



INSTALLATION AND OWNER'S MANUAL

BP2700 SINGLE POST PARKING LIFT



The manual is just for reference. Actual products are subject to the specific kind prevail.
The Specification in this manual may change without prior notice
Any part of this manual cannot be reproduced without prior approval
Please read this manual before you get started. You must understand the precautions for safety.

CONSERVING THE MANUAL

The manual is an integral part of the lift, which it should always accompany even if the unit is sold .The manual, must be kept in the vicinity of the lift in an easily accessible place so that the operator and maintenance staff must be able to locate and consult the manual quickly at any time.



ATTENTIVE AND REPEATED READING OF SAFETY INSTRUCTION, WHICH CONTAINS IMPORTANT INFORMATION AND SAFETY WARNINGS, IS PARTICULARLY RECOMMENDED.



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2. Abnormal operation, transportation or handling

3. Human negligence, vandalism, arbitrary modification which makes the machine damaged.



Notice:

1. Retain this card please. Cancelling, missing or blank this warranty card will have no maintenance service.

2. During the warranty period, who couldn't show this card will not get free maintenance.

3. Expendable parts do not include in this range.

Safety

Introduction

Thoroughly read this manual before operating the hydraulic parking lift and comply with the instructions. Always display the manual in a conspicuous location.

Personal injury and property damage incurred due to non-compliance with these safety instructions are not covered by the product liability regulations.

The opinion of the manufacturer or his authorized representative should be sought before modifying the design or configuration of the equipment;

The need after modification of the design or configuration of the equipment for decommissioning to be carried out in accordance with the manufacturer's instructions.

Symbols



Failure to comply with instructions could result in personal injury.



Failure to comply with instructions could result in property damage.



Important information

Intended Use

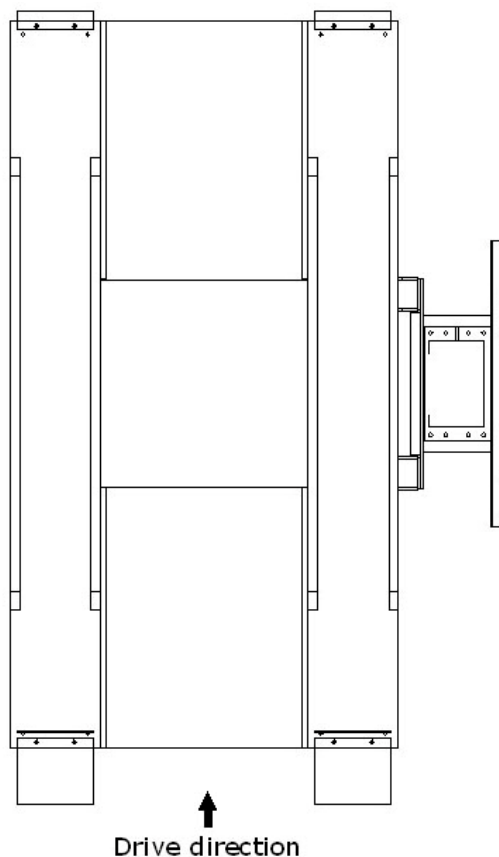
The lift is designed for the safe lifting of automotive vehicles. Observe the rated load capacity and load distribution of the lift.

Hazards material and material other than the intended vehicle is forbidden to be lifted by this hydraulic parking lift.

This hydraulic lift is just used for parking vehicle, the vehicle maintenance and repair can't be done by using this hydraulic parking lift, which is forbidden to be use as instead tool of vehicle lift, which is suitable tool to be used to lift vehicle for maintenance and repair.

	Load Capacity	Load Distribution Front : Rear	
		Minimum	Maximum
Information	2700Kg	3 : 2	2 : 3

in principle, the lift is designed for one approach directions.



Safety Instructions for Commissioning

- The hydraulic parking lift may be installed and commissioned by authorized service personnel only.
- ⑩ The hydraulic parking lift version may not be installed and commissioned in the vicinity of explosives or flammable liquids, outdoors or in moist rooms (e.g. car wash).

