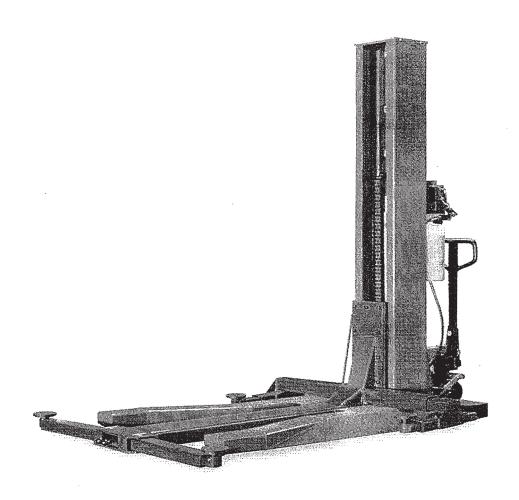
Mobile Single Column Lift

INSTALLATION AND OPERATING INSTRUCTIONS



Important!

Be sure to read the operating instructions before operating your lift!

Getting Ready

Make sure you have made all necessary measurements to assure that your lift will fit in your shop / garage and accommodate the car you intend to lift with it. Make sure you have enough clearance at the top, and enough width to allow walking around. And make sure he knows what the circuit requirements are (220 volt, single phase, 30 amp).

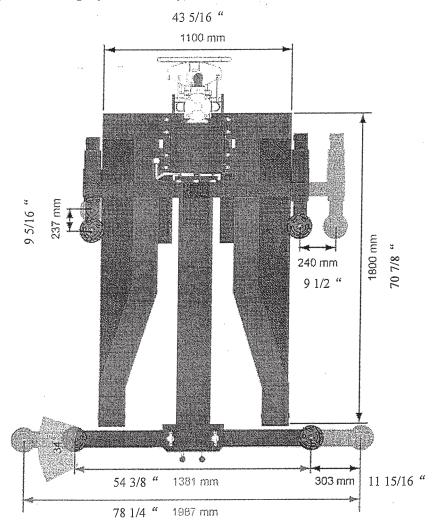


Fig. 1

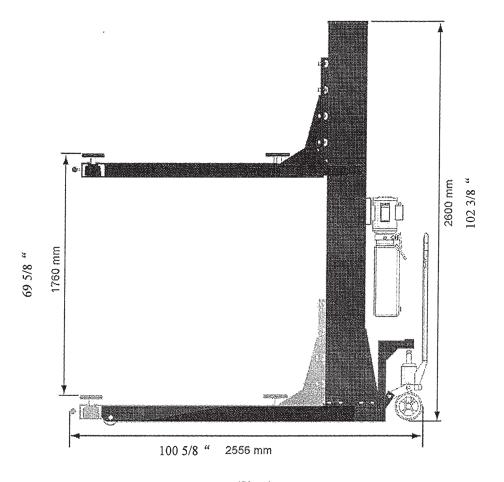


Fig. 2

Make sure you have someone to help you. The pieces to this lift are big, heavy, and cumbersome. The lift column weighs about 320 pounds by itself. Base plate and arms all weigh a couple of hundred pounds apiece. It is possible for two people to install this lift if they have the appropriate lifting and handling equipment, but it is definitely easier and faster if there are several people available to help manhandle the pieces into place. As with any activities involving big heavy materials, safety must be uppermost in your mind. This lift is more difficult to install than some of our other units because of its one-post design, but this very design makes it extremely effective for shop and residential garage use. With proper preparation and installation, you will be very pleased with this lift.

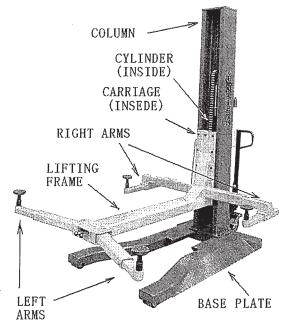


Fig.3A

Required Tools

- 1. Fork Lift to unload lift on delivery
- 2. Fork Lift and/or engine hoist for moving pieces and positioning lift column. You will also need a ten-foot length of 3/8" chain
- 3. 1 and 5/16" wrench and socket with ratchet
- 4. 1 and 1/8" socket and extension
- 5. ½" wrench
- 6. 11/16" wrench
- 7. Adjustable wrench
- 8. Small crowbar or large screwdriver for aligning bolt holes
- 9. Pliers
- 10. Flat blade screwdriver

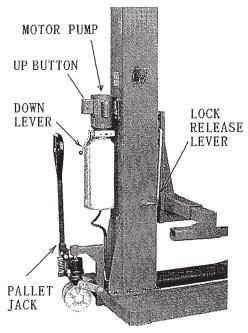


Fig. 3B

Receiving and Handling

When you receive your lift, it will come banded to one package, and you will need a forklift to unload it.

