

DAVIES

AUTOMOTIVE EQUIPMENT

2 POST OVERHEAD

Installation/Operation & Maintenance Manual



DA46/ DA53

Please read this manual prior to installing and operating lift.
Make sure all safety warnings and precautions are fully understood
by any person operating this lift.

NOTE TO THE USER

Thank you for purchasing a Davies Automotive car Lift
Please read this instruction manual for safe and proper use of this lift,
keep it handy for future reference.

- This Installation and owners manual is for model: DA46/DA53
- All safety precautions must be followed during operation of this car lift
- Installers please make sure relevant pages are filled out, signed and returned for registration with Davies Automotive
- Equipment.
This car lift must not be installed in potentially explosive atmosphere.

THIS MANUAL MUST NOT BE REPRODUCED IN ANY
FORM WITHOUT PERMISSION FROM
DAVIESAUTOMOTIVE. THIS PRINT IS SUBJECT TO
CHANGE WITHOUT NOTICE.

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Introduction

Safety

Installation

Operation

Maintenance

WARRANTY CERTIFICATE

PRODUCT WARRANTY TERMS & CONDITIONS

Davies Automotive Equipment warranty terms and conditions only apply to the original purchaser of Davies Automotive Equipment Hoist sold by Davies automotive Equipment or authorised agents / distributors. Davies Automotive Equipment warrants all Davies Automotive Equipment hoist models against faulty components, workmanship or manufacture from the date of original purchase, Costs for travel over 30kms from the closest Davies Automotive Equipment hoist authorised service dealer will not be covered under this warranty and additional fees will apply.

Other conditions apply refer next page for warranty inclusions and exclusions.

60 Months Warranty

- Structural steel.
- Mechanical parts

36 Months Warranty

- 3-Phase Electric motors
- Electrical wiring
- Hydraulic Pumps & manifolds
- Hydraulic hoses & fittings
- Hydraulic cylinder seals

24 Months Warranty

- Wire rope load & balance cables
- Air and electric operated lock release solenoids
- Pulleys, bushings and axles
- Carriage wear guides
- Hydraulic cartridge valves
- Electrical buttons & switches
- 240v AC & RAC Coils
- Remote control pendant

12 Months Warranty

- Single phase electric motors
- PC Boards all models

Warranty terms & conditions are subject to change at any time without notice

Davies Automotive Equipment reserves the right to conduct equipment inspections under warranty claim lodgment by an authorised agent / distributor prior to any warranty claims being approved.

Davies Automotive Equipment shall repair or replace at their option for the warranty period of parts returned to the factory freight pre-paid which prove upon inspection to be defective. Davies Automotive Equipment will not be responsible for any labour costs unless pre-agreed.

Davies Automotive Equipment must receive proof and date of purchase prior to proceeding with any supply of parts or repairs. The owner must first obtain approval from Davies Automotive Equipment prior to replacing parts or conducting repairs on any Davies Automotive Equipment hoist still within warranty periods. Any replacement parts or repairs conducted by the owner unauthorised may result in voiding the warranty agreement and place all costs incurred onto the owner.

Warranty Exclusions

Warranty record of installation has not been received by Davies Automotive Equipment.

Warranty terms & conditions do not apply if the hoist has been Incorrectly installed by a non approved installer.

Warranties do not extend to any cosmetic defect not interfering with equipment functionality or any incidental, indirect or consequential loss, damage or expense that

may result from any defect, failure or malfunction of a Davies Automotive Equipment hoist or the breach or delay in performance of the warranty.

Mishandled, misused, wilfully damaged, neglected, improperly serviced and inspected, repaired, altered or defaced in anyway.

Any defect arising as a result of any failure to follow instructions either in the operating manual or product specifications.

Any defect arising from the use of non-approved parts or ancillary items attached to or in connection with the hoist.

Malfunctioning due to electrical surges or damage from natural disaster such as flood, fire, earthquake etc.

Damaged caused by rain, excessive humidity, corrosive environments or other contaminants.

Other items not listed but may be considered general wear parts.

Powerrex Engineering reserves the right to make design changes or add improvements to its product line without incurring any obligation to make such changes on product sold previously.

How to claim

Please make sure you have your address details, copy of original purchase invoice, hoist serial number and precise details of fault before contacting Davies Automotive on:

Ph: (03) 9702 3258 Email: sales@DaviesAutomotiveEquipment.com.au.

Introduction

Thank you for purchasing a Davies Automotive Equipment Vehicle Lift.
This vehicle lift has been constructed to the highest quality and safety standards.
The following pages are designed to supply the owner and or user of this lift with a basic guide for its proper and safe usage.

Please read these instructions thoroughly before using the lift. This guide contains instructions for installation, use and maintenance of vehicle lift : ***Davies Automotive Equipment DA46/DA53***

The lift is composed of two post structures which must be safely anchored to the concrete floor. Each post is equipped with a fully sealed RAM type hydraulic cylinder, cylinders are synchronised by adjustable wire rope cables.

The lift is powered by a 1 phase or 3 phase electric motor attached to a hydraulic pump, which delivers pressurized hydraulic oil to both cylinders enabling it to lift up to its maximum Safe Working Load (SWL).

This lift's purpose is for performing vehicle servicing, repairing and inspections.

Follow the instructions in this guide to make sure lift is used correctly and safely, technical literature supplied is an integral part of this lift and must remain with the lift at all times.
Powermax declines all responsibility for any damage due to negligence and/or non-observance of this manual.

Intended Use

The Davies Automotive Equipment DA46/DA53 2-Post lift is suitable for lifting motor vehicles up to and not

exceeding 4600kg/. It is necessary to respect the parameters given by the "***Load Distribution Chart***" in accordance with ***EN1493/98***.

This Lift must not be used for any other purpose than lifting motor vehicles, Davies Automotive Equipment will not be held liable for any damage or injury caused by improper use or non-observance of this manual.

