Your safety ourstandards

Installationand service manual

READ FIRST



FOUR-POST PARKINGLIFT

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I. PRODUCT FEATURES ANDSPECIFICATIONS

4-POST MODEL

- Single point manual safetyrelease.
- Four mechanical locking devices, each equipped with bothprimaryand secondly safetylocks.
- Powerside column can be installed at both side, front orrear.
- Non-skid diamond platforms and adjustable safety lockladders.
- Optional kits: Sliding jack with hand pump, Mobile set, Jack tray



Fig.	1
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LiftingCapa city	Lifting Height	Lifting Time	OverallLe ngth(Inc. Ramps)	OverallWidth	WidthBe tweenColu mns	Gross Weight	Motor
5T (11000lbs)	2140mm (84.25)	83S/ 40S	5835mm (229.73″)	3471mm(1 36.66″)	2865.5m (112.81″)	960kg	110V

II. INSTALLATIONREQUIREMENT

A. TOOLSREQUIRED



B. SPECIFICATIONS OF CONCRETE (See Fig.3) Specifications of concrete must be adhered to the specification asfollowing.Failure to do so may result in lift and/or vehiclefalling.

1. Concrete must be thickness 100mm minimum and without reinforcing steel

bars, and must be dried completely before the installation.

- Concretemustbeingoodconditionandmustbeofteststrength3,000psi(210kg/cm²)minim um.
- 3. Floors must be level and nocracks.



The electrical source must be 2.2KW minimum. The source cable size must be2.5mm²and in good condition of contacting withfloor.

III. STEPS OFINSTALLATION

A. Check the parts beforeassembly

1. Packaged lift and Hydraulic Power Unit (See Fig.4).



2. Opentheouterpackingcarefully(SeeFig.5).



Fig.5(Note: Parts may be located in different parts in different batches) 3. Take off the drive-in ramps and The platform above(**SeeFig.6**).



4. Loosenthescrewsoftheupperpackagestand,takeofftheoffsideplatform,takeouttheparts inside the pack, then remove the packagestand.

5. Move aside the parts and check the parts according to the shipment partslist







Fig.8

6. Check the parts of the parts bag (See Fig.9).



B. Use a carpenter's chalk line to establish installation layout as perTable1Make sure the size is right and base is flat (see Fig.10)

Note: Reserve appropriate space in front and behind the installationsite.



5T	Α	В	С
	5019mm	3204mm	5954mm
51	197.6″	126.14″	234.41″
		S	

C. Install cross beams (See Fig.11, Fig.12).

Note:Payattentionthatthecrossbeam'sslotshouldbepositionedtowardsinwardandthe safety locks connecting assy. should be adjacent to the power unitcolumn.



D. Install the SafetyLadders.

adjustthefourlowernutssotheyareatthesameposition.Theninsertthesafetyladder(See Fig.13).



2. Install Safety Ladders (See Fig.14)



Safety ladder pass through the hole ofthetop plate, then tighten the twonuts

E. Raise the cross beams at the same height and lock them on the safetyladders (See Fig.15).



The lifting cross beamheightshould be fitted forinstallingthe platform and its parts. 1m height isrecommended.

.

F. Install power sideplatform.

 Raisethepowersideplatformabovethecrossbeambyaforkliftorcrane.Thenmovethecrossbea moutwardsuntilthepulleysofbothplatformscanberestedintothecrossbeams'slots (see Fig.16). Tighten the Powerside Platform to the Cross beams by usingbolts.



Illustration for front pulleyinpowersideplatform

2. Install the tire stopplate and connecting bolts: Tighten the platform and the cross beam

1with bolts. Tighten the tire stop plate , platform and cross beam **2**withbolt.

Note: Install the tire stop plate on the drive- in position . And the bolts for connecting with tire stop plate is longer, pay attention when choosing the bolts. (See Fig.17) Instruction : 1) This lift is designed to be driven in at any position according to the space.