Safety Instructions for Operation

- Read the operating manual.
- ⑩ Lift operation by authorized personnel over 18 years only.
- ⑩ Always keep the hydraulic parking lift and lifting area clean and free of tools, parts, debris etc.
- Once the vehicle step onto the platform, check the vehical is located suitable and good engagement.
- After raising the vehicle briefly, stop and check the vehicle for secure contact.
- Always lifting the vehicle using all platform.
- Make sure the vehicle doors are closed during raising and lowering cycles.
- Closely watch the vehicle and the hydraulic parking lift during raising and lowering cycles.
- Do not allow anyone to stay in working area during raising and lowering cycles.
- Do not allow anyone on hydraulic parking lift or inside raised vehicle.
- Only use the hydraulic parking lift for its intended purpose, hazards material shall be not allowed lifted .
- Comply with the applicable accident prevention regulations.
- Do not overload the hydraulic parking lift. The rated load capacity is indicated on the nameplate and the post.
- Only use the vehicle manufacturer's recommended lifting element.
- After positioning the vehicle apply the parking brake.
- Use caution when removing or installing heavy components (center-of-gravity displacement).
- The main switch serves as emergency switch. In case of emergency turn to position 0.
- ⑩ Protect all parts of the electrical equipment from humidity and moisture.
- ⑩ Protect the lift against unauthorized usage by padlocking the main switch.
- ⑩ when leaving the parking equipment the control devices shall be secured against unauthorized operation;
- ⑩ traveling with the load carrier is prohibited;
- ⑩ climbing up to a raised vehicle is prohibited;
- ⑩ load carriers shall always be moved vertically to an access position;
- ⑩ work on or under vehicles on load carriers is prohibited;
- ⑩ entry into the pit is prohibited.

Safety Instructions for Servicing

- Maintenance or repair work by authorized service personnel only.
- Turn off and padlock the main switch before doing any maintenance, or repair work.
- Work on pulse generators or proximity switches by authorized service personnel only.
- Work on the electrical equipment by certified electricians only.
- Ⓢ Ensure that ecologically harmful substances are disposed of only in accordance with the appropriate regulations.
- Do not use high pressure / steam jet cleaners or caustic cleaning agents. Risk of damage!
- Do not replace or override the safety devices.

Friendly attention SAFETY FIRST!

1. Please check lift before work. If the hydraulic parking lift is not balanceable, please adjust the lift and check the safe chain.
2. You must enhance the hydraulic parking lift above the safe chain, and then begin your work.
3. Please check the parts of transmission and slippage frequently. Please infuse the oiling on the chain between the axles every 5 to 7 days
4. please refers to the instruction and safe guide picture for work.
5. Please change the oil upon the season (summer 46# / winter 32#)