Do not install this lift in a windy or explosive environment

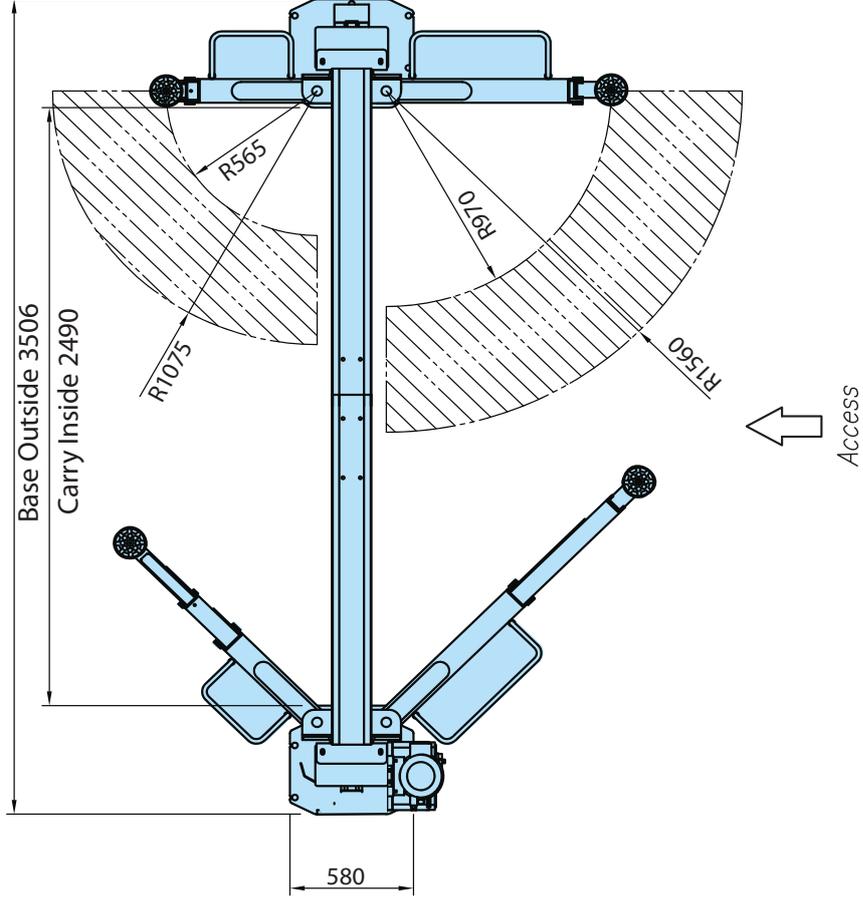
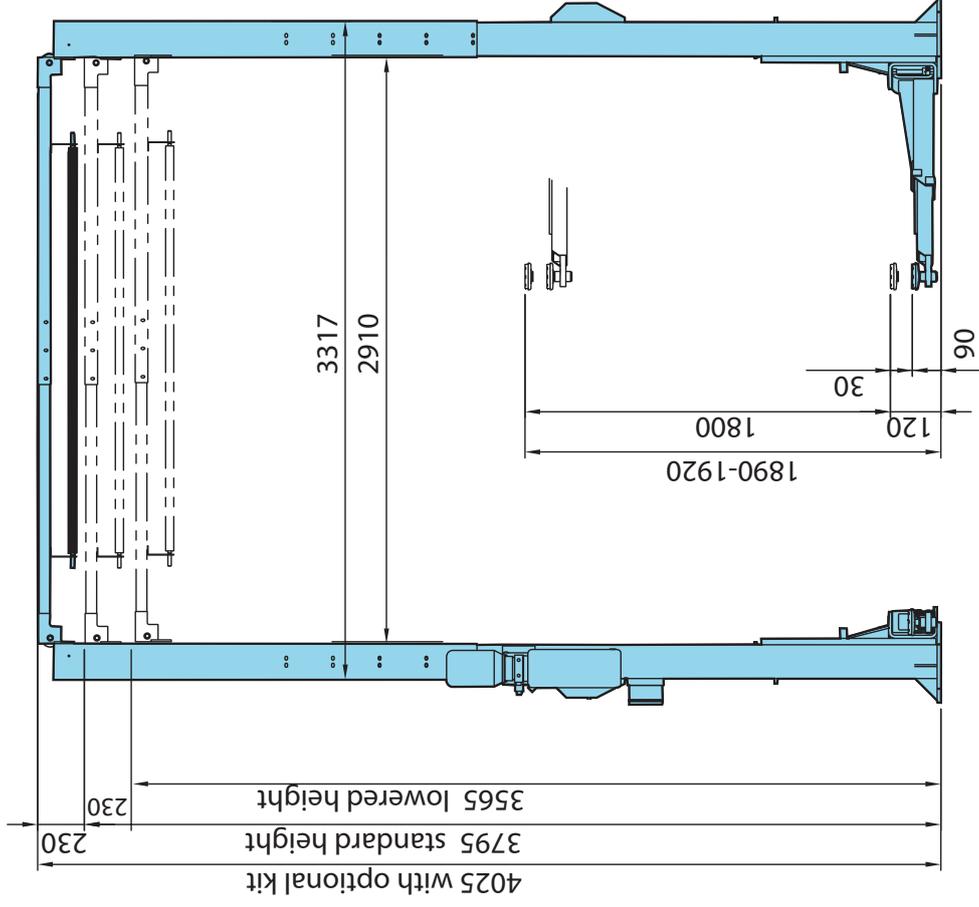
Lift is not suitable for use outdoors unless protected from the elements

Lift is not suitable for use in wash bay area

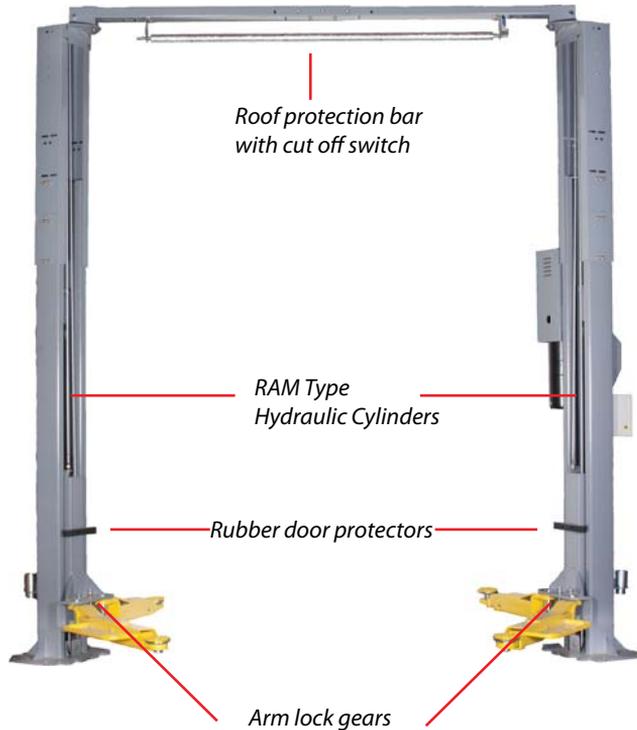
KEEP THIS AS WELL AS THE SUPPLIED TECHNICAL LITERATURE IN A SAFE PLACE AND CONSULT WHENEVER NECESSARY.

Install Option 1

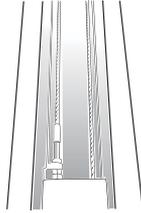
Option: Hoist can be narrowed by 140mm extra parts required



Features

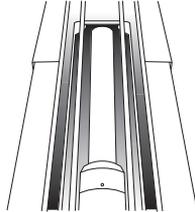


- # Roof protection bar with cut off switch protects vehicle and lift by cutting power when contacting roof area
- # RAM type hydraulic cylinders, fully sealed no internal air cavity, prevents moisture from corroding inner walls considerably improves life cycle
- # Rubber door protectors, protects opening door from contacting steel structure
- # Arm lock gears, precision cut automatic engaging/disengaging gears withstand more than twice industry standard side forces



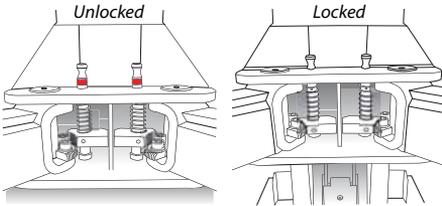
Wire rope cables

Hydraulic cylinders are synchronised by adjustable wire rope cables



RAM type cylinders

Fully sealed long lasting hydraulic cylinders



Arm lock indicators

Visible indicators show arm lock engagement and disengagement



Door protection

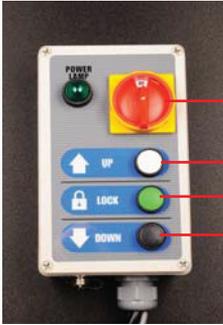
Rubber protectors stops door from hitting steel structure when opening



Carriage safety locks

Positively locking safety locks on both posts with electronic disengage mechanism ensure safety when working under lift

Description



Standard Control Box



OPTIONAL

Functions (Control Panel)

- 1) Lockable Isolator Switch
- 2) Up Button (raises lift)
- 3) Lock Button (lowers lift onto safety locks)
- 4) Down Button (locks release, lift descends) if hoist is in lock position, press up button first to raise off locks then press down button.

Optional Remote Control

Up and down functions

Specification

CAPACITY	DA46:4600kg DA53:5300kg
MAX LIFT HEIGHT	1890 – 1930MM
STROKE	1800MM
MIN HEIGHT	90 - 130MM
LIFTING TIME	50 - 60 SEC
LOWERING TIME	30 – 45 SEC
WEIGHT	APPROX 900KG
POWER / MOTOR	3ph 2.5HP 4P 415V 50Hz 1ph/10Amp, 3ph/7amp
DIMENSIONS	(H) 3750 x (W) 3496 x (D) 2726MM

Operational Safety Precautions

Avoid Accidents

Safety



Please make sure all personnel fully understand safety warnings as shown below.



