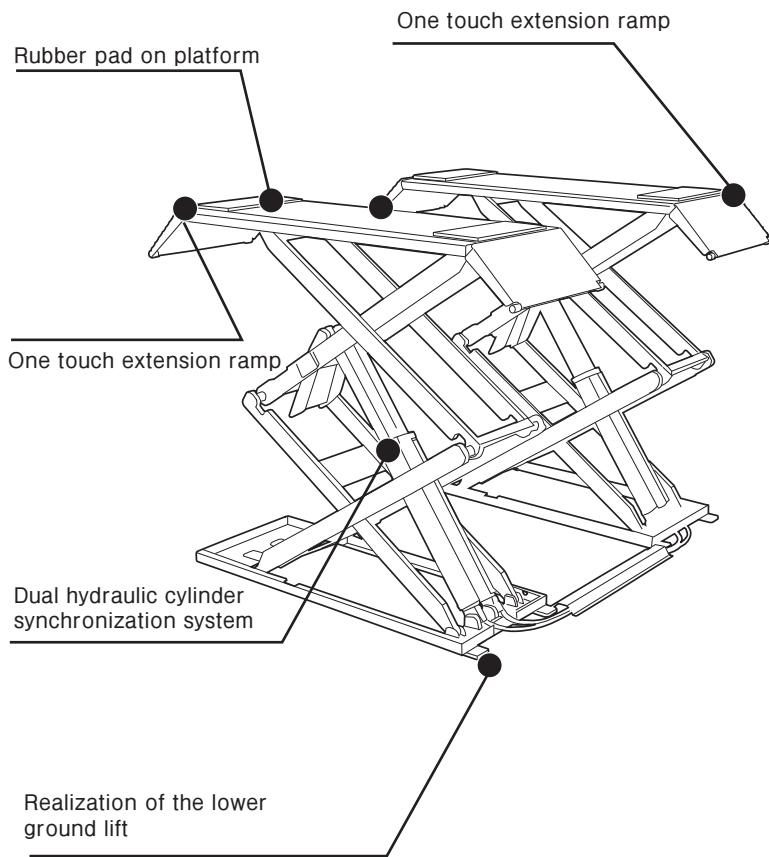
Operation

Maintenance

PART LIST

■ This manual was prepared in December, 2012 the product specifications contained in this manual are subject to change without notice.

Features and characteristics





■ Dual hydraulic cylinder synchronization system

- ▶ Use four cylinders for synchronization performance.



■ One touch extension ramp

- ▶ Features extendable platforms to accommodate long and short wheel base vehicles.



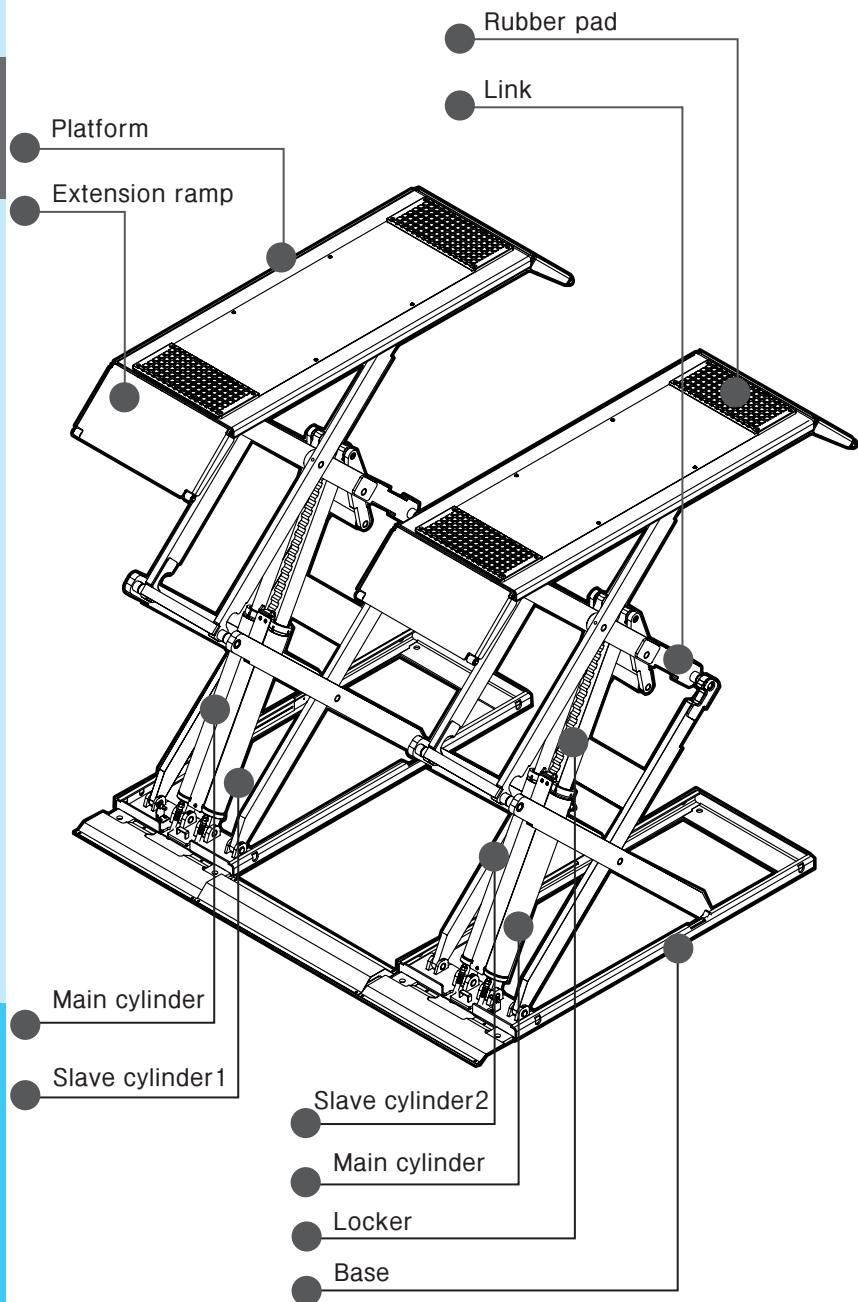
■ Realization of the lower ground lift

- ▶ Cars are entered easily and minimize lift drop accident from minimum height 100mm realization.

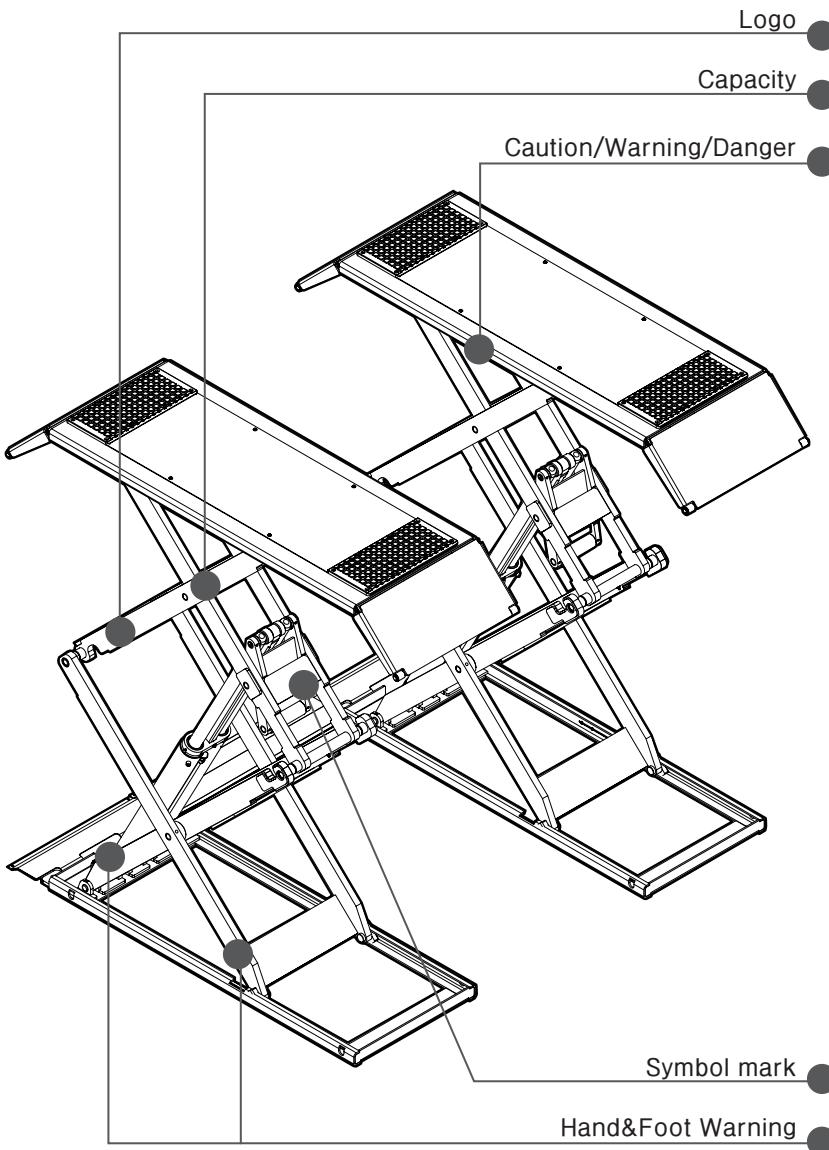


■ Rubber pad on platform

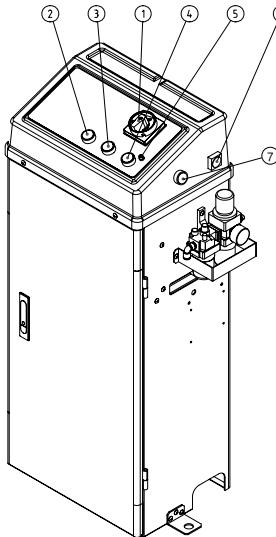
Description of each parts



Caution Sticker layout



Description



- ① Power Cam Switch – Supply or isolate the power of the lift.
- ② Descending Button – Descends the main platform
- ③ Ascending Button – Ascends the main platform
- ④ Locking Button – Function of hanging the safety locker on the locker rail.
- ⑤ 2nd Descending Lamp
- ③+⑤ 2nd Descending – When the 2nd descent status of main platform, if you push the number 2 descent button with pushing this, platform descends to bottom.
- ⑥ Buzzer
- ⑦ EMO switch – Switch to cut off the power supply in an emergency.

Specification

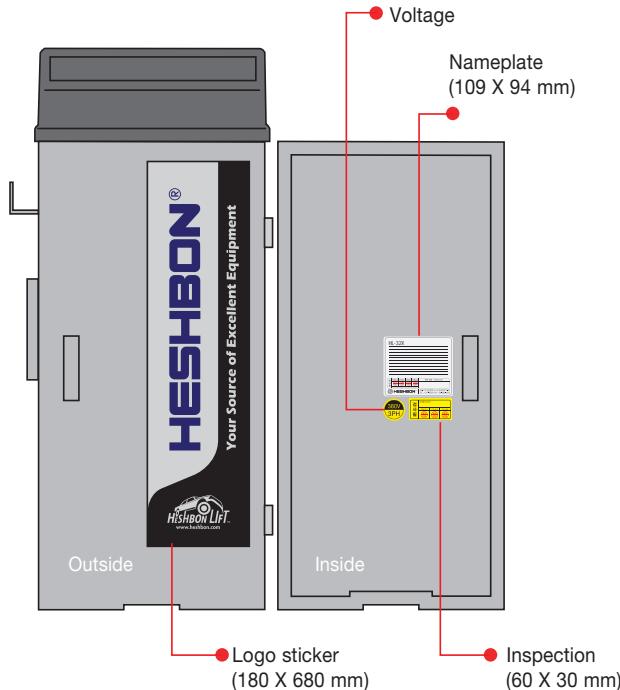
Model Name	HL-35S
Capacity	3,500 Kg
Used Hydraulic Pressure	250 Kgf/cm ²
Overall Max.Height	1,900 mm
Min.Runways Height	100 mm
Stroke	1,800 mm
Lifting Time	Approx. 45 ~ 60 sec.
Lowering Time	Approx . 35 ~ 60 sec.
Standard Motor	3ph 2HP 4P 220/380V 50/60Hz
Net Weight	About 920 kg (Inground 940 kg)

Nameplate

1. Nameplate



2. Position



Danger/warning/caution

Rules for illustrations in the Manual.

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 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.



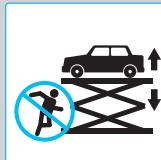
Precautions or check points for the use of the equipment.



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.



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



Warning before using the equipment

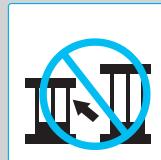
Only trained personnel may operate the equipment. Inexperience can cause accidents.



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 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.

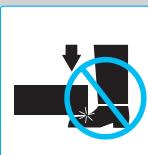


Safety



Warning while operating

To avoid injury, keep your feet clear of the arms and carriages.



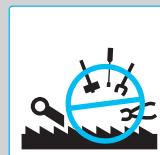
Before going under the lift, make sure that the safety pawls are engaged.



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

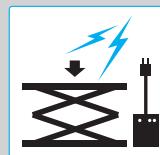


Warning before using the equipment

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



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.



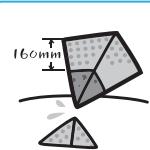


The lift should be installed by skilled engineers either from Heshbon or from Heshbon's appointed representatives. Failure to observe this makes the lift warranty invalid. If the lift is to be moved to another site at a later date, it must be reinstalled by skilled engineers either from Heshbon or from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

Checklist before installing

Installation site

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



Surface load under the posts must be minimum 25N/mm².

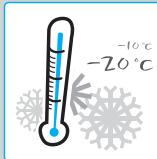


To maintain the warranty, the lift is intended for indoor installation only. In the event that it is installed outside it should be protected from snow and rain. Outdoor installation makes the warranty invalid.

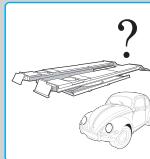


Installation site

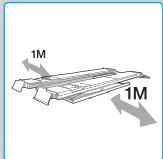
Ambient temperature -10°C to 50°C. Do not operate under freezing conditions.



Vehicle access to the lift must be safe and easy.



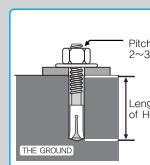
There must be a safe working distance of minimum 1m between the lift and the wall or any fixed object.



Installation site

- Hoist to be installed in dry location.
- If hoist is installed in a sufficient fit, the drainage should allow to keep hoist dry.
- If hoist gets wet make sure all electrical wiring is dried before operation as it could cause electric shock or damage to PCB.

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



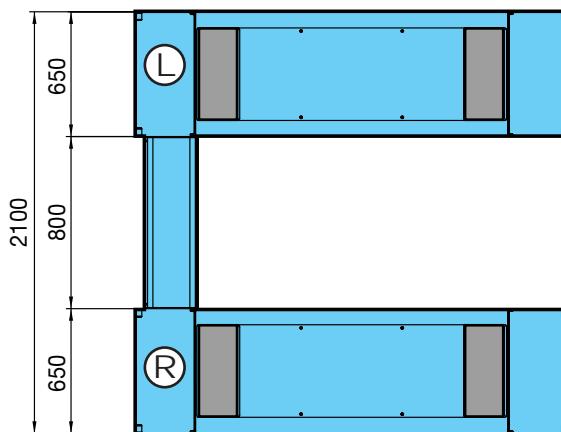
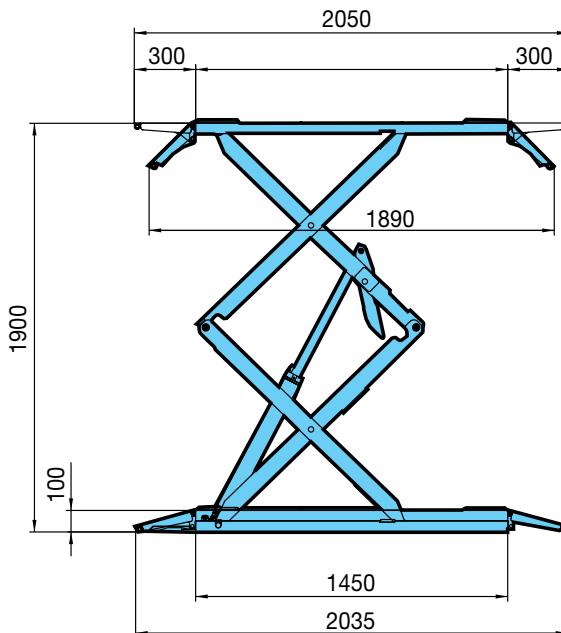
Skilled engineers of Heshbon or its sole representative agency shall install the lift, otherwise a failure may occur.



Place of installation (Layout)

Checkpoints before selecting the place of installation

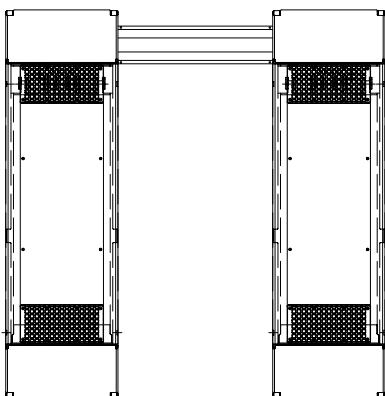
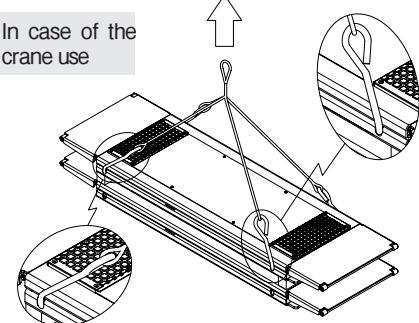
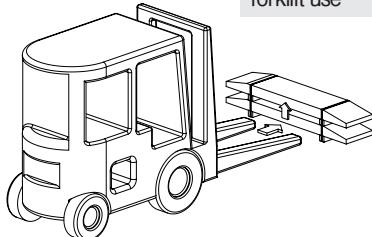
- ① Distance from the wall or any fixed object
- ② Drive-on direction
- ③ position of power post and slave posts
- ④ Ceiling height



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.



■Fixing the base with anchor bolt

- ▶ Fix the 8pcs Anchor bolt of the base plate and 2pcs Anchor bolt of the control panel after supporting lift using liner.

■Fixation horizon of the base

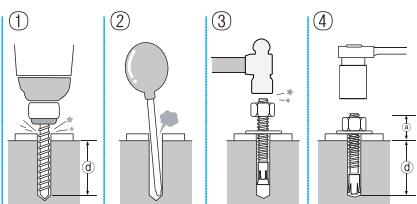
- ▶ After adjusting horizon of the product precisely, fix up using anchor bolt.

1 Adjust the level of the base

After measuring the horizontal status, lay down the lie.