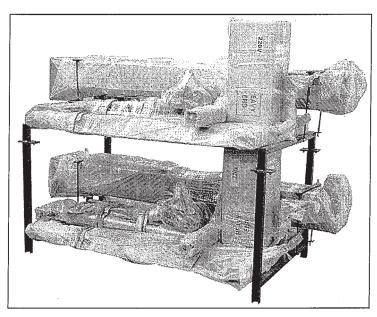


Fig.4 two lift in one packing

Installation

You will need common hand tools that most homeowners have, like a hammer, screwdrivers and pliers, but in addition, you will need some tools that are not common. Each installation is somewhat different, and depends on how much room you have to work around the lift. Here is a chronological sequence of installation steps, with the associated tools.

1 Unloading the lift

You'll need a forklift that can handle about 2000 to 2300 pounds and operate on a smooth surface.

2 Un-banding the lift

The steel bands which secure the lift parts to the pallets are heavy duty. You'll need a pair of metal shears or tin snips to cut the bands. Be very careful when doing this because the bands will tend to fly apart when they are cut, and the heavy lift parts may shift when freed from the bands. Stand to the side of the bands when you cut them, and use gloves when removing the cut bands because they have sharp edges.

3. Moving pieces

You can move the pieces to the garage with the forklift. Some of the smaller pieces can be moved by two or more people carrying themt. If you have several people helping, some of the larger pieces can be moved manually.

STEP 1

The first step is to take off the board and bracket for shipping. (Fig. 5) Please take out every pieces. Put the base plate on the ground. (Fig. 6)

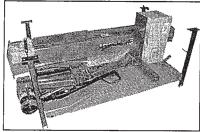


Fig. 5

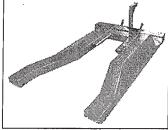


Fig. 6

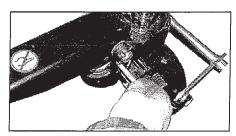


Fig. 7

STEP 2

Take out the lock pin on the pallet jack (Fig. 7). Put the steel ball on the top of the jack ram(Fig. 8).

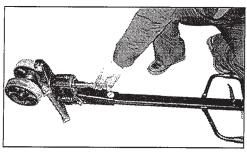


Fig. 8

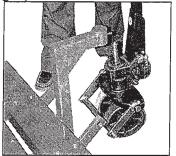
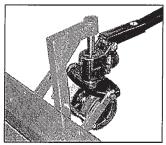


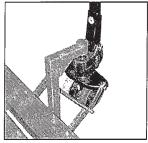
Fig. 9

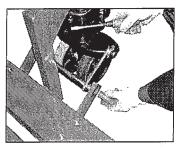


Fig.10

Insert the ram into the hole of the base plate (Fig. 9). Lock the ram by socket balt (Fig. 10). Adjust the length of the ram (Fig. 11 & 12).

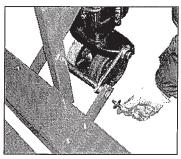


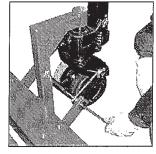




Then the

Fig. 11 Fig. 12 Fig. 13
Put the slot of the bearing into the bracket (Fig. 13) then lock it by bolt (Fig. 14 & 15) base plate with palle jack is ready (Fig. 16). Fig. 12





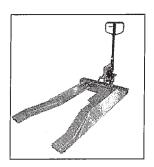
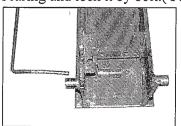


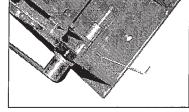
Fig. 14

Fig. 15

Fig. 16

STEP 3 Take out the carriage and the lock release handle (Fig. 17). Insert the end of handle intyo the bearing and lock it by bolt. (Fig. 18 & 19)