Do not operate lift with persons underneath, in vehicle or on lift arms



Move away from the lift area in case of emergency



Do not exceed the Safe Working Load of the lift
If unsure check vehicle weight first



Not following these safety warnings can lead to critical accidents, please make sure all personnel read and thoroughly understand, safety procedures and warnings

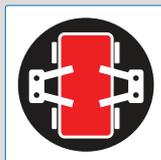


Warning before use

Only trained personnel should operate this lift



Make sure vehicle weight is centered on lift



Do not operate damaged lift.
Report to supervisor



Make sure vehicle hand brake is applied before disembarking



Operational Safety Precautions



Caution During Operation

No Unauthorised personel in the lift area



Make sure area under lift is clear before lowering



Do not apply excessive movement to vehicle on lift



Do not raise lift until vehicle is in correct position



Safety



Caution During Operation

To avoid injury make sure feet are clear of platforms when lowering



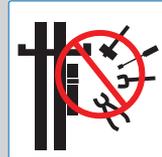
Make sure safety locks are engaged before working under lift



Do not open control panel before isolating mains power



Only authorised technicians should repair or make adjustments to lift



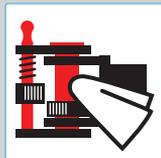
Do not use high pressure cleaner on or around the lift



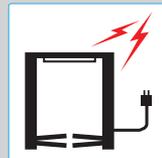
Read manual thoroughly before using lift



Keep lift clean and free of debris



To protect lift from electrical surges, make sure power is turned off when not in use



Lift Installation Site



This lift should be installed by experienced persons
Failure to do so could cause lift to fail and result in injury or death

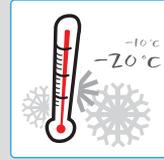
Site

Concrete floor must be level and minimum thickness of 110mm for DA46
150mm for DA53

Concrete must be minimum 25mpa steel reinforced

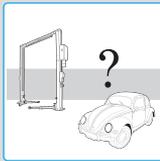


Lift location temperature range must fall between -10 to 50 Degrees C

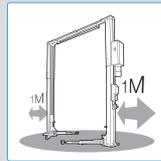


Location

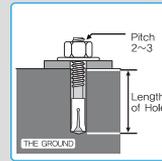
Position lift for easy and safe vehicle access



Please adhere to local laws in regards to safe distances from fixed structures



Make sure 2/3 of foundation bolt is below ground for safe securing



This lift is designed for indoor use only protected from the elements



Lift must be installed in a dry well drained location.
If lift gets wet make sure it is dried prior to operation

Make sure site is suitable for size of lift check all measurements



Transport and installation

Prior to installation

- 1) Only trained and or skilled persons should attempt to install this lift
- 2) Please contact lift supplier to arrange installation or removal
- 3) Lift should be raised and lowered empty at the beginning of each employees shift. This is to verify lift is level and working correctly.
Contact supervisor if any problems are found

Place of installation

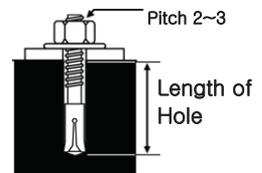
- 1) Lift must be installed on reasonably level re-inforced concrete with a minimum thickness of 110mm/150mm.
- 2) Lift must be secured with supplied Trubolts or bolts of same specifications.
- 3) Concrete foundations must withstand minimum of 350KN/m² load.
- 4) Lift must be installed indoors protected from the elements.
- 5) Installation site temperature must not exceed -10 to +50 Degrees Celcius.
- 6) Lift posts must be level, shims are supplied for this purpose.
- 7) Anchor bolts must be tightened to a minimum 80-100nm.



Davies Automotive Equipment is not responsible for any problems occurring from third party installation



This lift is designed for indoor use only protected from the elements



Length of hole
150mm anchor bolt (110mm) Length of hole

Transport and installation

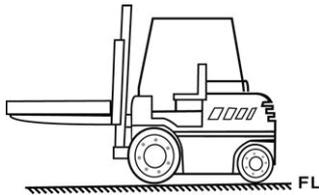
Installation precautions

- 1) Install the lift minimum 600mm from a wall or fixed structure, follow local guidelines / regulations.
- 2) Do not change the lifts standard specifications (lifting or lowering speeds and or hydraulic pressure) unless approved by Davies Automotive Equipment.
- 3) Do not install the lift outdoors, doing so will void any manufacturers warranty choosing to do so is at own risk.

Transport

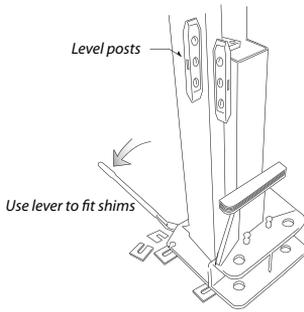
The lift is packaged in a metal frame with steel internal tubs securing all required components.

- 1) It is recommended a forklift or hiab crane is used to unload and during installation.



- 2) Checking accessories and parts.
Check external packaging for signs of transport damage, make sure photos are taken if damage found, forward to supplier.
After unpacking make sure all accessories and relevant parts are present contact supplier or Davies Automotive Equipment if any parts are damaged, missing or if unsure.

Installation



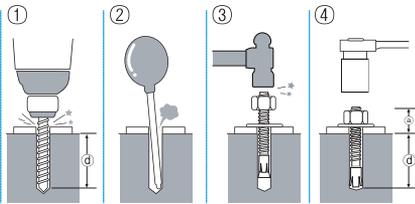
Level posts

Check concrete floor level across full width of lift both posts must be level with each other before adjusting vertical levels

1

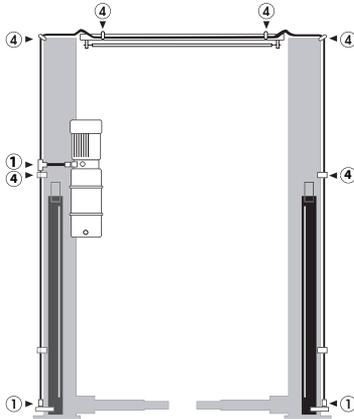
Use supplied shims to level posts horizontally and vertically before drilling.

2



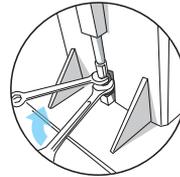
Tru-bolt installation

- 1) Using a 16mm masonry drill make a hole minimum 120-150mm deep
- 2) Vacuum loose dust from inside hole
- 3) Using a hammer tap Tru-bolt down into hole
- 4) Tighten Tru-bolt to 125Nm Torque make sure 2/3 of bolt remains below concrete



Hydraulic unions

- 1) Tighten all hydraulic hose unions using 17 & 19mm spanners
- 4) Use cable ties to secure hoses and wiring



Bleeding Cylinders

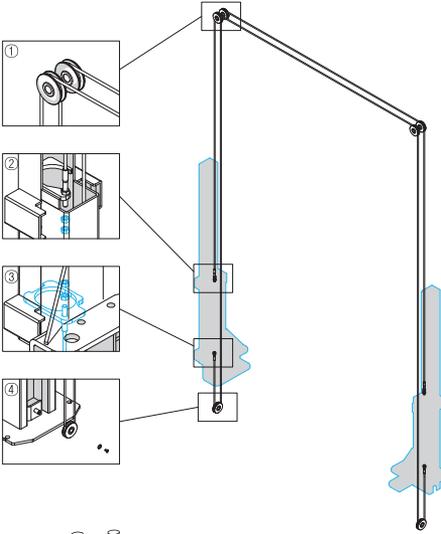
Air must be bled from cylinders on first lift after power is connected. Loosen allen key bleed screws on top side of hydraulic cylinders, make sure oil level in reservoir is correct. Press up button raise lift to full height if lift starts to cavitate add oil in small quantities just enough to reach full height. Lowewr lift tighten bleed screws top up oil.



Do not bleed cylinders with vehicle on lift



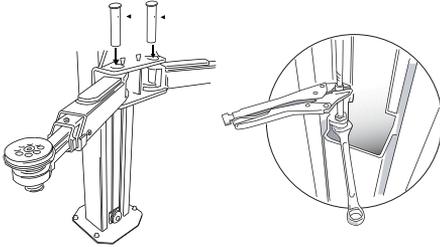
Installation



Wire rope connection

Feed wire rope from left post through top left side pulley across to left side pulley on right post then connect to top of right carriage (pic2). Follow same procedure for wire rope from right post attach to left carriage.

If hoist has been installed at lower height setting then wire rope connection refer (pic3) will need to be moved to upper bracket inside carriage.



Wire rope adjustment

Raise the lift then lower onto first or second lock point. Adjust wire ropes to have same amount of tension, do not adjust too tightly, only require approx 30mm movement using thumb to pull back rope towards post.



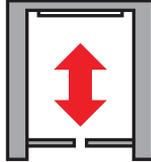
When wire ropes are correctly adjusted safety locks on both posts should click simultaneously when raising lift.

Carriages should contact post bases simultaneously when lowered.