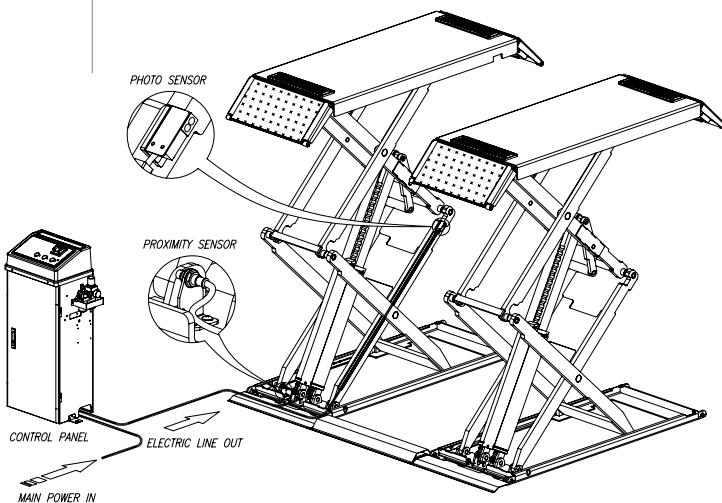
2 Fixation of base (anchor)

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



Anchor bolt installation.

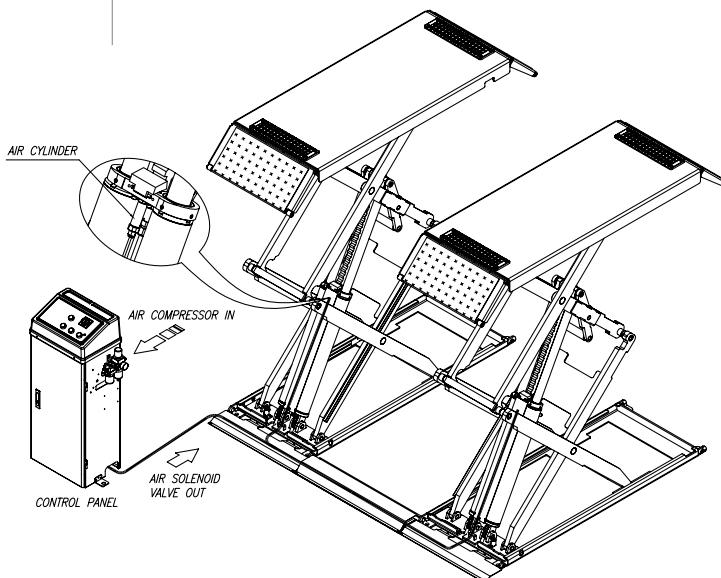
- (1) Drill a hole (d : hole depth)
- (2) Clean the inside of the hole
- (3) Put the anchor bolt into the hole and hammer in until it reaches the bottom of the hole
- (4) Tighten the bolt with a spanner.
(a : 35~45mm)
- Torque : 80~100N.m

■ Electric circuit

Installation

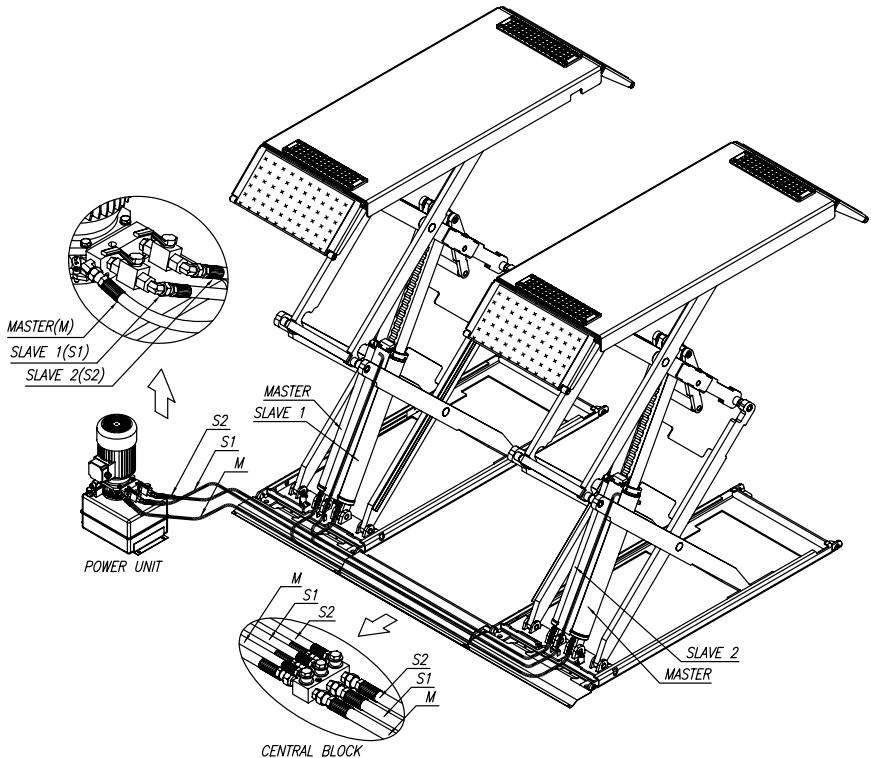
■ Connection of air hose

- ▶ Connect air hose by referring to air line diagram. (Refer to part list air circuit diagram)



■ Connection of oil pressure hose

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



M : yellow

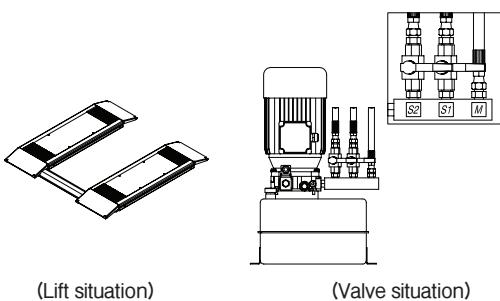
S1 : silver

S2 : black

First re-fill method of oil

■ Step one

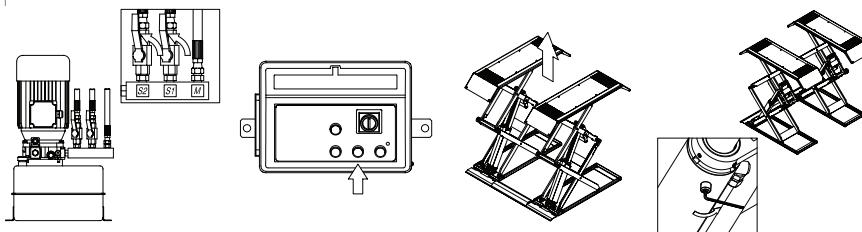
- ▶ All four cylinders are filled oil when packed and closed the 2-way ball valve on hydraulic block (Right side position of valve lever)
 - ▶ After connecting the hoses, please remove air in hose like below.
 - ▶ Move the up limit switch for this work (After leveling, set this limit switch properly)



Installation

■ Step two

- ▶ Open the two valves (S1, S2) on hydraulic block (Up side poison of valve lever)
 - ▶ Put the up button on control panel and make highest poison of lift.
 - ▶ Use 3mm L-wrench to remove air on two master cylinders (Be careful the ball in setting bolt)
 - ▶ Remove air with put up button is effectible.



(Valve situation)

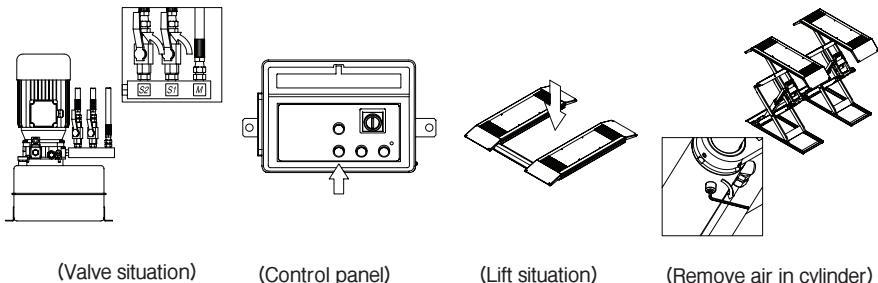
(Control panel)

(Lift situation)

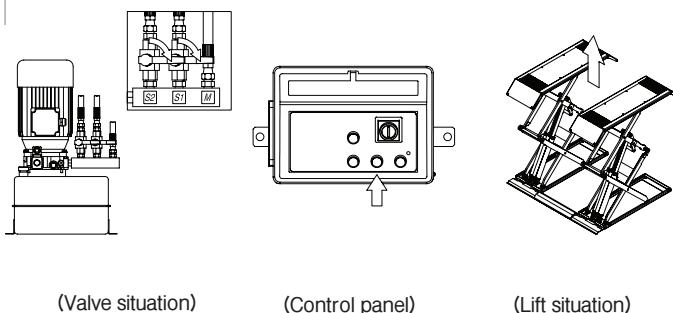
(Remove air in cylinder)

■ Step three

- ▶ Fasten the setting bolt after remove air sufficiently as no bubble.
- ▶ Still open the two valves.
- ▶ Put the down button on control panel and make lowest position of lift.
- ▶ Do several time the step two and three.

**■ Step four**

- ▶ After remove all air, close the two valves (S1, S2) on hydraulic block
(Right side position of valve lever)
- ▶ Put the up button on control panel for lifting.
- ▶ If not properly working, please do again this process.

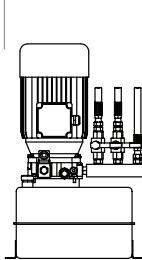


Synchronization method

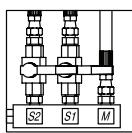
When you install and every 500 times usage of making level of lift.

■ Step one

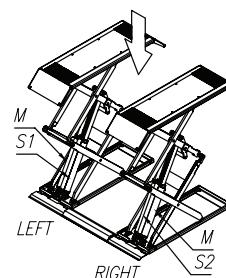
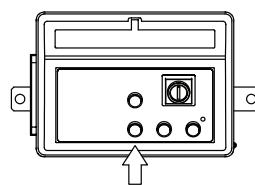
- ▶ Fill the oil in 4 cylinders and close two valves and down the lift.



(Valve situation)



(Control panel)

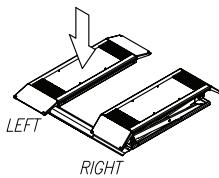


(Lift situation)

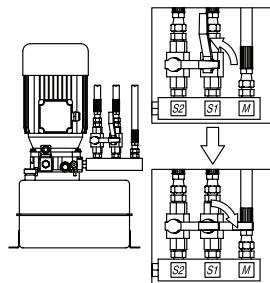
Installation

■ Step two

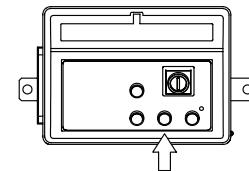
- ▶ If the left platform lower than right platform
- ▶ Open the S1 valve (Up side poison of valve lever)
- ▶ Put the up button lightly for fill oil in S1 cylinder and close the S1 valve.



(Lift situation)



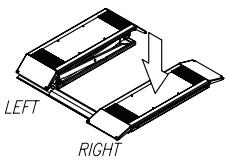
(Valve situation)



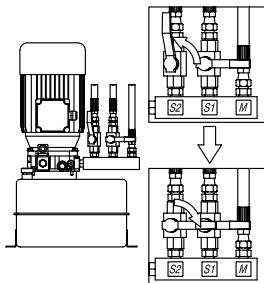
(Control panel)

■ Step three

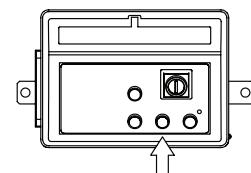
- ▶ if the right platform is lower than left platform.
- ▶ Open the S2 valve (Up side poison of valve lever)
- ▶ Put the up button lightly for fill oil in S2 cylinder and close the S2 valve.



(Lift situation)



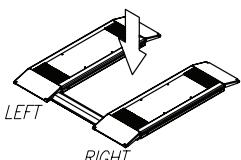
(Valve situation)



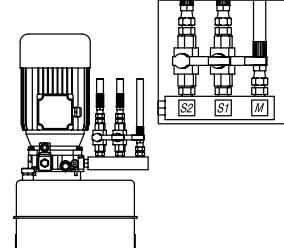
(Control panel)

■ Step four

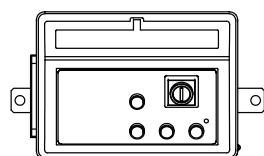
- ▶ Repeat this work and make level of platform.
- ▶ Check again the valve close surely.



(Lift situation)

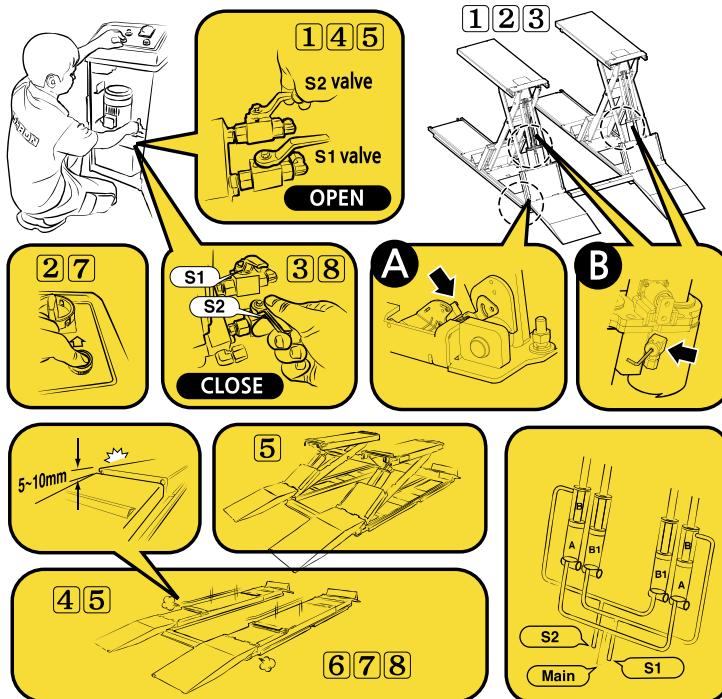


(Valve situation)



(Control panel)

Horizontal control



Installation

1 Horizontal control

- [1] Lift the platform all the way up after opening up "S1" and "S2" (Make setting after loosening up Lift-Limit A)
- [2] Deflate after loosening 'deflation screw' of B2 two times.
(Loose deflation two times after recharging oil pressure)
- [3] Drop the lift all the way down
(Drop while locking S1 and S2 valve right after dropping)
- [4] Open up S1 and S2 for the final dropping
- [5] Lift 100mm after opening up S1 and S2. (Recharge the oil)
- [6] Repeat dropping, lifting and then drop it completely.
(Recharge the oil three times)
- [7] Push 'lift' button time to time after opening up "S1" and "S2"
- [8] When both right lift and left get balanced while the cylinder is being filled with oil, lock the "S1 and S2 valve" so that balance of lifts on both sides can be fulfilled.

2 Summary

1. Deflate --> 2. Drop the lift --> Fill the oil while dropping in no load
- > 3. Fill the oil again after dropping(S1 and S2 : OPEN)
- > Additional explanation for step 8 above:
4. Drop the lift maintaining S1 and S2 : OPEN condition and then adjust the balance (keeping the height below 5~10mm) by clicking the button. (In case of one side is tilted upside, push the lift the button of the upward-tilted side so that both sides get balanced)
- > 5. When both sides get balanced, lock S1 and S2
- > 6. Horizontal control completed.



► 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.

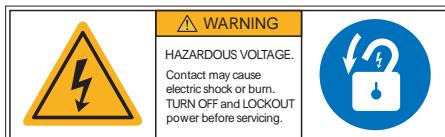


► Any operations other than what is introduced in this manual are supposed to be handled with other service instructions. Any accidents coming from manipulation of manual above is out of company's responsibility.

Inter Lock & Release

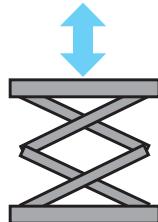
Item	Operation	Position	What happen	Release
Emo	Push Button	Control Panel	Power shut down All motion stop	Release the emo switch. (Turn right the switch.)
Safety Sensor	Photo Sensor	Platform	All motion stop	Remove an object or a body between The main platform.
2nd-down Limit	Limit Switch	Base Plate	Descending stop Buzzer go off	Push the 2nd down button + down button.

Lockout/Tagout



► HAZARDOUS VOLTAGE.
Contact may cause electric shock or burn.
TURN OFF and LOCKOUT power before servicing.

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.

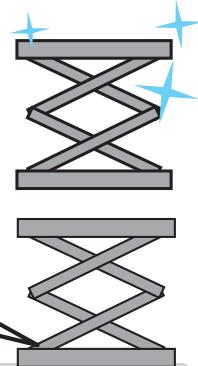
■ Hydraulic check

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



■ 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.

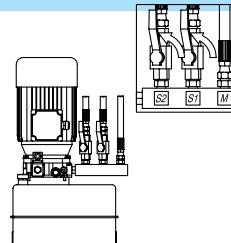


■ Cleanliness

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

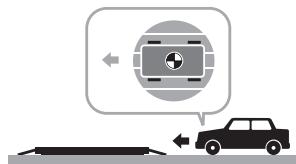
Inspect the lift everyday to operate the lift safely for a long time.

Operation



1 Prior to use

Check that the platforms are parked at floor level by using the descent button.



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 break.

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

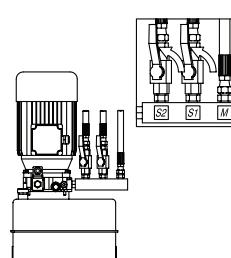
3 Ascent

Operate the ascent button until platforms reach the chosen work height. park on the relevant ratchet holes.



4 Vehicle repair

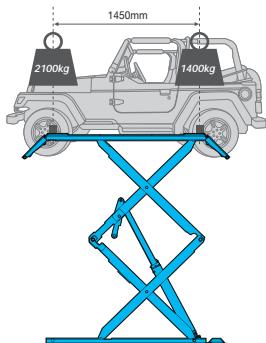
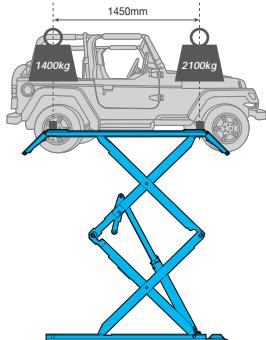
Perform the necessary repairs and/or maintenance on the vehicle.



5 Descent lift

Press the decent switch and descend to the position(100mm height), and return the platform slide plate to the original place, and descend to the bottom position.
► Extract the car after checking if it is descended to the bottom place completely.

