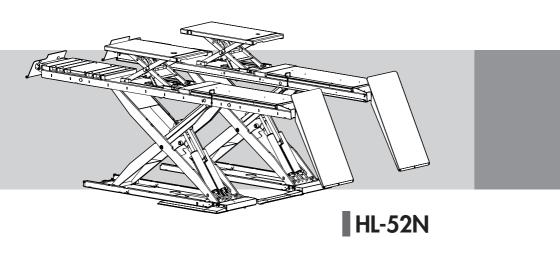


# **HESHBON SCISSORS LIFT**

Installation/Operation & Maintenance Manual



Please read this manual before you get started. You must read and understand the precautions for safety purposes and any damages that may occur to your property.

#### NOTE TO THE USER

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

- This Manual is for model: HL-52N
- 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.

# Introduction

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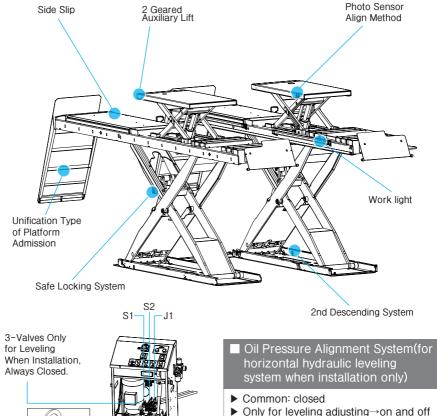
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■This manual was prepared in January. 2013 the product specifications contained in this manual are subject to change without notice.

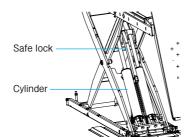
#### Features and Characteristics

Introduction



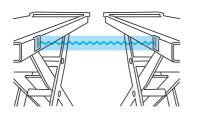
Lever Position When Operating

- operated →final off(closed)
- ▶ "J1" is for aux. lift, "S1, S2" are for main cylinder ("S1" is for left slave cylinder control, "S2" is for right slave cylinder control)—view point: the criterion of vehicle access direction



#### ■Safety Locking System

▶ 4 groups of safety locks are the center of links to help your safety in the workplace. (main lift -2 units, auxiliary lift -2 units)



#### Synchronization Photo Cell

► Controls the synchronization of the 2 auxiliary lift platforms that stops the function if the platforms are out of level.

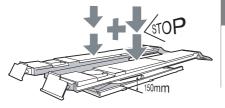




▶ Drive-On ramps ensure easy access while in lifted position they operate as wheel stops.

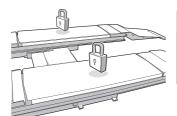
#### Lighting

► A set of 4 light units to provide ultimate underbody lighting is available as an option.



#### 2nd Descent System (Foot protection safety device)

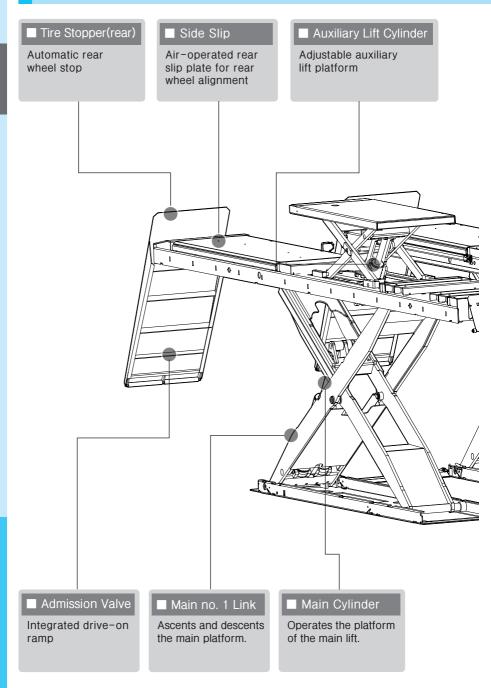
▶ Normal descent stops automatically at 150mm from ground level. The warning buzzer sounds, and the 2nd descent system allows full descent to ground level.

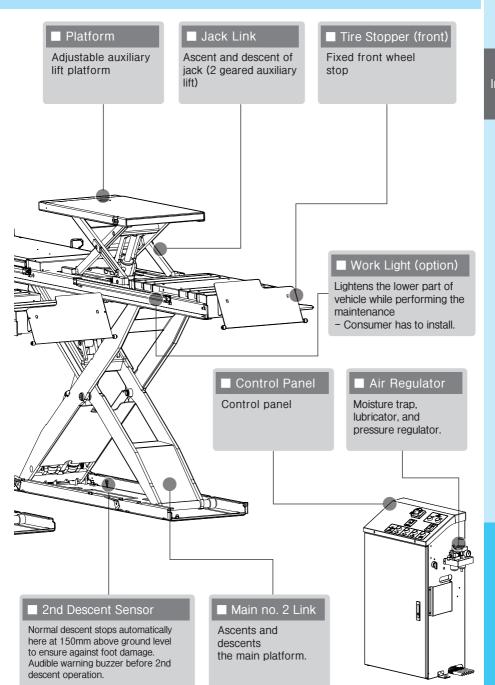


#### ■ Side Slip Locker

▶ This is for the movement lockup of the alignment rear wheel side-slip.

#### Part Descriptions



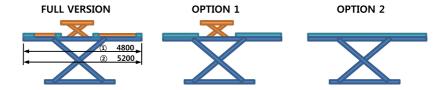


#### Description

- 1 Main Power Switch
- ② Main Descent Button
- 3 Main Ascent Button
- 4 Auxiliary Descent Button
- ⑤ Auxiliary Ascent Button
- (6) **-**
- Main Locker
- 8 Buzzer
- (9)
- ① Emergency Descent Button (Inside of the panel)
- 11 Side Slip Locker
- Work Status Lamp (optional)
- (3) 2nd Descent Button (optional)
  - If you push the 2nd main descent button in the status of the 2nd descent, it will descend.

#### Control Panel

- ① Main Power Switch Supply or isolate the power of the lift.
- 2 Main Descent Button Descends the main platform.
- 3 Main Ascent Button Ascends the main platform.
- 4 Descent Button of the Auxiliary Lift Descends the jack.
- ⑤ Ascent Button of the Auxiliary Lift Ascends the jack.
- (6) **-**
- Main Locker (Lock the main platform) Function of hanging the safety locker on the locker rail.
- ® Buzzer-When jack descends, operate photo sensor, emergency, main platform descends 2nd time. bell rings with red light.
- (9)
- (ii) Emergency Descent Button (Inside of the panel) Return to normal mode when emergency status.
- (f) Side Slip Locker Lockup rear wheel slide slip movement when working with alignment.
- Work Status Lamp Work status ON/OFF switch(optional)
- ③ 2nd Descent Button When the 2nd descent status of main platform, if you push the number 2 descent button with pushing this, platform descends to bottom. (optional)



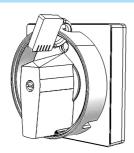
#### Specification

Model Name	HL - 52N
Capacity	Main Lift: 5,000 kg / Aux.Lift: 3,600 kg
Used Hydraulic Pressure	250 Kgf/cm²
Platform	5200 mm / 4800 mm
Overall Max.Height	Main Lift: 2,007 mm / Aux.Lift: 438 mm
Min.Runways Height	Main Lift: 265 mm
Stroke	Main Lift: 1,742 mm
Lifting Time	Main Lift: 40~ 60 sec. / Aux.Lift: 10 ~ 20 sec.
Lowering Time	Main Lift: $40 \sim 60$ sec. / Aux. Lift: $10 \sim 20$ sec.
Standard Motor	3 phase / 3kw/230V/380V/400V/50Hz/60Hz
Net Weight	About 2,990 kg
Layout Dimension (L/H/W)	6715 x 2457 x 2126 (mm)

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 but-ton.	

#### Lockout/Tagout

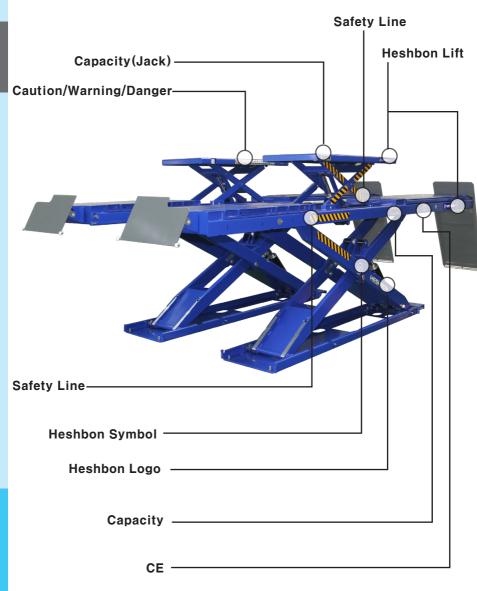






► HAZARDOUS VOLTAGE. Contact may cause electric shock or burn. TURN OFF and LOCKOUT power before servicing.

#### Caution Sticker Layout

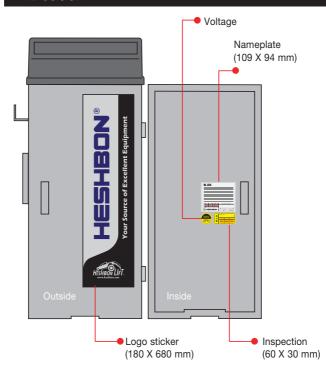


Introduction

#### 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 carefully and understand them. The rules are applied only to the manuals of Hesbon 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



Do not come under the vehicle during operation. ▶ This can cause iniury or death.



▶ This can cause injury or death.





Do not overload the rated capacity.

► This can cause injury or death.

Do not modify and remove the stopper.

▶ This can cause injury or death.









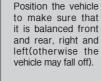
After that a vehicle

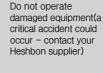
is placed on the



#### Warning Before Using the Equipment

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

















#### 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.













#### Warning While 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 150mm 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.









#### Installation Site

- -Hoist to be installed in dry location.
- -If hoist is installed in a Pit sufficient drainage should be allowed to keep hoist dry.
- -If hoist does get wet make sure all electrical wiring is dried before operations 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 sale representative agency shall install the lift, otherwise a failure may occur.



#### Place of Installation (Layout)

Checkpoints before selecting the place of installation

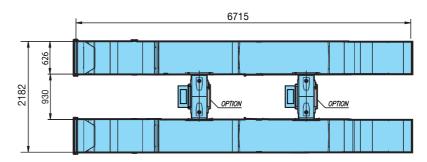
- 1) Distance from the wall or any fixed object
- ② Drive-on direction
- 3 position of power post and slave posts
- 4 Ceiling height

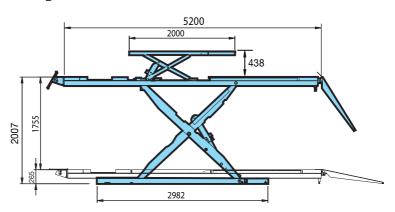
No.	Name	Picture	No.	Name	Picture
1	Main Body		8	Tire stopper (Symmetric Between Left And Right)	
2	Control Panel		9	Tire Stopper Bracket: 2ea	
3	Center Cover 1: 1ea		10	Tire Stop- per Pin(Front & Rear):2ea/2ea	
4	Center Cover 2: 2ea		11	Hose Cover (1000L): 4ea	
5	Drive-On Ramp: 2ea		12	Tail Board: 2ea	
6	Ramp Bracket: 2ea		13	Rear Stopper: 2ea	\( \tag{ \tag}  \tag{ \tag{ \tag{ \tag{ \tag{ \tag{ \tag{ \tag{ \tag{ \ta
7	Corner Hose Cover: 1ea		14	Accessory Box	



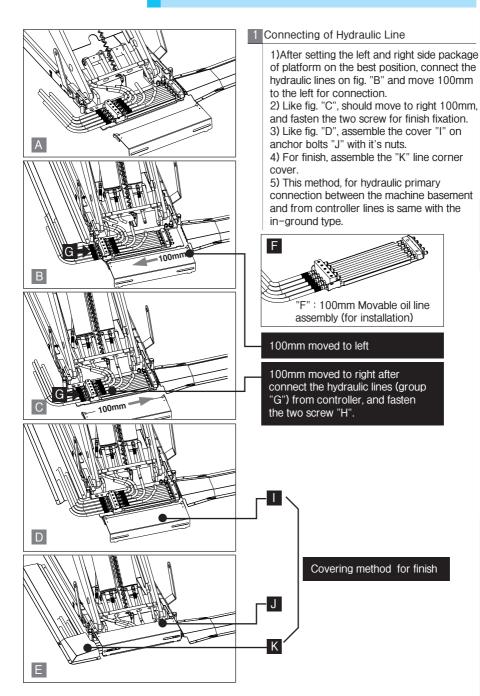
Check the items: If any of these items is missing from the box, contact your sales representative. Preparation for installation: Deploy the items in the installation site as specified in the layout. Check the positions of power and slave posts, drive-on direction, safe working area.

#### Lay-Out: HL-52N

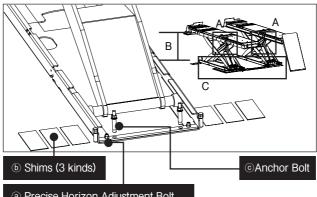




#### Installation Procedures

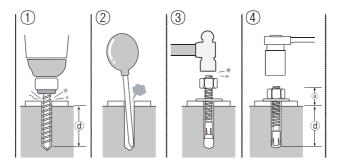


#### 2 Fixation Horizon of The Base.



#### a Precise Horizon Adjustment Bolt

- After adjusting horizon of the product precisely, fix up using anchor bolt.
- 1. Adjust the horizon of the base after the Main platform should be ascended to 900~1000mm height "B"(common alignment measuring height) and both side parking system should be locked on engaged point fig."A". And after, adjust the bolts "a" positioned on each of "C" for precise horizon of platform.
- 2. Insert the shims for long time level maintenance into the gap between the basement and the ground. →the gap can be occurred on lower ground of installation position.
- 3. Fixation of base (anchor) After inserting shims, for fixation fasten the anchor bolts "c". →the shims should be located near by anchor bolt as possible.

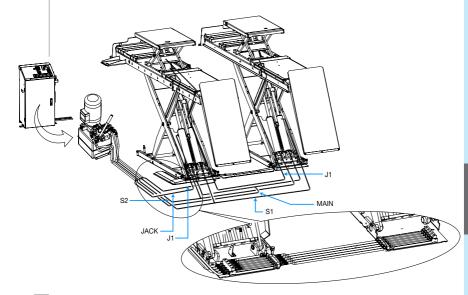


Anchor bolt installation.

- (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: 785kg.cm

#### 3 Connection of Oil Pressure Hose

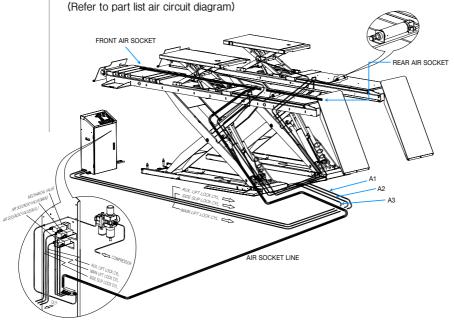
► Connect oil pressure hose by referring oil pressure line diagram. (Refer to part list oil pressure circuit)



Installation

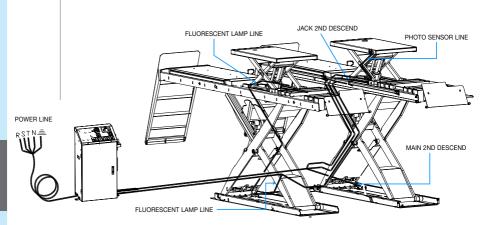
#### 4 Connection of Air Hose

Connect air hose by referring to air line diagram.



#### 5 Connecting Electronic Line

► Connect electronic line by referring to electronic diagram. (Refer to part list electronic diagram)



#### **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



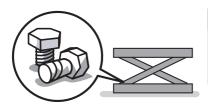
#### Mechanical Check

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



#### Exterior Check

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

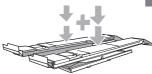


#### Cleanliness

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

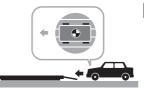
Inspect the lift everyday to operate the lift safely for a long time.

#### Operation



#### 1 Prior to use

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







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 Auxiliary lift operation

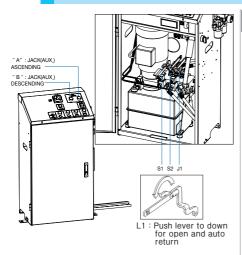
Raise the auxiliary lift app. 50mm to allow adjustment of the rear extensions. Position the rubber blocks provided under the vehicle pick-up points. Again, operate the auxiliary lift ascent button to raise the vehicle to the required work height.

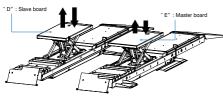


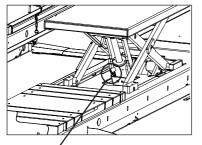
#### 5 Vehicle repair

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.