Final Steps Before Use

Check Points

Before lifting any vehicles check the following points



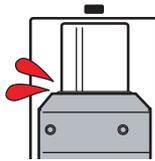
Test Operation

Raise lift to full height to set and test height cut off switch, 3 x full cycles



Controls

Make sure control buttons operate smoothly on control panel



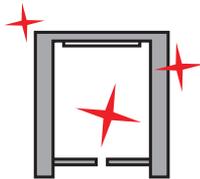
Check for leaks

Check all hydraulic hose fittings for signs of leaks, reseal and tighten if required



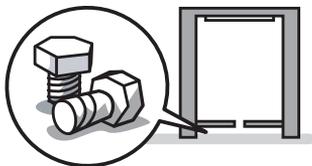
Check bolt tension

Double check tension of all fitted bolts including base foundation Tru-bolts



Exterior clean

Clean exterior of lift, make sure it is fitted with SWL and other safety warning / compliance stickers



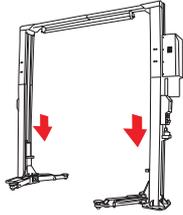
Remove debris

Remove any left over packing materials or debris from around lift

Tip

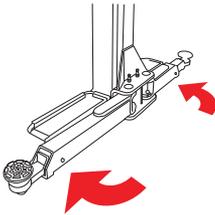
Implement simple daily checklist for key areas of lift functions

Operation



1

Make sure lift is at fully lowered position



2

Swing all arms back to open position



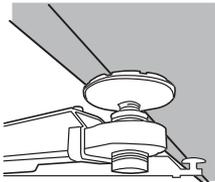
3



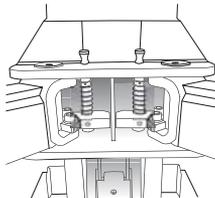
Make sure vehicle approach is as center as possible, position approximately 30/70 split, more overhang to rear



4



Swing arms under vehicle extend evenly out too manufacturers recommended pick up points wind up load pad, use drop in height adaptors for 4wd / light commercial vehicles. Double check position after raising lift just a few inches



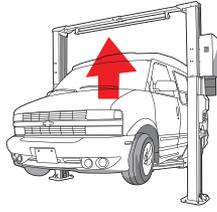
5



Check arm lock indicators make sure they are in engaged position, if not move arm slightly to engage, do this before raising vehicle above knee height

Lift Operation

6 Raising



After checking pads are in correct position and arm locks are engaged press up button to desired working height

7



Before going under the lift, visually check pads are contacting correctly and arm locks engaged. After completion of vehicle repair make sure area under lift is clear then press down button to lower lift to ground level, swing back arms and remove vehicle.

Arm safety locks

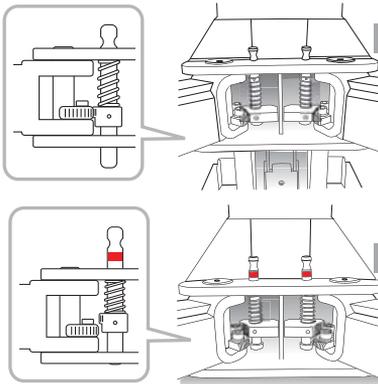
Operation

1

Raise the lift just a few inches the lift arm locks should automatically engage, Red marker should not be visible when fully engaged. If Red marker is showing slightly move arm or reposition to engage lock.

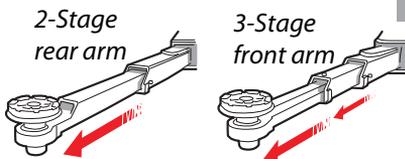
2

When lift is fully lowered arm lock indicators must be showing to allow arms to be freely swung back.



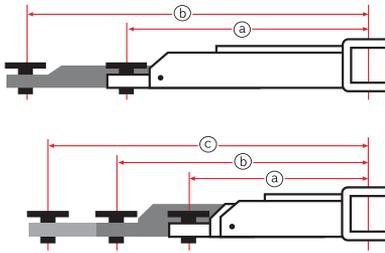
Arm adjustment

1 Adjusting arm length



Front arms have 2-stage length adjustment
Rear arms have single stage length adjustment

Load arm dimensions



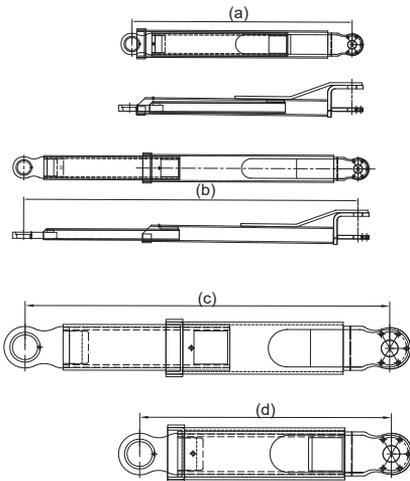
Standard arms

Rear arm

- (a) 920mm
- (b) 1440mm

Front arm

- (a) 600mm
- (b) 780mm
- (c) 1060mm



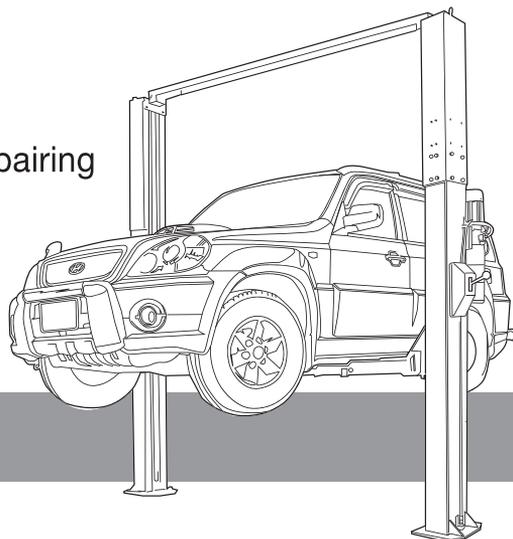
Option: Low profile arms

Rear arm

- (a) 995mm
- (b) 1515mm

Front arm

- (c) 865mm
- (d) 595mm



Equipment maintenance and service

The several maintenance operations to be carried out are described below. A low operation cost and a long life of the machine depends from constant observation of the operations.



The listed intervention times are given for information and they refer to normal operation conditions. They can change according to the kind of service, environment (more or less dusty), frequency of use, etc. In case of heavier conditions, servicing must be increased. When filling up or changing the hydraulic fluid, use the same kind of oil used previously.

■ Periodical maintenance operations

Every week

- ▶ **Check safety locks click simultaneously when raising lift, if not adjust wire rope cables**
- ▶ Check the safety locks as previously described
- ▶ Check Hydraulic fluid levels as follows:
 - ▶ If maximum lift height is not achieved, check limit switch position, if ok check oil level. add oil
 - ▶ Fill up through the filler cap using 32–45 viscosity hydraulic oil.

Every month

- ▶ Check tension of foundation bolts and pivot pin nuts and grub screws.
- ▶ Check for hydraulic leaks and tighten any loose fittings, if necessary.
- ▶ Check the hydraulic hose condition; in case they are worn, replace them with new hoses of the same specification.
- ▶ Check the greasing and wear condition of pins, rollers, bushes and slide out extensions.

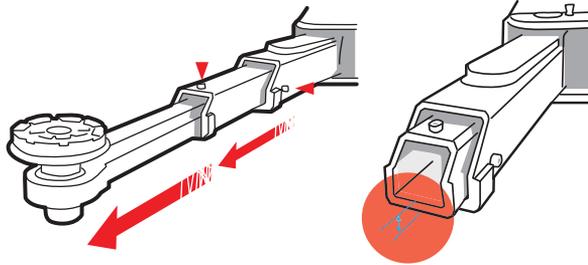
Every 200 hours running

- ▶ Empty the tank and check the condition of the hydraulic fluid. Clean the oil filter.

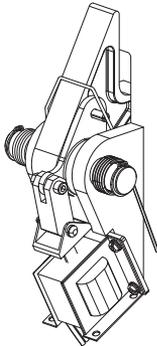
If the a.m. operations are carried out with care, there will be an advantage for the user, who will find the equipment in perfect condition each time he restarts work.

■ Arms

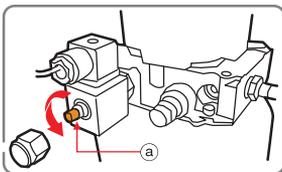
► Once a year check the condition of each arm by sliding each section to its fully extended position and ensure that the arm stop is working correctly.



■ Emergency lowering in the event of power failure



In the event of a power failure the lift must be lowered manually. Lift each carriage by approx. 30mm using a trolley jack and a suitable extension to this and manually release the lock pawls. Fix the lock pawls mechanically so that spring pressure does not reengage them. Remove the trolley jack and extension. Repeat this operation on the opposite carriage. Remove the trolley jack and extension. As a safety precaution before opening the power pack, switch off the mains and switch off the lockable main switch on the control panel.



- ① Remove the cover from the power pack.
- ② Remove the hexagon cap from the solenoid valve as shown.
- ③ Turn the emergency cock lever slowly and carefully anti-clockwise to ensure that the lift lowers slowly and safely.

Steps after completing the operation

- ① Turn the lever clockwise and lock it securely.
- ② Refit the hexagon cap.