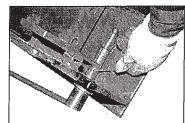
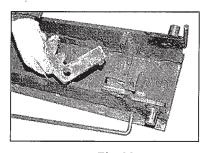
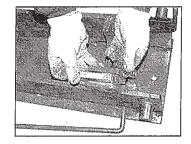


Fig. 17

Fig. 18

Fig. 19





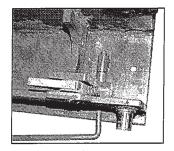
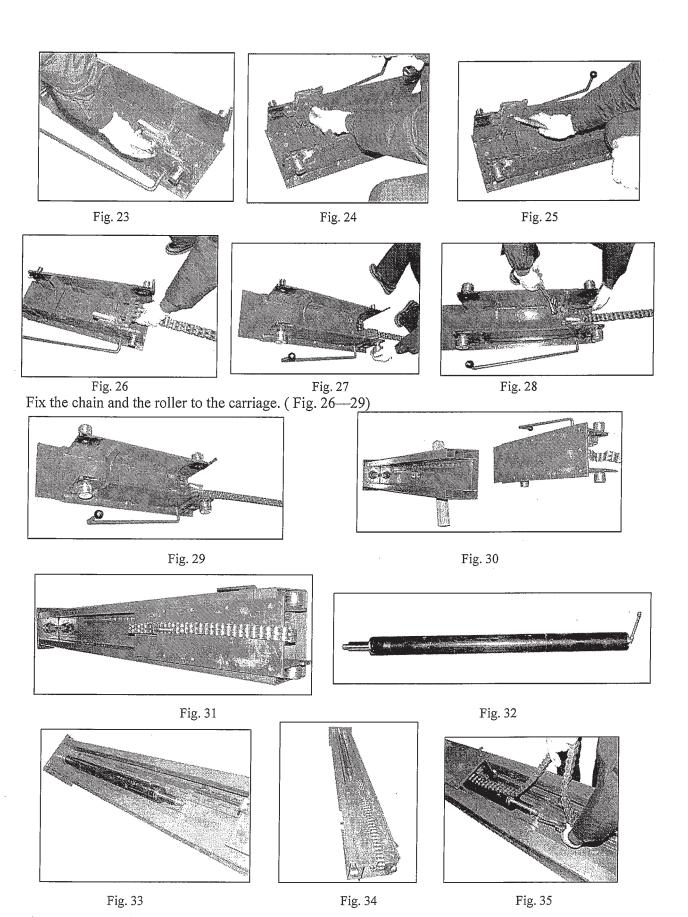


Fig. 20

Fig. 21

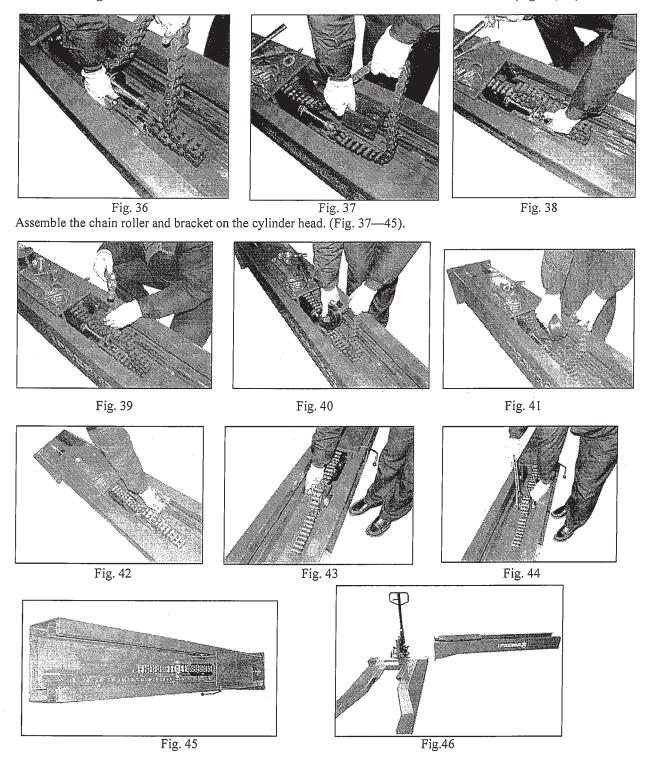
Fig. 22

Assemble the latch lock release handle and spring as in Fig (20—25)