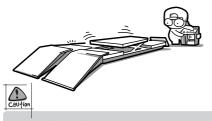
#### Operation procedures of each part







'Air bleeding vent" under the aux. lift master cylinder only.

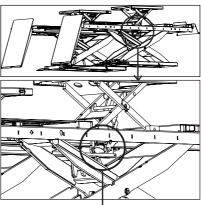


The jack (auxiliary) level adjustment is done within 2nd safe descent range.(150mm from ground)

- Only when 2nd descent function is available.

#### Adjusting auxiliary lift level

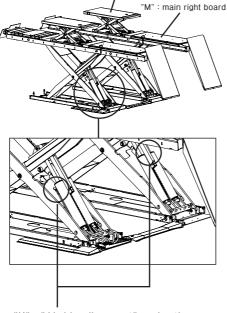
- ► Fill auxiliary lift slave cylinder(right cylinder when drive to the access direction) with oil pressure and operate main platform after installation is completed.
- 1) First, for auxiliary lift horizon level, operate when the main lift positioned on bottommost. (photo-sensor unnecessary zone until 150mm raising height)
- ② Open(push lever "L1" to down→open) the "J1 valve" and push the button "A" until top position, make over pressure, push 2 or 3 times.
- ③ For exhaust air inside of slaver cylinder line "E to D", unscrew the "C, C-2" screw 1 or 2 cycle, and confirm if exhaust the inner air bubble by pushing the "button A, lever J1", and after fasten the screw.
- 4 Descend the aux. lift until bottommost with button "B".
- 5 Final, you can see that the "D" board is little higher than "E". So, you should continue to push "B", and if you open the
- 6 "J1" slightly at same time, you can see the boards can be horizon. "J1" is important to make aux. lift level, when continue to push the "A", and that time if you open the "J1" at same time, you can see "D" ascend faster than "E". → you can adjust low position of the "D" to be horizon.
- ? And if the "D" level is higher than "E", push the "B" with opening the valve "J1", you can see the board "D" descend faster than "E". So, you can adjust the "D" level if it is higher.



"C-2": "Air bleeding point" bottom of the aux. lift slaver cylinder input point. - unscrew a turn the hydraulic hex. screw and fasten after air bleeding

# "A": JACK(AUX) ASCENDING "B": JACK(AUX) DESCENDING "I": 2nd DESCENDING "G": MAIN ASCENDING "G": MAIN ASCENDING "F": MAIN DESCENDING



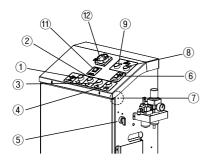


"K": "Air bleeding vent" under the main lift master cylinders.

# ■ Adjusting Main Lift Level Horizontal (Hydraulic Synchronization System)

- ▶ Fill main lift slave cylinders (right inner cylinder and left inner cylinder: the criterion of vehicle access direction) with oil pressure and operate main platform after installation is completed.
- ① First, for main lift horizon level, operate until the main lift positioned on top point after open the manual valve "S1" and "S2" both. 2 or 3 times push the ascending button again after reached the top position for air bleeding.
- ② For exhaust air inside of cylinder, unscrew the "K" left and right both 1~2 cycle, and confirm if exhaust the inner air bubble, and after, fasten the screw.
- ③ Descend the main lift until bottommost with button "F".
- ④ Finally, you can see that the "L or M" board are different height position each other. If so, you should continue to push "F" and "I", and if you notice "L" left board is higher, open the "S1" slightly at same time, you can see the boards can be horizontal. And if "M" board is higher, open the "S2" valve slightly with pushed "F and I", you can see the boards can be horizontal.
- ⑤ "S1"("S2") are important to make main lift horizon. when continue to push the "G: ascend button", and that time if you open the "S1"("S2") at same time, you can see "L" ("M") ascend faster than "M"("L"). →you can adjust low position of the "L"("M") board to be horizon.
- ⑥ And if the "L" level is higher than "M", push the"F: descending button" with opening the valve "S1", you can see the board "L" descend faster than "M". So, you can adjust the "L" level if it is higher. The right side "M" can be controlled with same method with "S2" and button "F".
- ① Maintenance for level(only main lift): During operating, when preponderated one side of level, should ascend till top height, and push ascend button "G" and open(push down and auto close return) the valve lever "S1" "S2" at the same time. It can be horizontally level easily.

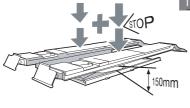
#### **Driving Operation**



#### ■Operating electric panel

► Check lift operating conditions on each buttons.

Refer to page 5 for names of each buttons.

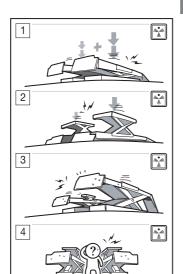


# 2

#### 1 Operation of the main lift (Button 12)

- ▶ Ascent
- -Main lift ascents when button no. ② is pressed.
- ▶ Descent
- -Main lift descents when button no. 1 is pressed. (Descents on 1st and 2nd)
- -1st descent: Descents to 150mm from ground when button no. ① is pressed.
- -2nd descent: Descents again when button no.1 and 4 are pressed at same time. (Buzzer sounds)

Operation

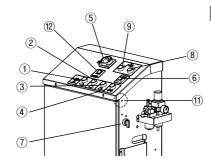


#### 2 Buzzer operation (Buzzer no. 6)

- ► Sounds on 2nd descent stage of main lift. (150mm from ground)
- ► Sounds during the 2nd descent range of auxiliary lift.
- Sounds when main and auxiliary lift are out of Synchronization zone. when the height difference exceeds 60mm between left board and right board.
- Sounds when the photo sensor of the auxiliary lift registers an out synchronization situation.



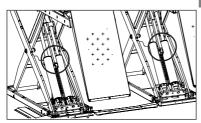
► The buzzer sounds when possibility of trouble is high.



#### 3 Operation of Underbody Lighting (Button 12)-Optional

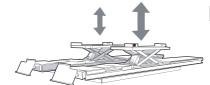
▶ Button @and the wiring circuit for lighting are standard. The 4 light units to complete this function are optional extras.





#### 4 Parking Button (Button. 3)

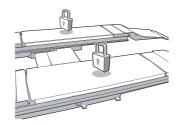
▶ Lowers the lift to the first available parking position at working height, thereby ensuring that the lift platforms and cross members are horizontal and ensuring stability during the repair work.



#### 5 Auxiliary Lift Operation Buttons (Button®9)

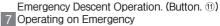
- ▶ Ascent
  - -Auxiliary lift ascends when button ® is pressed.
- ▶ Descent
- -Auxiliary lift descents when button (9) is pressed.

(Buzzer sounds auxiliary lift 2nd descent zone)



#### 6 Rear Slide Slip Lock (Button ①): Model HL-52N

► Lock the rear slip plates to allow vehicle entry: unlock the rear slip plates for 4-wheel alignment.



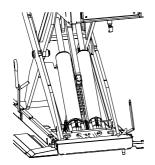
▶ If the photo sensor registers an out-of synchronization situation, the buzzer will sound and the warning light will come on, and the normal control functions will be isolated. Re-synchronize by use of the emergency button ⑪





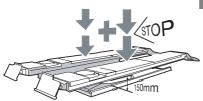
- ▶ The emergency descent operation switch must be operated by experienced technician of this product.
- ▶ Request for services when in potentially dangerous situation.

#### ■ Safety Devices



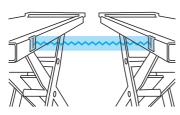
#### 1 Operating Safety Locker

 ▶ Operate safety device for safe maintenance work.
 (Operates where the center of the link, main, auxiliary lift)



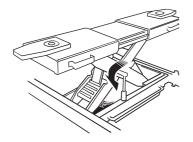
#### 2 2nd Descent Unit (Protection Worker's Foot)

▶ If you push descent button, this lift descends 150mm from the plate 1st time. This time, if you check the status and push the descent button, it descends to the plate.



#### 3 Alignment Sensor (Photo sensor)

▶ There is photo sensor left/right side of the main lift and auxiliary lift. If the heights of the left/right platform are different or if there is any obstacle inside of the platform, the lift stops and bell rings.



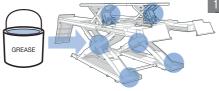
## Manual Jack Safety Locker-Optional 4 (Center rolling jack is applied)

▶ If the lift center 2 level is used, operate the safety lock manually and use it safely.

#### **Equipment Maintenance And Service**

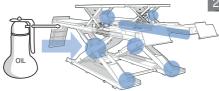
#### Lubrication

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



#### 1 Injecting Grease

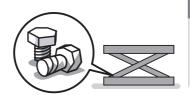
- ▶Inject enough grease at shaft of auxiliary lift and roller. (2~3 month period)
- ► Auxiliary lift slide rubbing surface.



#### 2 Injecting Oil

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





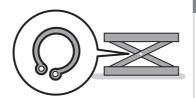
#### ■ Cleanliness

► 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.



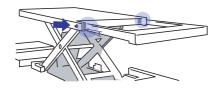
#### ► Safety Devices

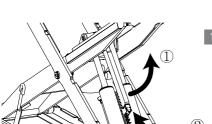
Check the area around the safety devices for cleanliness and any obstruction.



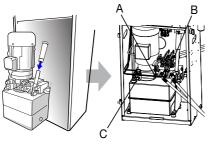
#### Check The Snap-Ring Of The Link Axis

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





- ▶ Release of the main, auxiliary lift locker -4
  - 1) Release of the locker
  - ② Lay down locker after insert a release supporter under the upper locker.





#### Auxiliary Lift Platform Extensions Lay Down Lies.

▶ 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 Descent The Lift Manually in Emergency

#### It is necessary

- 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 the pieces manually apart, put the supports between lockers.

# For locker release, use manual pump.

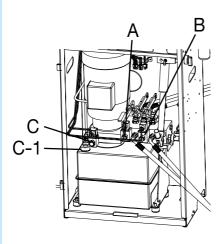
► With putting handle manually, push the valve emergency cock which needs "A" or "B" if you operated for 30-40 times. A : For aux. lift emergency cock push point.

B: For main lift emergency cock push point.



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(C-1) (19mm) in the middle of the pump manifold.

Turn the emergency cock lever (C) very slowly anti-clockwise with pushing the cock "A" or "B" which you needed one. Too much unscrewed movement will increase descent speed too much.(valve "B" is for main lift)



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.

#### Maintenance



#### 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.

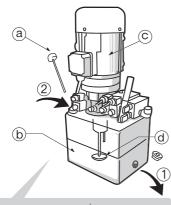
# Information For The Authorized Service Engineer Only

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-52N - 255kgf/cm²





1 Oil injection

② Oil discharge

- a Cap of the oil tank
- **(b)** Oil tank
- © Cover of the hydraulic unit
- (d) Oil nozzle cap

#### 3 Oil Change

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

#### Oil Change Procedure

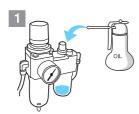
- 1) Remove the cover of the hydraulic unit.
- 2 Remove the oil filter cap and dipstick. Carefully remove the oil drain plug and allow the oil to discharge into a suitable container.
- 3 Refit the drain plug and tighten.
- (4) Refill the oil tank with new oil.
- (5) Check with the dipstick that the level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



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.

#### Air Regulator Maintenance



#### 1 Lubricator

Disconnect the air line. Check the level of oil in the lubricator and top up at intervals as necessary. Type of oil according to the air tool manufacturer's specifications. Refit air line.



#### 2 Moisture Separator

Check at regular intervals and drain the moisture separator glass through the drain plug as necessary. Refit air line.



#### 3 Pressure Adjustment

Pressure should be maintained at minimum 6kg/cm² and maximum 8kg/cm². Adjust regulator cap as necessary.

#### **Trouble Shooting**

Symptoms		Check point	Corrective Action to be taken	
Hydraulic Cylinder And Its Units	An abnormal noises at motor,	Rated capacity is exceeded.     Relief pressure is low.     Shortage of hydraulic oil.	Operate within rated capacity.     Adjust to relif pressure (275 bar)     Let air out of the hydraulic unit after supplying the oil.	
	Hydraulic oil is leaking,	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 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	Moto is not operating 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 (Pequest A/S).     Replacement (Pequest 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.	Re-operate after changing the phase connection     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  2 Months (Use Over 20 Times Per One Day)	Replacement	2 Year  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**
- **ELECTRIC CIRCUIT**

### **MODEL**

HL-52N

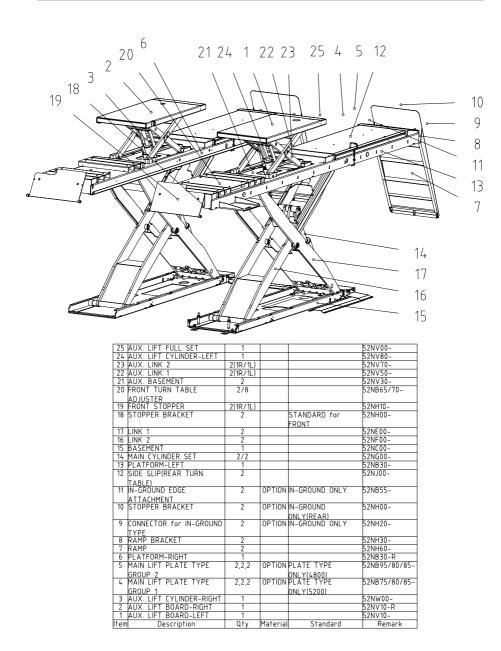
Version 3 - 01,2013

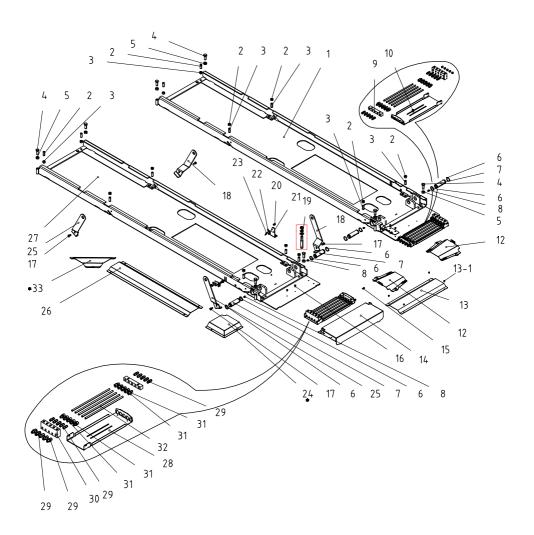
Your Source of Excellent Equipment



This installation manual is prepared as of January 2013. This manual is subject to change without prior notice if the lift specificaion is changed.