1. Purpose and characteristics

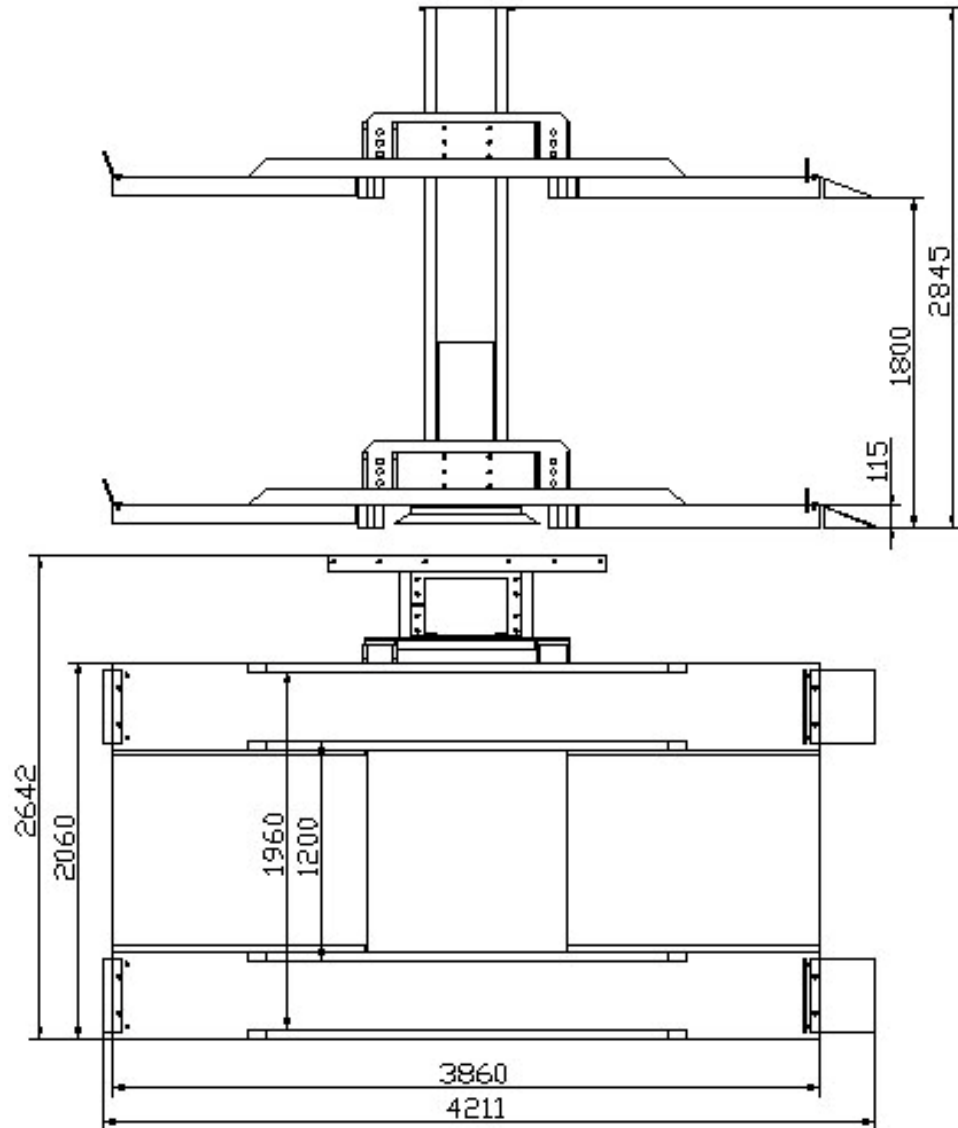
Single post hydraulic parking lift suits for the storing or parking of different kinds of light automobile.

The hydraulic parking lift use the platform to support the car, the length and width of supportive point can be adopted by the platform. Compact structure, less space, light weight and convenient to move.

for steady running; Good quality pump and electronic units, mechanical racks self-lock and hydraulic pressure are adopted, safe and credible; No need the preparation of the basement, place it to the ground is ok.

This machine is composed of host and hydraulic system

2. Main technique parameters



Model: BP2700	Single Post Parking Lift
Lifting capacity	2700Kg
Lifting height	1900mm
Total height	2845mm
Lifting time	55-60s
Motor power	2.2kW
Power supply	See Motor
Rated oil pressure	20MPa
weight	1100Kg
Noise level	70dB uncertain 4dB

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STORAGE

Packed machinery must always be kept in a covered, protected place, at a temperature between -10°C and $+40^{\circ}\text{C}$ and must not be exposed to direct sunlight.

OPENING THE CRATES

When the crates arrive, check that the machine has not been damaged during transport and that all parts listed are present. The crates must be opened using all possible precautionary measures to avoid damaging the machine or its parts. Make sure that parts do not fall from the crate during opening.

DISPOSAL OF CRATES

The wood of the crates may be reused or recycled.

3. TRANSPORTATION

For transport easily, the PACKAGE are bolted together with BELT, and control unit is packed into a plywood case. It must be moved by suitable capacity forklift truck at the middle of package.



Moving and positioning operation can be very dangerous if not performed with the utmost caution. Check the integrity and suitability of the available means.