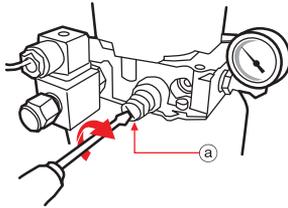
2 Power pack pressure



The power pack pressure is set by the factory in accordance with the lift's maximum rated capacity. The pressure regulator is sealed by the factory and should not be tampered with. Excessive adjustment can result in serious damage. If the lift fails to raise the maximum rated load, contact your Powerrex approved maintenance engineer.

Standard pressure settings model **T46+**

200kgf/cm² (196bar)



Relief Valve Adjustment

If hoist is struggling to lift heavy vehicle

Fit pressure gauge

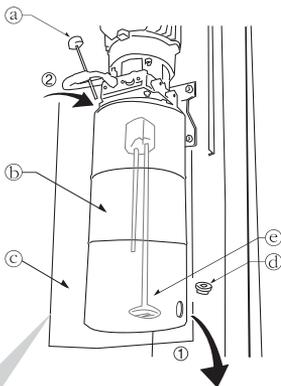
Adjust valve clockwise after loosening lock nut

3 Oil change

Oil should be changed 2 months after installation and thereafter annually.

Oil change procedure

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



- | | |
|--|---|
| <ul style="list-style-type: none"> ⓐ Filter cap and dipstick ⓑ Oil tank ⓒ Drain plug ⓓ Pump filter | <ul style="list-style-type: none"> ① Oil filter ② Oil discharge |
|--|---|



Tip At the annual oil change, after having drained the oil tank, remove the oil tank from the pump and check the condition of the pump filter. Clean or replace as necessary. Replace tank and follow the above procedure.

Troubleshooting

	Symptom	Check List	Corrective Action
H Y D R A U L I C S Y S T E M	Powerpack Abnormal Noise	1) Rated Capacity Exceeded 2) Relief valve activated 3) Hydraulic oil level low	1) Do not exceed lift capacity 2) Adjust to 196 bar refer pg22 3) Top up oil, bleed system
	Oil Leak	1) Damaged hose 2) Leaking fittings 3) Leaking Seals	1) Replace hose 2) Tighten fittings 3) Contact service agent
	Oil Contamination	Check hydraulic cylinder for signs of water / air	Replace hydraulic oil 24 month intervals
	Not Lifting	1) Check limit switch connection 2) Check oil level 3) Check for air bubbles in oil	Contact service agent
	Not Lowering	1) Safety locks disengaging 2) Check descent valve operation	Contact service agent
	Seized Components	Check for sufficient lubrication	Lubricate moving parts every 1-3 months
E L E C T R I C A L S Y S T E M	Electric motor noisy or not operating	1) Check for motor damage 2) Check for blown fuses 3) Check button contacts 4) Check upper limit switch 5) Check external power supply 6) Check Emergency stop button	1) Replace motor 2) Replace fuse 3) Replace button 4) Reset limit switch 5) Repair external power 6) Deactivate emergency stop
	Blown Fuses	1) Check magnetic contactor 2) Check circuit breaker capacity 3) Check for damaged wiring / water	Contact service agent
	Electric motor running but not lifting	1) Check phase rotation 2) Check solenoid valve operation 3) Check for oil leaks	Contact service agent

Maintenance

Inspection and Periodic Maintenance

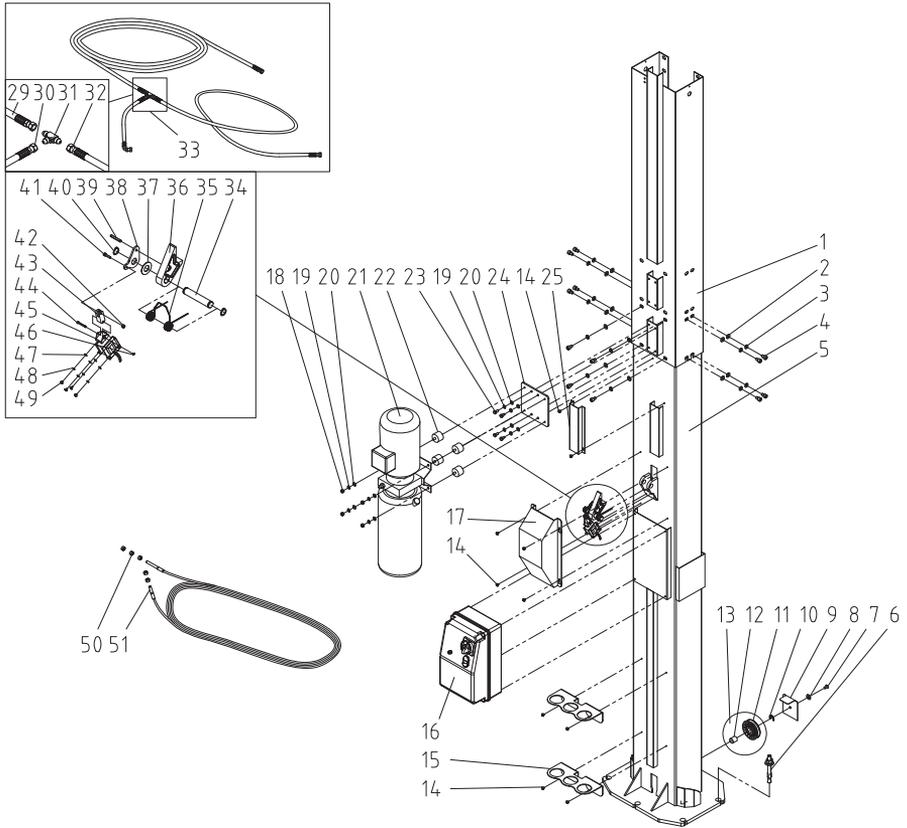
Interval	Item	Inspect For	Method	Action	Replace
W E E K L Y	Controls	Correct Function	Test	Replace if Required	When Required
	Safety Locks	Correct Function	Test	Contact service agent if required	
3 M O N T H S	Wire Ropes	Abrasion, broken wires lack of lubrication	Visual	Lubricate or Replace Contact agent	2-3 Years
	Wire Rope Pulleys	Wear, lack of axle pin lubrication	Visual	Lubricate via grease nipple or replace	When required
	Post Guides	Abrasion	Visual	Replace if required	When required
	Height Limit Switch	Correct Function	Test	Adjust or replace	When required
	Foundation Bolts	Tension	Check	Tighten to 125Nm	When required
6 M O N T H S	Electrical Components	Correct Function	Test	Replace if required	When required
	Hydraulic Oil	Level	Check	Top up 32-46 Grade	24 Months
1 2 M O N T H S	Hydraulic Seals	Oil Leaks	Visual	Replace Contact Service agent	When required
	All Above				