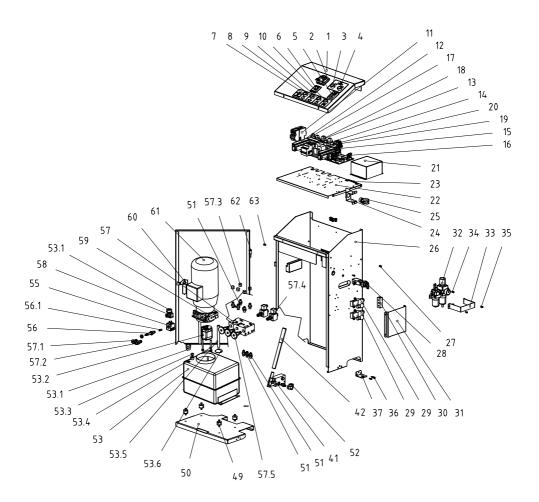
#### **OVERALL INDEX**



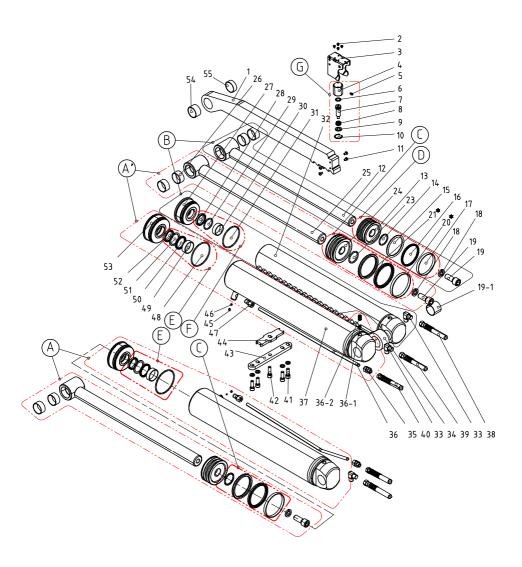


번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	BASEMENT-RIGHT	1	6t*90*584*2982	52NC01-R	52N53200
2	HEX NUT	16	M16		HN3M16
3	SET SCREW	16	M16*50L		MWBM1650
4	HEX BOLT	8	5/8"*60L		MWBM1650
5	HEX NUT	8	5/8"		HN3M16
6	SNAP RING	8	CS35		SN-CS35
7	BASEMENT PIN	4	Ø35*114.2L	52NC03-	52N53203
8	GREASE NIPPLE	4	PT1/8*ST.		GN-1/8S
9	OIL BLOCK 2	2	25*25*126L	52NC18-	52N53218
10	ROUND HEAD SCREW	2	M5*13L		RHCBM0513
11	BLOCK BRACKET	1	2.3t*19.2*60*136	52NC21-	52N53221
12	CENTER LINE COVER 2	2	2.3t*50.7*275.6*238.2	52NC13-	52N53213
13	CENTER LINE COVER 1	1	2.3t*22.3*203.1*580	52NC12-	52N53212
13-1	ROUND HEAD SCREW	4	M5*5L		RHCBM0505
14	BASEMENT COVER	2	2.3t*87*202*591.6	52NC11-	52N53211
15	ROUND HEAD SCREW	1	M6*15L		RHCBM0615
16	ROUND HEAD SCREW	2	M6*10L		RHCBM0610
17	HEX BOLT	8	M10*15L		HEXM1015
18	HANGER 2	4(2R/2L)	6t*97.8*60*324.4	52NC16-	52N53216
19	ANCHOR BOLT	16	M16*125L		ANCW-16-125
20	ROUND HEAD SCREW	2	M5*8L		RHCBM0508
21	SWITCH BRACKET(DOMESTIC ONLY)	1	2.3t*35*55*100	52NC09-	52N53209
22	MICRO SWITCH(DOMESTIC ONLY)	1	V15F-07C		V15F-07C
23	ROUND HEAD SCREW	2	M3*15L		RHCBM0315
24	CORNER LINE COVER	1	2.3t*73.7*225.8*292.9		52N53215
25	HANGER 1	4(2R/2L)	6t*50.5*60*322.9	52NC06-	52N53206
26	LINE COVER ST.	4	2.3t*22.3*206.6*1000	52NC20-	52N53220
27	BASEMENT-LEFT	1	6t*90*584*2982	52NC01-	52N53200
28	OIL BLOCK MOVABLE BRACKET	1	3.2t*48.3*57.4*163.4*471.2	52NC19-	52N53219
29	OIL NIPPLE-ST	4	PT1/4*1/2-20UNF		HMCM-1/4-05U
30	OIL BLOCK 2	1	30*50*157	52NC17-	52N53217
31	MALE CONNECTOR-ST.	4	PT1/4*ST.*Ø10		BMC10-1/4
32	STEEL PIPE	4	Ø10*376L	52NQ01-	52N57080
33	HOSE CORNER COVER	1	2.3t*24.6*155.2*405.7	52NC24-	52N53215

#### Controller



			I		
번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
0	CONTROL PANEL ASSEMBLY	1			52N58500
1	UPPER COVER	1	2.3t*141.9*354.1*507	52NQ04-	52N54604
2	POWER CAM SWITCH	1			90000110
3	PUSH BUTTON SW-BLACK PUSH BUTTON SW-WHITE	1			KP5BRRFBK10S
					KP5BRRFW10S
5	BUZZER SEE-SAW SW	1	-		31S80060
7	PUSH BUTTON SW-BLACK	1			DJR602-4210(LF) KP5BRRFBK10S
8	PUSH BUTTON SW-WHITE	1			KP5BRRFW10S
9	PUSH BUTTON SW-GREEN	1			KP5BRRFG10S
10	PUSH BUTTON SW-BLACK	1			KP5BRRFBK10S
11	MAGNET SW, OCR	1,1			90000041,52N57301
12	CABLE DUCT 1	2			52F00709
13	MCCB	1			56H51170
14	TRANSFORMER	1			TR4002110050
15	CABLE DUCT 1	-			52F00709
16	PCB	1			52N81260
17	CABLE LOCKER 1	2			JOKW-21
18	CABLE LOCKER 2	2			NEC-01-20A
19	CABLE DUCT 2	1			52F00709
20	ELEC. TERMINAL	1SET	(Yellow/Green) / Blue/Grey		52F00720/30/40
21	PCB COVER	1	1.2tx90x145x171	52NQ18-	52F10130
22	ELEC. ASSEMBLY PLATE	1	1.6t*15*320.5*494	52NQ08-	52N54608
23	ELEC. EARTH PLATE	1			42F80090
24	EMERGENCY BUTTON BRACKET	1	1.6t*43.6*86.8*106.3	52NQ14-	52N54614
25	PUSH BUTTON-EMERGENCY	1			31580070
26	CONTROLLER BODY	1	2.3t*326.5*500*944.6	52NQ05-	52N54605
27	ROUND HEAD SCREW	2	M5*13L		TRTBM0513
28	AIR MECHANICAL VALVE	1	PT1/8		52F10210
29	AIR SOLENOID VALVE	2			52N57351
30	AIR DISTRIBUTOR BLOCK	1	25x25x70L		52F10170
31	MANUAL BROCHURE POCKET	1	1.6tx20x180x200	5011000	31579310
32	AIR REGULATOR SET	1	TAW-3000-02BG	52NQ23-	52N57352
33	AIR REGULATOR GUIDER ROUND HEAD SCREW	1	1.6tx35x106x162	52NQ12-	31S80094 TRTBM0513
35	ROUND HEAD SCREW	2	M5*13L		TRTBM0513
36	ROUND HEAD SCREW	6	M5*13L M5*13L		TRTBM0513
37	ANCHOR BRACKET	2	3.2t*30*50*60	52NQ13-	52F10090
41	MANUAL PUMP	1	3.21^30^30^00	32IVQ13	K250182000
42	MANUAL PUMP HANDLE	1			K250182100
49	ANTI-VIBRATION RUBBER	4	M8*%%c30*20H		30N80100
50	POWER PACK-BASEMENT	1	1410 70 70 20 2011		52N54607
51	STEEL NIPPLE-ST.	1	PT1/4*ST.		HMCM-1/4-05U
52	EL-NIPPLE	1			52F10230
53	TANK-RESERVIOR	1	15L		52F80040
53	CHECK W. CAP	1			90000296
53	PUMP	1	4.8cc		C1640140RZ
53	STOP BOLT	1	PT1/4*11L		MWBU1-4-11
53	WRENCH BOLT	2	M8*100L		WBM08100
53	SUCTION PIPE	1	PT1/4*170L		SUC-PIPE
53	SUCTION FILTER	1	PT1/4		SUC-FILTER
55	COIL	1	24V DC		C1664010C2
56	CHECK SOL. VALVE	1	SINGLE CHECK		V389603E10
56	ORIFICE	1	10Lit/min		V38951900
57	OIL BLOCK-MAIN	1	50*91.5*149	52NT10C	52N57700
57	CHECK VALVE	1	300508		V389226000
57	RELIEF VALVE	1	300507		V388904A23
57	CAP(BRASS COPPER)	5	PT1/4		CAP-PT1/4
57	BOUBLE CHECK VV.(POPPET TYPE)	2	NCS047-DOUBLE CHECK VV.		52N57402
57	NEEDLE VV.(KNOVE)	3	3/4-16UNF		NDL-V/V-047-N
58	CABLE CONNECTOR	1	21011 2011		90000290
59	MOTOR	1	3KW*3PH		M33805640
60	DOOR LOCKER KEY	1			52F10110
	DOOR	1 1	1		52N54606
61					
61 62 63	HINGE PIN ROUND HEAD SCREW	2	M5*13L		52N54626 TRTBM0513