ALL PACKING, LIFTING, HANDLING, TRANSPORT AND UNPACKING OPERATIONS ARE TO BE PERFORMED EXCLUSIVELY BY EXPERT PERSONNEL WITH KNOWLEDGE OF THE LIFT AND THE CONTENTS OF THIS MANUAL

The PACKAGE may be lifted and moved with a lift truck (Fig.1). If either of the latter two is used, crates must be harnessed with at least 2 slings.

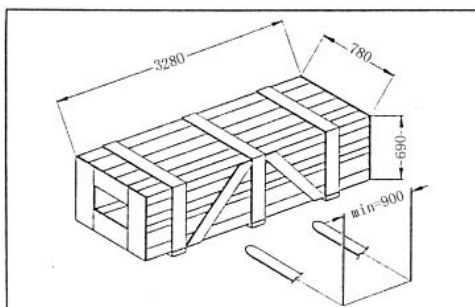


Fig.1

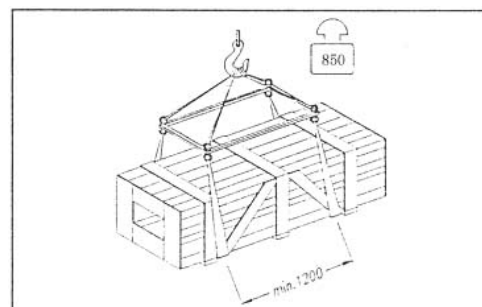


Fig.2



The equipment chosen must be suitable for safe lifting and moving, bearing in mind the dimensions and weight.

4. UNPACKING

Check that the equipment is in perfect condition, making sure that no parts damaged or missed. Use below figure for reference. If in doubt, do not use the machine and contact your retailer.

5. Installation and testing

i. Environment conditions

Operating Temperature	+5□ to +40□
Storage Temperature	-25□ to +55□
Shipping Temperature	-25□ to +70□
Altitude	If >1000 meters above sea level, derate Motor Power rating by 1% per 100 meters to a maximum of 4000 meters
Humidit	Maximum 85% relative humidity at 40□ non-condensing
Atmosphere/	Non-flammable, corrosive and dust free
Electromagnetic compatibility (EMC)	The equipment is manufactured with conformity to Electromagnetic compatibility (EMC);
Ambient light	>30LUX, >300

ii. Take out the machine from the packing and place it on the ground, then connect the oil tube of the hydraulic station to the cylinder.

iii. Fill the hydraulic oil
Fill 10 liters of hydraulic oil into oil box (hydraulic oil provided by user).

iv. Power connecting

The machine shall be connected to electrical power supply

The external power cable shall be connected the terminal in electrical box with marked as L1/L2/L3.

Make sure: the PE wire is surely connected the cross area of the PE wire shall be not less than the cross area of phase

v. Adjust the machine

Turn on power supply, press “UP” button UP to 100~200mm, then press “down” handle. Redo it for 4-5 times, and add the height 100-200 each time. That can be use if it runs normally.

6. Maintenance



Turn off and lock the main switch before servicing the lift.



The maintenance intervals indicated below apply to average workshop use. The lift should be inspected more frequently for severe use applications. The maintenance working must be done by authorized and competence person

6.1 Maintenance Schedule

Establish a periodic preventive maintenance procedure to ensure trouble free operation and long service life.

Interval	Maintenance to be performed on	Items
1 week	Support platform	<input type="checkbox"/> Check platform restraints for engagement.
6 months	Greasing points	<input type="checkbox"/> Check and lubricate as required: – Slide tracks
	Nuts of anchor bolts	<input type="checkbox"/> Check all nuts for correct torque and retighten them as required.
12 months	Hydraulic system	<input type="checkbox"/> Check fluid level. <input type="checkbox"/> Check tightness of hoses and fittings.

- 1) Add oil with oil pot each week on all branch hinge axes of this machine.
- 2) Up and down wheels should be kept clean, added lubricant.
- 3) Change hydraulic oil once a year. Clean the oil box and oil filter while changing oil. Keep oil level on upper limit for long time.