APPENDIX

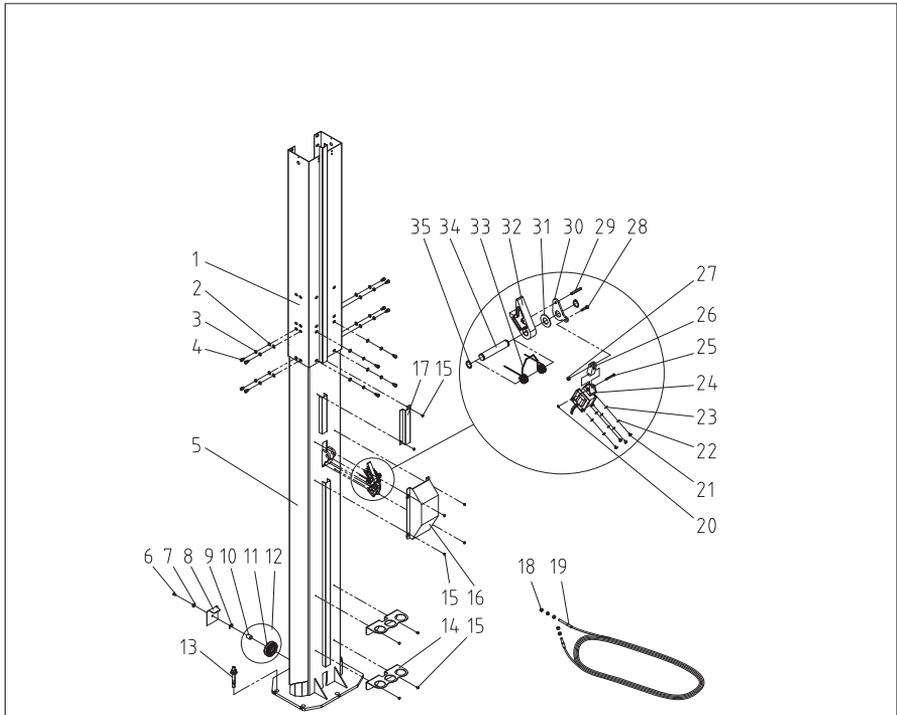
- PARTS LIST
- HYDRAULIC CIRCUIT
- ELECTRIC CIRCUIT

MODEL

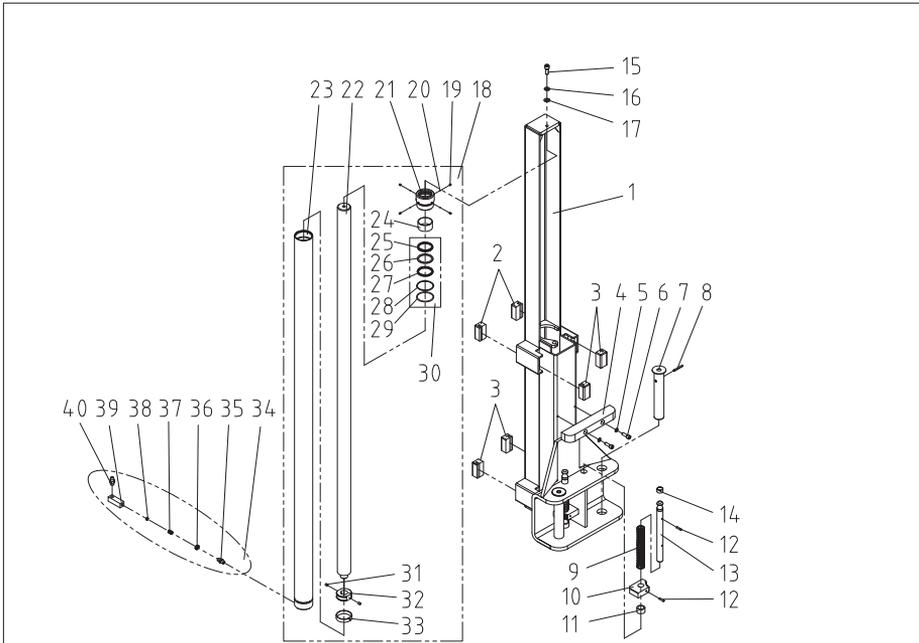
DA46/DA53



No.	Part Name	Item No.	No.	Part Name	Item No.	No.	Part Name	Item No.
1	Main post extension	26D28100	18	Hex nut(M8)	HNM08	35	Lock spring	26K06140
2	Plain washer(M10)	WPM10	19	Spring washer(M8)	WSM08	36	Lock block	26K06111
3	Spring washer(M10)	WSM10	20	Plain washer(M8)	WPM08	37	Plain washer(M20)	WPM20
4	Wrench bolt(M10x15L)	WBM1015	21	Power unit ass'y	2690100	38	Lock connector	25J06220
5	Main post	26D21100	22	Anti-vibrated rubber	26K01010	39	Spring pin(φ6x40L)	SPIN0640
6	Wedge anchor bolt(M16x145L)	ANCW-16-14S	23	Hex bolt(M8x15L)	HEXM0815	40	Circlip(CS20)	SN-CS20
7	C'sink wrench bolt(M8x15L)	WBDM0815	24	Power unit bracket	26D70080	41	Wrench bolt(M5x20L)	WBM0520
8	Plain washer(M12)	WPM12	25	Line protector	26D40230	42	Nylon nut(M5)	HNUM05
9	Wire roller protector	26M80150				43	Solenoid connector	26K06220
10	E-ring(E-15)	SN-E15			26D28300	44	Pin(φ4x30)	33J40120
11	Wire roller	26K06165			TRTBM0513	45	Solenoid coil(AC 24V)	26D95150
12	DU bearing(DU2025)	DU2025	29	Hydraulic hose(Slave post)	26D55080	46	E-ring(E-3)	SN-E03
13	Wire roller ass'y	26K06160	30	Hydraulic hose(Power unit)	26K01130	47	Plain washer(M4)	WPM04
14	Truss head bolt(M6x8L)	TRTBM0608	31	3-way steel nipple(UNFx3)	26K01040	48	Spring washer(M4)	WSM04
15	Arm supporter adapter holder	26D40270	32	Hydraulic hose(Main post)	26D55085	49	Round head bolt(M4x5L)	RHCBM0405
16	Control panel ass'y	26D93000	33	Hydraulic hose ass'y	26D55500	50	Hex nut(M12)	HNM12
17	Lock cover	26K06195	34	Lock shaft	26K06100	51	Wire rope(φ8x10050L)	26M061010

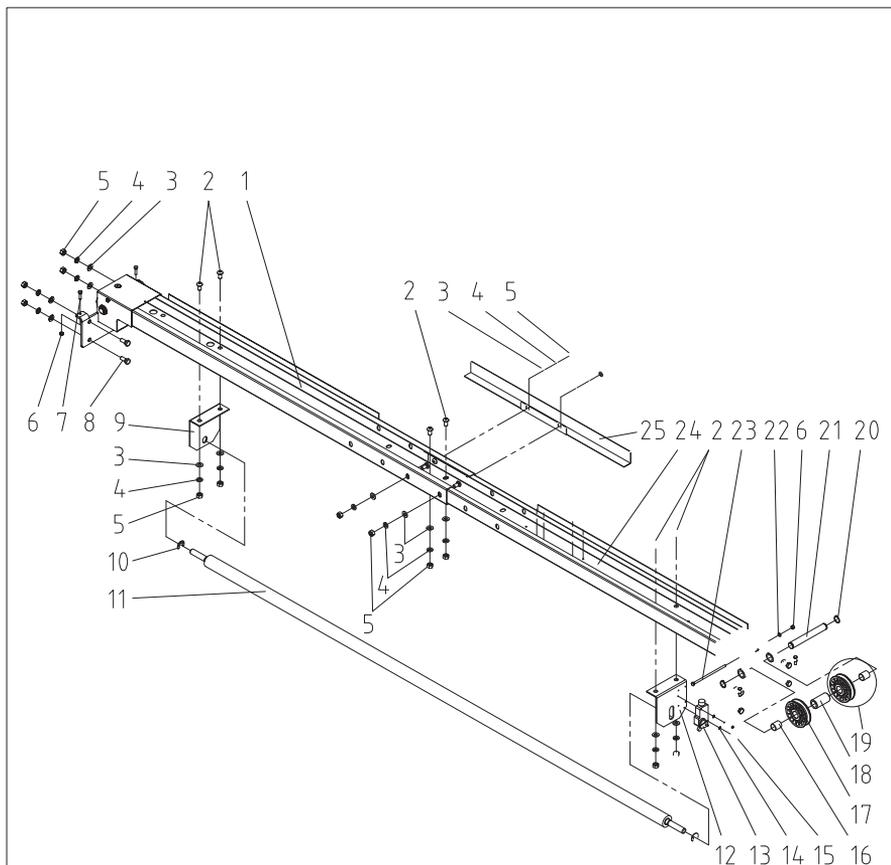


No.	Part Name	Item No.	No.	Part Name	Item No.
1	Slave post extension	26D28200	20	E-ring(E-3)	SN-E03
2	Plain washer(M10)	WPM10	21	Round head bolt(M4x5L)	RHCBM0405
3	Spring washer(M10)	WSM10	22	Spring washer(M4)	WSM04
4	Wrench bolt(M10x15L)	WBM1015	23	Plain washer(M4)	WPM04
5	Slave post	26D21200	24	Solenoid coil(AC 24V)	26D95150
6	C'sink wrench bolt(M8x15L)	WBDM0815	25	Pin(φ4x30L)	33J40120
7	Plain washer(M12)	WPM12	26	Solenoid connector	26K06220
8	Wire roller protector	26M80150	27	Nylon nut(M5)	HNUM05
9	E-ring(E-15)	SN-E15	28	Wrench bolt(M5x20L)	WBM0520
10	DU bearing(DU2025)	DU2025	29	Spring pin(φ6x40L)	SPIN0640
11	Wire roller	26K06165	30	Lock connector	25J06220
12	Wire roller ass'y	26K06160	31	Plain washer(M20)	WPM20
13	Wedge anchor bolt(M16x145L)	ANCW-16-145	32	Lock block	26K06111
14	Arm supporter adapter holder	26D40270	33	Lock spring	26K06140
15	Truss head bolt(M6x8L)	TRTBM0608	34	Lock shaft	26K06100
16	Lock cover	26K06195	35	Circlip(CS20)	SN-CS20
17	Line protector	26D40240			
18	Hex nut(M12)	HNM12			
19	Wire rope(φ8x10050L)	26M06010			