STEP 5

Put the carriage into the column (Fig. 30, 31)
Put the cylinderinto the column also (Fig. 32—34), Be careful that the oil tube should be in the hole on the back..
Slide the carriage to the bottom of the column. Fix the another end of the chain to the column. (Fig. 35, 36)



STEP 6 Upright the column and then fix it on the base plate with bolts (Fig. 46—49)

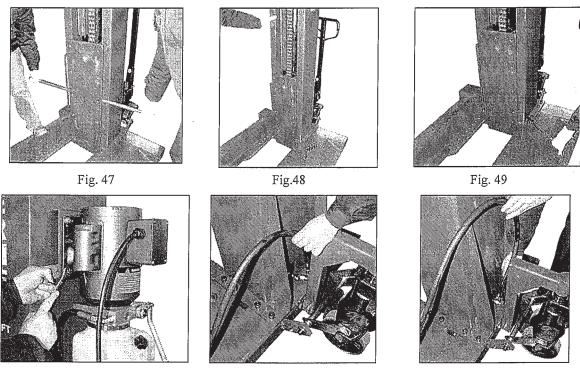


Fig. 50 Fig. 51 Fig. 52
Put the hydraulic motor pump on the column side with bolts and nus. (Fig 50)

Connect the hose to the cylinder and the motor pump using the hose fitting. (Fig. 51-54)

Now you need to get the correct plug installed on the power cord. Your lift will come with a cord attached to the motor pump, but because there are so many receptacle variations, you will need to install the proper plug on the end of the cord. If you are not sure which plug to use, consult your electrician

Remove the rubber cap from the top of the reservoir. Fill the reservoir with 32 AWS hydraulic oil to near the top

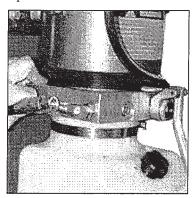


Fig. 53

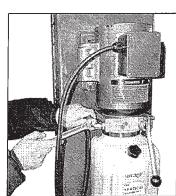
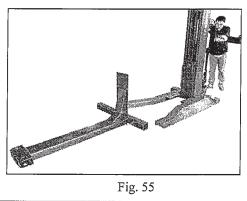
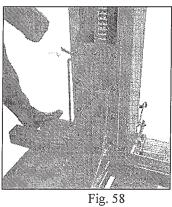


Fig.54

STEP 7
Put the lifting frame infront of the base plate. Than fix the frame onto the carrige with bolts. (Fig. 55—58)





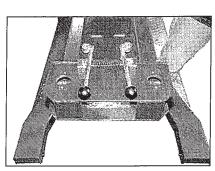
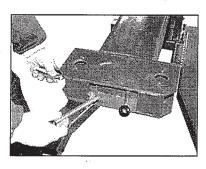


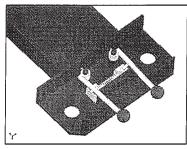
Fig. 57

58 Fig. 59

Fig.56

STEP 8 Find out the left arm lock parts (Fig. 59) Assemble them in the frame end. (Fig. 60-63)





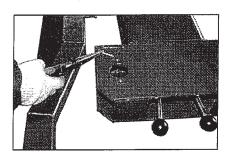
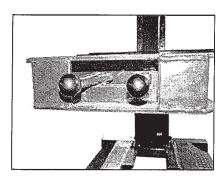
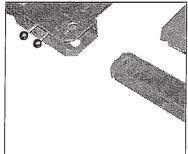


Fig. 60

Fig. 61

Fig. 62





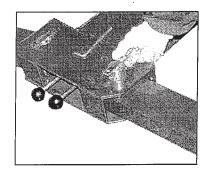
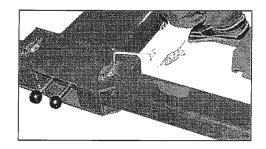


Fig. 63

Fig. 64

Fig. 65

Assemble the left arms to the frame also. (Fig 65—68)