7. Operation

Hydraulic parking lift operation by authorized personnel over 18 years only.

Apply the parking brake after positioning the vehicle on the lift.

Do not allow anyone to stay in lift area during raising and lowering cycles.

Closely watch the vehicle and the lift during raising and lowering cycles.



Observe the rated load capacity and load distribution.

Do not allow anyone to climb on hydraulic parking lift or stay inside vehicle.

After raising the vehicle briefly, stop and check platform for secure contact.

Once the vehicle located on platform, check platfor restraints for engagement. Make sure the vehicle doors are closed during raising and lowering cycles.

Remove obstacle around before working.

Weight of lifted car should not be over the lifting capability.

Before lifting, please set well the car's manual handle; underlay the slip protective plastic board.

Be attentive while ascending or descending. Stop the machine if any abnormality, check and exclude failure.

When equipment is not under work, descent it to the lowest position, and turn off power supply.

When the vehicle lifted to desired height, lower the weight onto the mechanical locking

7.1 Defects / Malfunctions



In case of defects or malfunctions such as jerky lift movement or deformation of the Superstructure, support or lower the lift immediately.

Turn off and padlock the main switch. Contact qualified service personnel.

Defects / Malfunctions must be fixed by competence person

During operation

- (1) *Checking the motor power is installed properly.
- (2) *Checking all the connection bolts are fastened.

Note:

▲ Don't operate the lift with damaged cables or damaged or missing part until it is inspected and repaired by professionals.

7.2 Controls**7.2.1 Control Unit**

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The main switch is used as emergency switch. In case of emergency turn it to position 0.

Main switch in light is off : Power supply is interrupted

Main switch in light is on: Lift is ready for operation



Lifting the vehicle

- (1) Keep work area clean,don't operate the lift in cluttered work area.
- (2) Press start button to lift the vehicle ,ensure the load balance, and then raise the lift to the required height.
- (3) Release the UP button and the carriage will stop.

Stop for Parking the vehicle

- (4) Press Lock button for locking the lift to a safety postion. Only after Locking the Lift in Parking Postion, it is safety for parking.

Note:

*Before lifting the vehicle,check all the hydraulic hose and fittings ports for oil leakage. In case of leakage,pls don't operate the lift. Remove the leakage fitting ports and re-seal. Re-install the fitting and check if oil leakage still exists.

Lowering the vehicle

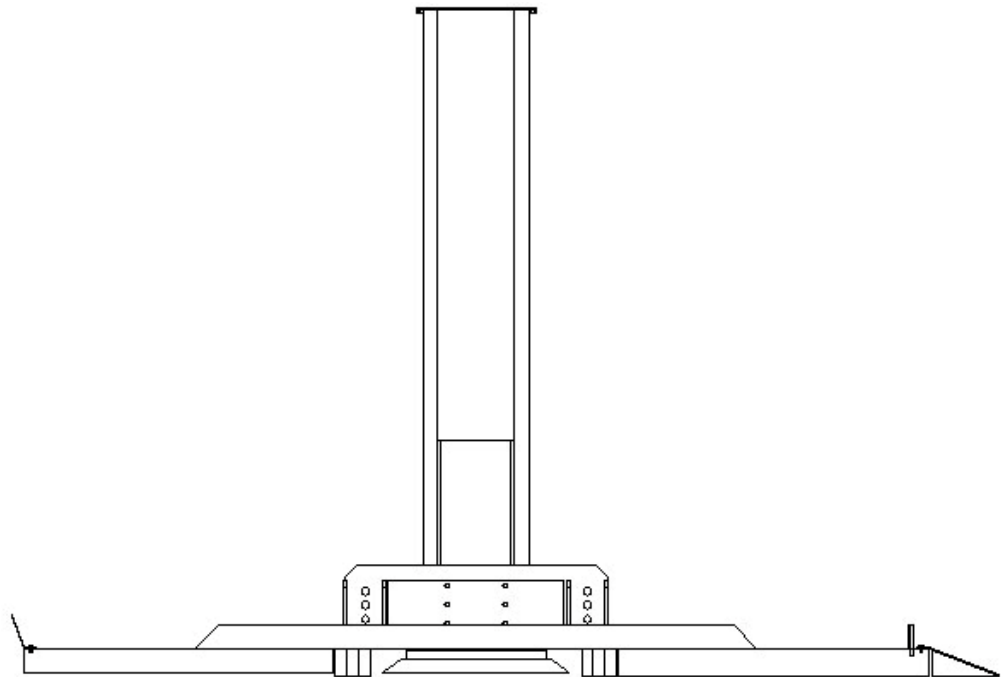
- (5)Clean the work area before lowering the vehicle.
- (6)Press the Down button, slipway was released the safty lock automatically.
- (7)Lower the vehicle till the swing arm down to the bottom and depart the lifting point, release down button when it down to bottom.