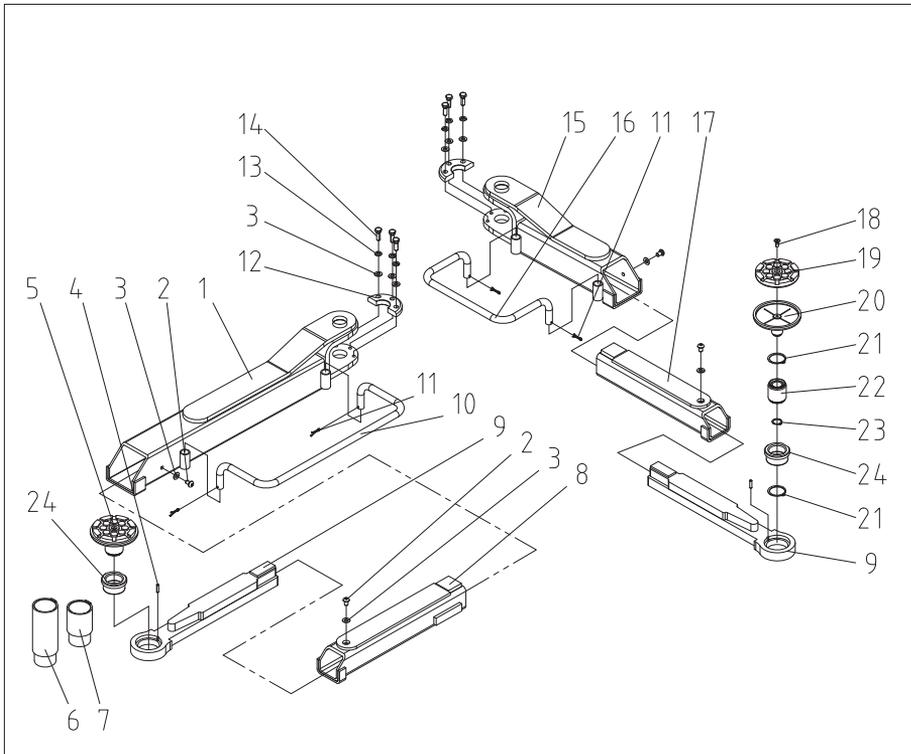


No.	Part Name	Item No.	No.	Part Name	Item No.
1	Carriage	26C05000	21	Head cover	26D55050
2	Carriage guide(HDPE)	26C06070	22	Rod bar	26D55020
3	Carriage guide(UHMW-PE)	26C06060	23	Cylinder tube	26D55005
4	Door safety rubber pad	26M70010	24	DU bearing(DU4530)	DU4530
5	Plain washer(M8)	WPM08	25	Dust seal($\phi 45 \times \phi 53 \times 5 \text{t} \times 6.5 \text{H}$)	DHS455305
6	Wrench bolt(M8x30L)	WBM0830	26	Back up ring($\phi 45 \times \phi 55 \times 3 \text{t}$)	ORP455503B
7	Arm shaft	26K70111	27	U-packing($\phi 55 \times \phi 45 \times 6 \text{H}$)	UHS45556
8	Spring pin($\phi 6 \times 50 \text{L}$)	SPIN0650W	28	Back up ring($\phi 65 \times \phi 60 \times 1.25 \text{t}$)	ORP6560125B
9	Arm lock spring	26K06050	29	O-ring(G60)	ORG60
10	Small arm lock gear	26K06040	30	Head cover packing ass'y	26E95100
11	Arm lock spacer	27M62220	31	Locking bolt(M6x8L)	MWBM0608
12	Spring pin($\phi 6 \times 20 \text{L}$)	SPIN0620	32	Piston	26D55040
13	Arm lock gear shaft	26M06030	33	Wear ring($\phi 60 \times \phi 55 \times 15 \text{H} \times 2.5 \text{t}$)	WEAR605515
14	Warning sign label		34	Hydraulic hose adaptor Ass'y	26C06018
15	Wrench bolt(H)(M10x40L)	WBHM1040	35	Steel nipple(PT1/4xPT1/4)	HMCM-1/4-1/4S
16	Spring washer(H)(M10)	WSHM10	36	Orifice spacer	52F71205
17	Plain washer(M10)	WPM10	37	Orifice spring	31S71203
18	Cylinder ass'y	26K05000	38	Orifice	31S71201
19	Locking bolt(M6x4L)	MWBM0604	39	Hydraulic hose adaptor	26M06020
20	Steel ball(3/16")	BALL-3/16"	40	Steel nipple(PT1/4x05U)	HMCM-1/4-05U