번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
Α	MASTER CYLINDER ASSY'(right)	1SET		52NG00C	52N58520
A'	MASTER CYLINDER ASSY'(left)	1SET		52NG00C	52N58510
В	SLAVER CYLINDER ASSY'	2SET		52NG20C	52N58530
C	KIT SEAL for master piston	2SET		-	52N59310
D	KIT SEAL for slaver piston	2SET		-	52N59320
Е	KIT SEAL for master rod cover	2SET		-	52N59330
F	KIT SEAL for slaver rod cover	2SET		-	52N59340
G	AIR CYLINDER ASSY'	2SET		-	52N55030
1	UPPER LOCKER	2	35t*104.1*700.5	52NG10I	52N53610
2	ROUND HEAD SCREW	8	M4*6L	-	RHCBM0406
3	AIR CYLINDER FIXER		3.2t*43*53*76.7	52NG12-	52N53612
4	AIR CYLINDER	2	Ø35x58L	52NU31-	52N55031
5	ONE TOUCH AIR NIPPLE	2	M5xØ4*ST.	-	EC0504
6	O-RING	2	P16(Ø2.4xØ16xØ20)	-	ORP16
7	AIR PISTON	2	Ø20*56L	52NU32-	52N55032
8	SPRING	2	Ø18.4xØ16x36Lx5C	52NU04-	30N93150
9	HEAD COVER	2	Ø15.2*Ø24.2*2L	52NU34-	52N55034
10	SNAP RING	2	CR25	-	SN-CR25
11	ROUND HEAD SCREW	8	M6*10L	-	RHCBM0610
12	SLAVE ROD BAR	2/2	#00 III	52NG09/G26-	52N53626
13	SLAVE PISTON	2	Ø89x41L	52NG22-	52N53622
14	O-RING	2	P40(Ø3.5xØ40xØ46)	-	ORP40
15	U-PACKING	4	Ø90xØ80x6B	-	UHP908006
16	U-PACKING	-	Ø90xØ80x6B	-	UHP908006
17	WEAR RING	2	Ø90xØ85x2.5tx10B	-	WEAR908510
18	SPRING WASHER	4	M18	-	WSM18
19	WRENCH BOLT	4	M18x40L	-	WBM1840
19	DU BUSH	2	DU4035	-	DU4035
20	WEAR RING	2	Ø100*Ø95*2.5t*10B	-	WEAR1009510
21	U-PACKING	4	Ø100*Ø85*9B	-	UHP1008509
	O-RING	-	P44(Ø3.5xØ44xØ50)	-	ORP44
23	MASTER PISTON	2		-	
24					
$\overline{}$		2	Ø100*41L	52NG02-	52N53602
25	MAST ROD BAR	2/2		52NG02- 52NG06/G09-	52N53606
25 26	MAST ROD BAR DU BUSH	2/2	DU4020	52NG06/G09-	52N53606 DU4020
25 26 27	MAST ROD BAR DU BUSH SLAVE HEAD COVER	2/2 8 2	DU4020 Ø100x41L		52N53606 DU4020 52N53624
25 26 27 28	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL	2/2 8 2 2	DU4020 Ø100x41L Ø40xØ48x5B	52NG06/G09- - 52NG24- -	52N53606 DU4020 52N53624 DHS4048065
25 26 27 28 29	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING	2/2 8 2 2 2	DU4020 Ø100x41L Ø40xØ48x5B P40(Ø3.5xØ40xØ46)	52NG06/G09- - 52NG24- -	52N53606 DU4020 52N53624 DHS4048065 ORP40
25 26 27 28 29 30	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING	2/2 8 2 2 2 2	DU4020 Ø100x41L Ø40xØ48x5B P40(Ø3.5xØ40xØ46) Ø40xØ45x2.5tx15B	52NG06/G09- - 52NG24- -	52N53606 DU4020 52N53624 DHS4048065 ORP40 WEAR404515
25 26 27 28 29 30 31	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING	2/2 8 2 2 2 2 2	DU4020 Ø100x41L Ø40xØ48x5B P40(Ø3.5xØ40xØ46)	52NG06/G09- - 52NG24- - -	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85
25 26 27 28 29 30 31 32	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE	2/2 8 2 2 2 2 2 2 2	DU4020 Ø100x41L Ø40xØ48x5B P40(Ø3.5xØ40xØ46) Ø40xØ45x2.5tx15B G85	52NG06/G09- - 52NG24- -	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621
25 26 27 28 29 30 31 32 33	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL	2/2 8 2 2 2 2 2 2 2 4	DU4020 Ø100x41L Ø40xØ48x5B P40(Ø3.5xØ40xØ46) Ø40xØ45x2.5tx15B G85 PT1/4+EL	52NG06/G09- - 52NG24- - - - - 52NG21/G23- -	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE
25 26 27 28 29 30 31 32 33 34	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER	2/2 8 2 2 2 2 2 2 2 4 2	DU4020 Ø100x41L Ø40xØ48x5B P40(Ø3.5xØ40xØ46) Ø40xØ45x2.5tx15B G85 PT1/4*EL 35t(34)*96.7*689.5	52NG06/G09- - 52NG24- - -	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608
25 26 27 28 29 30 31 32 33 34 35	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR	2/2 8 2 2 2 2 2 2 2 4 2 2	DU4020 0100x41L 040x048x5B PA0(03 5x040x046) 040x045x2.5tx15B G85 PT1/4*EL 351(34)*96.7*689.5 PT1/4*ST.	52NG06/G09- - 52NG24- - - - - - 52NG21/G23- - 52NG08-	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4
25 26 27 28 29 30 31 32 33 34 35 36	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE(BENDED)	2/2 8 2 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 2 2	DU4020 Ø100x41L Ø40xØ48x5B P40(Ø3.5xØ40xØ46) Ø40xØ45x2.5tx15B G85 PT1/4*EL 35t(34)*96.7*689.5	52NG06/G09- - 52NG24- - - - - 52NG21/G23- -	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100
25 26 27 28 29 30 31 32 33 34 35 36 36	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE (BENDED) ORIFICE	2/2 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	DU4020 0100x41L 040x048x5B PA0(03 5x040x046) 040x045x2.5tx15B G85 PT1/4*EL 351(34)*96.7*689.5 PT1/4*ST.	52NG06/G09- - 52NG24- - - - - - 52NG21/G23- - 52NG08-	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201
25 26 27 28 29 30 31 32 33 34 35 36 36 36	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE(BENDED) ORIFICE SPRING	2/2 8 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 2 2 2	DU4020 0100x41L 040x048x5B PA0(03 5x040x046) 040x045x2.5tx15B G85 PT1/4*EL 351(34)*96.7*689.5 PT1/4*ST.	52NG06/G09- - 52NG24- - - - - 52NG21/G23- - 52NG08- - 52NQ01- -	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201 31571203
25 26 27 28 29 30 31 32 33 34 35 36 36	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE (BENDED) ORINCE SPRING MASTER CYLINDER TUBE	2/2 8 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 2 2 2	DU4020 Ø100x41L Ø40xØ48x5B P40(Ø3.5xØ40xØ46) Ø40xØ45x2.5tx15B G85 PT1/4*EL 35t(34)*96.7*689.5 PT1/4*ST. Ø10*570L	52NG06/G09-  52NG24-   52NG21/G23-  52NG08-  52NQ01-  52NG01/G03-	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201 31S71203 52N53601
25 26 27 28 29 30 31 32 33 34 35 36 36 37	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE(BENDED) ORIFICE SPRING	2/2 8 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 2 2 2	DU4020 0100x41L 040x048x5B PA0(03 5x040x046) 040x045x2.5tx15B G85 PT1/4*EL 351(34)*96.7*689.5 PT1/4*ST.	52NG06/G09- - 52NG24- - - - - 52NG21/G23- - 52NG08- - 52NQ01- -	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201 31571203
25 26 27 28 29 30 31 32 33 34 35 36 36 36 37	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE (BENDED) ORINCE SPRING MASTER CYLINDER TUBE	2/2 8 2 2 2 2 2 2 2 4 4 2 2 2 2 2 2 2 2 2	DU4020 Ø100x41L Ø40xØ48x5B P40(Ø3.5xØ40xØ46) Ø40xØ45x2.5tx15B G85 PT1/4*EL 35t(34)*96.7*689.5 PT1/4*ST. Ø10*570L	52NG06/G09- - 52NG24- - - - 52NG21/G23- - 52NG01- - 52NG01- 52NG01/G03- 52NQ01-5 52NQ01-4	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201 31S71203 52N53601 52N57050
25 26 27 28 29 30 31 32 33 34 35 36 36 36 37 38 39	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE (BENDED) ORINCE SPRING MASTER CYLINDER TUBE OIL HOSE OIL HOSE	2/2 8 2 2 2 2 2 2 2 2 4 4 2 2 2 2 2 2 2 2	DU4020 Ø100x41L Ø40x048x5B P40(Ø3 5x040x046) Ø40x045x2.5tx15B G85 PT1/4*EL 35t(34)*96.7*689.5 PT1/4*ST. Ø10*570L	52NG06/G09- - - 52NG24- - - - 52NG21/G23- - 52NG08- - 52NQ01- - - 52NG01/G03- 52NQ01-5	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201 31571203 52N53601 52N53600 52N57050 52N57040
25 26 27 28 29 30 31 32 33 34 35 36 36 36 37 38 39 40	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE (BENDED) ORINCE SPRING MASTER CYLINDER TUBE OIL HOSE OIL HOSE	2/2 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	DU4020 Ø100x41L Ø40x048x5B P40(Ø3.5x040x046) Ø40x045x2.5tx15B G85 PT1,4x=L 35t(34)*96.7*689.5 PT1,4x=L 010*570L  700L 540L 540L 500L M10*20L	52NG06/G09- - 52NG24- - - - 52NG21/G23- - 52NG01- - 52NG01- 52NG01/G03- 52NQ01-5 52NQ01-4	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201 31571203 52N57050 52N57040 52N57040 S2N57030 WBM1020
25 26 27 28 29 30 31 32 33 34 35 36 36 37 38 39 40 41	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE(BENDED) ORIFICE SPRING MASTER CYLINDER TUBE OIL HOSE OIL HOSE UN HOSE WRENCH BOLT	2/2 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	DU4020 Ø100x41L Ø40x048x5B PA0(Ø3.5x040x046) Ø40x045x2.5tx15B G85 PT1/4*EL 35t(34)*96.7*689.5 PT1/4*ST. Ø10*570L  700L 540L	52NG06/G09- - 52NG24- - - - 52NG21/G23- - 52NG01- - 52NG01- 52NG01/G03- 52NQ01-5 52NQ01-4	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201 31571203 52N53601 52N57050 52N57050 52N57050 52N57040 52N57040
25 26 27 28 29 30 31 32 33 34 35 36 36 37 38 39 40 41 42	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O'RING WEAR RING O'RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE(BENDED) O'RIFICE SPRING MASTER CYLINDER TUBE OIL HOSE OIL HOSE OIL HOSE WRENCH BOLT WRENCH BOLT	2/2 8 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2	DU4020 Ø100x41L Ø40x048x5B P40(Ø3.5x040x046) Ø40x045x2.5tx15B G85 P71/4+EL 35t(34)*96.7*689.5 P71/4+ST. Ø10*570L 700L 540L 500L M10*20L M10*35L	52NG06/G09 52NG24 52NG21/G23 52NG01- 52NG01- 52NG01-5 52NQ01-4 52NQ01-3	52N53606 DU4020 DU4020 S2N53624 DH54048065 ORP40 WEAR404515 ORG85 S2N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201 31571203 52N53601 52N57050 52N57040 52N57030 WBM1020 WBM1035
25 26 27 28 29 30 31 32 33 34 35 36 36 37 38 39 40 41 42 43	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE (BENDED) ORING MASTER CYLINDER TUBE OIL HOSE OIL HOSE OIL HOSE WRENCH BOLT WRENCH BOLT BOTTOM LOCKER BRACKET	2/2 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	DU4020  0100x41L  040x048x5B  PA0(03.5x040x046)  040x045x2.5tx15B  G85  PT1/4*EL  351(34)*96.7*689.5  PT1/4*ST.  010*570L  700L  540L  500L  M10*20L  M10*20L  M10*25L  12*30*217.5	52NG06/G09 52NG24 52NG21/G23 52NG01 52NG01/G03- 52NQ01 52NQ01-4 52NQ01-3 52NG07-	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201 31571203 52N53601 52N57050 52N57050 52N57040 52N57030 WBM1020 WBM1035 52N53607
25 26 27 28 29 30 31 32 33 34 35 36 36 37 38 39 40 41 42 43 44	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE (BENDED) ORINCE SPRING MASTER CYLINDER TUBE OIL HOSE OIL HOSE UIL HOSE WRENCH BOLT WRENCH BOLT BOTTOM LOCKER BRACKET LOCKER SPACER	2/2 8 2 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 2 1 1 1 1	DU4020 Ø100x41L Ø40x048x5B P40(Ø3.5x040x046) Ø40x045x2.5tx15B G85 PT1/4*EL 35t(34)*96.7*689.5 PT1/4*ST. Ø10*570L  700L 540L 500L M10*25L M10*25L 12t*30*217.5 9**30*217.5	52NG06/G09 52NG24 52NG21/G23 52NG01 52NG01/G03- 52NQ01 52NQ01-4 52NQ01-3 52NG07-	52N53606 DU4020 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201 31571203 52N53601 52N57050 52N57040 52N57040 52N57030 WBM1020 WBM1035 52N53607 52N53615
25 26 27 28 29 30 31 32 33 34 35 36 36 36 37 38 39 40 41 42 43 44 45	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O'RING WEAR RING O'RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE(BENDED) O'RIFICE SPRING MASTER CYLINDER TUBE OIL HOSE OIL HOSE OIL HOSE WRENCH BOLT WRENCH BOLT BOTTOM LOCKER BRACKET LOCKER SPACER SET SCREW	2/2 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	DU4020 Ø100x41L Ø40x048x5B P40(Ø3.5x040x046) Ø40x045x2.5tx15B G85  PT1/4+EL 35t(34)*96.7*689.5 PT1/4+5T. Ø10*570L  700L 540L 500L M10*35L 12**30*217.5 91*30*2123.8 M8*8L	52NG06/G09 52NG24 52NG21/G23 52NG01- 52NG01- 52NQ01- 52NQ01-3 - 52NQ01-3 - 52NG07- 52NG07-	52N53606 DU4020 DU4020 S2N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N5700 S2F71201 31571203 52N53601 52N57040 52N57030 WBM1020 WBM1020 WBM1020 WBM1035 52N536015 S2N53607 S2N57030 WBM1035 S2N53607
25 26 27 28 29 30 31 32 33 34 35 36 36 37 38 39 40 41 42 43 44 45 46	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE (BENDED) ORINCE SPRING MASTER CYLINDER TUBE OIL HOSE OIL HOSE OIL HOSE UNENCH BOLT WRENCH BOLT BOTTOM LOCKER BRACKET LOCKER SPACER SET SCREW STEEL BALL	2/2 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	DU4020  Ø100x41L  Ø40x048x5B  PA0(Ø3 5x040x046)  Ø40x045x2.5tx15B  G85  PT1/4*EL  35(34)*96.7*689.5  PT1/4*ST.  Ø10*570L  700L  540L  500L  M10*20L  M10*35L  12t*30*217.5  9t*30*123.8  M8*8L  3/16*	52NG06/G09 52NG24 52NG21/G23 52NG01 52NG01/G03- 52NQ01-4 52NQ01-3 52NG07- 52NG07- 52NG15	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 31571203 52N53601 52N57040 52N57030 WBM1020 WBM1035 52N53617 52N53617 52N53617 52N53617 52N53617
25 26 27 28 29 30 31 32 33 34 35 36 36 37 38 39 40 41 42 43 44 44 45 46 47	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE (BENDED) ORINCE SPRING MASTER CYLINDER TUBE OIL HOSE OIL HOSE OIL HOSE WRENCH BOLT WRENCH BOLT BOTTOM LOCKER BRACKET LOCKER SPACER SET SCREW STEEL BALL MALE CONNECTOR	2/2 8 2 2 2 2 2 2 2 4 4 2 2 2 2 2 2 2 2 2	DU4020 Ø100x41L Ø40x048x5B PA0(Ø3.5x040x046) Ø40x045x2.5tx15B G85 PT1/4*EL 35t(34)*96.7*689.5 PT1/4*ST. Ø10*570L  700L 540L 500L M10*20L M10*20L M10*20L M10*35L 12t*30*217.5 9t*30*123.8 M8*8L 3/16" PT1/4*ST.	52NG06/G09 52NG24 52NG21/G23 52NG01 52NG01/G03- 52NQ01-5 52NQ01-3 52NG07- 52NG07	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201 31571203 52N53601 52N57050 52N57050 WBM1020 WBM1020 WBM1035 52N53607 52N53607 52N53615 MVBM0808W BALL-3/16" BMC10-1/4
25 26 27 28 29 30 31 32 33 34 35 36 36 36 37 38 39 40 41 42 43 44 44 45 46 47 48	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE (BENDED) ORINCE SPRING MASTER CYLINDER TUBE OIL HOSE OIL HOSE OIL HOSE WRENCH BOLT WRENCH BOLT URENCH SPACER SET SCREW STEEL BALL MALE CONNECTOR	2/2 8 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 2 2 2	DU4020  Ø100x41L  Ø40xØ48x58  P40(Ø3.5xØ40xØ46)  Ø40xØ45x2.5tx15B  G85  PT1/4*EL  35t(34)*96.7*689.5  PT1/4*ST.  Ø10*570L  700L  540L  500L  M10*20L  M10*25L  M10*25L  M10*35L  12t*30*217.5  9t*30*123.8  M8*8L  3/16*  PT1/4*ST.  G95	52NG06/G09 52NG24 52NG21/G23 52NG01 52NG01/G03- 52NQ01 52NQ01-3 52NQ01-3	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201 31571203 52N57050 52N57040 52N57030 WBM1020 WBM1035 52N53607 52N53615 MWBM0808W BALL-3/16* BMC10-1/4 ORG95
25 26 27 28 29 30 31 32 33 34 35 36 36 36 37 38 39 40 41 42 43 44 45 46 47 48 49	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE (BENDED) ORINGE SPRING MASTER CYLINDER TUBE OIL HOSE OIL HOSE OIL HOSE UNENCH BOLT WENCH BOLT BOTTOM LOCKER BRACKET LOCKER SPACER SET SCREW STEEL BALL MALE CONNECTOR	2/2 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	DU4020  Ø100x41L  Ø40x048x5B  P40(Ø3 5x040x046)  Ø40x045x2.5tx15B  G85  PT1/4*EL  35(34)*96.7*689.5  PT1/4*ST.  Ø10*570L  700L  540L  500L  M10*20L  M10*35L  12*30*217.5  9*30*123.8  M8*8L  3/16"  PT1/4*ST.  G95  Ø43*048*15B	52NG06/G09 52NG24 52NG21/G23 52NG01 52NG01/G03- 52NQ01 52NQ01-3 52NQ01-3	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 OR685 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201 31571203 52N57600 52N57050 52N57050 52N57050 52N57050 52N57050 52N57040 52N57050 52N53615
25 26 27 28 30 31 32 33 34 35 36 36 36 37 37 38 39 40 41 42 43 44 45 46 47 48 48 49 50	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE (BENDED) ORINCE SPRING MASTER CYLINDER TUBE OIL HOSE OIL HOSE OIL HOSE WRENCH BOLT WRENCH BOLT BOTTOM LOCKER BRACKET LOCKER SPACER SET SCREW STEEL BALL MALE CONNECTOR O'RING WEAR RING ROD SEAL	2/2 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	DU4020  0100x41L  040x048x5B  PA0(03.5x040x046)  040x045x2.5tx15B  G85  PT1/4*EL  351(34)*96.7*689.5  PT1/4*ST.  010*570L  700L  540L  500L  M10*20L  M10*20L  M10*20L  M10*20L  M10*20L  M10*20L  M10*35L  12*30*217.5  9*30*123.8  M8*8L  3/16"  PT1/4*ST.  G95  043*048*15B  043*053*6B	52NG06/G09 52NG24 52NG21/G23 52NG01 52NG01/G03- 52NQ01 52NQ01-3 52NQ01-3	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201 31571203 52N57050 52N57050 52N57040 52N57040 52N57050 52N57050 52N57050 52N57050 52N57050 52N57040 58N57050 52N57050 58N57050
25 26 27 28 29 30 31 32 33 34 35 36 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 50 50 50 50 50 50 50 50 50	MAST ROD BAR DU BUSH SLAVE HEAD COVER DUST SEAL O-RING WEAR RING O-RING SLAVE CYLINDER TUBE STEEL NIPPLE-EL BOTTOM LOCKER MALE CONNECTOR STEEL PIPE (BENDED) ORINCE SPRING MASTER CYLINDER TUBE OIL HOSE OIL HOSE UIL HOSE WRENCH BOLT WRENCH BOLT WRENCH BOLT WRENCH BOLT WRENCH BOLT BOTTOM LOCKER BRACKET LOCKER SPACER SET SCREW STEEL BALL MALE CONNECTOR O-RING WEAR RING ROD SEAL BACK UP RING	2/2 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	DU4020	52NG06/G09 52NG24 52NG21/G23 52NG01 52NG01/G03- 52NQ01 52NQ01-3 52NQ01-3	52N53606 DU4020 52N53624 DH54048065 ORP40 WEAR404515 ORG85 52N53621 HMCM-1/4-1/2WE 52N53608 BMC10-1/4 52N57100 52F71201 31571203 52N57050 52N57040 52N57050 WBM1020 WBM1035 52N53607 52N53615 MWBM0808W BALL-3/16" BMC10-1/4 ORG95 WEAR434815 ROD43536 ORP435303

53 54

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DU BUSH

DU BUSH

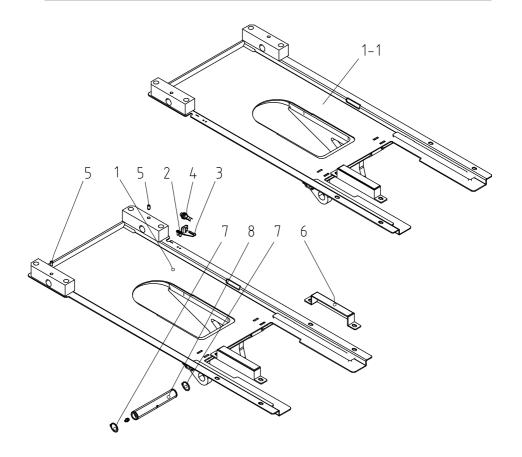
FDU4012, FDU4020

FDU4012

DU4012F

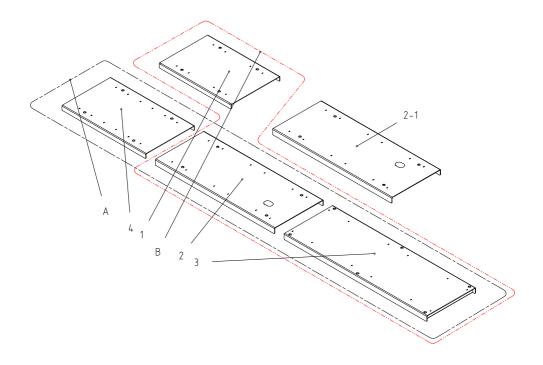
DU4012F / DU4020F

#### Jack Base

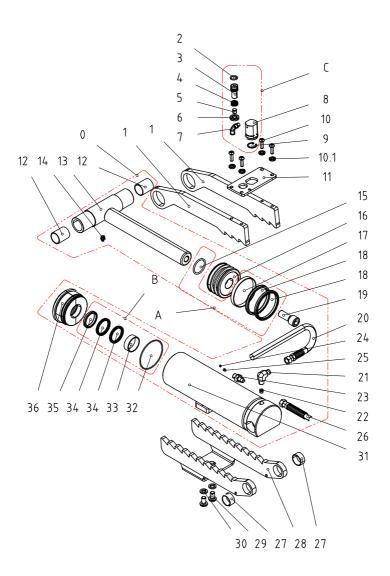


번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	AUX. LIFT BASEMENT BODY	2		V34/37-	52N55130
1-1	AUX. LIFT BASEMENT BODY	2		V34/37-	52N55230
2	ROUND HEAD SCREW	2	M5*13L		TRTBM0513
3	APPROACH SENSOR BRACKET	1	2.3t*29*25*40	52NV38-	52N55138
4	APPROACH SENSOR	1	PR12-4DN	52NV39-	52N54090
5	SET SCREW	4	M8*15L		MWBM0815
6	ROLLER GUIDER	4	3.2t*30*40*242	52NV41-	52F08055
7	SNAP RING	4	CS30		SN-CS30
8	CYLINDER BOTTOM PIN	2	Ø30*190.4L	52NV40-	52N55140

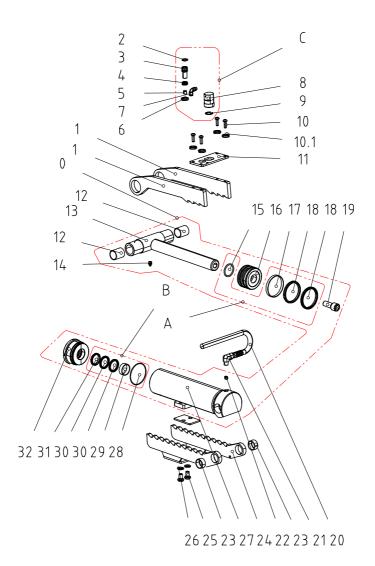
## Plain type



번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	PLATE TYPE FRONT COVER(4800)	2	4800 LENGTH ONLY	52NB75A	52N53175
2	PLATE TYPE MIDDLE COVER(L)	1		52NB80A	52N53180
2-1	PLATE TYPE MIDDLE COVER(R)	1		52NB80A	52N53180
3	PLATE TYPE REAR COVER	2		52NB85A	52N53185
4	PLATE TYPE FRONT COVER(5200)	2	5200 LENGTH ONLY	52NB95A	52N53195
Α	MAIN LIFT PLATE TYPE GROUP 1 (5200)	1SET	5200 LENGTH ONLY	-	52N52000-01
В	MAIN LIFT PLATE TYPE GROUP 2 (4800)	1SET	4800 LENGTH ONLY	-	52N52000-02