Below is the instruction for the drive -in position on cross beam 1. If it is chosen to be driven in from cross beam 2, install the tire stop plate to the other side only.

 $\label{eq:2} 2) Powers ide column can be installed at any position accordingly. But the power unit must always be in the power of the$

nstalled adjacent to the safety lock release handle. Pay attention to direction

when installed the safety lock release handle, power unit and hydraulicsystem.



G. Installtheoffsideplatformandlimitslideblock, and platformstrengthenbolts. Check the verticality of columns with level barandadjust with shims. (See Fig. 18)



H. Illustration for Wire Ropeinstallation

1. Route theWire Rope from the powerside platform via the pulleys according to thenumberbelow and then connect them to thecolumns.



2. The cable goes through the cross beam to column topplates and tightened with cable nuts (See Fig.20)



3. Illustration for cables under platform . (See Fig.21)



I. Install release handle assy. (See Fig.22)

Noted: Power unit must be installed near the safety releasehandle.



J. Install power unit and connectingtube (See Fig.23).Noted:

Power unit must be installed near the safety releasehandle.**1.**Install Power unit on the cross beam**A**



M8x35, hexagon socket head bolts are used to secure the connecting pipe and connecting rod of the safety device

K. Install HydraulicSystem(See Fig.24)



L. Install the control box(See.Fig.25) (Electric control box is optional)





Note: When the cross beam goes to high est place, the cross beam slide block to uched the high limits witch drive barand the liftst oprising.



N.Install spring and beam safety cover of cross beam (See Fig.27).



N. Install drive-in ramp, optional jack tray and optional oil pans (SeeFig.28). then attach thedrive-inramp.



O. Install front wheel platform baffles(See Fig.29)



Fig.29

- P. For optional kitsinstallation.
- 1. Install optional caster kits or jack(asembly body)-----optional(See Fig.30)



2. Install motor fixing bracket (See Fig. 31)





Q. Fix the anchorbolts



1.2Adjustthecolumnwiththelevelingbarandlevelingpad,drilltheanchorholeandinstallthe anchor bolts. Tap the anchor bolts into the anchor hole with a hammer and tightenthebolts.(See**Fig.33**)









Detail table of main crossbeam decomposition

Secondary Crossmember



Analytical List of sub-crossmember

List of other machine parts $\ (\mbox{Refer to the text breakdown diagram})$





Motor drawing and part list



Nos.	Name	Quantity
11	Filter	1
12	Socket bolt	4
13	oil storage tank	1
14	Oil REtum PiPe	1
15	Buffer Valve	1
16	Throttle valve	1
17	Release valved	1
18	Handle for release valve	1
19	Check valve	1
20		

Nos.	Name	Quantity
1	Iron motor	
2	Motor connecting shaft	
3	Valve block blockage	
4	Overflow valve	
5	Valve Body	
9	O-Ring	
7	Valve Body Bolt	
8	Gear Pump	
6	Gear Pump Bolt	
10	Oil Inlet Pipe	

V. TESTRUN

- 1. FillthereservoirwithHydraulicOil
- 2. PressbuttonControl box ↑
- tillthecablesarestrained.Checkthecablesandconfirm

theyarein the proper pulley position. Make sure the cables are notacross.

3. When the Power Unit pressure relief valve is pressed down,

the cross beam will be locked to thesa fetyladders and the nadjust the platforms to be level by a djusting the nuts of safety Ladder. Tighten the nuts above and under the safety ladder top plate after leveling.

- 4. Adjustthecablefittinghexnutstomakeplatformsandfoursafetylocksworksy nchronously.Youneedtoruntheliftupanddownforseveraltimes,meanwhiled othesynchronous adjustment till the four safety devices can lock and release at thesametime.
- 5. After finishing the above adjustment, test running the lift with load. Run the lift with

platforms in low position first, make sure the platforms can rise andlowersynchronouslyandthesafetydevicecanlockandreleasesynchrono usly.Andthentestrunthelifttothetopcompletely.

6If there are anything improper, repeat the above adjustmen.