Proper car lift method (the weight setting)



■ Proper weight setting method(3.5ton standard)

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

1 Entering from the front side

► Set the weight front/rear platform, each ratio 3:2
3/5 region is 2100kg, 2/5 region is 1400kg, total 3500kg setting is possible

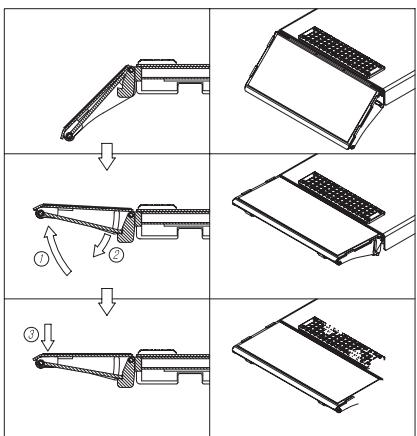
2 Entering from the rear side

► Set the weight front/rear platform, each ratio 3:2
3/5 region is 2100kg, 2/5 region is 1400kg, total 3500kg setting is possible

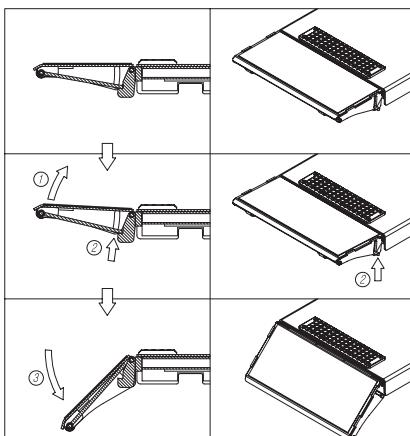


► This guide show the normal standard.
Following the car vendor,model, position of the engine, this guide would be modified.

Locking and un-locking of extension ramp



Method of locking



Method of un-locking

Equipment maintenance and service



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

Lubrication

► 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 month period)

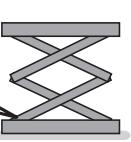
2 Injecting oil

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

①



②



Cleanliness

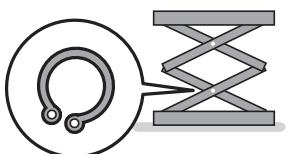
① Check the working area under and around the lift for cleanliness. Check visibly if any nuts or bolts are loose or missing. Replace and retighten as necessary.

② Safety 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.



■ Emergency descent

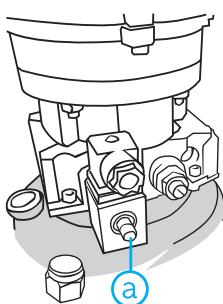
1 How to descend the lift manually in emergency

It is necessary

- ① when a blackout or the hydraulic circuit failure occurs
- ② 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.



Operation procedure of manual descent

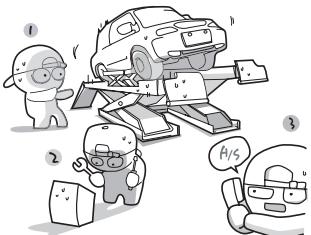
Remove the cover of the powerpack.
Remove the solenoid valve hexagon cap (19mm) in the middle of the pump manifold.
Turn the emergency cock lever (a) very slowly anti-clockwise. Too much movement will increase descent speed too much.



Danger 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.



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.

2 Powerpack pressure

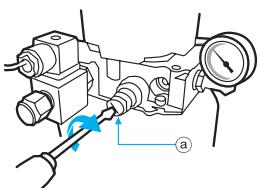


The pressure is set by the factory. The lift may be damaged if the operator increases the pressure. If the equipment does not lift the rated capacity, contact your lift supplier for engineer assistance.

Information for the authorized service engineer only

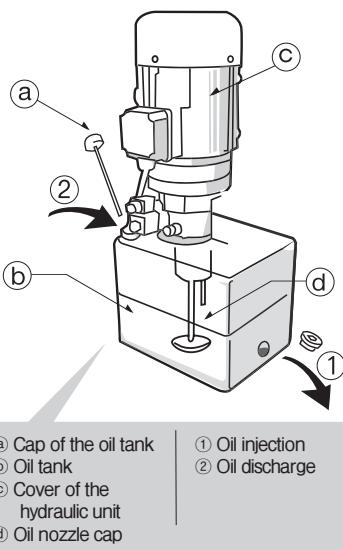
Open the control panel and install a pressure gauge in the pump manifold as shown. The pressure adjusting screw (a) is sealed by the factory.

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-35S - 275kgf/cm²

**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.



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.

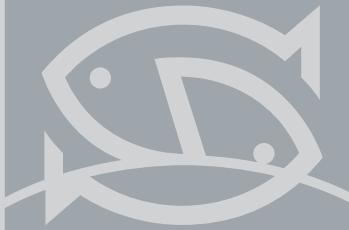
Clean or replace as necessary.
 Replace tank and follow the above procedure.

Troubleshooting

Symptoms		Check point	Corrective Action to be taken
Hydraulic Cylinder and its units	The abnormal noise at motor is hearable.	1. Rated capacity is exceeded. 2. Relief pressure is low. 3. Shortage of hydraulic oil.	1. Operate within rated capacity. 2. Adjust to relief pressure (275 bar) 3. Let air out of the hydraulic unit after supplying the oil.
	Hydraulic Oil is leaking.	1. Defect in hydraulic hoses. 2. Leakage from connecting parts. 3. Bad cylinder packing.	1. Replace the hydraulic hose. 2. Tighten the connection. 3. 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.	Contact customer service department.
	The lift is not lowered.	Check if the valve 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 operating and the abnormal noise at 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 the cable with over 3.5mm ² diameter. 6. Increase the input power capacity.
	Fuse is snapped	1. Check the Contact of magnetic contactor. 2. Check the capacity of circuit breaker. 3. Check if the wire is damaged.	1. Replacement (Request A/S). 2. Replacement (Request A/S). 3. Replacement after checking.
	Motor is operating but lift is not moving up.	1. Check if the rotating direction of motor is correct. 2. Check if hydraulic lines is damaged.	1. Re-operate after changing the phase connection. 2. Refer to check points for hydraulic cylinder and unit.

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	Abrasion, deformation and Breaking of wire	Visual	Replacement	2 year
			2 months (Use over 20 times per one day)		6 months (Use over 20 times per one day)
	Post Guide	Abrasion	Visual	Replacement	4 year
	DU bush	Abrasion	Visual	Replacement	4 year
	Axle for wire pulley	Noise and abrasion	Visual	Replacement	5 year
	Wire pulley	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



**PART LIST
HYDRAULIC CIRCUIT
PNEUMATIC CIRCUIT
ELECTRIC CIRCUIT**

MODEL

HL-35S

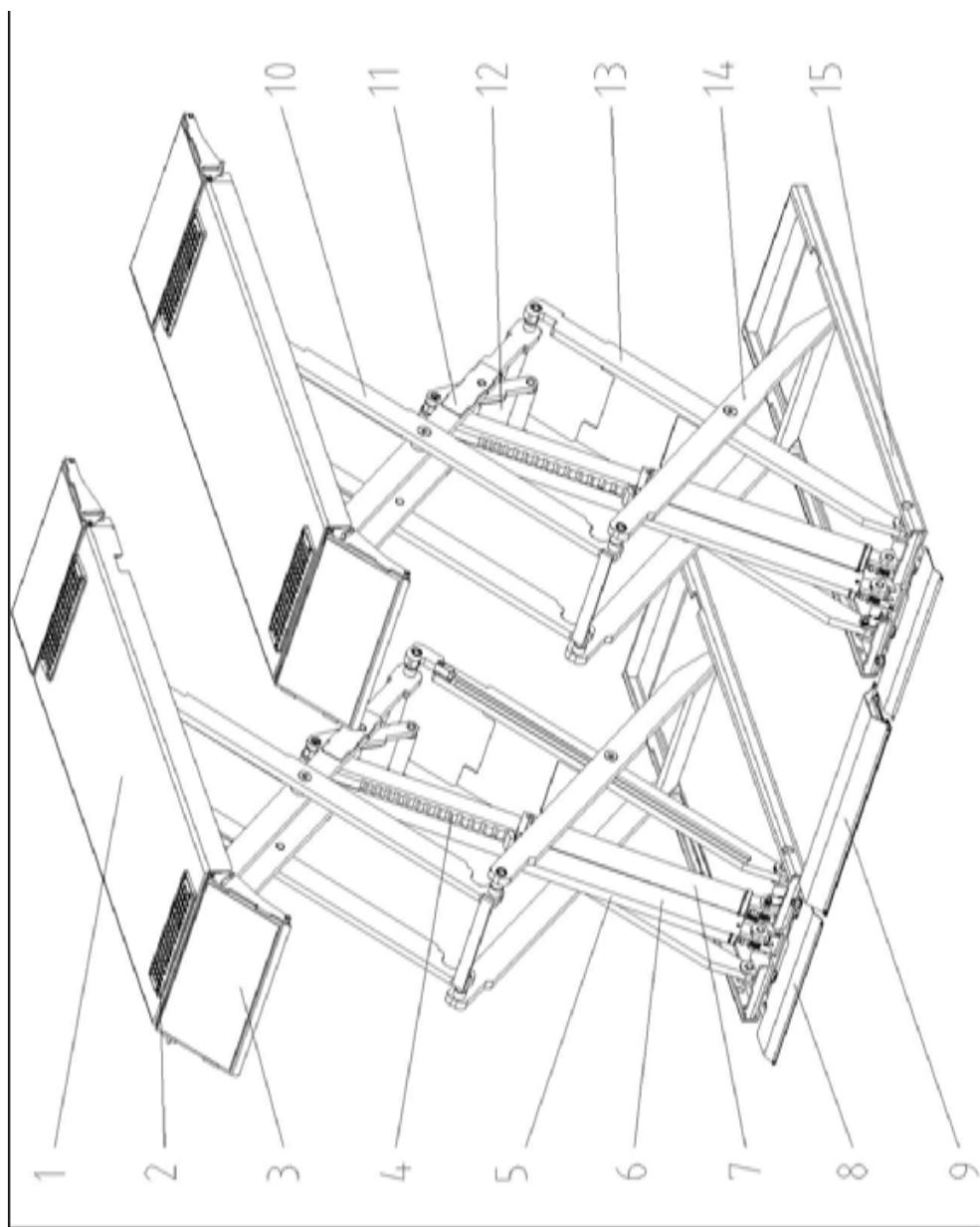
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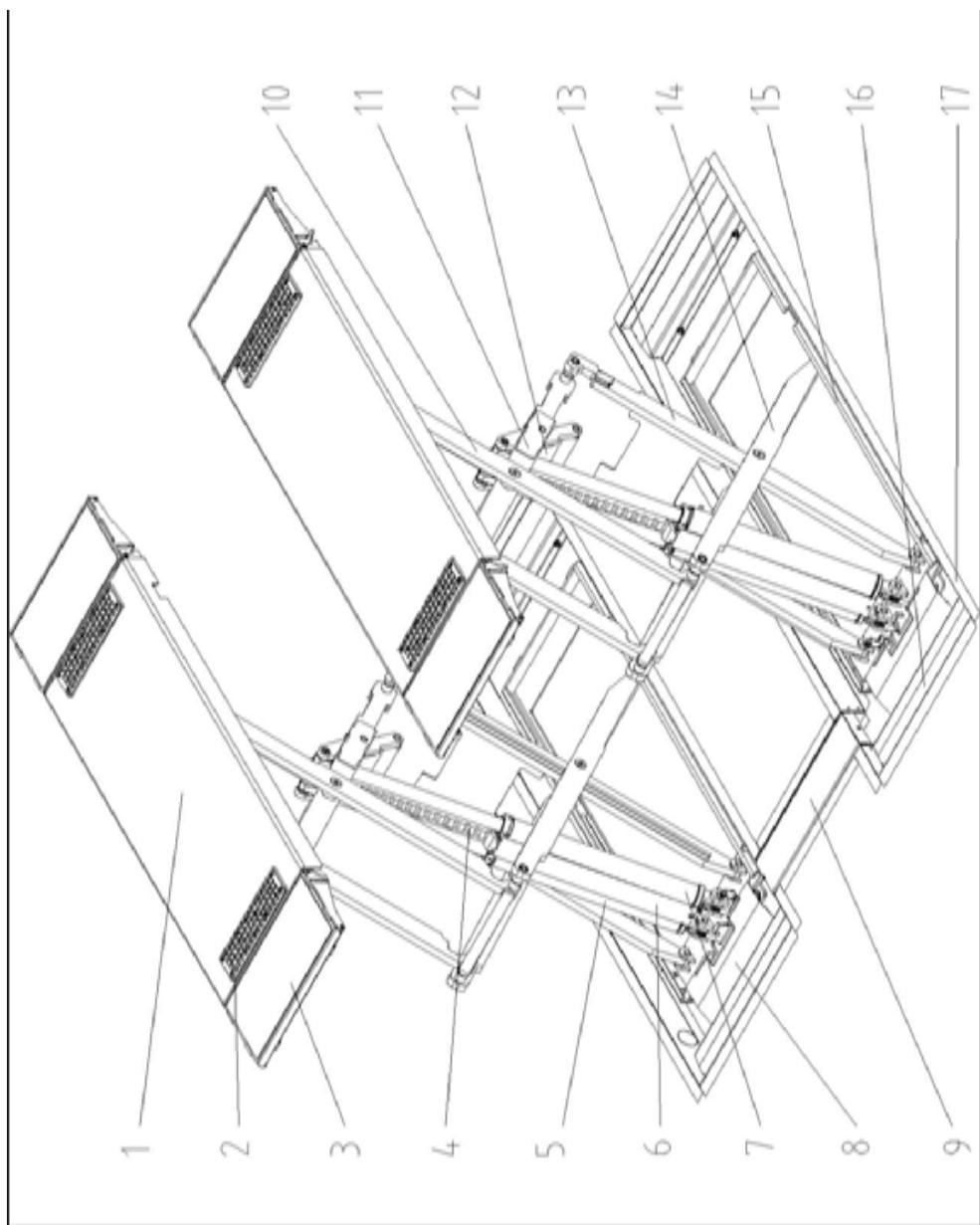
This installation manual is prepared as of December 2012. This manual is subject to change without prior notice if the lift specification is changed

01(Full ass'y-On ground)



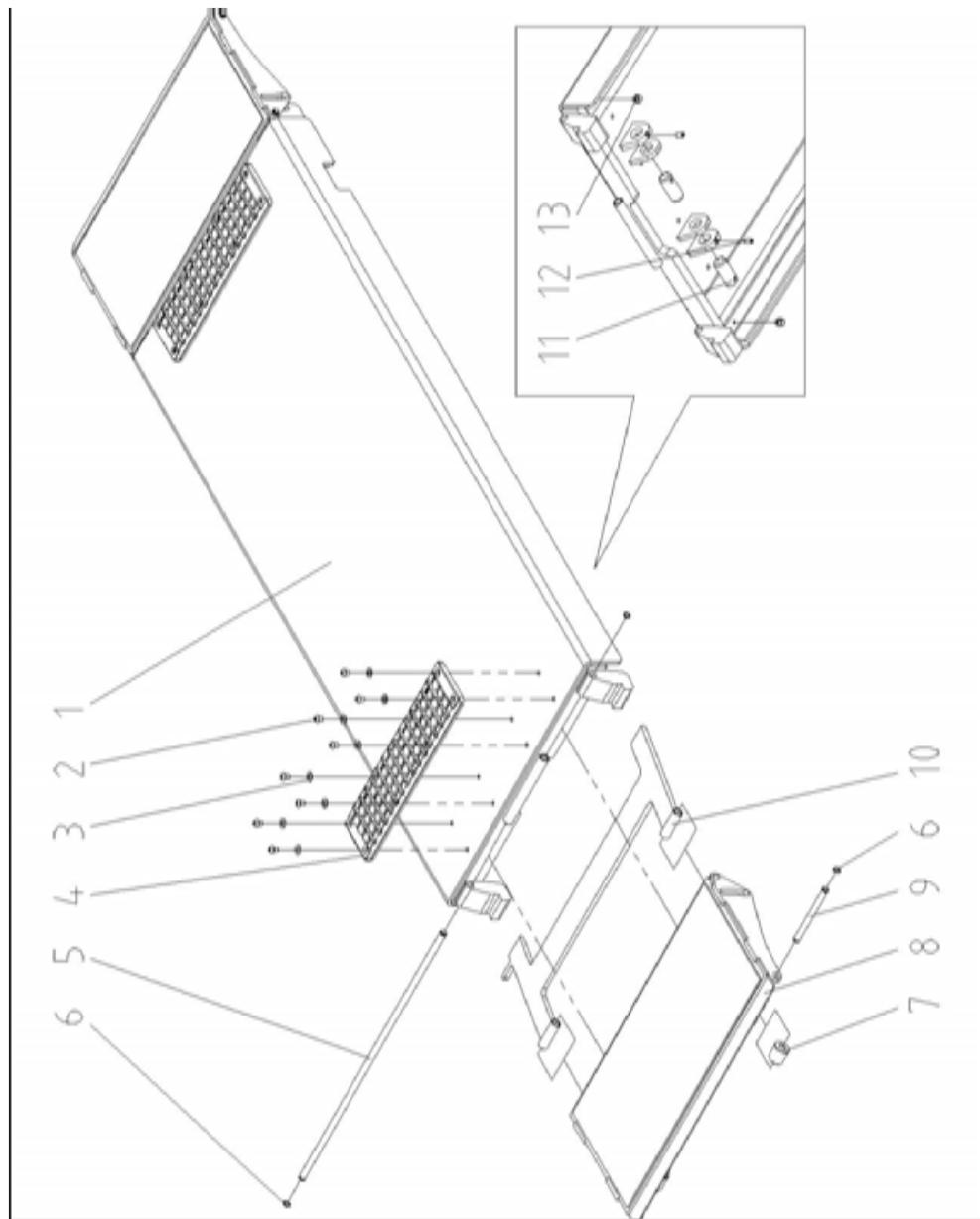
NO.	PART NAME (L/R)	PART NAME ()	Q'TY	SPECIFICATION 2(L1/R1)	DWG.NO.	ITEM NO.
1	RUBBER PAD 2	PLATFORM ASSEMBLY(L/R)	4	14x10x431.2	35SC12A	31X21140
2	RUBBER PAD 2	RUBBER PAD 2	4			
3		RAMP ASSEMBLY	4			
4		LOCKER RAIL	2	32x50x713	35SH43F	35S00130
5	() / ()	CYLINDER ASSY(MASTER)(L/R)	2(L1/R1)		35SH00D	35S45100/200
6		LOCKER PROTECT COVER	2		35SH50D	35S25000
7	()	CYLINDER ASSY(SLAVE)	2		35SH20B	35S45500
8	()	HYDRAULIC HOSE COVER	2	2.3x20x195x600	35SO21C	35S00610
9		CENTER BLOCK COVER	1	2.3x60x250x790	35SO22D	35S00620
10	2	LINK 2	2		35SE00D	35S04000
11	1	LINK 1	2		35SD00F	35S03000
12		AUXILIARY LINK ASSEMBLY	2		35S001E	
13	3 (/)	LINK 3(L/R)	2(L1/R1)		35SF00E	35S05000/500
14	4	LINK 4	2		35SG00E	35S06000
15	(L/R)	BASE ASSEMBLY(L/R)	2(L1/R1)			

02(Full ass'y-In ground)