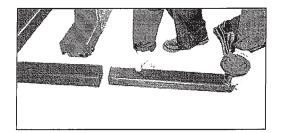
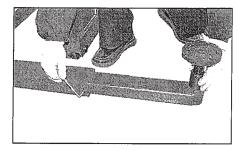


Fig.66

Fig. 67





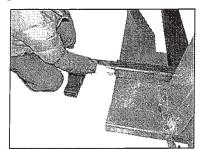
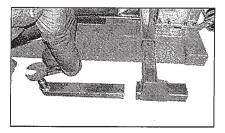
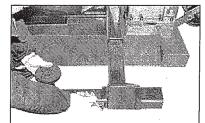


Fig. 68 Fig. 69 Put the right arms and extentions to the frame too. (Fig. 69 - 72)

Fig. 70





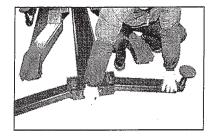


Fig. 71 Fig. 72 Again check the lock of the left arms (Fig. 73) Now the lift is ready.

Fig. 73

OPERATING INSTRUCTIONS

The lift is very simple to operate. The black button on the control unit is pushed in and held to activate the switch which turns the electric motor on (Fig 74). The motor operates an internal pump that forces hydraulic oil into the lift piston, which extends the roller chain and raises the lift. As the lift rises, an internal safety latch will pass over the steel stops (rectangular blocks which protrude from the back, inside of the lift column), and you will hear "clanks" as it does so. This sound is normal, and indicates that the safety latch is passing over the stops properly. The lift is raised to the desired height by holding the button in while it is rising, and releasing the button when the lift has reached its desired position. To lower the lift, you must depress the red-handled release valve, at the same time as you pull out and hold the safety latch lock release lever (Fig. 75). The weight of the lift will cause the lift to lower by gravity. No power is required to lower the lift, but the safety latch must be disengaged to allow the lift to lower past the stops. Occasionally the lift may be resting on a stop, which prevents the safety latch from being disengaged. When this happens, simply press the "up" button momentarily, to "bump" the lift upwards slightly, which takes the weight off of the safety latch. Now you can pull the release lever, and again depress the release valve handle to lower the lift. The safety stops do not engage at lower levels, so you do not have to pull the safety latch cable to lower the lift when it is close to the floor. After the

installation is complete, raise the lift about two feet and then lower it. Repeat this process two or three times, and then top off the hydraulic oil reservoir again, if necessary. This assures that hydraulic oil is distributed everywhere in the system that it needs to be.

NOTE: Only top off the reservoir with the lift in the "down" position. If you fill the reservoir in the "up" position and then lower the lift, there will be too much hydraulic oil in the system, and it will squirt out of the top of the control unit.

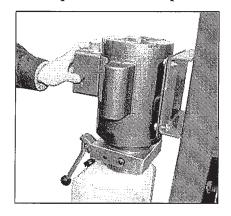


Fig. 74

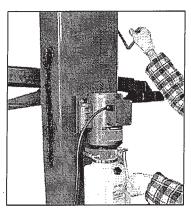


Fig. 75

RAISING A VEHICLE

Drive the vehicle onto the ramps until it is about centered. Set the parking brake. Move out the arms to make the rubber pad under the support position of the vehicle frame. Depress the "up" button to raise the vehicle a little (Fig. 76). Check again all the arms to make sure everything is in safe. The N lift up the vehicle to desired height. (Fig. 77)

BE CAREFUL NOT TO RAISE THE VEHICLE SO HIGH THAT IT STRIKES THE CEILING! MAKE SURE ANTENNAS ARE REMOVED, IF NECESSARY, AND BE AWARE OF ANYTHING THAT PROTRUDES FROM THE CEILING, LIKE LIGHTBULBS, GARAGE DOOR OPENERS OR DOOR TRACKS.