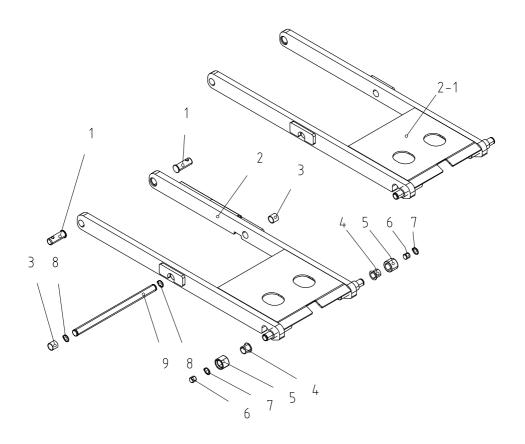


변호 불병(영원) 수량 규격 도변 볼벤 NO. PART NAME QTTY SPECIFICATION DWG.NO. ITEM NO. A AUX. LIFT master piston kit 1set - 52N/59410  A AUX. LIFT master piston kit 1set - 52N/59420  C JACK AIR CYLINDER ASSY 1set SZNUOSA SZNS5200  O JACK MASTER CYLINDER ASSY 1set SZNUOSA SZNS5500  1 AUX. LIFT UPPER LOCKER 4 14+87.6+374.2 SZNV92C SZNS55192  2 O-RING 2 P16(02.4x016x020) - OPR16  3 PISTON 2 020-40L SZNUO3A SZNS5003  4 SPRING 2 018.4x016x36Lx5C 31SUOSC 30N93150  5 ROD GUIDER 2 011.4x016x36Lx5C 31SUOSC 30N93150  5 ROD GUIDER 2 011.4x016x36Lx5C 31SUOSC 30N93150  6 HEAD COVER 2 025-5L SZNUOSB SZNS5005  7 ONE TOUCH AIR NIPPLE-EL 2 M5+90*-406 - ECOSOGE  8 AIR CYLINDER TUBE 2 035-47L 52NUO2D 52N55005  9 SNAP RING 2 CRZ5 - SN-CRZ5  10 ROUND HEAD WRENCH BOLT 8 M8*-0L - WRBM0820  10.1 SPRING WASHER 4 M8 - WSM082  10.1 SPRING WASHER 4 M8 - WSM082  11 JACK LOCKER CONNECTOR 2 6(+65*133 52NV908 52NS5190  12 DU BUSH 4 DU3040 - DU3040  13 ROD BAR WELDING GROUP-R 1 041*309L 52NWS0A 52NS5185  14 GREASE NIPPLE-ST. 2 PT1/8*ST GN-1/8S  15 O-RING 1 P41 - ORPH1  16 MASTER RISTON 1 085*-090-10B - WEARRS9010  18 PISTON SEAL 2 075*-090+9B - UHP75909  19 WRENCH BOLT 1 M8*-BL. 52NV01B 52NS5185  20 CIL HOSE 1 4480L 52NS5182  20 CIL HOSE 1 4480L 52NS5182  21 DU BUSH - WSM088808W 1 M8*-BL. 52NS01B 52NS5190  22 DU BUSH - WSMROM 1 P41-12-20UNF - HMCM-1/4-1/2WE  23 STEEL NIPPLE-ST. 2 PT1/8*EL - WBM1840  24 STEEL BAIL 1 M8*-BL WBM1840  25 NVSBM088W 1 M8*-BL HMCM-1/4-1/2WE  25 ORIFICE 2 9x98L 52NS7070  27 DU BUSH - WSMNBOWN 1 M8*-BL WRBM0808W  26 OIL HOSE 1 4480L - WRBM1820  27 DU BUSH - WSMROM 1 M8*-BL WRBM1820  28 SOTTOM LOCKER FOR AUX LIFT 2 SET - SUNSTEAD  29 ROUND HEAD WRENCH BOLT 4 M12x20L - WRBM1820  20 CHROSE 1 4480L - WRBM1820  21 STEEL NIPPLE-ST. 2 PT1/8*EL - 1/2-20UNF - HMCM-1/4-1/2WE  23 STEEL NIPPLE-ST. 2 PT1/8*EL - 1/2-20UNF - HMCM-1/4-1/2WE  24 STEEL BAIL 1 M8*-BL WSM8088W  26 OIL HOSE 1 4480L - WRBM1820  27 DU BUSH - WSMROM 1 1 041*-046*15B - WSM81120  38 WASTER HEAD COVER 1 1 010*-0466L 5 S2NV83A 5 S2NS5183						
A AUX_LIFT master piston kit 1set	번호	품명(영문)	수량			품번
B AUX_LIFT rod cover kit 1set	NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
C         JACK AIR CYLINDER2 ASSY'         1set         52NU00A         52N55200           0         JACK MASTER CYLINDER ASSY         1set         52NV80A         52N55500           1         AUX LIFT UPPER LOCKER         4         141*87.6*374.2         52NV92C         52N55192           2         O-RING         2         P16(Ø2.4xØ16xØ20)         - OPR16           3         PISTON         2         Ø20*40L         52NU03A         52N55192           4         SPRING         2         Ø18.4xØ16x36Lx5C         31SU05C         30N93150           5         ROD GUIDER         2         Ø11x10L         42FU07A         42FU4759           6         HEAD COVER         2         Ø25*5L         52NU05B         52N55005           7         ONE TOUCH AIR NIPPLE-EL         2         Ø3*47L         52NU02D         52N55002           8         AIR CYLINDER TUBE         2         Ø3*47L         52NU02D         52N55002           9         SNAP RING         2         CR25         -         SN-CR25           10         ROUND HEAD WRENCH BOLT         8         M8*20L         -         WSM088           11         JACK LOCKER CONNECTOR         2         61*65*133	Α	AUX. LIFT master piston kit	1set		-	52N59410
0         JACK MASTER CYLINDER ASSY         1set         52NV80A         52NS8550           1         AUX LIFT UPPER LOCKER         4         14*87.6*374.2         52NV92C         52N55192           2         O-RING         2         P16(02.4x016x020)         -         OPR16           3         PISTON         2         Ø20*40L         52NU03A         52N55003           4         SPRING         2         Ø18*AX016x36LxSC         31SU05C         30N93150           5         ROD GUIDER         2         Ø11*ILOL         42FU07A         42F04759           6         HEAD COVER         2         Ø25*5L         52NU05B         52N55005           7         ONE TOUCH AIR NIPPLE-EL         2         Ø25*47L         52NU02D         52N55005           8         AIR CYLINDER TUBE         2         Ø35*47L         52NU02D         52N55002           9         SNAP RING         2         CR25         -         SN-CR25           10         ROUNDH HEAD WRENCH BOLT         8         M8*20L         -         WRBM0820           10.1         SPRING WASHER         4         M8         -         WSM08           11.         JACK LOCKER CONNECTOR         2	В	AUX. LIFT rod cover kit	1set		-	52N59420
1 AUX_LIFT UPPER LOCKER	C	JACK AIR CYLINDER2 ASSY'	1set		52NU00A	52N55200
2 ORING 2 P16(@2.4xØ16xØ20) - OPR16 3 PISTON 2 Ø20+40L 5ZNU03A 5ZNS5003 4 SPRING 2 Ø18.4xØ16x36LxSC 31SU05C 30N93150 5 ROD GUIDER 2 Ø11x10L 4ZPL07A 4ZF04759 6 HEAD COVER 2 Ø25+5L 5ZNU05B 5ZNS5005 7 ONE TOUCH AIR NIPPLE-EL 2 M5+90*+Ø6 - EC0506E 8 AIR CYLINDER TUBE 2 Ø35+47L 5ZNU02D 5ZNS5002 9 SNAP RING 2 CR25 - SN-CR25 10 ROUND HEAD WRENCH BOLT 8 M8+Z0L - WRBM0820 10.1 SPRING WASHER 4 M8 - WSM08 11 JACK LOCKER CONNECTOR 2 6*+65*133 5ZNV90B 5ZNS5190 12 DU BUSH 4 DU3040 - DU3040 13 ROD BAR WELDING GROUPR 1 Ø41*-309L 5ZNV85A 5ZNS5185 14 GREASE NIPPLE-ST. 2 PT1/8*ST GN-1/8S 15 O-RING 1 P41 - ORP41 16 MASTER PISTON 1 Ø90*44L 5ZNV81A 5ZNS5181 17 WEAR RING 1 Ø90*44L 5ZNV81A 5ZNS5181 18 PISTON SEAL 2 Ø75*-Ø90*-9B - UHP75909 19 WRENCH BOLT 1 M18*-40L - WBM1840 20 OIL HOSE 1 4430L 5ZNQ01B 5ZNV502 21 STEEL NIPPLE-EL 1 PT1/4*-EL*-1/2-ZOUNF - HMCM-1/4-1/2WE 22 ORIFICE 2 9x9x8L 5ZNV90B 5ZNV500 23 STEEL NIPPLE-ST. 2 PT1/4*-EL*-1/2-ZOUNF - HMCM-1/4-1/2WE 24 STEEL BALL 1 1 3/16* - BALL-3/16* 25 SET SCREW 1 M8*-8L - MWBM080W 26 OIL HOSE 1 4800L 5ZNV90B 5ZNV50B 5ZNV50D 27 DU BUSH 4 DU 3012 - WRBM308W 26 OIL HOSE 1 4800L 5ZNV90B 5ZNV90B 5ZNV50D 27 DU BUSH 4 DU 3012 - WRBM3080W 28 DUTING 1 P41 - BALL-3/16* - BALL-	0	JACK MASTER CYLINDER ASSY	1set		52NV80A	52N58550
PISTON   2   Ø22*40L   52NU03A   52N55003	1	AUX. LIFT UPPER LOCKER	4	14t*87.6*374.2	52NV92C	52N55192
4 SPRING 2 Ø18.4xØ16x36Lx5C 31SU05C 30N93150 5 ROD GUIDER 2 Ø11x10L 42FU07A 42FU07A 6 HEAD COVER 2 Ø25*5L 52NU0SB 52N55005 7 ONE TOUCH AIR NIPPLE-EL 2 M5*90*Ø6 - EC0506E 8 AIR CYLINDER TUBE 2 Ø35*47L 52NU02D 52N55002 9 SNAP RING 2 CR25 - SN-CR25 10 ROUND HEAD WRENCH BOLT 8 M8*20L - WRBM0820 10.1 SPRING WASHER 4 M8 - WSM08 111 JACK LOCKER CONNECTOR 2 6t+65*133 52NV90B 52N55190 12 DU BUSH 4 DU3040 - DU3040 13 ROD BAR WELDING GROUP-R 1 Ø41*309L 52NV85A 52N55185 14 GREASE NIPPLE-ST. 2 PT1/8*ST GN-1/8S 15 O-RING 1 P41 - ORP41 16 MASTER PISTON 1 Ø90*44L 52NV81A 52N55181 17 WEAR RING 1 Ø85*Ø90*10B - WEAR859010 18 PISTON SEAL 2 Ø75*Ø90*9B - UHP75909 19 WRENCH BOLT 1 M18*40L - WBM1840 20 OIL HOSE 1 4430L 52NS7020 21 STEEL NIPPLE-EL 1 PT1/4*EL*1/2-20UNF - HMCM-1/4-1/2WE 22 ORIFICE 2 9x9x8L 52FV96C 52F09750 23 STEEL NIPPLE-ST. 2 PT1/4*1/2*20UNF - BALL-3/16* 24 STEEL BALL 1 3/16* - BALL-3/16* 25 SET SCREW 1 M8*8L - MW8M1220 20 OIL HOSE 1 4800L 52NQ01B 52NS7020 21 STEEL BALL 1 3/16* - BALL-3/16* 25 SET SCREW 1 M8*8L - MW8M0808W 26 OIL HOSE 1 4800L 52NQ01B 52NS7070 27 DU BUSH 4 DU3012 - DU3012 28 BOTTOM LOCKER for AUX, LIFT 2SET 52NV89B 52NS5280 30 SPRING WASHER 4 M12 31 JACK MASTER CYLINDER TUBE 1 Ø100*Ø90*315L 52NV82A 52NS5182 32 O-RING 1 M4*2051*5B - DH5435105	2	O-RING	2	P16(Ø2.4xØ16xØ20)	-	OPR16
STOP	3	PISTON	2	Ø20*40L	52NU03A	52N55003
6 HEAD COVER 7 ONE TOUCH AIR NIPPLE-EL 2 M5×901×06 - EC0506E 8 AIR CYLINDER TUBE 2 Ø35×47L 52NU02D 52N55002 9 SNAP RING 2 CR25 - SN-CR25 10 ROUND HEAD WRENCH BOLT 8 M8×20L - WRBM0820 10.1 SPRING WASHER 4 M8 - WSM08 11 JACK LOCKER CONNECTOR 2 61×65×133 52NV90B 52N55190 12 DU BUSH 4 DU3040 - DU3040 13 ROD BAR WELDING GROUP-R 1 Ø41×309L 52NV85A 52N55185 14 GREASE NIPPLE-ST. 2 PT1/8×ST GN-1/85 15 O-RING 1 P41 - ORP41 16 MASTER PISTON 1 Ø90×44L 52NV81A 52NS5181 17 WEAR RING 1 Ø85ר90×10B - WEAR859010 18 PISTON SEAL 2 Ø75ר90×9B - UHP75909 19 WRENCH BOLT 1 M18×40L - WBM1840 20 OIL HOSE 1 4430L 52NQ01B 52NS7020 21 STEEL NIPPLE-EL 1 PT1/4×EL×1/2-20UNF - HMCM-1/4-1/2WE 22 ORIFICE 2 9x9x8L 52PV96C 52F09750 24 STEEL NIPPLE-ST. 2 PT1/4×1/2-20UNF - HMCM-1/4-10SU 24 STEEL BALL 1 3/16" - BALL-3/16" 25 SET SCREW 1 M8×8L - MWSM0808W 26 OIL HOSE 1 4800L 52NQ01B 52N57020 27 DU BUSH 4 DU 3012 - DU3012 28 BOTTOM LOCKER for AUX. LIFT 2SET 52NV89B 52NS5280 30 SPRING MSSHER 4 M12 - WSM12 31 JACK MASTER CYLINDER TUBE 1 Ø10ר90×315L 52NV82A 52NS5182 32 O-RING 1 G85 33 WEAR RING 1 G85 35 DUST SEAL 9 G14ר51×5B - DH5435105	4	SPRING	2	Ø18.4xØ16x36Lx5C	31SU05C	30N93150
7 ONE TOUCH AIR NIPPLE-EL 2 M5+90°+∅6 - EC0506E 8 AIR CYLINDER TUBE 2 Ø35+47L 52NU02D 52N55002 9 SNAP RING 2 CR25 - SN-CR25 10 ROUND HEAD WRENCH BOLT 8 M8+20L - WRBM0820 10.1 SPRING WASHER 4 M8 - WSM08 11 JACK LOCKER CONNECTOR 2 6t+65+133 52NV90B 52N55190 12 DU BUSH 4 DU3040 - DU3040 13 ROD BAR WELDING GROUP-R 1 Ø41+309L 52NV85A 52N55185 14 GREASE NIPPLE-ST. 2 PT1/8+ST GN-1/8S 15 O-RING 1 P41 - ORP41 16 MASTER PISTON 1 Ø90*44L 52NV81A 52N55181 17 WEAR RING 1 Ø85+Ø90*10B - WEAR859010 18 PISTON SEAL 2 Ø75*Ø90*9B - UHP75909 19 WRENCH BOLT 1 M18*40L - WBM1840 20 OIL HOSE 1 4430L 52NQ01B 52NS7020 21 STEEL NIPPLE-EL 1 PT1/4*EL*1/2-20UNF - HMCM-1/4-1/2WE 22 ORIFICE 2 9x9x8L 52FV96C 52F09750 23 STEEL NIPPLE-ST. 2 PT1/4*1/2-20UNF - HMCM-1/4-05U 24 STEEL BALL 1 3/16° - BALL-3/16° - DU3012 28 BOTTOM LOCKER for AUX. LIFT 2SET 52NV82A 52NS5182 30 OFRING 1 GRSS 31 WEAR RING 1 GRSS 32 WEAR RING 1 GRSS 33 WEAR RING 1 GRSS 34 ROD SEAL 2 Ø41*Ø51*6B - ROD41516 35 DUST SEAL 1 Ø43ר51*5B - DHS455105	5	ROD GUIDER	2	Ø11x10L	42FU07A	42F04759
8         AIR CYLINDER TUBE         2         Ø35*47L         52NU02D         52N55002           9         SNAP RING         2         CR25         -         SN-CR25           10         ROUND HEAD WRENCH BOLT         8         M8*20L         -         WRBM0820           10.1         SPRING WASHER         4         M8         -         WSM08           11         JACK LOCKER CONNECTOR         2         6t*65*133         52NV90B         52N55190           12         DU BUSH         4         DU3040         -         DU3040           13         ROD BAR WELDING GROUP-R         1         Ø41*309L         52NV85A         52N55185           14         GREASE NIPPLE-ST.         2         PT1/8*ST.         -         GN-1/8S           15         O-RING         1         P41         -         ORP41           16         MASTER PISTON         1         Ø90*44L         52NV81A         52NS5181           17         WEAR RING         1         Ø85*Ø90*10B         -         UHP75909           19         WRENCH BOLT         1         M18*40L         -         WBM1840           20         OIL HOSE         1         4430L         52NQ01B	6	HEAD COVER	_	Ø25*5L	52NU05B	52N55005
9 SNAP RING 2 CR25 - SN-CR25 10 ROUND HEAD WRENCH BOLT 8 M8*20L - WRBM0820 10.1 SPRING WASHER 4 M8 - WSM08 11 JACK LOCKER CONNECTOR 2 6**65**133 52NV908 52NS5190 12 DU BUSH 4 DU3040 - DU3040 13 ROD BAR WELDING GROUP-R 1 Ø41*309L 52NV85A 52NS5185 14 GREASE NIPPLE-ST. 2 P71/8*ST GN-1/8S 15 O-RING 1 P41 - ORP41 16 MASTER PISTON 1 Ø90*44L 52NV81A 52NS5181 17 WEAR RING 1 Ø85*Ø90*10B - WEARBS9010 18 PISTON SEAL 2 Ø75*Ø90*9B - UHP75909 19 WRENCH BOLT 1 M18*40L - WBM1840 20 OIL HOSE 1 4430L 52NQ01B 52N57020 21 STEEL NIPPLE-EL 1 P71/4*EL*1/2-20UNF - HMCM-1/4-1/2WE 22 ORIFICE 2 9x9x8L 52FV96C 52F09750 24 STEEL NIPPLE-ST. 2 P71/4*1/2-20UNF - BALL-3/16* 25 SET SCREW 1 M8*8L - MWBM0808W 26 OIL HOSE 1 4800L 52NQ01B 52N57070 27 DU BUSH 4 DU3012 - DU3012 28 BOTTOM LOCKER for AUX. LIFT 2SET 52NV89B 52NS5280 29 ROUND HEAD WRENCH BOLT 4 M12x20L - WRSM12 31 JACK MASTER CYLINDER TUBE 1 Ø10*Ø90*315L 52NV82A 52NS5182 33 WEAR RING 1 G85 34 ROD SEAL 2 Ø41*Ø51*5B - ORG85 33 WEAR RING 1 G85	7	ONE TOUCH AIR NIPPLE-EL	2	M5*90°*Ø6	-	EC0506E
10   ROUND HEAD WRENCH BOLT   8   M8*20L   - WRBM0820   10.1   SPRING WASHER   4   M8   - WSM08   11   JACK LOCKER CONNECTOR   2   6t*65*133   52NV90B   52N55190   12   DU BUSH   4   DU3040   - DU3040   - DU3040   13   ROD BAR WELDING GROUP*R   1   Ø41*309L   52NV85A   52N55185   14   GREASE NIPPLE*ST.   2   PT1/8*ST.   - GN*1/85   15   O-RING   1   P41   - ORP41   - ORP41   16   MASTER PISTON   1   Ø90*44L   52NV81A   52NS5181   17   WEAR RING   1   Ø85*Ø90*9B   - UHP75909   18   PISTON SEAL   2   Ø75*Ø90*9B   - UHP75909   19   WRENCH BOLT   1   M18*40L   - WBM1840   20   OIL HOSE   1   4430L   52NQ01B   52N57020   21   STEEL NIPPLE*EL   1   PT1/4*EL*1/2-20UNF   - HMCM-1/4-1/2WE   22   ORIFICE   2   9x9x8L   52FV96C   52F09750   23   STEEL NIPPLE*ST.   2   PT1/4*1/2-20UNF   - HMCM-1/4-0SU   24   STEEL BALL   1   3/16"   - BALL-3/16"   3/16"   - DU3012   2/20   DU BUSH   4   DU 3012   - DU3012   2/20   ROUND HEAD WRENCH BOLT   4   M12x20L   - WRSM1220   3/20   SPRING WASHER   4   M12   - WSM12   3/20   SPRING WASHER   4   M12   -	8	AIR CYLINDER TUBE	2	Ø35*47L	52NU02D	52N55002
10.1   SPRING WASHER	9	SNAP RING	2	CR25	-	SN-CR25
11	10	ROUND HEAD WRENCH BOLT	8	M8*20L	-	WRBM0820
12   DU BUSH   4   DU3040   -   DU3040       13   ROD BAR WELDING GROUP-R   1   Ø41×309L   52NV85A   52NS5185     14   GREASE NIPPLE-ST.   2   PT1/8×ST.   -   GR-1/8S       15   O-RING   1   P41   -   ORP41       16   MASTER PISTON   1   Ø90×44L   52NV81A   52NS5181     17   WEAR RING   1   Ø85ר90×10B   -   WEARRS9010       18   PISTON SEAL   2   Ø75ר90×9B   -   UHP75909       19   WRENCH BOLT   1   M18×40L   -   WBM1840       20   OIL HOSE   1   4430L   52NQ01B   52N57020       21   STEEL NIPPLE-EL   1   PT1/4×EL*1/2-20UNF   -   HMCM*1/4*1/2WE       22   ORIFICE   2   9x9x8L   52FV96C   52F09750       23   STEEL NIPPLE-ST.   2   PT1/4*1/2-20UNF   -   HMCM*1/4*05U       24   STEEL BALL   1   3/16"   -   BALL*3/16"       25   SET SCREW   1   M8*8L   -   MW9M0808W       26   OIL HOSE   1   4800L   52NQ01B   52N57070       27   DU BUSH   4   DU 3012   -   DU3012       28   BOTTOM LOCKER for AUX. LIFT   2SET   52NV89B   52N55280       29   ROUND HEAD WRENCH BOLT   4   M12x20L   -   WRBM1220       30   SPRING WASHER   4   M12   -   WSM12       31   JACK MASTER CYLINDER TUBE   1   Ø100*Ø90*315L   52NV82A   52NS5182       32   O-RING   1   G85   -   ORG85       33   WEAR RING   1   Ø41*Ø46*15B   -   ROD41516       35   DUST SEAL   1   Ø43*Ø51*5B   -   DHS435105	10.1	SPRING WASHER		M8	-	WSM08
13   ROD BAR WELDING GROUP-R   1   Ø41*309L   52NV85A   52N55185     14   GREASE NIPPLE-ST.   2   PT1/8*ST.   -   GN-1/8S     15   O-RING   1   P41   -   ORP41     16   MASTER PISTON   1   Ø90*44L   52NV81A   52N55181     17   WEAR RING   1   Ø85*Ø90*10B   -   WEAR859010     18   PISTON SEAL   2   Ø75*Ø90*9B   -   UHP75909     19   WRENCH BOLT   1   M18*40L   -   WBM1840     20   OIL HOSE   1   4430L   52NQ01B   52N57020     21   STEEL NIPPLE-EL   1   PT1/4*EL*1/2-20UNF   -   HMCM-1/4*1/2WE     22   ORIFICE   2   9x9x8L   52FV96C   52F09750     23   STEEL NIPPLE-ST.   2   PT1/4*1/2-20UNF   -   HMCM-1/4-05U     24   STEEL BALL   1   3/16"   -   BALL-3/16"     25   SET SCREW   1   M8*8L   -   MW9M0808W     26   OIL HOSE   1   4800L   52NQ01B   52NS7070     27   DU BUSH   4   DU 3012   -   DU3012     28   BOTTOM LOCKER FOR AUX. LIFT   2SET   52NV89B   52NS5280     29   ROUND HEAD WRENCH BOLT   4   M12x20L   -   WR8M1220     30   SPRING WASHER   4   M12   -     WR8M1220     31   JACK MASTER CYLINDER TUBE   1   Ø100*Ø90*315L   52NV82A   52N55182     32   O-RING   1   G85   -   ORG85     33   WEAR RING   1   Ø41*Ø46*15B   -   WEAR414615     35   DUST SEAL   1   Ø43*Ø51*5B   -   DHS435105	11	JACK LOCKER CONNECTOR	2	6t*65*133	52NV90B	52N55190