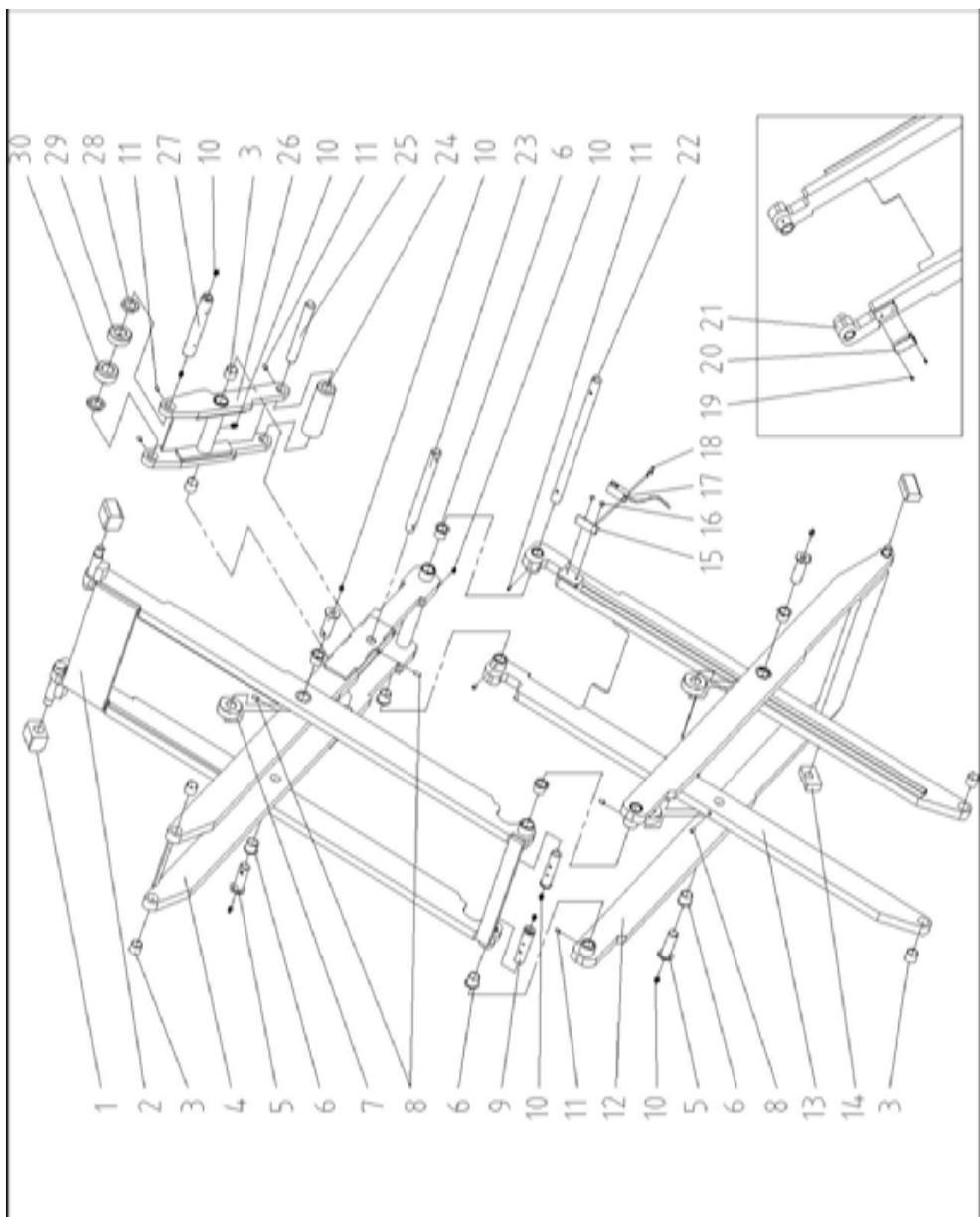
NO.	PART NAME (L/R)	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	RUBBER PAD 2	PLATFORM ASSEMBLY(L/R)	2(L1/R1)			
2		RUBBER PAD 2	4	14tx110x431.2	35SC12A	31X21140
3		RAMP ASSEMBLY	4			
4		LOCKER RAIL	2	32tx50x713	35SH43F	35S00130
5	() (/)	CYUNDER ASSY(MASTER)(L/R)	2(L1/R1)		35SH40D	35S5100/200
6		LOCKER PROTECT COVER	2		35SH50D	35S25000
7	()	CYUNDER ASSY(SLAVE)	2		35SH420B	35S5500
8	()	HYDRAULIC HOSE COVER	2	2.3tx47x190x500	35S003C	35S32010
9	()	CENTER COVER	1		35SJ10E	35S33000
10	2	LINK 2	2		35SE00D	35S04000
11	1	LINK 1	2		35SD00F	35S03000
12		AUXILIARY LINK ASSEMBLY	2		35SD00E	
13	3 (/)	LINK 3(L/R)	2(L1/R1)		35SF00E	35S05000/500
14	4	LINK 4	2		35SG00E	35S06000
15	(L/R)	BASE ASSEMBLY(L/R)	2(L1/R1)			
16		RAMP SLOPE	4		35SJ00D	35S91000
17	(35S)	PIT FRAME ASSY(35S)	1		35SA10B	35S75000

03(Platform & Ramp)



NO.	PART NAME	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1-1	(L)	PLATFORM(L)	1		35SC00H	36S11000
1-2	(R)	PLATFORM(R)	1		35SC00H	36S12000
2		ROUND HEAD WRENCH BOLT	32	M8x12L	35SC01D	WRBM0812W
3		PLAIN WASHER	32	M8	35SC01D	WPM08
4	RUBBER PAD 2	RUBBER PAD 2	4	14hx110x431.2	35SC12A	31X21140
5		PAMP PIN	4	Ø12x657L	35SL11C	35S00230
6		CIRCLIP	24	CS12	35SL11C	SN-CS12
7		RAMP ROLLER	8	Ø30x32L	35SL12B	35S32210
8		RAMP	4		35SL00E	35S32100
9		RAMP ROLLER PIN	8	Ø12x137L	35SL13A	35S32120
10		RAMP SUPPORTER	4		35SL20B	35S33000
11		LINK SUPPORT SHAFT	4	Ø25x57L	35SB16C	35S00020
12		SET SCREW	4	M8x15L	35SC05C	MWBMO815
13		PLATFORM RUBBER SUPPORTER	8	Ø15x20.5LxM5-8L	35SC14A	32X11340

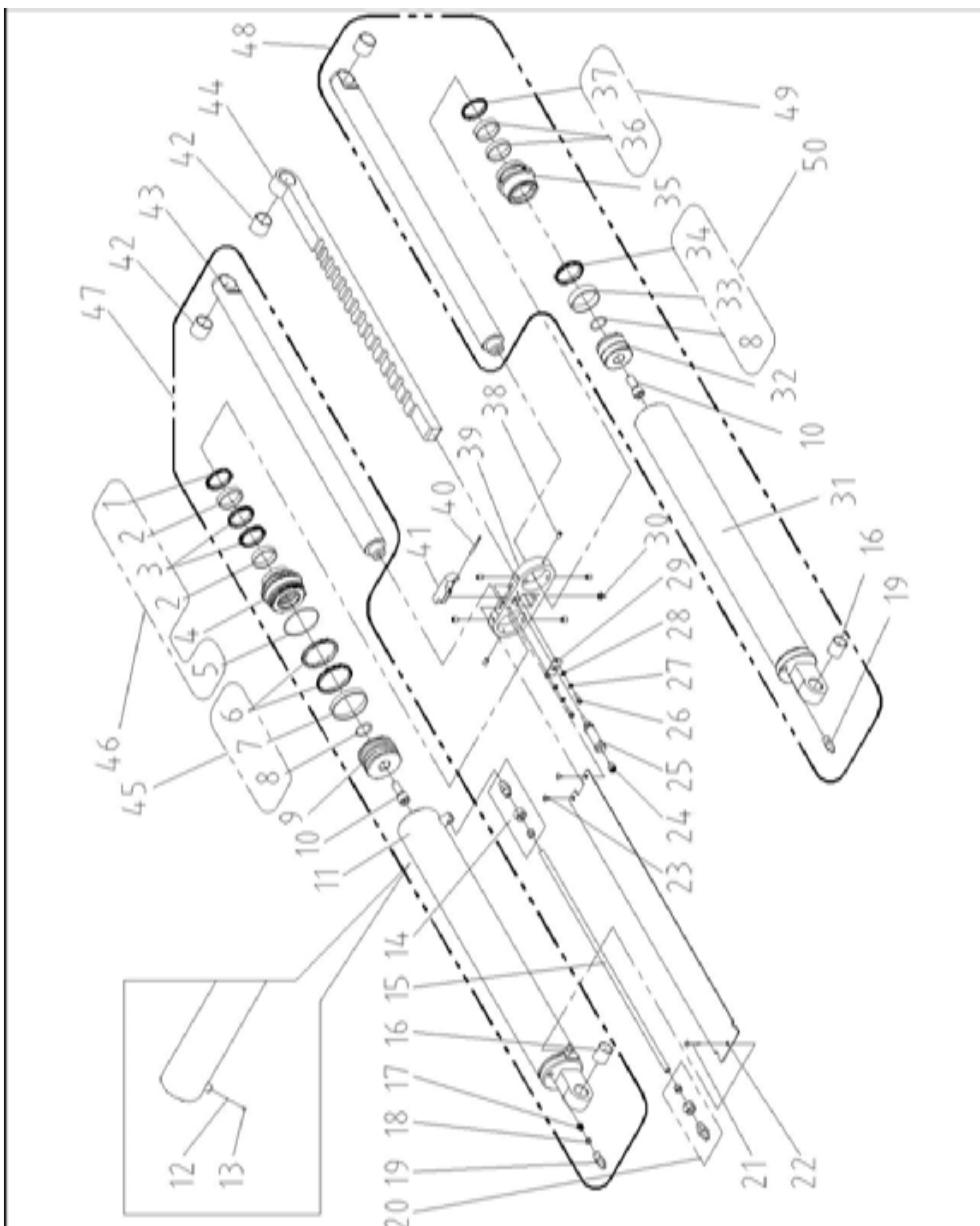
04(Link1,2,3,4 & Aux.link)



04(Link1,2,3,4 & Aux.link)

NO.	()	()	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1			UPPER PLATFORM SLIDER	4	41x50x60	35SE11C	35S00070
2	2		LINK 2	2		35SD00D	35S04000
3	DU		DU BUSHING	12	DU2525	35SD01G	DU2525
4	1		LINK 1	2		35SD00F	35S03000
5			LINK CENTER SHAFT	8	Ø39x83L	35SE13D	35S00090
6	DU	()	FLANGE DU BUSHING	16	FDU2525	35SE01G	DU2525F
7			LINK SPACER	8	Ø60x24.5L	35SE12C	35S00080
8			SET SCREW	12	M10x15L	35SD01G	MWBMI015
9	2		LINK 2 BOTTOM SHAFT	4	Ø30x114L	35SE14C	35S00100
10			GREASE NIPPLE	20	PT1/8"-GST.	35SE13D	GN-1/8S
11			SET SCREW	16	M8x12L	35SF03B	MWBMI0812
12	4		LINK 4	2		35SG00E	35S06000
13	3	()	LINK 3(L)	1		35SF00E	35S05000
14			BOTTOM BASE SLIDER	4	32x39x70	35SG11C	35S00110
15			PHOTO SENSOR BRACKET	1	1.60x30x30x60	35SF11A	35S05110
16			TRUSS HEAD BOLT	2	M5x8L	35SF05B	TRTBM0508
17	(.BMS2M-MDT)	PHOTO SENSOR HARNESS	1		35SK12C	35S89070
18			ROUND HEAD BOLT	2	M4x20L		RHCBM0420
19			TRUSS HEAD BOLT	2	M 4x8L	35SF15A	TRTBM0408
20	BENSM-MFR		MIRROR	1		26C07060	
21	3	()	LINK 3(R)	1		35SF20B	35S05500
22	1		LINK 1 BOTTOM SHAFT	2	Ø25x442L	35SD11B	35S00060
23			AUXILIARY LINK CENTER SHAFT	2	Ø25x282L	35S11C	35S00160
24			AUXILIARY LINK ROLLER	2	Ø50x161L	35S117A	35S00220
25			AUXILIARY LINK ROLLER SHAFT	2	Ø25x202L	35S116A	35S00210
26			AUXILIARY LINK	2		35S10E	35S31000
27			CYLINDER ROD SHAFT	2	Ø30x202L	35S112D	35S00170
28	7	(2)	CYLINDER ROD GUIDE RING	4	Ø45x7.5L	35S115C	35S00200
29	7	(1)	LOCKER RAIL GUIDE RING(2)	2	Ø58xØ30x23.5L	35S114B	35S00190
30	7	(1)	LOCKER RAIL GUIDE RING(1)	2	Ø56xØ30x28.5L	35S113B	35S00180

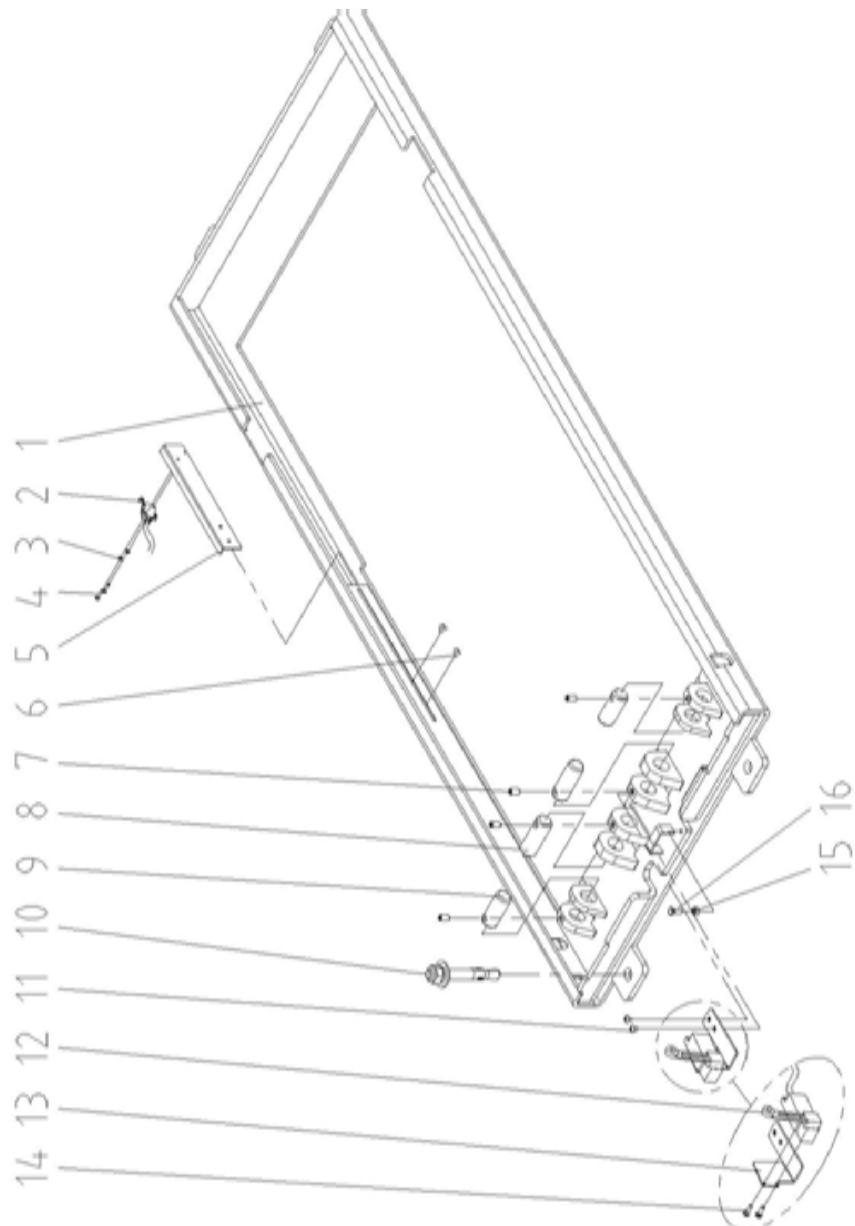
05(Locker & Cylinder)



05(Locker & Cylinder)