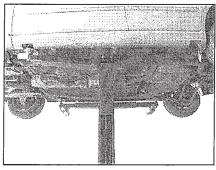


Fig. 76

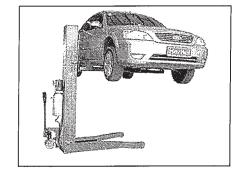
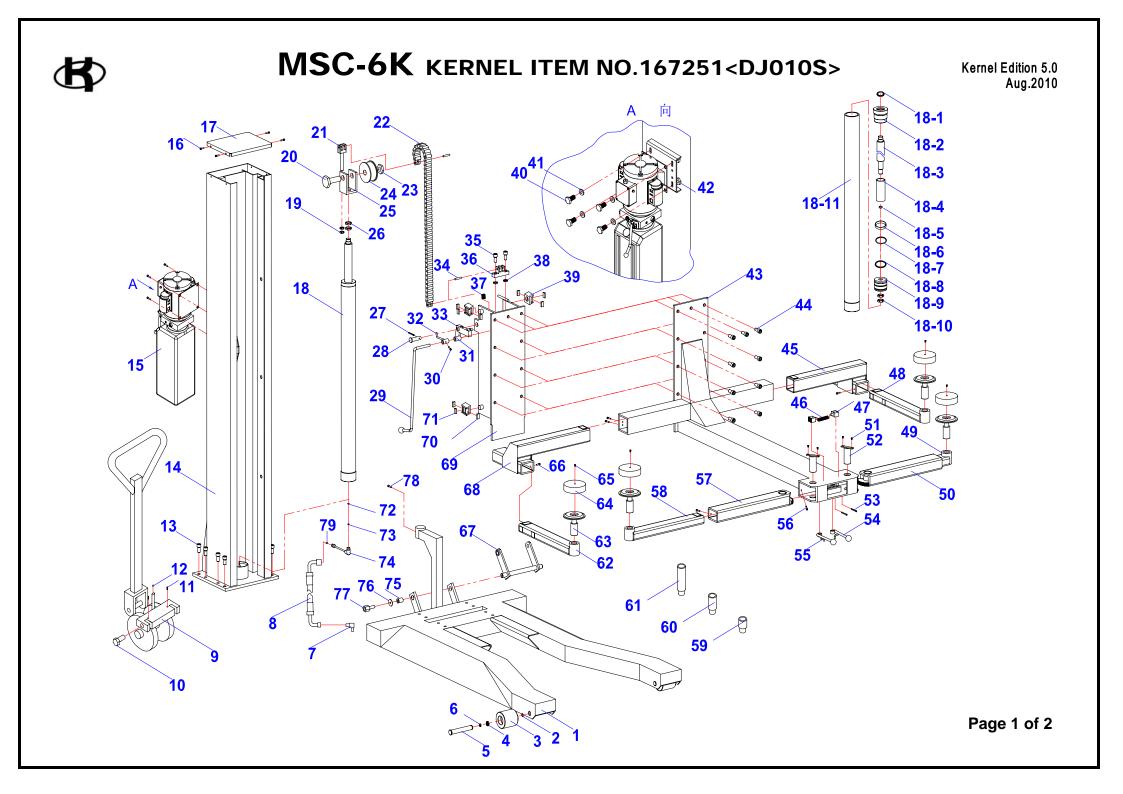


Fig. 77

MISCELLANEOUS

The hydraulic oil should be replaced every two years, and the inside corners of the lift leg should be re-greased with a general-purpose axle grease every year, or so, as it becomes obvious that it needs it.