14   GREASE NIPPLE-ST.   2   PT1/8*ST.   -   GN-1/8S     15   O-RING   1   P41   -   ORP41     16   MASTER PISTON   1   Ø90*44L   52NV81A   52N55181     17   WEAR RING   1   Ø85*Ø90*10B   -   WEAR859010     18   PISTON SEAL   2   Ø75*Ø90*9B   -   UHP75909     19   WRENCH BOLT   1   M18*40L   -   WBM1840     20   OIL HOSE   1   4430L   52NQ01B   52N57020     21   STEEL NIPPLE-EL   1   PT1/4*EL*1/2-20UNF   -   HMCM-1/4-1/2WE     22   ORIFICE   2   9x9x8L   52FV96C   52F09750     23   STEEL NIPPLE-ST.   2   PT1/4*1/2-20UNF   -   HMCM-1/4-05U     24   STEEL BALL   1   3/16"   -   BALL-3/16"     25   SET SCREW   1   M8*8L   -   MWBM0808W     26   OIL HOSE   1   4800L   52NQ01B   52N57070     27   DU BUSH   4   DU 3012   -   DU3012     28   BOTTOM LOCKER FOR AUX. LIFT   2SET     52NV89B   52N55280     29   ROUND HEAD WRENCH BOLT   4   M12x20L   -   WRBM1220     30   SPRING WASHER   4   M12   -     WSM12     31   JACK MASTER CYLINDER TUBE   1   Ø100*Ø90*315L   52NV82A   52N55182     32   O-RING   1   G85   -   ORG85     33   WEAR RING   1   Ø41*Ø46*15B   -   WEAR414615     35   DUST SEAL   1   Ø43*Ø51*5B   -   DHS435105	12	DU BUSH	4	DU3040	-	DU3040
15 O-RING 1 P41 - ORP41 16 MASTER PISTON 1 Ø90*44L 52NV81A 52NS5181 17 WEAR RING 1 Ø85*Ø90*10B - WEARS5010 18 PISTON SEAL 2 Ø75*Ø90*9B - UHP75909 19 WRENCH BOLT 1 M18*40L - WBM1840 20 OIL HOSE 1 4430L 52NQ01B 52N57020 21 STEEL NIPPLE*EL 1 P71/4*EL*1/2·20UNF - HIMCM*1/4·1/2WE 22 ORIFICE 2 9×9×8L 52FV96C 52F09750 23 STEEL NIPPLE*ST. 2 P71/4*1/2·20UNF - HIMCM*1/4·05U 24 STEEL BALL 1 3/16* - BALL*3/16* 25 SET SCREW 1 M8*8L - MWBM0808W 26 OIL HOSE 1 4800L 52NQ01B 52N57070 27 DU BUSH 4 DU 3012 - DU3012 28 BOTTOM LOCKER for AUX. LIFT 2SET 52NV89B 52N55280 29 ROUND HEAD WRENCH BOLT 4 M12×20L - WRBM1220 30 SPRING WASHER 4 M12 - WSM12 31 JACK MASTER CYLINDER TUBE 1 Ø100*Ø90*315L 52NV82A 52N55182 32 O-RING 1 G85 - ORG85 33 WEAR RING 1 Ø41*Ø46*15B - WEAR11616 35 DUST SEAL 1 Ø43*Ø51*5B - DHS455105	13	ROD BAR WELDING GROUP-R	1	Ø41*309L	52NV85A	52N55185
16         MASTER PISTON         1         Ø90*44L         52NV81A         52NV81A         52N55181           17         WEAR RING         1         Ø85*Ø90*10B         -         WEAR859010           18         PISTON SEAL         2         Ø75*Ø90*9B         -         UHP75909           19         WRENCH BOLT         1         M18*40L         -         WBM1840           20         OIL HOSE         1         4430L         -         WBM1840           20         OIL HOSE         1         4430L         -         WBM1840           20         OIL HOSE         1         4430L         -         HMCM*1/4*1/2*VWE           21         STEEL NIPPLE-FL         1         PT1/4*EL*1/2*20UNF         -         HMCM*1/4*1/2*VWE           22         ORIFICE         2         9x9x8L         52FV96C         52F09750           23         STEEL NIPPLE-ST.         2         PT1/4*1/2*20UNF         -         HMCM*1/4*1/2*VU           24         STEEL BALL         1         3/16*         -         BALL*3/16*           25         SET SCREW         1         M8*8L         -         MWBM80808W           26         OIL HOSE         1         480		GREASE NIPPLE-ST.	2	PT1/8*ST.	-	GN-1/8S
17         WEAR RING         1         Ø85*Ø90*10B         -         WEAR859010           18         PISTON SEAL         2         Ø75*Ø90*9B         -         UHP75909           19         WRENCH BOLT         1         M18*40L         -         WBM1840           20         OIL HOSE         1         4430L         52NQ01B         52N57020           21         STEEL NIPPLE-EL         1         PT1/4*EL*1/2-20UNF         -         HMCM-1/4-1/2WE           22         ORIFICE         2         9x9x8L         52FV96C         52F09750           23         STEEL NIPPLE-ST.         2         PT1/4*T/2-20UNF         -         HMCM-1/4-05U           24         STEEL BALL         1         3/16"         -         BALL-3/16"           25         SET SCREW         1         M8*8L         -         MWBM0808W           26         OIL HOSE         1         4800L         52NQ01B         52N57070           27         DU BUSH         4         DU 3012         -         DU3012           28         BOTTOM LOCKER for AUX. LIFT         2SET         52NV89B         52N55280           29         ROUND HEAD WRENCH BOLT         4         M12x20L <t< td=""><td>15</td><td>O-RING</td><td>1</td><td>P41</td><td>-</td><td>ORP41</td></t<>	15	O-RING	1	P41	-	ORP41
18         PISTON SEAL         2         Ø75*Ø90*9B         -         UIFP75909           19         WRENCH BOLT         1         M18*40L         -         WBM1840           20         OIL HOSE         1         4430L         52NQ01B         52N57020           21         STEEL NIPPLE-EL         1         PT1/4*EL*1/2-20UNF         -         HMCM-1/4-1/2WE           22         ORIFICE         2         9x9x8L         52FV96C         52F09750           23         STEEL NIPPLE-ST.         2         PT1/4*1/2*20UNF         -         HMCM-1/4*05U           24         STEEL BALL         1         3/16*         -         BALL-3/16*           25         SET SCREW         1         M8*8L         -         MWBM0808W           26         OIL HOSE         1         4800L         52NQ01B         52NY5070           27         DU BUSH         4         DU 3012         -         DU3012           28         BOTTOM LOCKER for AUX. LIFT         2SET         52NV89B         52NY55280           29         ROUND HEAD WRENCH BOLT         4         M12x20L         -         WRBM1220           30         SPRING WASHER         4         M12         -<	16	MASTER PISTON	1	Ø90*44L	52NV81A	52N55181
19 WRENCH BOLT 1 M18*40L - WBM1840 20 OIL HOSE 1 4430L 52NQ01B 52N57020 21 STEEL NIPPLE-EL 1 PT1/4*EL*1/2·20UNF - HIMCM-1/4·1/2WE 22 ORIFICE 2 9×9×8L 52FV96C 52F09750 23 STEEL NIPPLE-ST. 2 PT1/4*1/2·20UNF - HIMCM-1/4·0·5U 24 STEEL BALL 1 3/16* - BALL-3/16* 25 SET SCREW 1 M8*8L - MWBM0808W 26 OIL HOSE 1 4800L 52NQ01B 52N57070 27 DU BUSH 4 DU 3012 - DU3012 28 BOTTOM LOCKER for AUX. LIFT 2SET 52NV89B 52N55280 29 ROUND HEAD WRENCH BOLT 4 M12×20L - WRBM1220 30 SPRING WASHER 4 M12 - WSM12 31 JACK MASTER CYLINDER TUBE 1 Ø100*Ø90*315L 52NV82A 52N55182 32 O-RING 1 G85 - ORG85 33 WEAR RING 1 Ø41*Ø46*15B - WEAR1616 35 DUST SEAL 2 Ø41*Ø51*6B - ROD41516	17	WEAR RING	1	Ø85*Ø90*10B	-	WEAR859010
20	18	PISTON SEAL	2	Ø75*Ø90*9B	-	UHP75909
21         STEEL NIPPLE-EL         1         PT1/4*EL*1/2-20UNF         -         HMCM-1/4-1/2WE           22         ORIFICE         2         9x9x8L         52FV96C         52F09750           23         STEEL NIPPLE-ST.         2         PT1/4*1/2-20UNF         -         HMCM-1/4-05U           24         STEEL BAIL         1         3/16"         -         BALL-3/16"           25         SET SCREW         1         M8*8L         -         MWBM0808W           26         OIL HOSE         1         4800L         52NQ01B         52N57070           27         DU BUSH         4         DU 3012         -         DU3012           28         BOTTOM LOCKER for AUX. LIFT         2SET         52NV89B         52N55280           29         ROUND HEAD WRENCH BOLT         4         M12x20L         -         WRBM1220           30         SPRING WASHER         4         M12         -         WSM12           31         JACK MASTER CYLINDER TUBE         1         Ø100*Ø90*315L         52NV82A         52N55182           32         O-RING         1         G85         -         ORG85           33         WEAR RING         1         Ø41*Ø46*15B	19	WRENCH BOLT	1	M18*40L	-	WBM1840
22         ORIFICE         2         9x9x8L         52FV96C         52F09750           23         STEEL BILL         1         3/16"         -         HMCM-1/4-05U           24         STEEL BALL         1         3/16"         -         BALL-3/16"           25         SET SCREW         1         M8*8L         -         MW9M0808W           26         OIL HOSE         1         4800L         52NQ01B         52N7070           27         DU BUSH         4         DU 3012         -         DU3012           28         BOTTOM LOCKER for AUX. LIFT         2SET         52NV89B         52N55280           29         ROUND HEAD WRENCH BOLT         4         M12x20L         -         WRBM1220           30         SPRING WASHER         4         M12         -         WSM12           31         JACK MASTER CYLINDER TUBE         1         Ø100*Ø90*315L         52NV82A         52N55182           32         O-RING         1         G85         -         OR685           33         WEAR RING         1         Ø41*Ø46*15B         -         WEAR414615           34         ROD SEAL         2         Ø41*Ø51*6B         -         ROD DIS4351	20	OIL HOSE	1	4430L	52NQ01B	52N57020
23   STEEL NIPPLE-ST.   2   PT1/4*1/2*20UNF   -   HIMCM*1/4*05U     24   STEEL BALL   1   3/16"   -   BALL-3/16"     25   SET SCREW   1   M8*8L   -   MWBM0808W     26   OIL HOSE   1   4800L   52NQ01B   52NS7070     27   DU BUSH   4   DU 3012   -   DU3012     28   BOTTOM LOCKER for AUX. LIFT   2SET   52NV89B   52NS5280     29   ROUND HEAD WRENCH BOLT   4   M12x20L   -   WRBM1220     30   SPRING WASHER   4   M12   -   WSM12     31   JACK MASTER CYLINDER TUBE   1   Ø100*Ø90*315L   52NV82A   52N55182     32   O-RING   1   G85   -   ORG85     33   WEAR RING   1   Ø41*Ø46*15B   -   WEAR14615     34   ROD SEAL   2   Ø41*Ø51*6B   -   ROD41516     35   DUST SEAL   1   Ø43*Ø51*5B   -   DHS435105		STEEL NIPPLE-EL		PT1/4*EL*1/2-20UNF	-	HMCM-1/4-1/2WE
24         STEEL BALL         1         3/16"         -         BALL-3/16"           25         SET SCREW         1         M8-8L         -         MWBM0808W           26         OIL HOSE         1         4800L         52NQ01B         52N57070           27         DU BUSH         4         DU 3012         -         DU3012           28         BOTTOM LOCKER for AUX. LIFT         2SET         52NV89B         52N55280           29         ROUND HEAD WRENCH BOLT         4         M12x20L         -         WRBM1220           30         SPRING WASHER         4         M12         -         WSM12           31         JACK MASTER CYLINDER TUBE         1         Ø100*Ø90*315L         52NV82A         52NS5182           32         O-RING         1         G85         -         ORG85           33         WEAR RING         1         Ø41*Ø46*15B         -         WEAR414615           34         ROD SEAL         2         Ø41*Ø51*6B         -         ROD41516           35         DUST SEAL         1         Ø43*Ø51*5B         -         DH5435105	22	ORIFICE	2	9x9x8L	52FV96C	52F09750
25         SET SCREW         1         M8*8L         -         MWBM0808W           26         OIL HOSE         1         4800L         52NQ01B         52N57070           27         DU BUSH         4         DU 3012         -         DU3012           28         BOTTOM LOCKER FOR AUX. LIFT         2SET         52NV89B         52N55280           29         ROUND HEAD WRENCH BOLT         4         M12x20L         -         WRBM1220           30         SPRING WASHER         4         M12         -         WSM12           31         JACK MASTER CYLINDER TUBE         1         Ø100*Ø90*315L         52NV82A         52N55182           32         O-RING         1         G85         -         ORG85           33         WEAR RING         1         Ø41*Ø46*15B         -         WEAR414615           34         ROD SEAL         2         Ø41*Ø51*6B         -         ROD41516           35         DUST SEAL         1         Ø43*Ø51*5B         -         DHS435105		STEEL NIPPLE-ST.		PT1/4*1/2-20UNF	-	HMCM-1/4-05U
26         OIL HOSE         1         4800L         52NQ01B         52N57070           27         DU BUSH         4         DU 3012         -         DU3012           28         BOTTOM LOCKER for AUX. LIFT         2SET         52NV89B         52N55280           29         ROUND HEAD WRENCH BOLT         4         M12x20L         -         WRBM1220           30         SPRING WASHER         4         M12         -         WSM12           31         JACK MASTER CYLINDER TUBE         1         Ø100*Ø90*315L         52NV82A         52N55182           32         O-RING         1         G85         -         OR685           33         WEAR RING         1         Ø41*Ø46*15B         -         WEAR414615           34         ROD SEAL         2         Ø41*Ø51*6B         -         ROD41516           35         DUST SEAL         1         Ø43*Ø51*5B         -         DHS435105				-7	-	BALL-3/16"
27         DU BUSH         4         DU 3012         -         DU3012           28         BOTTOM LOCKER for AUX. LIFT         2SET         52NV89B         52NV55280           29         ROUND HEAD WRENCH BOLT         4         M12x20L         -         WSM1220           30         SPRING WASHER         4         M12         -         WSM12           31         JACK MASTER CYLINDER TUBE         1         Ø100*Ø90*315L         52NV82A         52N55182           32         O-RING         1         G85         -         ORG85           33         WEAR RING         1         Ø41*Ø46*15B         -         WEAR414615           34         ROD SEAL         2         Ø41*Ø51*6B         -         ROD41516           35         DUST SEAL         1         Ø43*Ø51*5B         -         DHS435105			1	M8*8L	-	
28         BOTTOM LOCKER for AUX. LIFT         2SET         52NV89B         52NS5280           29         ROUND HEAD WRENCH BOLT         4         M12x20L         -         WRBM1220           30         SPRING WASHER         4         M12         -         WSM12           31         JACK MASTER CYLINDER TUBE         1         Ø100*Ø90*315L         52NV82A         52NS5182           32         O-RING         1         G85         -         ORG85           33         WEAR RING         1         Ø41*Ø46*15B         -         WEAR414615           34         ROD SEAL         2         Ø41*Ø51*6B         -         ROD41516           35         DUST SEAL         1         Ø43*Ø51*5B         -         DHS435105		OIL HOSE	1	4800L	52NQ01B	52N57070
29         ROUND HEAD WRENCH BOLT         4         M12x20L         -         WRBM1220           30         SPRING WASHER         4         M12         -         WSM12           31         JACK MASTER CYLINDER TUBE         1         Ø100*Ø90*315L         52NV82A         52NS5182           32         O-RING         1         G85         -         ORG85           33         WEAR RING         1         Ø41*Ø46*15B         -         WEAR414615           34         ROD SEAL         2         Ø41*Ø51*6B         -         ROD41516           35         DUST SEAL         1         Ø43*Ø51*5B         -         DHS435105	27	DU BUSH	4	DU 3012	-	DU3012
30   SPRING WASHER   4   M12   - WSM12	28	BOTTOM LOCKER for AUX. LIFT	2SET		52NV89B	52N55280
31         JACK MASTER CYLINDER TUBE         1         Ø100*Ø90*315L         52NV82A         52N55182           32         O-RING         1         G85         -         ORG85           33         WEAR RING         1         Ø41*Ø46*15B         -         WEAR414615           34         ROD SEAL         2         Ø41*Ø51*6B         -         ROD41516           35         DUST SEAL         1         Ø43*Ø51*5B         -         DHS435105	29	ROUND HEAD WRENCH BOLT	4	M12x20L	-	WRBM1220
32         O-RING         1         G85         -         ORG85           33         WEAR RING         1         Ø41*Ø46*15B         -         WEAR414615           34         ROD SEAL         2         Ø41*Ø51*6B         -         ROD41516           35         DUST SEAL         1         Ø43*Ø51*5B         -         DHS435105					-	
33         WEAR RING         1         Ø41*Ø46*15B         -         WEAR414615           34         ROD SEAL         2         Ø41*Ø51*6B         -         ROD41516           35         DUST SEAL         1         Ø43*Ø51*5B         -         DHS435105	31	JACK MASTER CYLINDER TUBE	1	Ø100*Ø90*315L	52NV82A	52N55182
34         ROD SEAL         2         Ø41*Ø51*6B         -         ROD41516           35         DUST SEAL         1         Ø43*Ø51*5B         -         DHS435105			-			
35 DUST SEAL 1 Ø43*Ø51*5B - DHS435105	33	WEAR RING		Ø41*Ø46*15B	-	WEAR414615
		ROD SEAL	2	Ø41*Ø51*6B	-	ROD41516
36   MASTER HEAD COVER   1   Ø100*46L   52NV83A   52N55183				1 ' '		
	36	MASTER HEAD COVER	1	Ø100*46L	52NV83A	52N55183