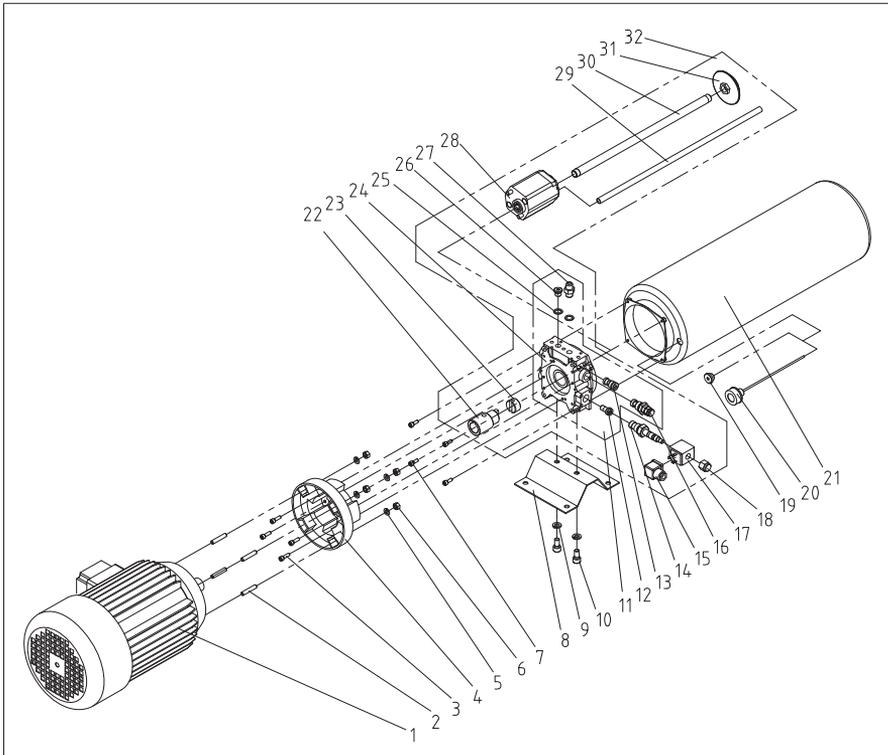
Cross Beam



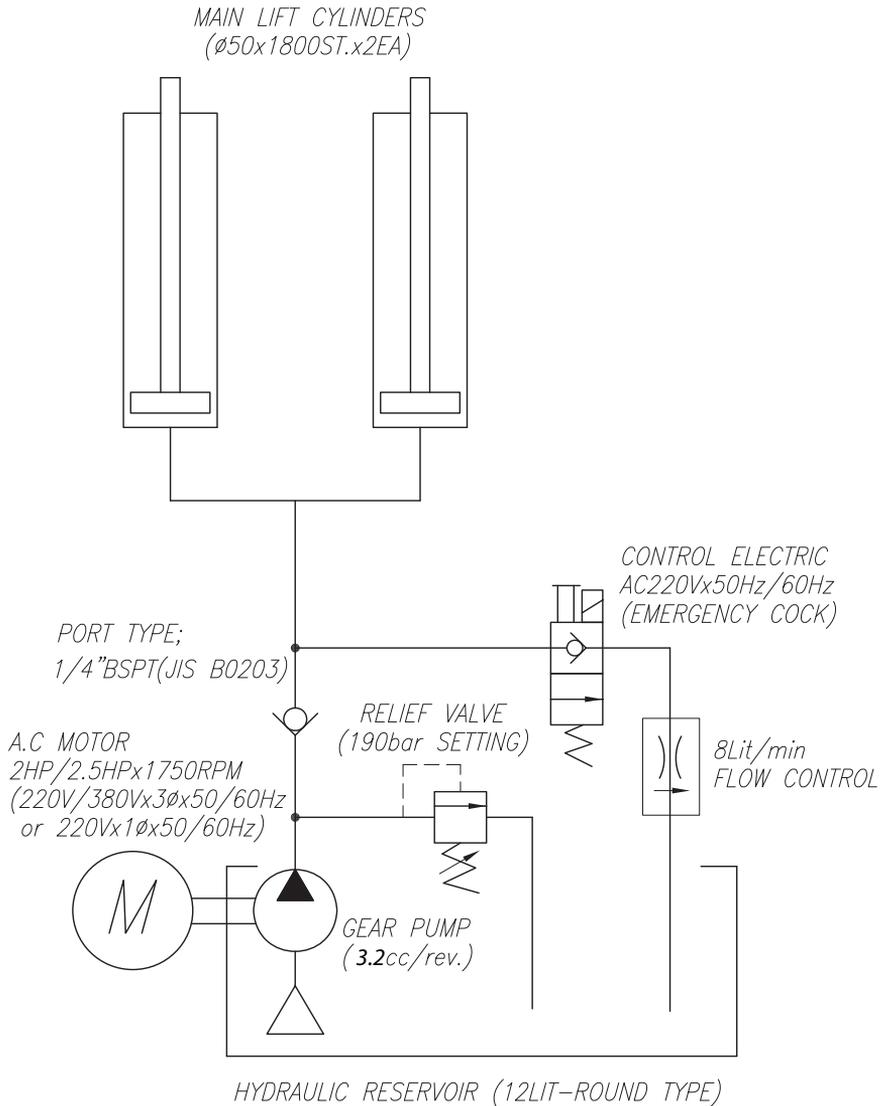
No.	Part Name	Item No.	No.	Part Name	Item No.	No.	Part Name	Item No.
1	Cross beam(1)	26D23100	14	Plain washer(M4)	WPM04			
2	Round head wrench bolt(M10x20L)	WRBM1020	15	Round head bolt(M4x35L)	RHCBM0435			
3	Plain washer(M10)	WPM10	16	DU bearing(DU2025)	DU2025			
4	Spring washer(M10)	WSM10	17	Wire roller	26K06165			
5	Hex nut(M10)	HNM10	18	Wire roller spacer	26M4.0510			
6	Hex nut(M6)	HNM06	19	Wire roller ass'y	26K06160			
7	Hex head bolt(M6x25L)	HEXM0625	20	Circlip(CS20)	SN-CS20			
8	Hex head bolt(M10x25L)	HEXM1025	21	Wire roller shaft	26K4.0010			
9	Top limit switch touch bar fixture	26K4.0410	22	Spring washer(M6)	WSM06			
10	E-ring(E-15)	SN-E15	23	Hex head bolt(M6x140L)	HEXM06140			
11	Top limit switch touch bar	26K4.0200	24	Cross beam(2)	26D23200			
12	Top limit switch fixture	26K4.0310	25	Hydraulic hose protector	26D50280			
13	Top limit switch	26K07028						

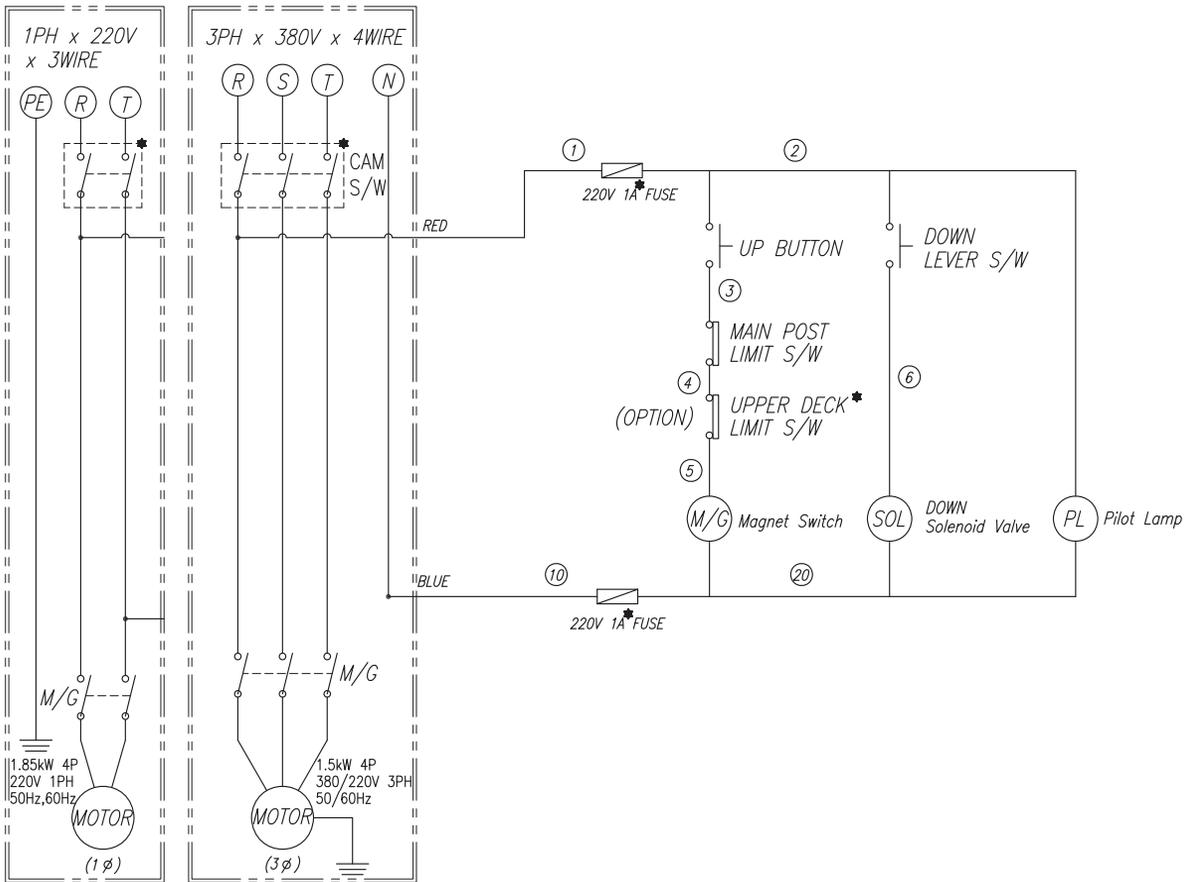


No.	Part Name	Item No.	No.	Part Name	Item No.
1	Long arm(R/L)	26D25100	13	Spring washer(M10)	WSM10
2	Round head wrench bolt(M10x16L)	WRBM1016	14	Hex head bolt(H)(M10x30L)	HEXHM1030
3	Plain washer(M10)	WPM10	15	Short arm(R/L)	26D26100
4	Spring pin(φ6x30L)	SPIN0630	16	Foot protector(Short)	26E95023
5	Arm supporter ass'y	25J25000	17	Short slide arm(R/L)	26D26200
6	Arm supporter 2nd adapter(2)	26D80130	18	C'sink wrench bolt(M8x20L)	RHCDBHM0820
7	Arm supporter 2nd adapter(1)	26D80120	19	Arm support rubber	25J25030
8	Middle slide arm(R/L)	26D25300	20	Arm supporter	25J25010
9	3rd slide arm	26D26300	21	Circlip(CS45)	SN-CS45
10	Foot protector(Long)	27E95023	22	Arm 2nd supporter	25J25020
11	Cotter pin(φ4x25L)	PIN0425	23	Circlip(CS25)	SN-CS25
12	Large arm lock gear	26K25040	24	Arm supporter adapter	26D80110



No.	Part Name	No.	Part Name
1	Motor(3 ϕ ×230/400V×50/60Hz×2HP)	17	Solenoid coil(DC24V 18VA)
2	Stud bolt(M8×40L)	18	Hex cap(M8)
3	Wrench bolt(M6×20L)	19	Locking bolt(PT3/8)
4	Motor flange	20	Deep stick-long
5	Spring washer(M8)	21	Oil tank(11Litter)
6	Hex nut(M8)	22	Motor coupling
7	Wrench bolt(M6×15L)	23	Pump coupling
8	Power pack bracket	24	Central block
9	Spring washer(M10)	25	Copper washer
10	Wrench bolt(M10×20L)	26	Locking bolt(PT1/4)
11	Block ass'y	27	Steel nipple(PT1/4×PF1/4)
12	Oil control valve(8Lit/min)	28	Pump(4.8cc/REV)
13	Check valve	29	Drain pipe
14	Cartridge valve	30	Filter pipe
15	Solenoid socket	31	Strainer
16	Relief valve	32	Central block ass'y





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