MSC-6K KERNEL ITEM NO.167251<DJ010S>

Kernel Edition 5.0 Aug.2010

Spare Parts List

ITEM	CODE	DESCRIPTION	QTY	ITEM	CODE	DESCRIPTION	QTY
1	167251*01-001	Base plate	1	21	167251*01-021	Position bar	1
2	167251*01-002	Elastic washer	4	22	167251*01-022	Chain ass'y	1
3	167251*01-003	Pulley	2	23	167251*01-023	Nut	1
4	167251*01-004	Bearing	4	23-1	167251*01-023-1	Washer	1
5	167251*01-005	Spindle	2	24	167251*01-024	Wheel	1
6	167251*01-006	Bushing	4	25	167251*01-025	Wheel basement	1
7	167251*01-007	Direct fitting	1	26	167251*01-026	Nut	2
8	167251*01-008	Hose	1	27	167251*01-027	Spilt washer	1
9	167251*01-009	Dolly	1	28	167251*01-028	Spindle	1
10	167251*01-010	Pin	2	29	167251*01-029	Safety handle	1
11	167251*01-011	Elastic pin	2	30	167251*01-030	Bolt	1
12	167251*01-012	Ball bearing	1	31	167251*01-031	Bushing	1
13	167251*01-013	Bolt	8	32	167251*01-032	Swing pole	1
14	167251*01-014	Column	1	33	167251*01-033	Swing arm	1
15	167251*01-015	Power Unit	1	34	167251*01-034	Chain spindle	2
16	167251*01-016	Bolt	4	35	167251*01-035	Bolt	2
17	167251*01-017	Cover	1	36	167251*01-036	Position bar	1
18	167251*01-018	Hydraulic cylinder ass'y	1	37	167251*01-037	Spring	1
*18-1	167251*01-018-1	Dust ring	1	38	167251*01-038	Nut	2
18-2	167251*01-018-2	Guide ring	1	39	167251*01-039	Nylon wheel	4
18-3	167251*01-018-3	Piston rod	1	40	167251*01-040	Bolt	4
18-4	167251*01-018-4	Sheath	1	41	167251*01-041	Flat washer	8
*18-5	167251*01-018-5	O ring	1	42	167251*01-042	Nut	4
*18-6	167251*01-018-6	Guide ring	1	43	167251*01-043	Hoist ass'y	1
*18-7	167251*01-018-7	O ring	1	44	167251*01-044	Bolt	9
*18-8	167251*01-018-8	U ring	1	45	167251*01-045	Direct beam(Right)	1
18-9	167251*01-018-9	Piston	1	46	167251*01-046	Spring	1
18-10	167251*01-018-10	Nut	2	47	167251*01-047	Cog-wheel	2
18-11	167251*01-018-11	Cylinder	1	48	167251*01-048	Moving direct beam(Right)	1
19	167251*01-019	Nut	2	49	167251*01-049	Right Arm	1
20	167251*01-020	Spindle	1	50	167251*01-050	Support	1

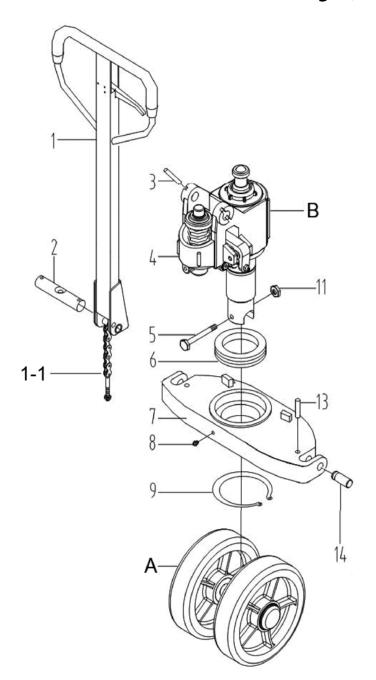
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51	167251*01-051	Screw	4
52	167251*01-052	Pin	2
53	167251*01-053	Elastic pin	2
54	167251*01-054	Handle(Right)	1
55	167251*01-055	Handle	1
56	167251*01-056	Bolt	2
57	167251*01-057	Support	1
58	167251*01-058	Left Arm	1
59	167251*01-059	Spindle	4
60	167251*01-060	Spindle	4
61	167251*01-061	Spindle	4
62	167251*01-062	Moving direct beam(Left)	1
63	167251*01-063	Bolt ass'y	4
64	167251*01-064	Rubber washer	4
65	167251*01-065	Screw	4
66	167251*01-066	Bolt	8
67	167251*01-067	Support	1
68	167251*01-068	Direct beam(Left)	1
69	167251*01-069	Sliding support	1
70	167251*01-070	Slide Block	8
71	167251*01-071	Slide Block	4
72	167251*01-072	Elastic washer	1
73	167251*01-073	Washer	1
74	167251*01-074	Connection hose	1
75	167251*01-075	Bushing	2
76	167251*01-076	Flat washer	2
77	167251*01-077	Bolt	2
78	167251*01-078	Bolt	1
79	167251*01-079	O ring	1

^{*} Easily Worn Parts



Dolly (167251*01-009)