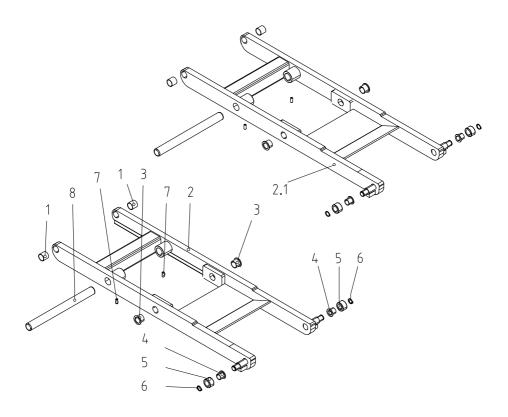
번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
Α	AUX. LIFT slaver piston kit	1set	-		52N59430
В	AUX. LIFT slaver rod cover kit	1set	-		52N59440
C	Jack air Cylinder1 assy'	1set	52N55100		52N55100
0	JACK SLAVE CYLINDER ASSY	1set	52NW00A		52N58560
1	AUX. LIFT UPPER LOCKER	-	52NV92C	14t*87.6*374.2	52N55192
2	O-RING	-	-	P16(Ø2.4xØ16xØ20)	OPR16
3	PISTON	-	52NU03A	Ø20*40L	52N55003
4	SPRING	-	31SU05C	Ø18.4xØ16x36Lx5C	30N93150
5	ROD GUIDER	-	42FU07A	Ø11x10L	42F04759
6	HEAD COVER	-	52NU05B	Ø25*5L	52N55005
7	ONE TOUCH AIR NIPPLE-EL	-	-	M5*90°*Ø6	EC0506E
8	AIR CYLINDER TUBE	-	52NU06B	Ø35*47L	52N55006
9	SNAP RING	-	-	CR25	SN-CR25
10	ROUND HEAD WRENCH BOLT	-	-	M8*20L	WRBM0820
10.1	SPRING WASHER	4	-	M8	WSM08
11	JACK LOCKER CONNECTOR	-	52NV90B	6t*65*133	52N55190
12	DU BUSH	-	-	DU3040	DU3040
13	ROD BAR WELDING GROUP-R	1	52NW05A	Ø40x309L	52N55305
14	GREASE NIPPLE-ST.	-	-	PT1/8*ST.	GN-1/8
15	O-RING	1	-	P40(Ø3.5xØ40xØ46)	ORP40
16	SLAVE PISTON	1	52NW01A	Ø80x44L	52N55301
17	WEAR RING	1	-	Ø80xØ75x2.5tx10B	WEAR807510
18	PISTON SEAL	2	-	Ø80xØ70x6B	UHP80706
19	WRENCH BOLT	1	-	M18*40L	WBM1840
20	OIL HOSE	1	52NQ01B	4800L	52N57070
21	STEEL NIPPLE-EL	-	-	PT1/4*EL*1/2-20UNF	HMCM-1/4-1/2WE
22	ORIFICE	-	52FV96C	9x9x8L	52F09750
23	DU BUSH	-	-	DU 3012	DU3012
24	BOTTOM LOCKER for AUX, LIFT	-	52NV89B		52N55280
25	ROUND HEAD WRENCH BOLT	-	-	M12x20L	WRBM1220
26	SPRING WASHER	-	-	M12	WSM12
27	JACK SLAVE CYLINDER TUBE	1	52NW02B	Ø90*Ø80*315L	52N55302
28	O-RING	1	-	G75	ORG75
29	WEAR RING	1	-	Ø40*Ø45*15B	WEAR404515
30	ROD SEAL	2	-	Ø40*Ø50*6B	ROD40506
31	DUST SEAL	1	-	Ø40*Ø48*5B	DHS4048065
32	SLAVE HEAD COVER	1	52NW03A	Ø90*46L	52N55303

# Jack Link1



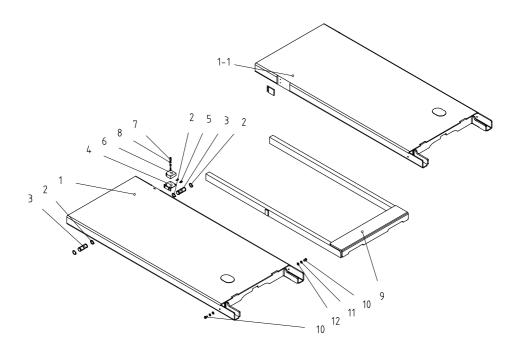
번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	AUX, LIFT LINK1 BOTTOM PIN	4	Ø25*73.8L	52NV56-	52n55156
2	AUX, LIFT LINK1 BODY(LEFT)	2(1R/1L)		52NV50-	52N55150
2.1	AUX, LIFT LINK1 BODY(RIGHT)	2(1R/1L)		52NV50-	52N55250
3	DU BUSH	4	DU 2525		DU2525
4	FLANGE DU BEARING	4	FDU2525		DU2525F
5	AUX, UPPER ROLLER	4	Ø42x31.5L	52NV59-	52F09055
6	AUX. UPPER FRICTION GUIDER	4	Ø20x18L	52NV60-	31X00013
7	SNAP RING	4	CS25		SN-CS25
8	SNAP RING	4	CS25		SN-CS25
9	AUX. LIFT CENTER PIN	2	Ø25*411L	52NV57-	52F09045

#### Jack Link2



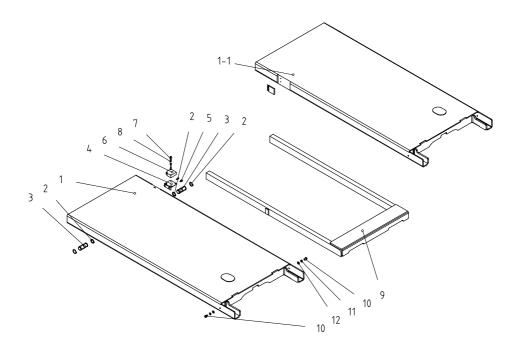
번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	DU BUSH	4	DU 2525		DU2525
2	AUX. LIFT LINK2 BODY(LEFT)	1		52NV70-	52N55150
2.1	AUX, LIFT LINK2 BODY(RIGHT)	1		52NV70-	52N55250
3	FLANGE DU BUSH	4	FDU 2525		DU2525F
4	FLANGE DU BUSH	4	FDU2020		DU2020F
5	AUX. LINK2 BOTTOM ROLLER	4	Ø35x20L	52NV78-	52F00655
6	SNAP RING	4	CS20		SN-CS20
7	SET SCREW	4	M8x20L		MWBM0820
8	AUX. CYLINDER UPPER PIN	2	Ø30*338L	52NV77-	52N55177