Note:

- ▲ When the lift no need to work, you must switch off the power.

7.3 Operation

7.3.1 Preparations



- 1 Fully lower the lift platform.
- 2 Slowly drive vehicle into the platform.
- 3 Press Up button for lifting .
- 4 Fix the rear wheel tailgates.
- 5 Leave vehicle and remain clear of lift.
- 6 Must Press Lock button for locking the lift position for Parking vehicle. Then would safety.
- 7 Press Down button for lowering the vehicle to lower positon, if for parking, Must press Parking button again.

7.3.2 Raising



During raising and lowering cycles: Closely watch the vehicle and the lift, do not allow anyone to stay in lift area and make sure the vehicle doors are closed.

- 1 Turn the main switch to the light on.
⇒Lift is ready for operation.



- 2 Push and hold UP button until lift reaches desired height.
⇒Lift stops once button is released or upward travel limit is reached.



7.3.3 Vehicle in Raised Position

- Observe all accident prevention regulations.
- Do not allow unauthorized persons to stay under the raised vehicle.
- Avoid rocking of vehicle.
- Keep lift free of tools, parts, etc.

7.3.3 Set on mechanical Locks



Press Lock button to set the lift on the mechanical locks.
In this way the lift can be securely fixed when the vehicle is in a raised position.

Note:

please always make sure the weight is supported by the mechanical lock when the hydraulic parking lift is lifted to desire height

7.3.4 Lowering



During raising and lowering cycles: Closely watch the vehicle and the lift, do not allow Anyone to stay in lift area and make sure the vehicle doors is closed.

7.4 Protection against Unauthorized Usage

When turn off the light position , the main switch can be protected against tampering by means of a padlock.

8. Troubleshooting

Failure	Cause	Solution
Engine doesn't rotate	<input type="checkbox"/> Bad contact of wires	Check and joint the wires
	<input type="checkbox"/> contact device doesn't work	Check or change contact device
	<input type="checkbox"/> bad action of limited switch	Adjust or change limited switch
Engine rotates but not ascend	<input type="checkbox"/> have dust in the center of the electromagnetism valve	Check the electromagnetism valve and clean it
	<input type="checkbox"/> the line pole is loose	Fix it
	<input type="checkbox"/> falling short of hydraulic oil	Makeup hydraulic oil
The ascend speed is slow	The oil seal hole is leak	Change the oil seal
Shake in the running	Air in the hydraulic pressure loop	Release the air by redo the ascend and decent
	Air leak at the top connect oil tube mouth of the pump	Check the seal of the oil tube mouth
	Filtrate net is jam	Clean it
Only ascend ,can not descend	<input type="checkbox"/> electromagnetic damage	Check it and mend it
	<input type="checkbox"/> connect invalidation in the button	Check the button
	<input type="checkbox"/> electromagnetic valve blocked	Check or change electromagnetic valve
	<input type="checkbox"/> descending electromagnetic valve unopened	Check or change electromagnetic valve
	<input type="checkbox"/> hydraulic oil too dense (in winter)	Add oil according to the manual
Oil leak	Loose tie-in	Screw the tie-in
	Mangled oil seal on tie-in	Change oil seal

9. Electrical Systems