Kernel Edition 1.0 Aug.2010



Spare Parts List

ITEM	CODE	DESCRIPTION	QTY
1	Dolly*01-001	lug	1
1-1	Dolly*01-001-1	chain kit	1
2	Dolly*01-002	spindle	1
3	Dolly*01-003	elastic pin	2
4	Dolly*01-004	hydraulic pump	1
5	Dolly*01-005	screw	1
6	Dolly*01-006	bearing8111	1
7	Dolly*01-007	support plate	1
8	Dolly*01-008	gaease fitting M6	1
9	Dolly*01-009	circlip 55	1
11	Dolly*01-011	nut M8	1
13	Dolly*01-013	elastic pin	2
14	Dolly*01-014	Pin	2
Α	Dolly*01-A	big wheel kit	1
В	Dolly*01-B	hydraulic cylinder part	1

^{*} Easily Worn Parts

Page 1 of 3

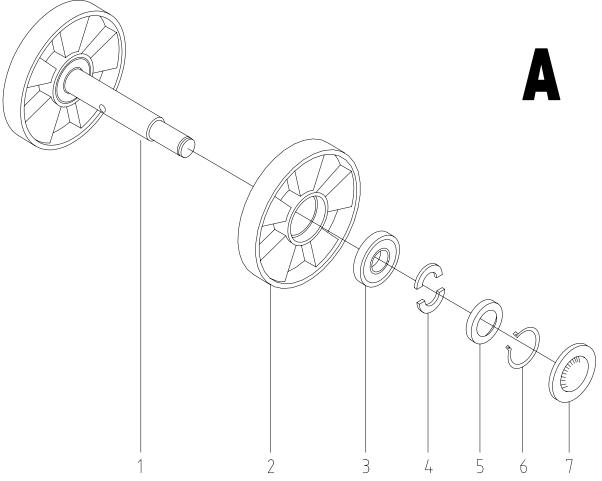
Dolly*01-014 is 167251*01-010

Dolly*01-013 is 167251*01-011



Part B of Dolly (167251*01-009)

Kernel Edition 1.0 Aug.2010



Spare Parts List

ITEM	CODE	DESCRIPTION	QTY
1	Dolly*02-001	front-wheel shaft	1
2	Dolly*02-002	big wheel	2
3	Dolly*02-003	bearing 60204	4
4	Dolly*02-004	half moon ring	4

ITEM	CODE	DESCRIPTION	QTY
5	Dolly*02-005	washer	2
6	Dolly*02-006	circlip	2
7	Dolly*02-007	cover	2

^{*} Easily Worn Parts



Part B of Dolly (167251*01-009)

Kernel Edition 1.0 Aug.2010

-32

Spare Parts List

ITEM	CODE	DESCRIPTION	QTY
1	Dolly*03-001	pump ram	1
2	Dolly*03-002	cap	1
3	Dolly*03-003	spring	1
4	Dolly*03-004	dust-ring	1
5	Dolly*03-005	Y seal ring	1
6	Dolly*03-006	lock pin	1
7	Dolly*03-007	seal nut	1
8	Dolly*03-008	conbined washer	2
9	Dolly*03-009	spring	1
10	Dolly*03-010	valve ram	1
11	Dolly*03-011	valve body	1
12	Dollv*03-012	steel ball	1
13	Dollv*03-013	base	1
14	Dolly*03-014	circlip	1
15	Dolly*03-015	steel ball	1
16	Dolly*03-016	ballseat	1
17	Dolly*03-017	spring	1
18	Dolly*03-018	pressure-adjust Screw	1
19	Dolly*03-019	conbined Washer	2
20	Dolly*03-020	seal Nut	2
21	Dolly*03-021	spring	1
22	Dolly*03-022	rammer	1
23	Dolly*03-023	O ring	1
24	Dolly*03-024	rammer seat	1
25	Dolly*03-025	O ring	1
26	Dolly*03-026	threaded pin	1
27	Dolly*03-027	nut	1
28	Dolly*03-028	lever(option)	1
20	•	foot lever(standard)	1
29	Dolly*03-029	pin	1
30	Dolly*03-030	seal ring	1
31	Dolly*03-031	O ring	1
32	Dolly*03-032	sheath	1
33	Dolly*03-033	O ring	1
34	Dolly*03-034	dust-ring	1
35	Dolly*03-035	shaft	1
36	Dolly*03-036	steel ball	1
* Easily \	Norn Parts	Pan	A 3 Of 3

Dolly*03-035 is 167251*01-012