#### Jack Platform



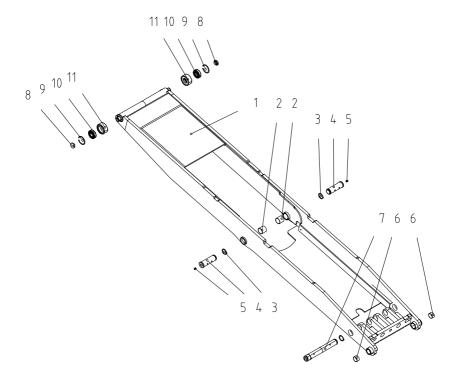
번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	AUX, LIFT BOARD(LEFT)	1		52NV10-	52N55110
1.1	AUX. LIFT BOARD(RIGHT)	1		52NV10-	52N55210
2	SNAP RING	8	CS25		SN-CS25
3	UPPER PIN for AUX, LIFT	4	%%c25*61.8L	52NV18-	52N55118
4	PHOTO SENSOR BRACKET	1	1.6t*22*54*58	52NV22-	52F07540
5	ROUND HEAD SCREW	2	M5*13L		TRTBM0513
6	PHOTO SENSOR	1	E3JK-R4M2	52NV21-	90000020
7	PHOTO SENSOR BOLT	2	M4*25L		RHCBM0425
8	PHOTO SENSOR NUT	2	M4		HNM04
9	EXTENSION BOARD	2(1R/1L)		52NW20-	52N55320
10	ROUND HEAD WRENCH BOLT	4	M8*15L		WRBM0815
11	SPRING WASHER	4	M8		WSM08
12	PLATE WASHER	4	M8		WPM08

#### Jack Platform

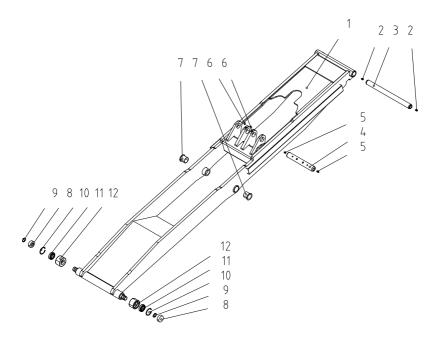


번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	AUX, LIFT BOARD (LEFT)	1		52NV10-	52N55110
1.1	AUX. LIFT BOARD(RIGHT)	1		52NV10-	52N55210
2	SNAP RING	8	CS25		SN-CS25
3	UPPER PIN for AUX, LIFT	4	%%c25*61.8L	52NV18-	52N55118
4	PHOTO SENSOR BRACKET	1	1.6t*22*54*58	52NV22-	52F07540
5	ROUND HEAD SCREW	2	M5*13L		TRTBM0513
6	PHOTO SENSOR	1	E3JK-R4M2	52NV21-	90000020
7	PHOTO SENSOR BOLT	2	M4*25L		RHCBM0425
8	PHOTO SENSOR NUT	2	M4		HNM04
9	EXTENSION BOARD	2(1R/1L)		52NW20-	52N55320
10	ROUND HEAD WRENCH BOLT	4	M8*15L		WRBM0815
11	SPRING WASHER	4	M8		WSM08
12	PLATE WASHER	4	M8		WPM08

# Link1

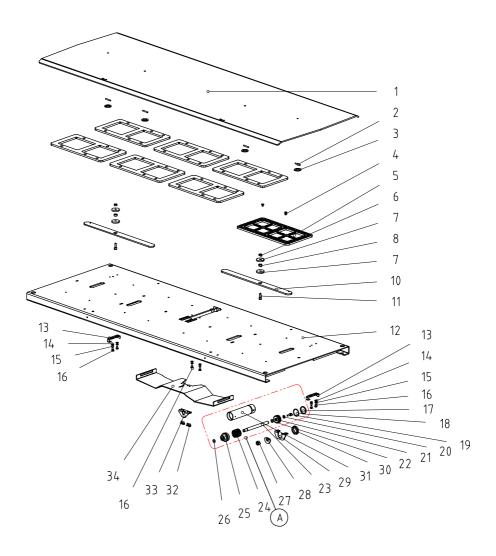


번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	LINK 1 BODY	2		52NE00G	52N53400
2	DU BUSH	4	DU4040	-	DU4040
3	SNAP RING	4	CS40	-	SN-CS40
4	CENTER PIN	4	Ø44*134.7L	52N53413	52N53413
5	GREASE NIPPLE	4	PT1/8*ST.	-	GN-1/8S
6	DU BUSH	4	DU3540	-	DU3540
7	CYLINDER BOTTOM PIN	2	Ø40*303.9L	52NE07D	52N53407
8	FRICTION GUIDER	4	Ø38*15L	52NE15A	52N53415
9	SNAP RING	4	CR30	-	SN-CR30
10	BALL BEARING	4	6206.2ZR	-	BALL62062ZR
11	UPPER ROLLER	4	Ø76*31.5L	52NE14D	52N53414

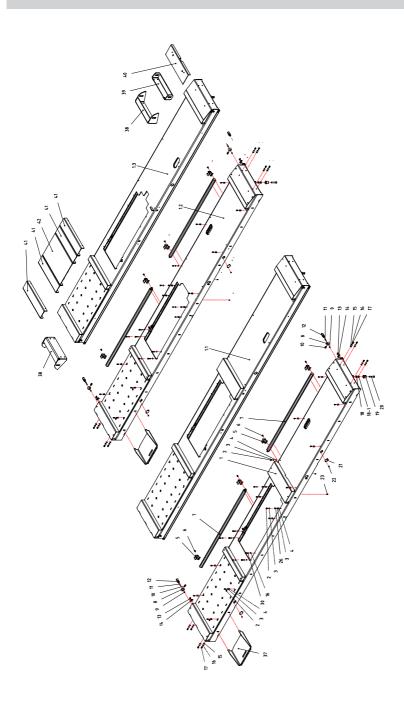


번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	LINK 2 BODY	2		52NF00C	52N53500
2	GREASE NIPPLE	4	PT1/8*ST.	-	GN-1/8S
3	LINK2 UPPER PIN	2	Ø35*462L	52NF13A	52N53513
4	CYLINDER UPPER PIN	2	Ø40*273L	52NF10C	52N53510
5	GREASE NIPPLE	4	PT1/8*ST.	-	GN-1/8S
6	SET SCREW	4	M8*15L	-	MWBM0815
7	FLANGE DU BUSH	4	FDU4040(4040F)	-	DU4040F
8	LINK2 FRICTION GUIDER	4	Ø50*18L	52NF16	52N53516
9	SNAP RING	4	CS30	-	SN-CS30
10	SNAP RING	4	CR55	-	SN-CR55
11	BALL BEARING	4	6006.2ZR	-	BALL60062ZR
12	BOTTOM ROLLER	4	Ø70*42L	52NF15A	52N53515

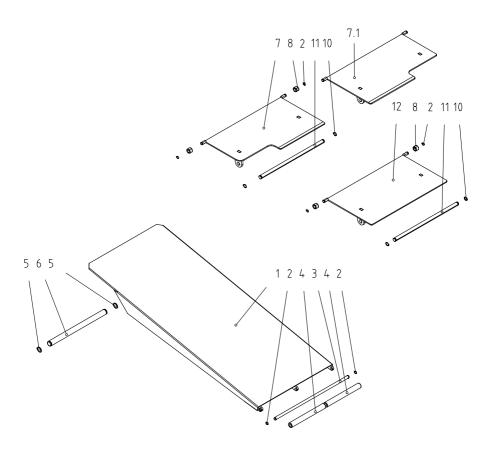
#### Side slip table



번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
0	SIDE SLIP ASS'Y	2SET		52NJ00-	52N53900
1	SIDE SLIP PLATE	2		52NJ20-	52N53920
2	SPRING PIN	4	Ø5*35L		SPIN0535
3	PLATE WASHER	4	Ø21*Ø34*3.2t		WPM213432
4	ROUND HEAD SCREW	32	M6*8L		RHCBM0608
5	SLIDE BALL GROUP	16		52NJ30-	51G00315
6	HEX NUT	4	M8		HNM08
7	RETURN SHAFT WASHER	8	6t*Ø8.5*Ø40	52NJ47-	52N53947
8	RETURN SHAFT	4	Ø18*7L	52NJ45-	52N53945
10	RETURN BAR	4	6t*38*507	52NJ52-	52N53952
11	WRENCH BOLT	4	M8*35L		WBM0835
12	SIDE SLIP BOY	2	4.5t*44*620*1664	52NJ41-	52N53940
13	SPRING STOPPER	4	2.3t*18.2*20*80	52NJ44-	52N53944
14	PLATE WASHER	8	M6		WPM06
15	SPRING WASHER	8	M6		WSM06
16	ROUND HEAD WRENCH BOLT	8	M6*12L		WRBM0612
17	WEAR RING	2	Ø36xØ40x2tx5H		WEAR364005
18	O-RING	2	G35		ORG35
19	WRENCH BOLT	2	M8x20L		WBM0820
20	SPRING WASHER	2	M8		WSM08
21	PISTON	2	Ø39x20L	52NU13-	52F00378
22	O-RING	2	P10A(Ø2.4xØ14xØ10)		ORP10
23	AIR CYL. ROD BAR	2	Ø14x181L		52F00380
24	SPRING	2	Ø38xØ2.5x150L	52NU15-	52F00379
25	HEAD COVER	2	Ø45x34L	52NU16-	52F00383
26	O-RING	2	P14(Ø2.4xØ14xØ18)		ORP14
27	HEX NUT	2	M12		HNM12
28	ROD BAR WASHER	2	4.5t*30*40		52N53955
29	FIXER BRACKET	2	3.2t*23.2*37.5*76.4	52NJ49-	52N53949
30	BEARING NUT(LOCKER NUT)	2	M30x1.5Px7B		52F00384
31	AIR CYLINDER TUB	2		52NU12/U17-	52N55010
32	ROUND HEAD WRENCH BOLT	8	M6*10L		WRBM0610
33	LOCKING BRACKET	2	3.2t*25.2*32.8*75.6	52NJ51-	52N53951
34	SLIP RETURN ARM	2	3.2t*37.4*161.4*573	52NJ54-	52N53954
34-1	ROUND HEAD WRENCH BOLT	4,4,4	M6*12L		WRBM0612

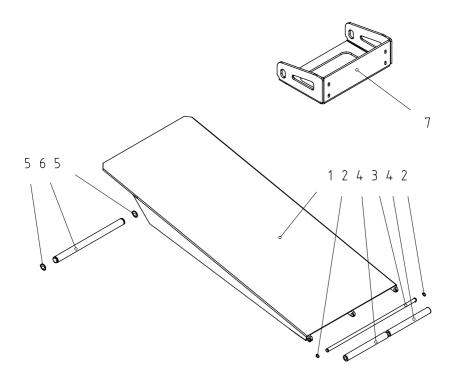


ui-	TRI(OLD)	471	77	EU	THE
번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	BODY(5200)	1	5200mm(OPTION)	52NB30-	52N53130
1-1	BODY(4800)	1	4800mm(OPTION)	52NB00-	52N01000
1-2	BODY(4800)-L			52NB30E	52N01000(L)
1-3	BODY(4800)-R			52NB00F	52N01000(R)
2	WRENCH BOLT	12	M8*15L	-	WBM0815
3	SPRING WASHER	12	M8	-	WSM08
4	PLATE WASHER	12	M8	-	WPM08
5	LAMP BRACKET	8(4R/4L)		52NB44-	52N53114
6	ROUND HEAD WRENCH BOLT	8	M8	-	WRBM0815
7	LAMP	4		52NB21-	90020060
8	AIR BLOCK	2		52NB37-	26E79120
9	STOP BOLT	2		-	MWBU1-4-11
10	AIR NIPPLE	2	PT1/4*Ø10*ST.	-	EC4108
11	ROUND HEAD SCREW	4	M4*15L	-	TRTBM0415
12	AIR NIPPLE(PROVAC)	2	PT1/4*Ø10*ST.	-	EC41065
13	ROUND HEAD WRENCH BOLT	8	M6*12L	-	WRBM0612
14	JACK STOPPER	4		52NB52-	52N53123
15	PLATE WASHER	16	M10	-	WPM10
16	SPRING WASHER	16	M10	-	WSM10
17	WRENCH BOLT	16	M10*25L	-	WBM1025
18	HEXA. NUT	2	M14	-	HNM14
18	HEXA. NUT(CLASS 3)	2	M14	-	HN3M14
19	PROTECT RUBBER	2	Ø41.5*40L	52NB58-	L5AA11019
20	HEXA-HEAD BOLT	2	M14*80L	-	HEXM1480
21	HOLE COVER	4	1.6t*8*52*61	52NB42-	52N53118
22	ROUND HEAD WRENCH BOLT	4	M6*10L	-	WRBM0610
23	SET SCREW	4	M8*15L	-	MWBM0815
26	ROUND HEAD WRENCH BOLT	8	M8*20L	-	WRBM0820
30	WRENCH BOLT	8	M10*45L	-	WBM1045
37	FEET STEP	1	6t*65*400*349.9	52NB05-	L5AA32200
38	TIRE STOPPER BASE	2	O'TY 4 ->INGROUND TYPE ONLY	-	52N58100
39	RAMP FIXER	2	Z ,	-	52N58230
40	INGROUND FINISHER	2	INGROUND TYPE ONLY	-	52N53155
41	ASSISTANT BOARD 1	6	O'TY 8 -> 5200 LENGTH ONLY	-	52N53165
42	ASSISTANT BOARD 2	2	OPTIONAL OPTIONAL	-	52N53170
72			O OT W. NE.		32.433170

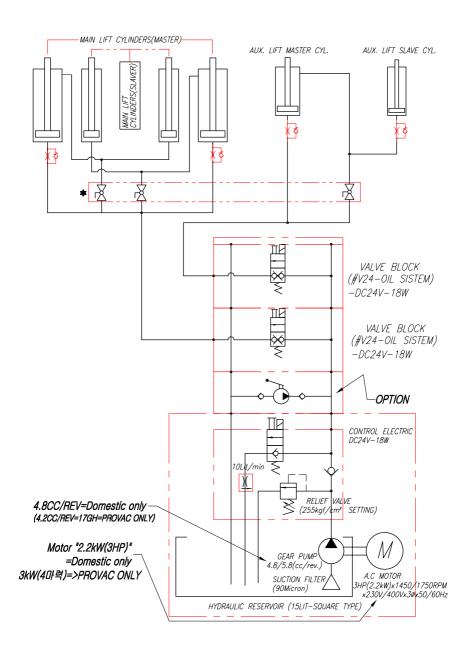


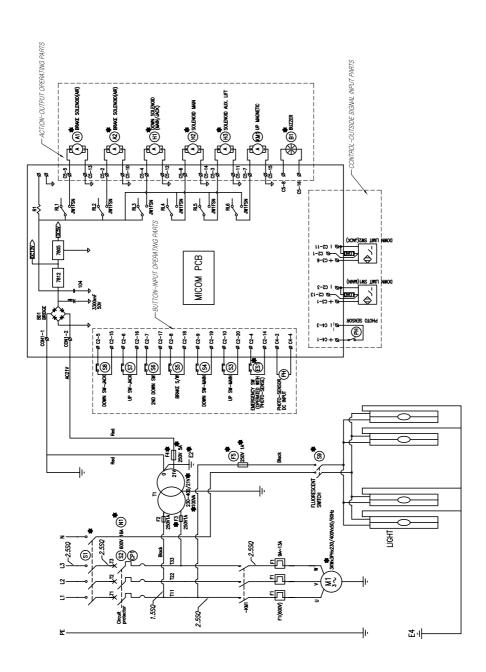
번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	RAMP	2		52FH60G	52F05511
2	SNAP RING	4	CS15	-	SN-CS15
3	ROLLER PIN	2	Ø30xØ16x271L	52FH51C	52F05560
4	RAMP ROLLER	4	Ø30xØ16x271L	52FH50D	52F05555
5	SNAP RING	4	CS30	-	SN-CS30
6	RAMP PIN	2	Ø30x484.4L	52NH52A	52N58252
7	FRONT STOPPER-LEFT	1		52NH10A	52N58210
7	FRONT STOPPER-RIGHT	1		52NH10A	52N58215
8	STOPPER ROLLER	4	Ø28x20L	52FH14A	52F50140
10	SNAP RING	4	CS20	-	SN-CS20
11	FRONT STOPPER PIN	2	Ø20x508L	52FH15B	52F50150
12	REAR CONNECTOR STOPPER(option)	2	IN-GROUND ONLY	52NH20A	52N58220

## Ramp2-Drive through type only



번호	품명(영문)	수량	규격	도번	품번
NO.	PART NAME	Q'TY	SPECIFICATION	DWG.NO.	ITEM NO.
1	RAMP	2		52FH60G	52F05511
2	SNAP RING	4	CS15	-	SN-CS15
3	ROLLER PIN	2	Ø30xØ16x271L	52FH51C	52F05560
4	RAMP ROLLER	4	Ø30xØ16x271L	52FH50D	52F05555
5	SNAP RING	4	CS30	-	SN-CS30
6	RAMP PIN	2	Ø30x484.4L	52NH52A	52N58252
7	DRIVE THROUGH BRACKET	2	9t*155*287.9*462	52NH35A	52N58235







HESHBON CO.,LTD.
673-52, GYEONGSEO-DONG, SEO-GU, INCHEON, 404-170 KOREA
TEL:+82-32-585-3570(Int'l trading) / FAX: +82-32-585-3535
http://www.heshbon.com / e-mail:export@heshbon.com
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