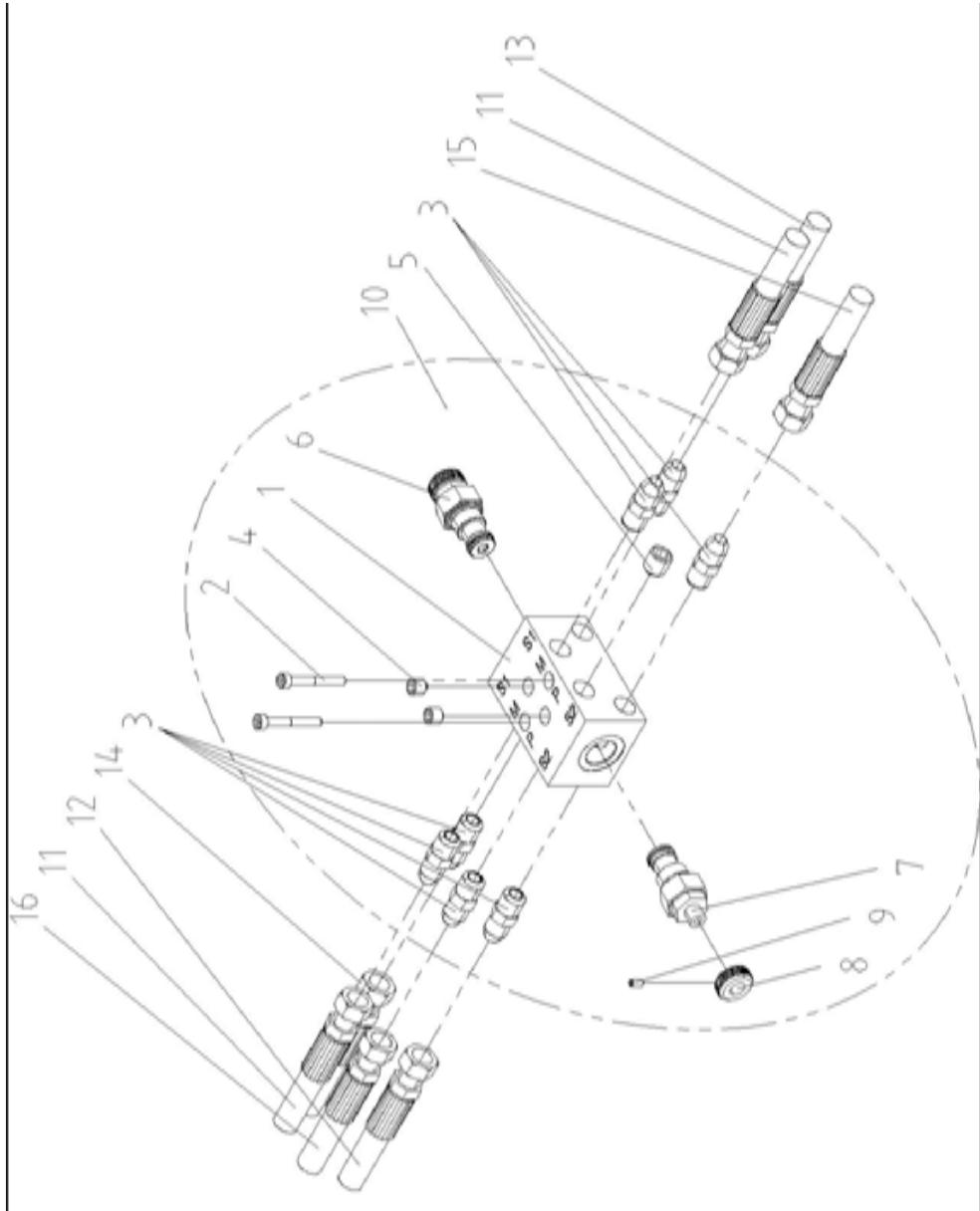
NO.	()	()			SPECIFICATION	DWG.NO.	ITEM NO.
1		DUST SEAL	2	Ø45xØ53x5x6.5H	35SH04B	DHS455305	
2		WEAR RING	4	Ø50xØ45xØ2.5tx10H	35SH04B	WEAR504510	
3		ROD SEAL	4	Ø45xØ55x6H	35SH04B	UHS45556	
4	()	HEAD COVER(MASTER)	2	Ø85x62L	35SH04B	35S21030	
5	O- ()	O-RING	2	G70(Ø3.1xØ70xØ75)	35SH04B	ORG70	
6	U- (UHP65)	U-PACKING(UHP65)	4	Ø65xØ75x6B	35SH03E	UHP65756	
7		WEAR RING	2	Ø70xØ75x10B	35SH03E	WEAR707595	
8	O- ()	O-RING	4	P30	35SH03E	ORP30	
9	()	PISTON(MASTER)	2	Ø75x44L	35SH03E	35S21020	
10	(H)	WRENCH BOLT(H)	4	M14x35L	35SH02F	WBHM1435	
11-1	()()	TUBE(MASTER)(L)	1			35S21100	
11-2	()()	TUBE(MASTER)(R)	1			35S21600	
12		STEEL BALL	2	3/16"	35SH08A	BALL-3/16"	
13		SET SCREW	2	M6x6L	35SH08A	MWBM0606	
14		MALE CONNECTOR	2	Ø10x1/4PT	35SH10A	BMC10-1/4	
15		HYDRAULIC PIPE	2	Ø10x1tx600	35SH10A	35S00250	
16	DU	DU BUSHING	4	DU2530	35SH06B	DU2530	
17		ORIFICE SPRING	2	Ø1xØ9xØ11x4Cx10L	35SH12B	31S71203	
18		ORIFICE	2	9x9x6L	35SH13B	31S71201	
19	()()	STEEL NIPPLE(ST)	4	PT1/4xØ5U	35SH05C	HMCM-1/4-05U	
20		MALE HOSE UNION	2	BHUM10-02G	35SH10A	BHUM10-02G	
21		TRUSS HEAD TAPPING BOLT	2	M5x30L	35SH51C	TRTBM0530	
22		LOCKER PROTECT COVER	2		35SH50D	35S25000	
23		TRUSS HEAD BOLT	4	M5x10L	35SH51C	TRTBM0510	
24		ONE TOUCH AIR NIPPLE	2	M5xSTxØ4	35SH31B	EC0504	
25		LOCK RELEASE AIR CYLINDER	2	TPC1 B16-15SR	35SH31B	TPC1B16-15SR	
26		WRENCH BOLT	4	M5x15L	35SH32A	WBM0515	
27		SPRING WASHER	4	M5	35SH32A	WSM05	
28		PLAIN WASHER	4	M5	35SH32A	WPM05	
29		LOCK RELEASE AIR CYLINDER BRACKET	2	2.3tx20x48.4	35SH32A	35S00125	
30		GREASE NIPPLE	2	PT1/8"xST	35SH41D	GN-1/8S	
31	()	TUBE(SLAVE)	2			35S22700	
32	()	PISTON(SLAVE)	2	Ø59x44L	35SH23B	35S22010	
33		WEAR RING	2	Ø60xØ55x15Hx2.5t	35SH23B	WEAR605515	
34	U- (UHP60)	U-PACKING(UHP60)	2	Ø60xØ50x6H	35SH23B	UHP605006	
35	()	HEAD COVER(SLAVE)	2	Ø75x62L	35SH24A	35S22020	
36		WEAR RING	4	Ø50xØ45xØ2.5tx10H	35SH24A	WEAR504510	
37		DUST SEAL	2	Ø45xØ53x5x6.5H	35SH24A	DHS455305	
38		SET SCREW	12	M8x12L	35SH41D	MWBM0812	
39	(R/L)	CYLINDER HEAD FIXTURE(R/L)	2(R1/L1)	50x80x197	35SH41D	35S23500	
40		SPRING PIN	2	Ø5x45L	35SH44E	SPIN0545W	
41		LOCKER	2	30x38x60	35SH44E	35S00145	
42	DU	DU BUSHING	6	DU3030	35SH02F	DU3030	
43		ROD BAR	4	Ø45x75.5L	35SH02F	35S21010	
44		LOCKER RAIL	2	32tx50x713	35SH43F	35S00130	
45	(35S)	SEALING KIT FOR PISTON(MASTER)	2			35S49100	
46	(35S)	SEALING KIT FOR HEAD COVER(MASTER)	2			35S49200	
47-1	()()	CYLINDER ASS'Y(MASTER)(L)	1		35SH00D	35S45100	
47-2	()()	CYLINDER ASS'Y(MASTER)(R)	1		35SH00D	35S45200	
48	()	CYLINDER ASS'Y(SLAVE)	2		35SH20B	35S45500	
49	(35S)	SEALING KIT FOR HEAD COVER(SLAVE)	2			35S49400	
50	(35S)	SEALING KIT FOR PISTON(SLAVE)	2			35S49300	

06(PL-Base)



NO.	PART NAME	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1-1	()	BASE(L)	1		35SB00H	35S01000
1-2	()	BASE(R)	1		35SB00H	35S02000
2	(55)-()	LIMIT SWITCH HARNESS	1		35SK55B	35S89550
3		SPRING WASHER	2	M3	35SB18B	WSM03
4		ROUND HEAD BOLT	2	M3x15L	35SB18B	RHCEM0315
5		LIMIT SWITCH BRACKET	1	2.3tx13x35x214	35SB18B	35S00045
6		TRUSS HEAD BOLT	2	M5x8L	35SB18B	TRTBM0508
7		SET SCREW	8	M8x15L	35SB07A	MWBM0815
8		CYLINDER BOTTOM SHAFT	4	Ø25x66L	35SB15A	35S00010
9		LINK SUPPORT SHAFT	4	Ø25x57L	35SB16C	35S00020
10		WEDGE ANCHOR BOLT	8	M16x125L	35SB06C	ANCW-16-125
11		TRUSS HEAD BOLT	2	M6x8L	35SB19E	TRTBM0608
12	2	2ND DESCENT LIMIT SWITCH HARNESS	1		35SK04E	35S89245
13		2ND DESCENT LIMIT SWITCH BRACKET	1	2.3tx33.5x61x105	35SB19E	35S00057
14		ROUND HEAD BOLT	2	M5x15L	35SB19E	RHCEM0515
15	()	HEX NUT(BRASS)	2	M6	35SB05F	HNBIM06
16	()	HEX BOLT(BRASS)	2	M6x15L	35SB05F	HEXBM0610

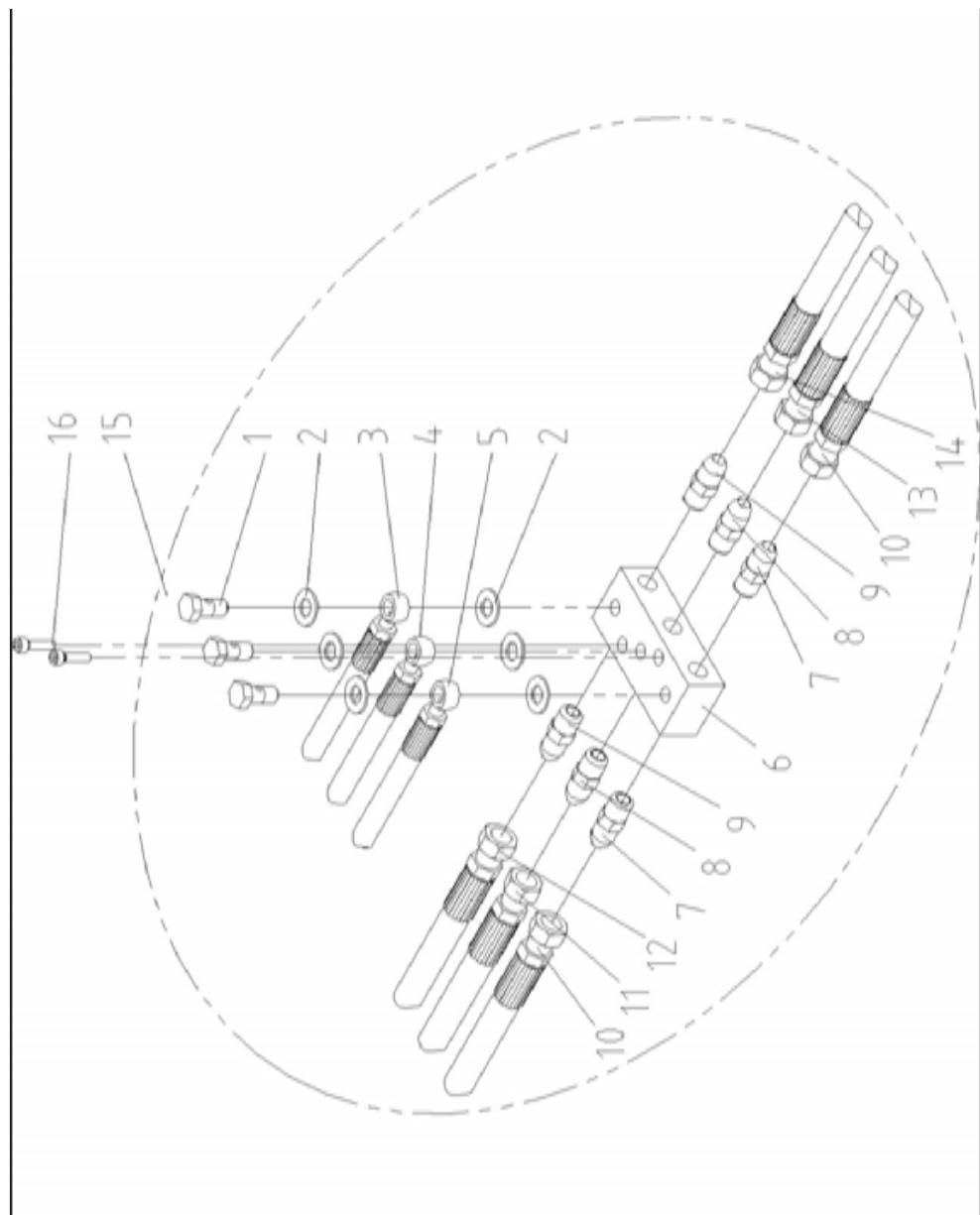
07(Central block-Domestic, Gene)



07(Central block-Domestic,Gen)

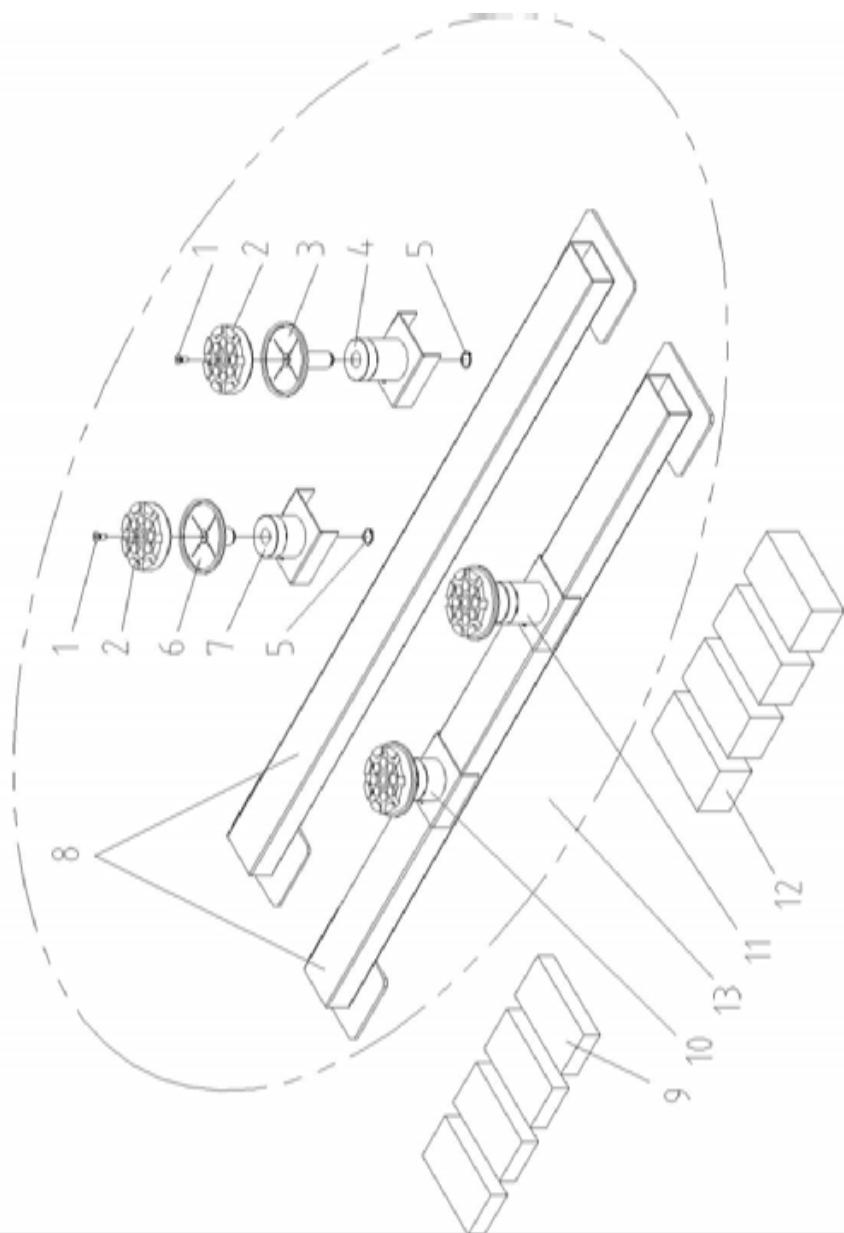
NO.	PART NAME	()	PART NAME	()	Q/TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	CENTRAL BLOCK	(H)	WRENCH BOLT(H)	(S)	1	4354x86	35SO04A	32X00641
2	STEEL NIPPLE(ST)	(S)	LOCKING BOLT	(S)	2	M5x40L	35SO04A	WBHM0540
3	NEEDLE VALVE(KNOB2)	(S)	LOCKING BOLT	(S)	7	PT1/4x05U	35SO04A	HMCM-14-05U
4	NEEDLE VALVE	(S)	NEEDLE VALVE	(S)	2	PF1/8()	35SO04A	STPLUG-1
5	DIAL HANDLE(FOR NEEDLE VALVE)	(S)	DIAL HANDLE(FOR NEEDLE VALVE)	(S)	1	PT1/4	35SO04A	MWBU1-4
6	SET SCREW	(S)	SET SCREW	(S)	2	3/4-16UNF	35SO05A	NDL-V/V-047-N2
7	CENTRAL BLOCK ASSY	(S)	CENTRAL BLOCK ASSY	(S)	2	3/4-16UNF	35SO05A	NDL-V/V-047
8	HYDRAULIC HOSE 1(M)(S)(481-4)	(S)	HYDRAULIC HOSE 1(M)(S)(481-4)	(S)	2	Ø22x9L	35SO05A	NDL-V/V-DIAL
9	HYDRAULIC HOSE 2(S2)(S)	(S)	HYDRAULIC HOSE 2(S2)(S)	(S)	1	950LxST.xST.	35SQ41F	35S00310
10	HYDRAULIC HOSE 3(S)(S)	(S)	HYDRAULIC HOSE 3(S)(S)	(S)	1	950LxST.xST.	35SQ41F	35S00330
11	HYDRAULIC HOSE (MAIN)(481-4)	(S)	HYDRAULIC HOSE (MAIN)(481-4)	(S)	1	950LxST.xST.	35SQ41F	35S00320
12	2 (S1)(S)	(S)	2 (S1)(S)	(S)	1	850LxST.xST.	35SQ41F	35S00340
13	3 (S2)(S)	(S)	3 (S2)(S)	(S)	1	850LxST.xST.	35SQ41F	35S00350
14	HYDRAULIC HOSE (MAIN)(481-4)	(S)	HYDRAULIC HOSE (MAIN)(481-4)	(S)	1	8000LxST.xST.	35SQ47B	35S00470

08(Central block-PROVAC)



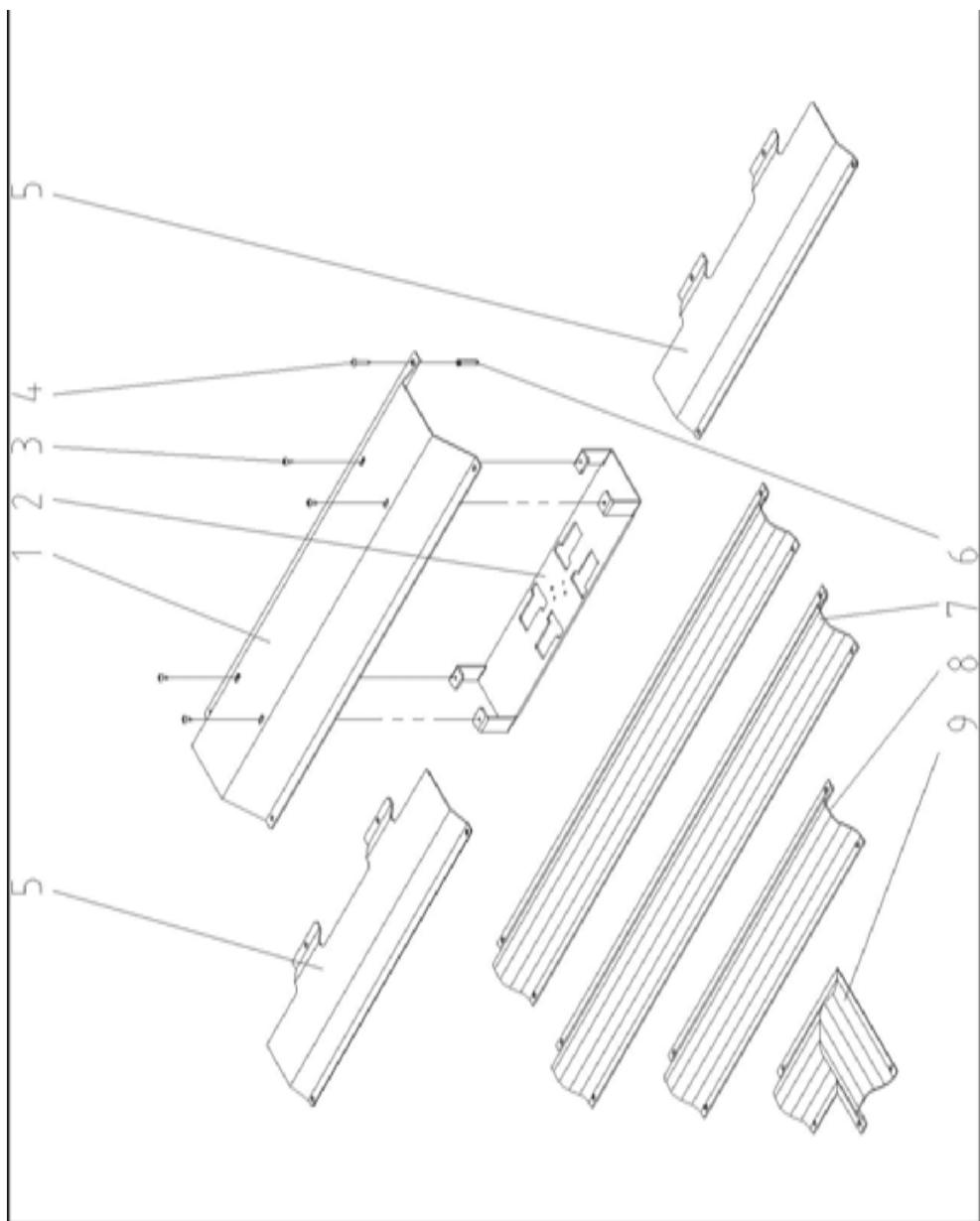
NO.	PART NAME	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	HYDRAULIC BOLT		3	M10x25L	35SQ45D	56H15290
2	COPPER WASHER		6	Ø10.5xØ21x1.5t	35SQ45D	WD1052115
3	(S2)()	HYDRAULIC HOSE(S2-BLACK)	1	8000LxST.xB.	35SQ44G	35S00430
4	(S1)()	HYDRAULIC HOSE(S1-WHITE)	1	8000LxST.xB.	35SQ44G	35S00420
5	(M)()(481-4)	HYDRAULIC HOSE(M-YELLOW)	1	8000LxST.xB.	35SQ44G	35S00410
6	CENTRAL BLOCK		1	25x40x95L	35SO25F	35S00650
7	()()	STEEL NIPPLE(PT1/4x05U-YELLOW)	2	PT1/4x05U	35SO25F	HMCM-1/4-05U
8	()()	STEEL NIPPLE(PT1/4x05U-WHITE)	2	PT1/4x05U	35SO25F	HMCM-1/4-05UW
9	()()	STEEL NIPPLE(PT1/4x05U-BLACK)	2	PT1/4x05U	35SO25F	HMCM-1/4-05UBK
10	1 (M)(S)(481-4)	HYDRAULIC HOSE 1(M)(S)(481-4)	2	900LxST.xST.	35SQ41F	35S00310
11	3 (S1)(S)	HYDRAULIC HOSE 3(S1)(S)	1	850LxST.xST.	35SQ41F	35S00340
12	2 (S2)(S)	HYDRAULIC HOSE 2(S2)(S)	1	950LxST.xST.	35SQ41F	35S00330
13	2 (S1)(S)	HYDRAULIC HOSE 2(S1)(S)	1	950LxST.xST.	35SQ41F	35S00320
14	3 (S2)(S)	HYDRAULIC HOSE 3(S2)(S)	1	850LxST.xST.	35SQ41F	35S00350
15		CENTRAL BLOCK ASSY	1	(25x40x95L)	35S00700	
16		WRENCH-BOLT	2	M5x20L	35SO25F	WBM0520

09(Extension-option)



NO.	PART NAME	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	(H)	C'SINK HEAD BOLT(H)	4	M8x20L	35SP04A	WBDHM0820W
2		RUBBER PAD	4	Ø120x25t	35SP06A	26K25030
3	(H)	RUBBER PAD SUPPORTER(H)	2		35SP00A	31S25010
4	(H)	EXTENSION BOTTOM BRACKET(H)	2		35SP00A	31S85210
5		CIRCLIP	4	CS25	35SP04A	SN-CS25
6	(L)	RUBBER PAD SUPPORTER(L)	2		35SP10A	31S85320
7	(L)	EXTENSION BOTTOM BRACKET(L)	2		35SP10A	31S85310
8	(2)	EXTENSION SUPPORT BAR(2)	2		35SO00B	30N90210
9		SUPPORT RUBBER PAD	4	35x160x100		33J7040
10	(L)	EXTENSION ASS'Y(L)	2		35SP10A	31S85300
11	(H)	EXTENSION ASS'Y(H)	2		35SP00A	31S85200
12		SUPPORT RUBBER PAD	4	70x100x200		30N95010
13	35S -KT()	35S EXTENSION-KIT(OPTION)	1			35S9001

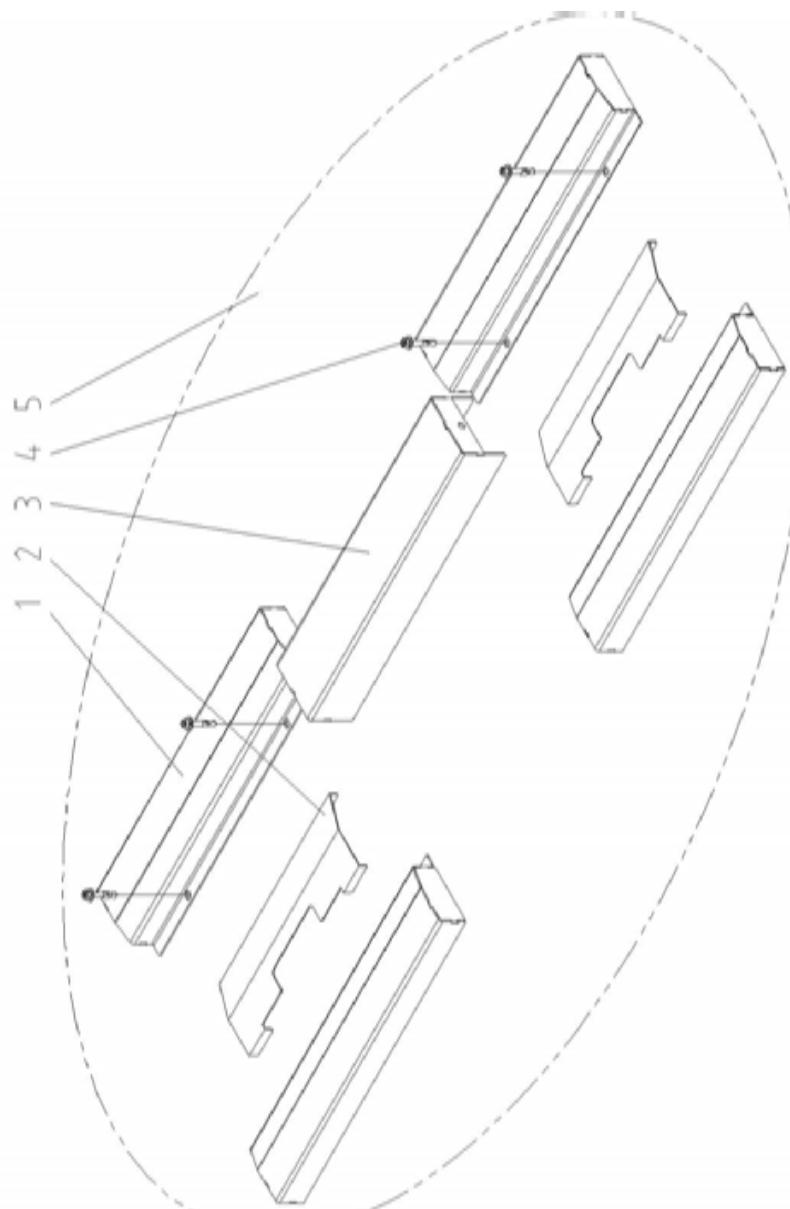
10(On-ground parts kit)



10(On-ground parts kit)

NO.	PART NAME	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	CENTER BLOCK COVER		1	2.31x60x250x790	35S022D	35S00620
2	CENTER BLOCK BOTTOM PLATE		1	3.21x57x115x500	35S023D	35S00630
3	TRUSS HEAD TAPPING BOLT		4	M5x13L	35S022C	TRTBM0513
4	SCREW		28	Ø5x30L	35S022C	SN-0630
5	()	HYDRAULIC HOSE COVER	2	2.31x20x195x600	35S021C	35S00610
6	NYLON PLUG		28	Ø5	35S022C	CBW-0630
7	(2)	LINE PROTECT COVER(2)	2	2.31x35x135x1000L	35S003A	31X00235
8	(1)	LINE PROTECT COVER(1)	1	2.31x35x135x600L	35S011A	31X00225
9		LINE PROTECT COVER(3)	1		35S007A	52F20000

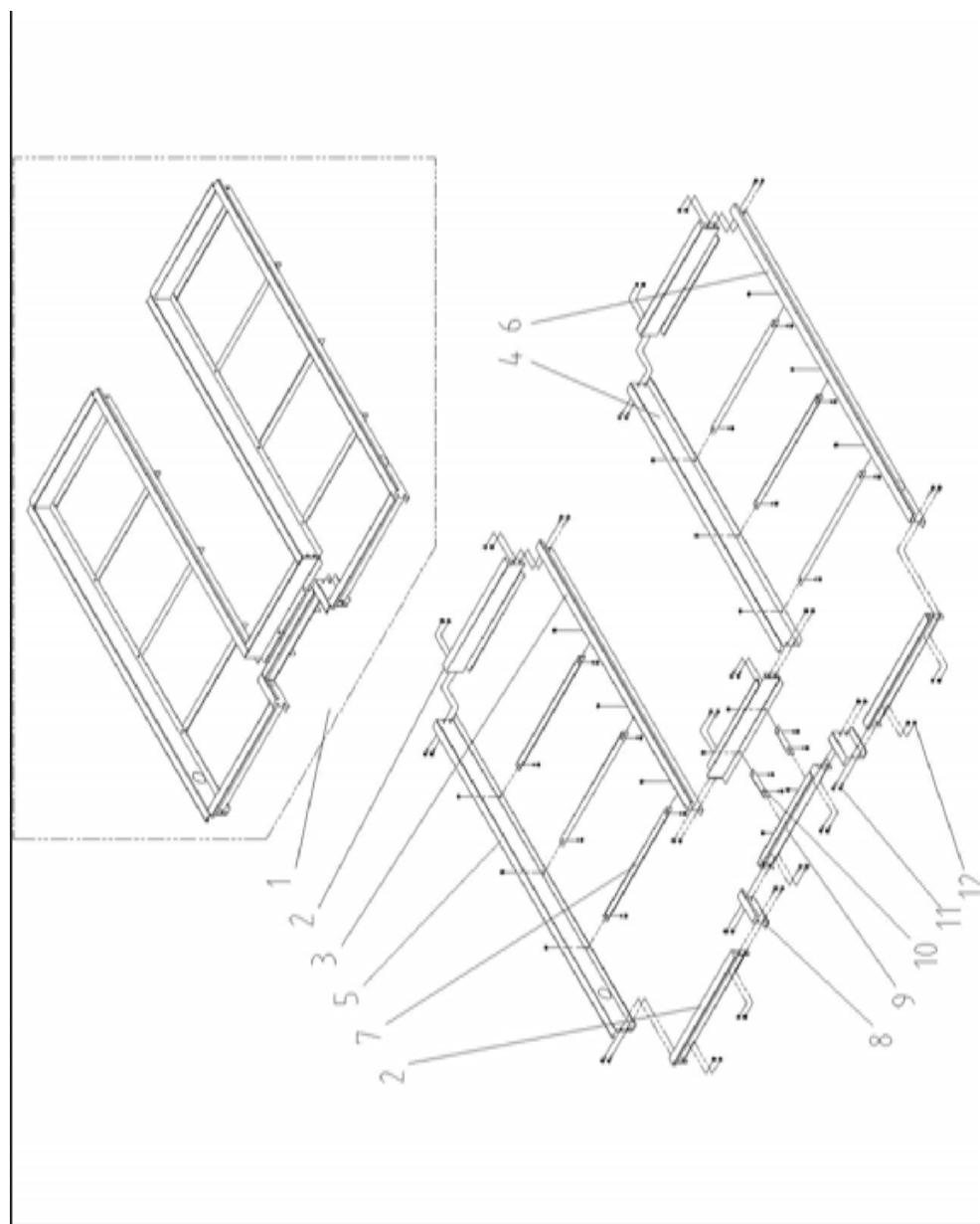
11 (In-ground parts kit)



11(In-ground parts kit)

NO.	PART NAME	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	()	RAMP SLOPE	4		35S00D	35S91000
2	()	HYDRAULIC HOSE COVER	2	2.3tx47x190x500	35S03C	35S92010
3	()	CENTER COVER	1		35S10E	35S93000
4		SET ANCHOR BOLT	8	3/8"x75L	35S01C	ANC-38-75
5	35S -KIT	IN-GROUND PARTS KIT	1			35S90000

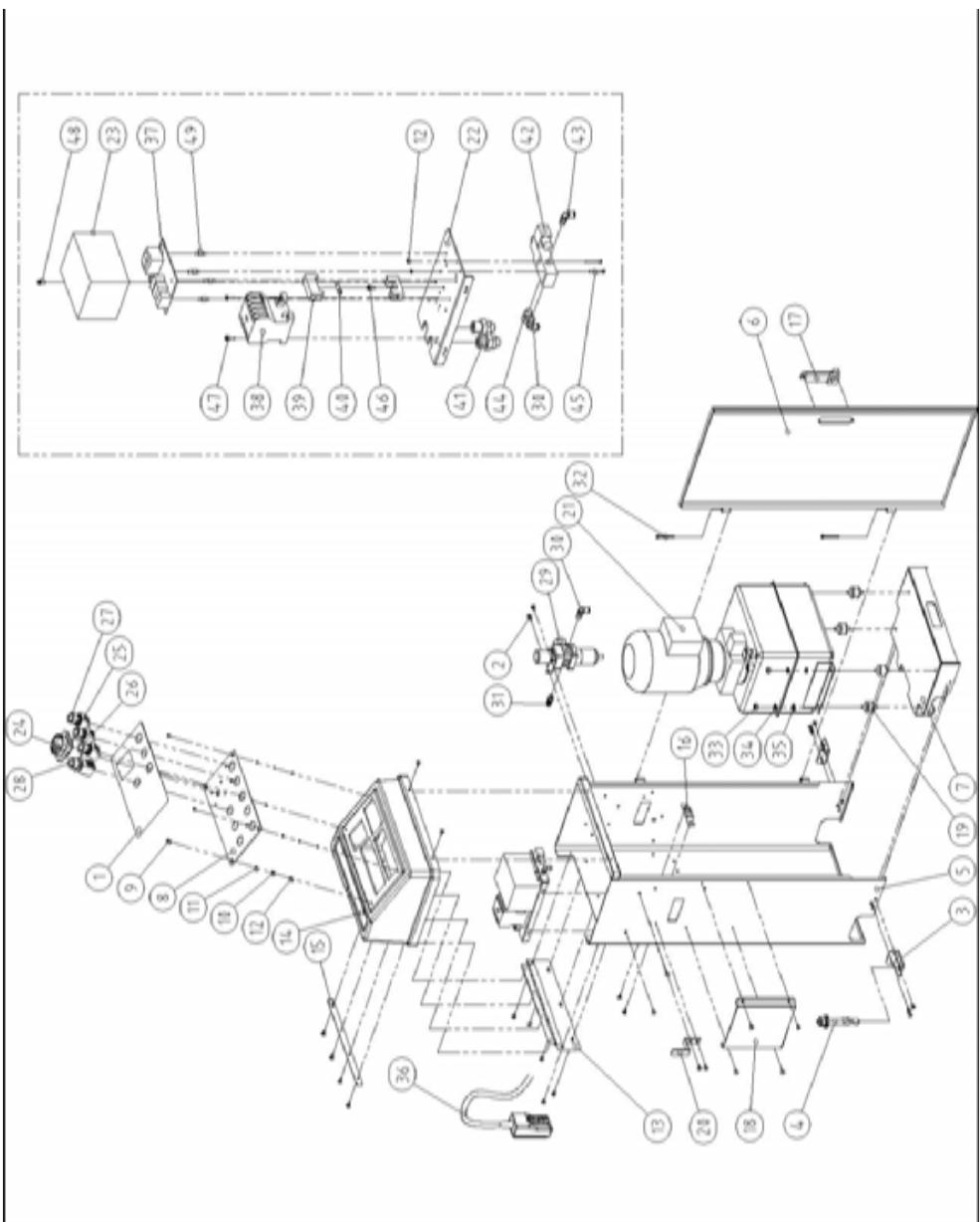
12(In-ground pit frame)



12(In-ground pit frame)

NO.	PART NAME	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	(35S)	PIT FRAME ASSY(35S)	1		35SA10B	35S75000
2	PIT FRAME PART-(3)	PIT FRAME PART-(3)	4	1.6x88.4x101.6x750	35SA13A	35S75300
3	PIT FRAME PART-(2)(R)	PIT FRAME PART-(2)(R)	1	1.6x88.4x101.6x1823	35SA12B	35S75200
4	PIT FRAME PART-(2)(L)	PIT FRAME PART-(2)(L)	1	1.6x88.4x101.6x1823	35SA12B	35S75250
5	PIT FRAME PART-(1)(R)	PIT FRAME PART-(1)(R)	1	1.6x88.4x101.6x2160	35SA11A	35S75100
6	PIT FRAME PART-(1)(L)	PIT FRAME PART-(1)(L)	1	1.6x88.4x101.6x2160	35SA11A	35S75150
7	PIT FRAME PART-(6)	PIT FRAME PART-(6)	6	1.6x40x40x753.2	35SA16A	35S75600
8	PIT FRAME PART-(5)	PIT FRAME PART-(5)	2	1.6x88.4x101.6x178	35SA15B	35S75500
9	PIT FRAME PART-(4)	PIT FRAME PART-(4)	2	1.6x78.4x101.6x696.8	35SA14A	35S75400
10	PIT FRAME PART(7)	PIT FRAME PART(7)	2	1.6x40x40x158.2	35SA17B	35S75700
11	HEX BOLT		40	M10x25L		HEXM1025
12	HEX NUT		40	M10		HNM10

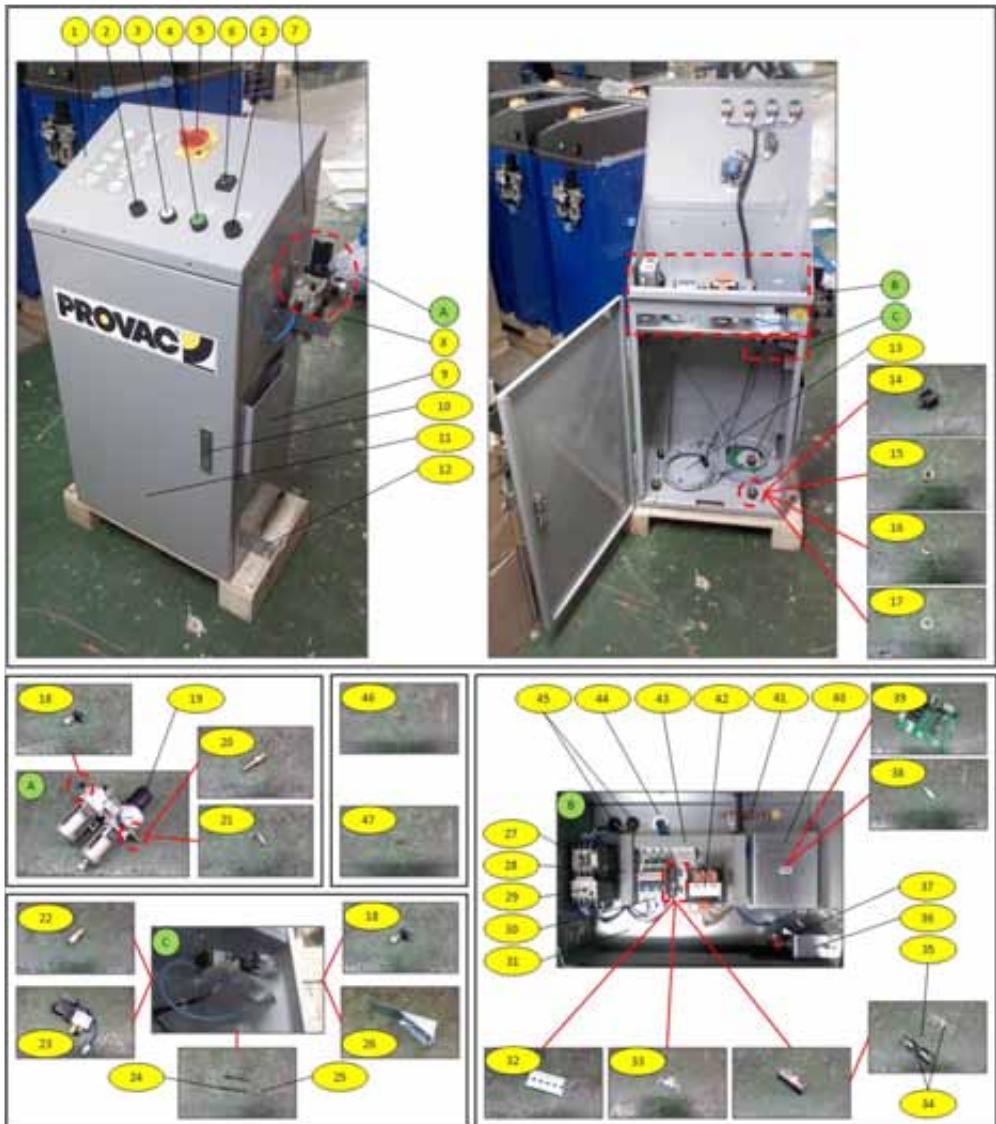
13(Control panel-Domestic, Gene)



13(Control panel-Domestic,Gen)

()	()					
NO.	PART NAME	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1		PANEL UPPER COVER FILM	1	0.5tx163x326	35SQ01A	
2	(TH3)	TRUSS HEAD TAPPING BOLT	29	M5x13L		TRTBM0513
3		ANCHOR BOLT BRACKET	2	3.2tx30x50x60	35SQ03B	52F10090
4		WEDGE ANCHOR BOLT	2	M16x125L		ANCW-16-125
5	- ()	CONTROL PANEL BODY	1	2.3tx271.1x401.6x850.3	35SQ05F	32X96000
6		CONTROL PANEL FRONT PLATE	1	2.3tx20x401.6x815	35SQ06A	31X89030
7		CONTROL PANEL BASE	1	3.2tx54x265x394	35SQ07A	31X89040
8		PANEL UPPER FRONT PLATE	1	1tx163x326	35SQ09A	31X89050
9		C'SINK BOLT	4	M3x10L		RHCBM0310
10		SPRING WASHER	4	M3		WSM03
11		PLAIN WASHER	4	M3		WPM03
12		HEX NUT	6	M3		HNM03
13		PANEL HINGE	1		35SQ10A	31X89060
14	(31X)	CONTROL PANEL UPPER COVER	1	5tx163x304x4.5	35SQ13B	31X89070
15	ABS	ABS COVER PROTECTOR	1	2.3tx19x351.2	35SQ14A	31X89080
16		CABLE HOLDER	1	1.6tx11.1x20x86.5	35SQ18A	33X80050
17		DOOR KEY SET	1	16x28x116	35SQ22A	52F10110
18		MANUAL POCKET	1	1.6tx20x180x200	35SQ23A	31S79310
19		VIBRATION PROOF RUBBER	4	Ø30x20hM8x45L 65,	35SQ25A	30N80100
20		REMOTE CONTROLLER HANGER	1	3tx19x50x100	35SQ26A	30N80110
21		POWER PACK ASSEMBLY	1	220V/380V/415V-1P/3-P/50hz/60hz	35SQ30B	35S80100-35S86100
22		ELECTRIC PARTS PLATE	1	2.3tx20x135x240	35SQ36A	32X89600
23	PCB	CONTROL PCB PROTECT COVER	1	1.6tx135x112x80	35SQ37A	32X89650
24	(3)	CAM SWITCH	1	YMW26-20/04		90000150
25		PUSH BUTTON SWITCH WHITE	1	(Ø25)		KP5BRRFW10S
26		PUSH BUTTON SWITCH BLACK	1	(Ø25)		KP5BRRFBK10S
27		PUSH BUTTON SWITCH GREEN	1	(Ø25)		KP5BRRFG10S
28	-TKRWP	PILOT LAMP-TKRWP	1	Ø25x220V		KL5BRRGA2
29		AIR REGULATOR	1	TAW-3000-02BG	52GQ23A	TAW-3000-02BG
30	()	ONE TOUCH AIR NIPPLE(EL)	2	PT1/4x6x4x		EC64PT1/4EL
31	()-MCM	COUPLER	1	20PM		CP-8M20
32		HINGE PIN	2	Ø6x50L		L5BAQ180
33		HEX NUT	4	M8		HNM08
34		SPRING WASHER	4	M8		WSM08
35		PLAIN WASHER	4	M8		WPM08
36		REMOTE CONTROLLER	1		35SK56A	35S95200
37	PCB(MICOM,35S)	PCB(MICOM,35S)	1			35S89090
38		MAGNET SWITCH	1	MUD-20 5A		MUD-20
39	GLASS	FUSE HOLDER	1	250V1P		FHG-250-1P
40		FUSE	1	250V3A		F-250V3A
41		CABLE LOCKER	2	NEC-01-12A(Ø17)		NEC-01-12A
42		AIR SOLENOID VALVE	1	3V210-08-N0 AC230V		35S95050
43	()	ONE TOUCH AIR NIPPLE(EL)	1	PT1/4xØ4xØ2.5		EC425PT1/4E
44		SILENCER	1	PT1/4x22H		SILENC-PT1/4**22H
45		ROUND HEAD BOLT	2	M3x30L		RHCBM0330
46		ROUND HEAD BOLT	1	M4x12L		RHCBM0412
47		ROUND HEAD BOLT	2	M4x16L		RHCBM0416
48		TRUSS HEAD BOLT	1	M5x8L		TRTBM0508
49		BOLT SUPPORT	4	DABS-6R		DABS-6R

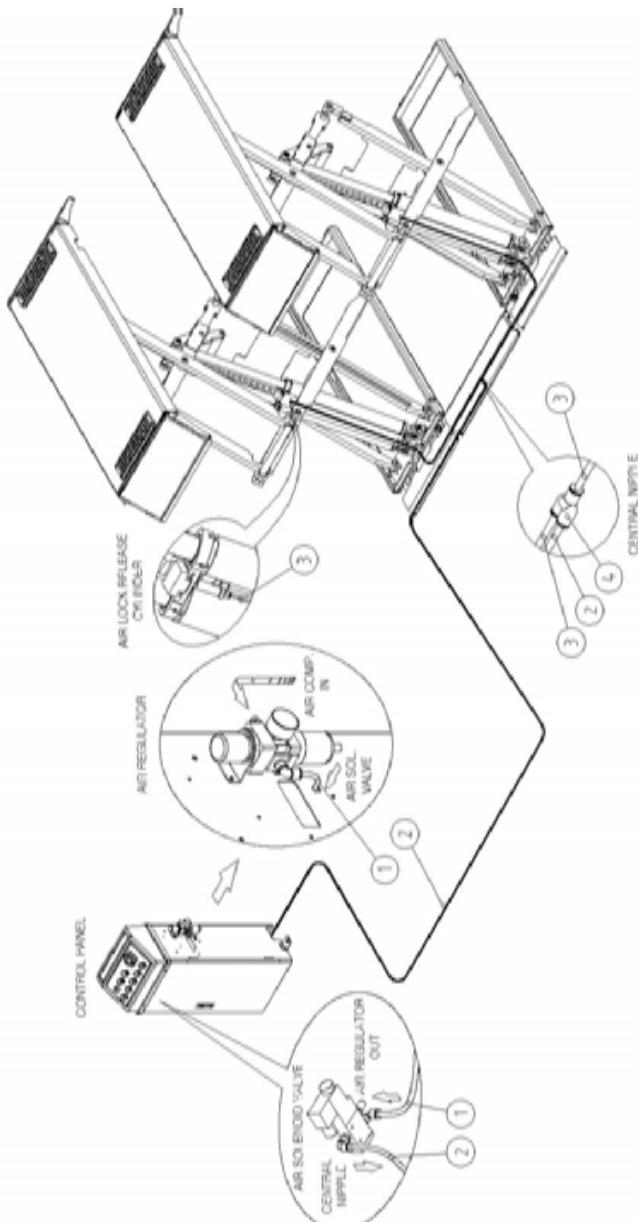
14(Control panel-PROVAC)



14(Control panel-PROVAC)

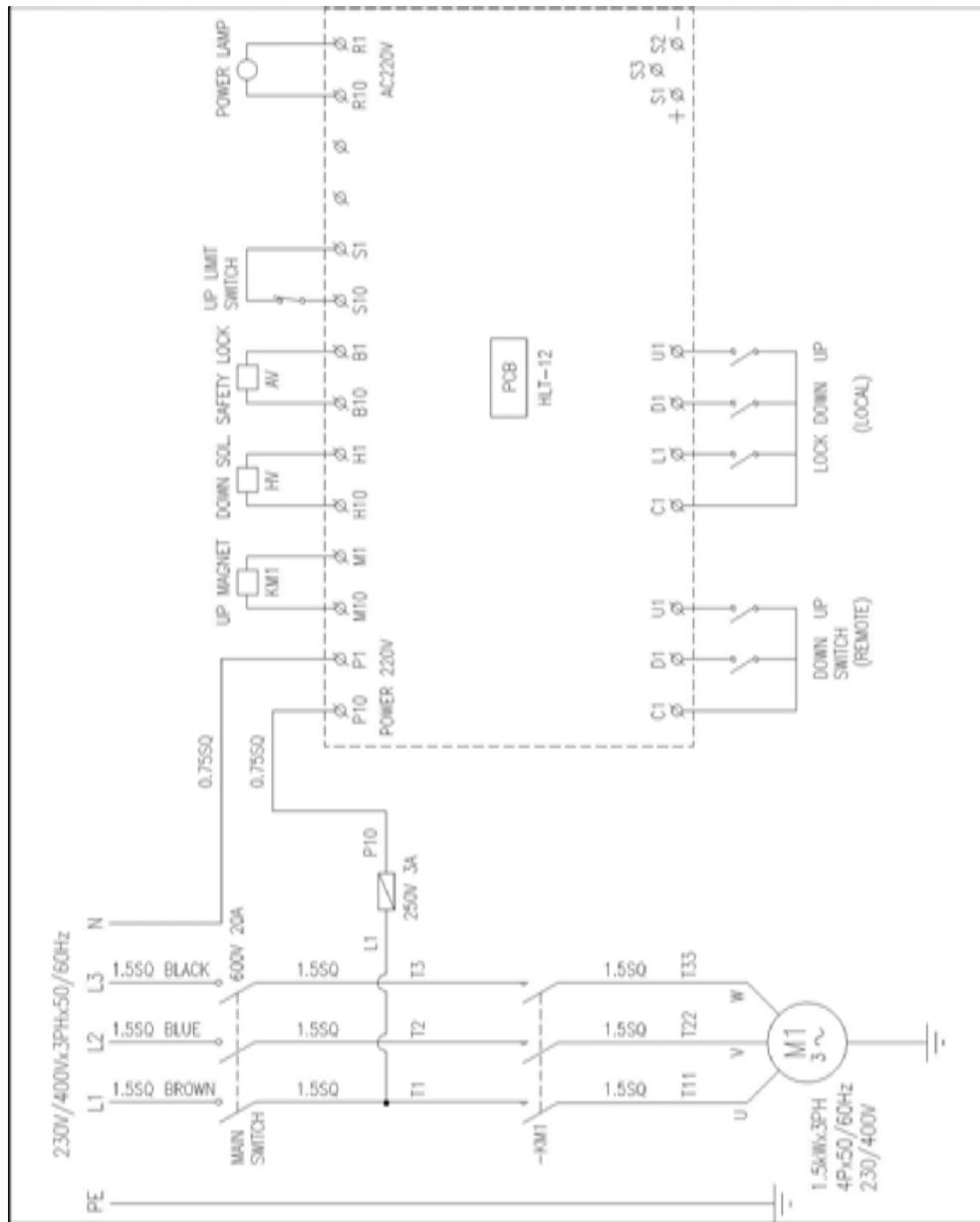
NO.	()	()				
NO.	PART NAME	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1		CONTROL PANEL UPPER PLATE	1	2.3tx27x177x477	35SQ64C	31S80021
2		PUSH BUTTON SWITCH BLACK	2	(Ø25)		KP5BRRFBK10S
3		PUSH BUTTON SWITCH WHITE	1	(Ø25)		KP5BRRFW10S
4		PUSH BUTTON SWITCH GREEN	1	(Ø25)		KP5BRRFG10S
5		CAM SWITCH	1	YMW26-20/04		90000150
6		BUZZER	1	Ø25 ADS(DC12/24V)		31S80060
7		CONTROL PANEL BODY	1	2.3tx305x470x940	35SQ65A	31S80031
8		REGULATOR PROTECT COVER	1	1.6tx35x106x162	35SQ21A	31S80094
9		MANUAL POCKET	1	1.6tx20x180x200L	35SQ23A	31S79310
10		DOOR KEY SET	1		35SQ22A	52F10110
11		CONTROL PANEL FRONT PLATE	1	2.3tx20x470x763L	35SQ66A	31S80041
12		ANCHOR BOLT BRACKET	2	3.2tx40x50x60	35SQ73A	31S80096
13		CONTROL PANEL BASE	1	3.2tx33x300x464	35SQ67A	31S80011
14		VIBRATION PROOF RUBBER	4	Ø30x20HxM8	35SQ25A	30N80100
15		HEX NUT	4	M8		HNM08
16		SPRING WASHER	4	M8		WSM08
17		PLAIN WASHER	4	M8		WPM08
18	()	ONE TOUCH AIR NIPPLE(ELBOW)	2	PT1/4xØ4xØ2.5	35SQ29A	EC425PT1/4E
19		AIR UNIT	1	TAC-3010-02G	35SQ29A	90000070
20		HOSE NIPPLE	1	PT1/4-Ø8	35SQ29A	HMCM-1/4-8
21	(SUS)	BAND(SUS)	1	3"		HB-3
22		SILENCER	1	PT1/4x22H		SILENC-PT1/4x22H
23	(SOLTVF301-5G-02A)	HARNESS(AIR SOL.TVF301-5G-02A)	1	DC24V,100L		31S80205
24		ROUND HEAD BOLT	2	M3x35L	35SQ24A	RHCBM0335
25		HEX NUT	2	M3	35SQ24A	HNM03
26		AIR SOLENOID SUPPORT	1	1.6tx40x40x120	35SQ24A	31S79410
27	S/W	MAGNET SWITCH	1	GMC(D)-12		90000041
28		CABLE DUCT	2	25x40x150L		30H94180
29	OCR	OCR	1	GTH-22 4-6A		26S81045
30	CIRCUIT BREAKER	CIRCUIT BREAKER	1	C60A3P10A23824		90000010
31	()	ELECTRIC PARTS PLATE(ZINC PLATE)	1	1.6tx15x298x464	35SQ68C	31S80051
32		CHANNEL	1	SH-C		30H94150
33	()	STOPPER(RAIL)	2			30H94130
34	(HY-FIS)250V 1~30A 1P	FUSE HOLDER(HY-FIS)250V 1~30A 1P	1			90000015
35		FUSE	1	250V3A		F-250V3A
36		EMERGENCY BUTTON BRACKET	1	1.6tx40x60x96.8	35SQ74A	31S80098
37	A	EMERGENCY PUSH BUTTON SWITCH	1	Ø25xØ29()	35SQ74A	31S80070
38		BOLT SUPPORT	4	DABS-6R	35SQ68C	DABS-6R
39	PCB(31S)	PCB(31S)	1			31S79015
40	PCB	CONTROL PCB PROTECT COVER	1	1.2tx70x120x163	35SQ78A	31S80085
41		EARTH PLATE	1	10x3tx10x110	35SQ20A	42F80090
42	400/230*0/21	TRANSFORMER 400/230*0/21	1	PT 50VA 50Hz		31S79010
43		CABLE DUCT	1	25x40x190L		30H94180
44		CABLE LOCKER	1		35SQ68C	JOKW-21
45		CABLE LOCKER	2	NEC-01-20A	35SQ68C	NEC-01-20A
46		ROUND HEAD BOLT		M4x10L		RHCBM04110
47	(TH3)	TRUSS HEAD TAPPING BOLT		M5x13L		TRTBM0513

15(Air line)

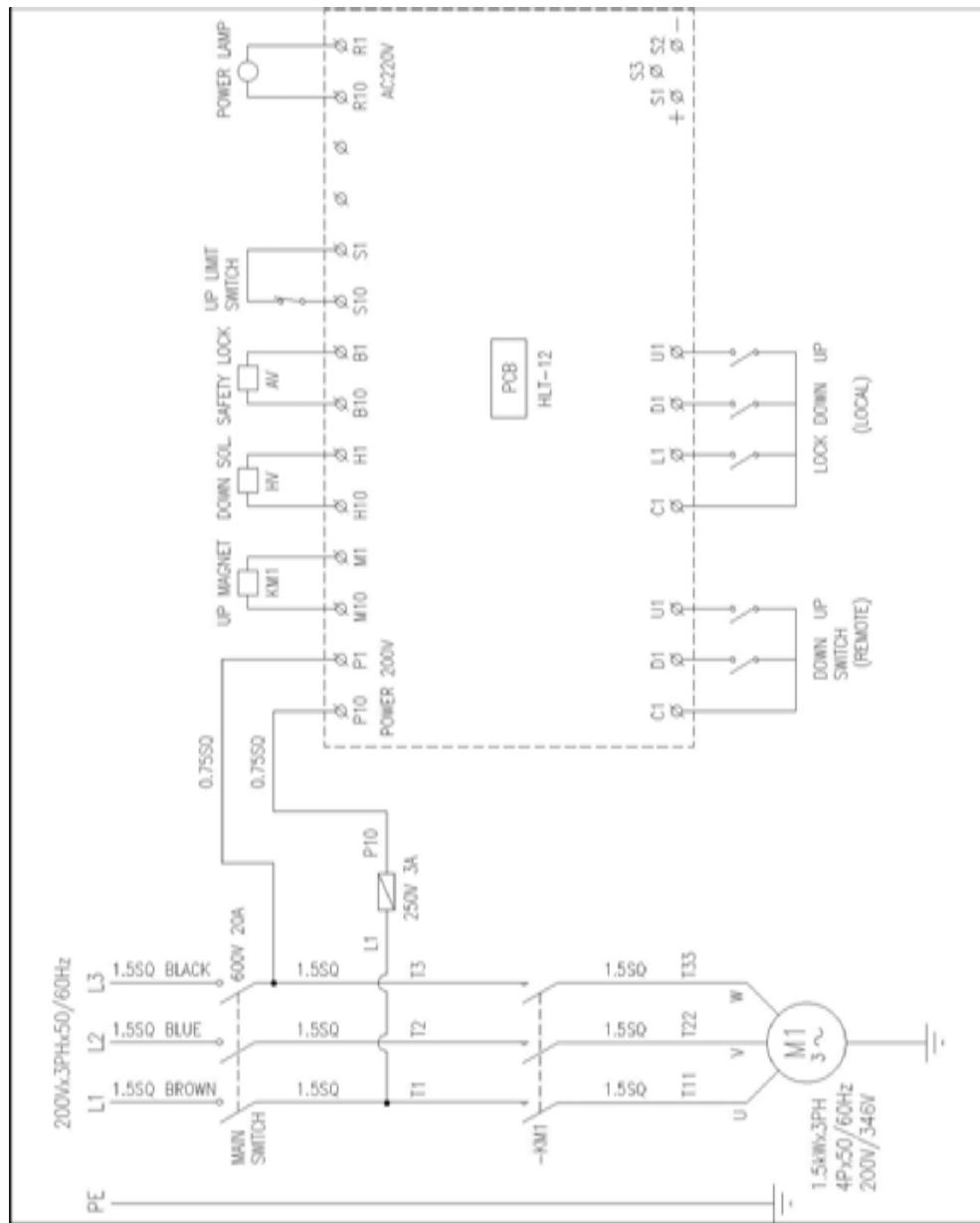


NO.	PART NAME	PART NAME	Q'TY	SPECIFICATION	DWG. NO.	ITEM NO.
1	-1	AIR HOSE-1	1	Ø6xØ4x800L		
2	-2	AIR HOSE-2	1	Ø4xØ2.5x800L		
3	-3	AIR HOSE-3	2	Ø4xØ2.5x1600L		
4	(Y)	ONE TOUCH AIR NIPPLE(Y)	1	Ø4xØ2.5xY	EC425Y	

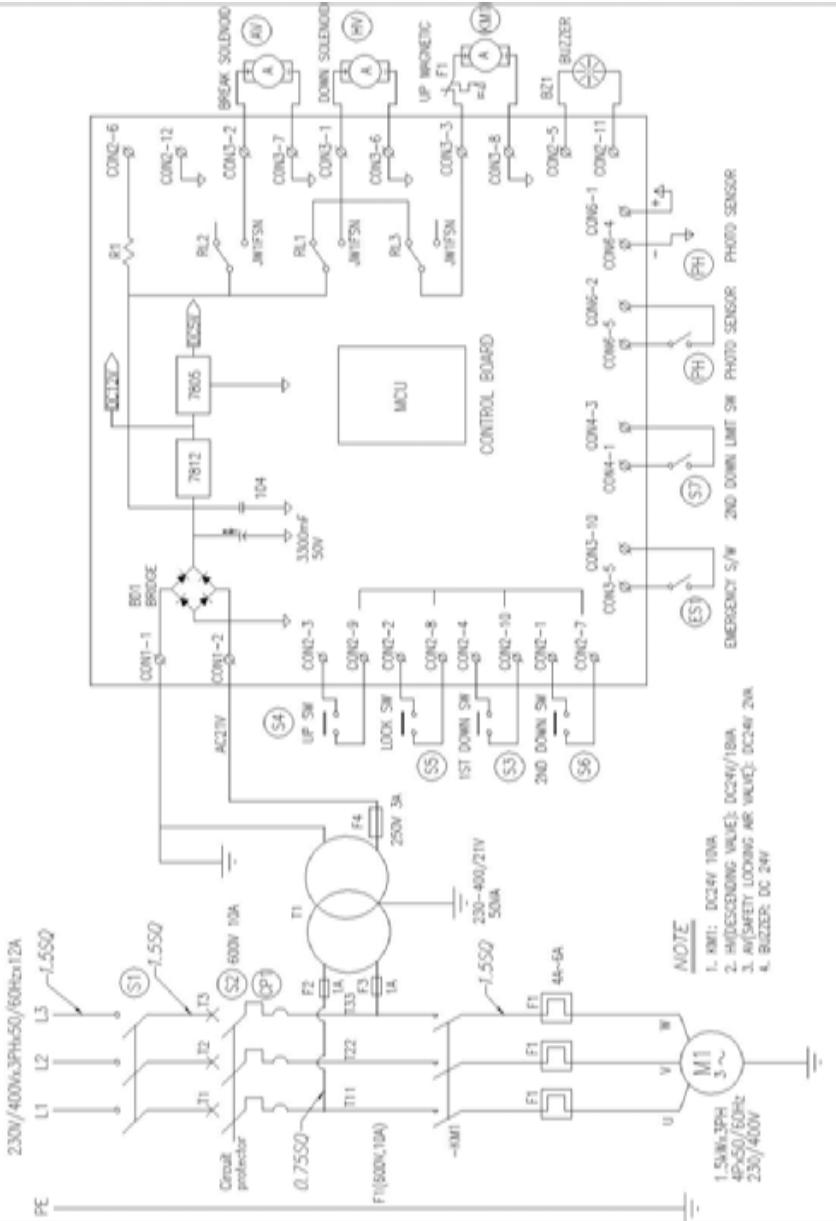
16(Electric circuit-Domesti)



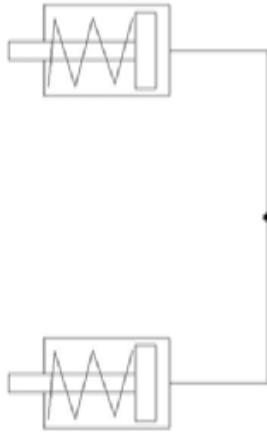
17(Electric circuit-Japan)



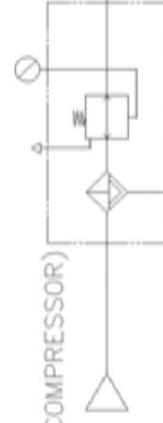
18(Electric circuit-CE)



2-AIR CYLINDER
(SAFETY LOCK RELEASE)

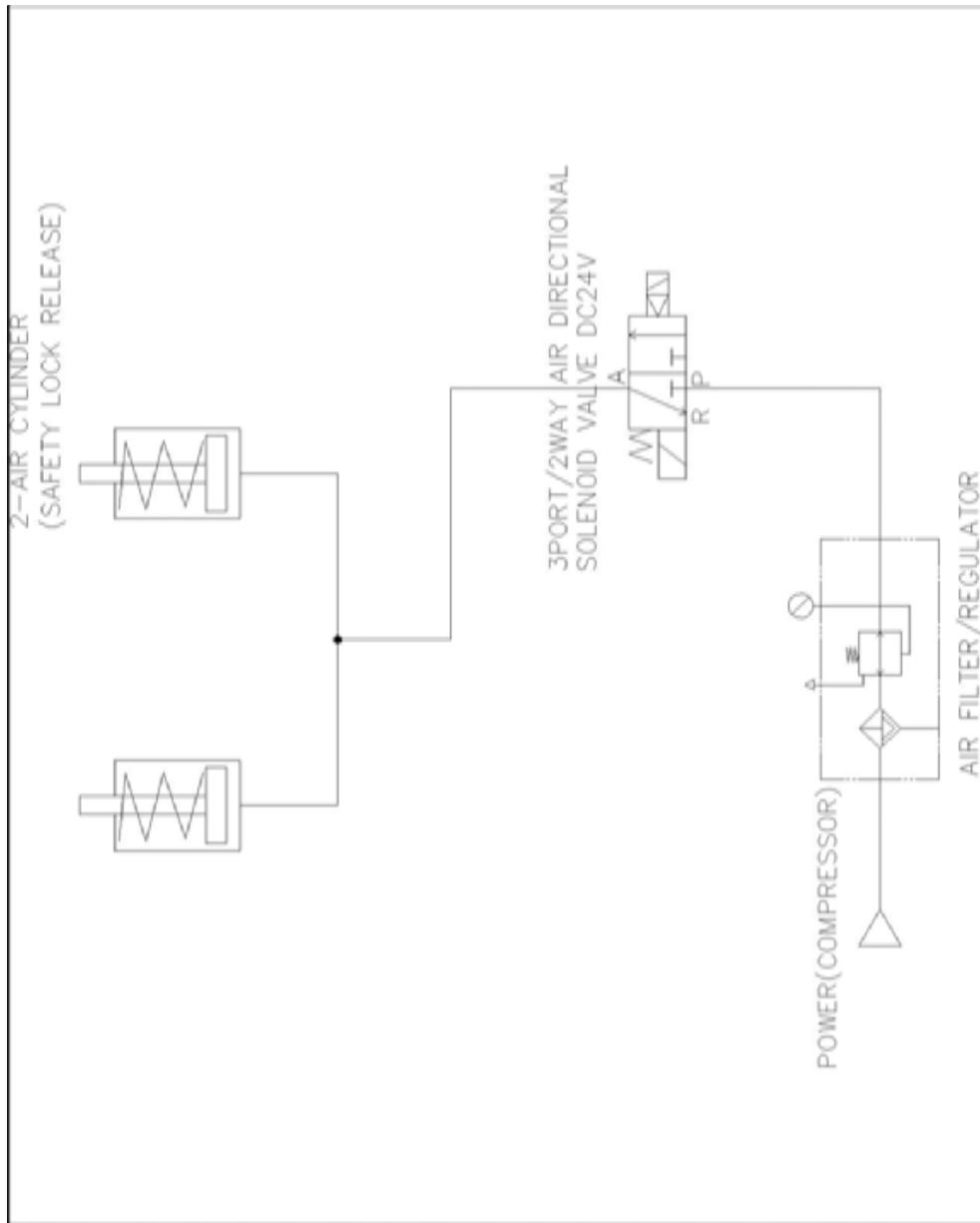


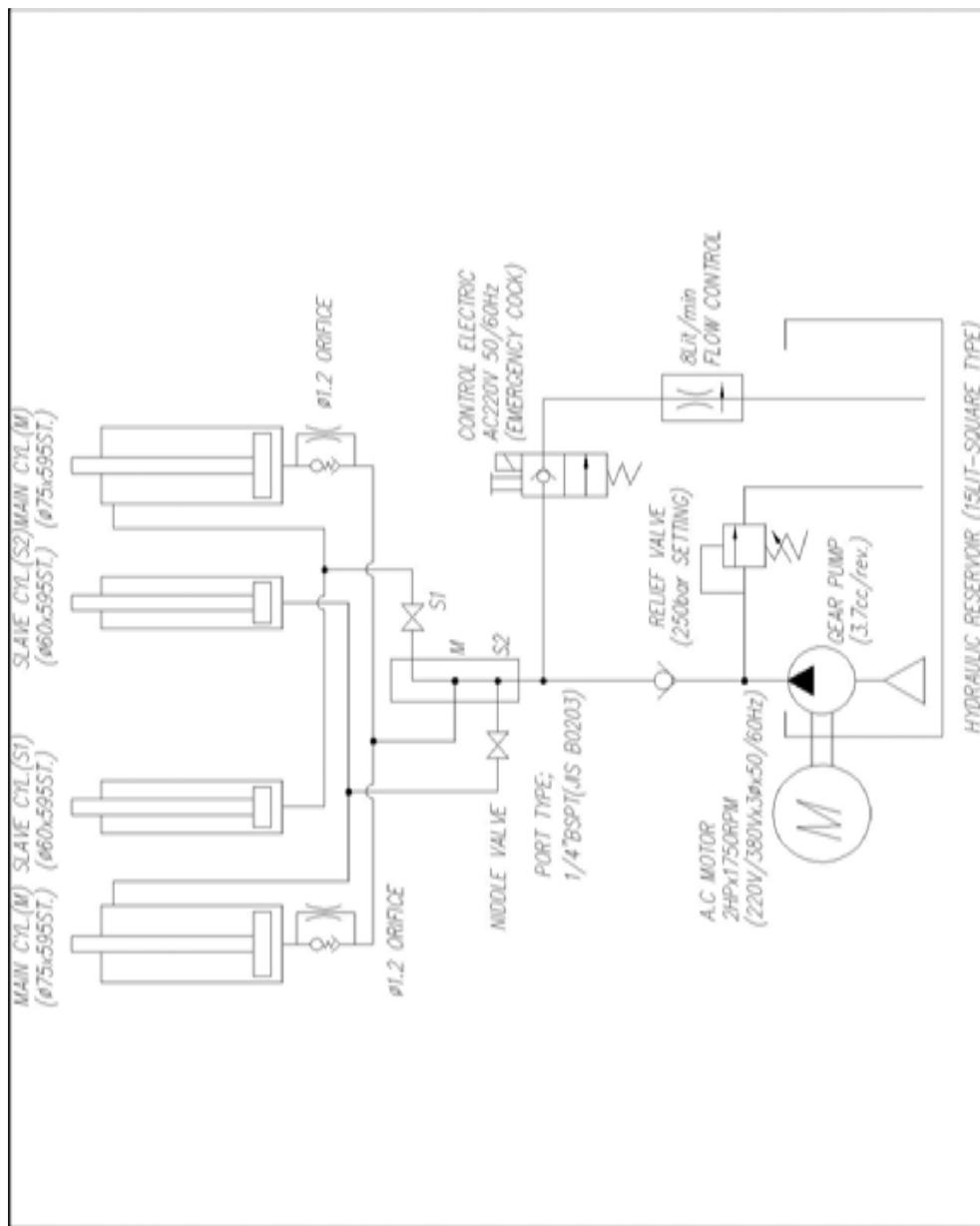
3PORT/2WAY AIR DIRECTIONAL
SOLENOID VALVE AC220V



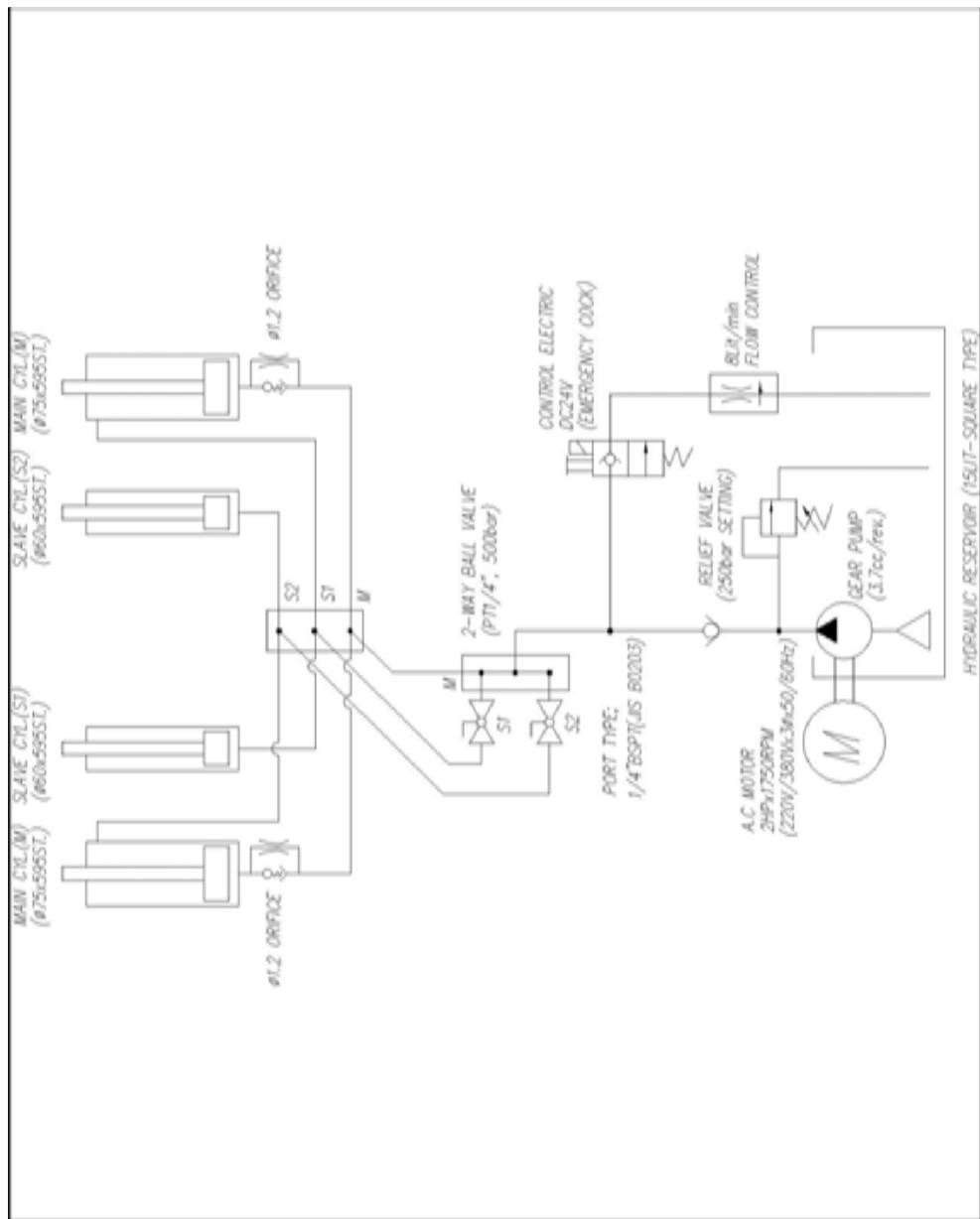
AIR FILTER/REGULATOR

20(Pneumatic circuit-CE)





22(Hydraulic circuit-PROVAC)





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