

# ROLLING LIFT

(Capacity: 2000kgs)

## MODEL QT-2 & MT-2

USER'S MANUAL

(First Edition)



**Important Notices:**

**The lift on which the lift is to be operated must be with suitable lift rail on platforms. This lift rail is for rest and sliding of the rolling lift. Different lift is with different lift rails and only right lift is fit for each one.**

**Failure by the purchaser to apply this lift on not recommended lift, could result in unsatisfactory lift performance, property damage, or personal injury.**

TABLE OF CONTENTS

Daily Maintenance.....	3
Operating Tips.....	3
On Site Assembly Instructions.....	4
Lift Specifications.....	4
Troubleshooting.....	5
Parts Drawings of rolling lift.....	6
Parts Code List.....	7
Parts Drawings of air hydraulic pump .....	8
Parts Code List.....	9

### Daily Maintenance:

1. Insure all bolts are secured and snug with lock washer, nylon lock nuts, or cotter keys.
2. Lift locking mechanism should be lubricated to operated properly.
3. Check locking mechanism for safety.
4. Check cylinders and hose for loose connections and leaks
5. Check oil level in pump reservoir tank.

### Operating Tips:

1. DO NOT attempt to lift more than the units' rated capacity.
2. Lift should only be operated on a level foundation / platforms.
3. Remove any potential obstacles that might impede lift travel.
4. The machine or vehicle that is being lifted should be balanced on the lift.
5. Do not remove heavy components from a rised machine or vehicle without first installing adequate supports .The vehicle may become unbalanced and fall.
6. Lock the frame at heights.

During lifting, when the locking bar's end just pass the safety latch of the height ( Fig.1 ), stop the air-hydraulic pump, then press the releasing lever to lower down the frame. The lift will be lock at the position.



Fig. 1.



Fig. 2



Fig. 3

7. Lower down the frame.  
First to lift up the frame to let the locking bar's end leave the safety latch ( Fig. 2 ), Then by pressing down the safety hook bar at the same time push the releasing lever to lower down the frame. (Fig. 3) and jack can be totally down.

### Note:

1. It is suggested that not to lift heavy load when the frame is at bottom position. The batter way is to lift up the frame about 100 mm high.
2. It is normal the frame lowers down slowly without load.

On Site Assembly Instructions:

1. Put the rolling lift to the platform railways. Fig.4

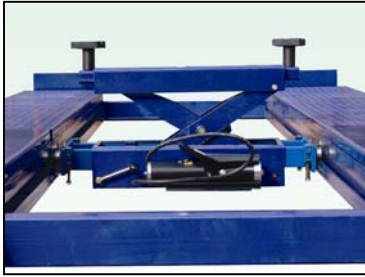


Fig 4.



Fig 5



Fig .6

2. Mount on the anti sliding off angle bar on both ends.. Fig.5
3. Fill the reservoir tank with hydraulic oil ( SAE 10 weight non-foaming, non-detergent hydraulic fluid)
4. Make the air hookup to the air hydraulic pump. It is recommended that a water-separater filter to be installed just ahead of the pump.
5. Choose the height adapter for lifting. Fig.6

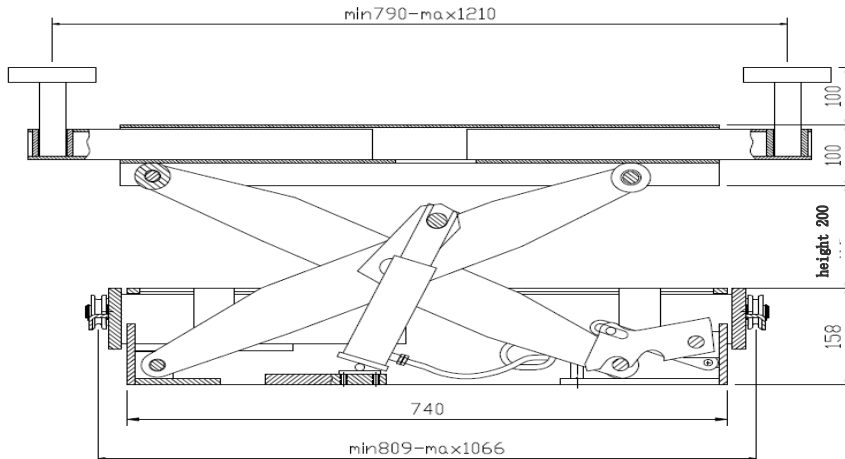


Fig. 7

Rolling Lift Specifications:

**Lift Frame:**

Lifting Capacity:	2000Kg
Lift Railway Width:	809-1066mm
Lifting Pad Distance:	790-1210mm
Lowered Height(min):	358mm
Raised Height(max):	740mm

**Air hydraulic Pump:**

Compressed Air Supply:	0.3-1.0Mpa (3-10 bar)
Pressure Output:	(about)70 Mpa
Reservoir Capacity:	0.6 Litter

**Accessory:**

Pad w. Rubber :	2 pcs
Adaptors:	180mm * 2 pcs, 115 mm *2 pcs
limit plate:	2 pcs
air hose :	some meter

### Troubleshooting:

1. Air pump will not operate.
  - Check the pressure of compressed air supply. It shall be between 5-8 bar for better operation.
  - Check any leakage on hose and connectors.
2. Air hydraulic pump does not operate properly.
  - Contact the service engineer for a replacement or additional troubleshooting information.
3. Lift machines does not move up and down smoothly.
  - Move vehicle location on the lift for more equal weight distribution.
  - Raise the lift all the way to the top and then return to floor without load. Repeat 4 - 6 times with in order to get the air out of the hydraulic system. Remember to change the tank nut with the supplied one. Fig 8.



Fig. 8

4. Lift does not lift its rated capacity.
  - Move vehicle location on the lift for more equal weight distribution.
  - Check the pressure of the compressed air supply.  
Make sure the pump is getting enough air supply.
5. cylinder leak under rated load
  - Check the leaks at the hydraulic hose, fittings, cylinders and pumps.
  - Contamination may be in the check valve preventing the valve from complete closing.
6. Lift will not lower
  - Raise the lift up one to two inches. Let the lock bar (Fig 1) fully pass the safety latch then pressing down the safety hook bar to lower the lift.
  - Check the lift frame for any obstacles preventing lowering.
  - The valve is blocked stopping the oil back from cylinder. Check the air hydraulic pump.

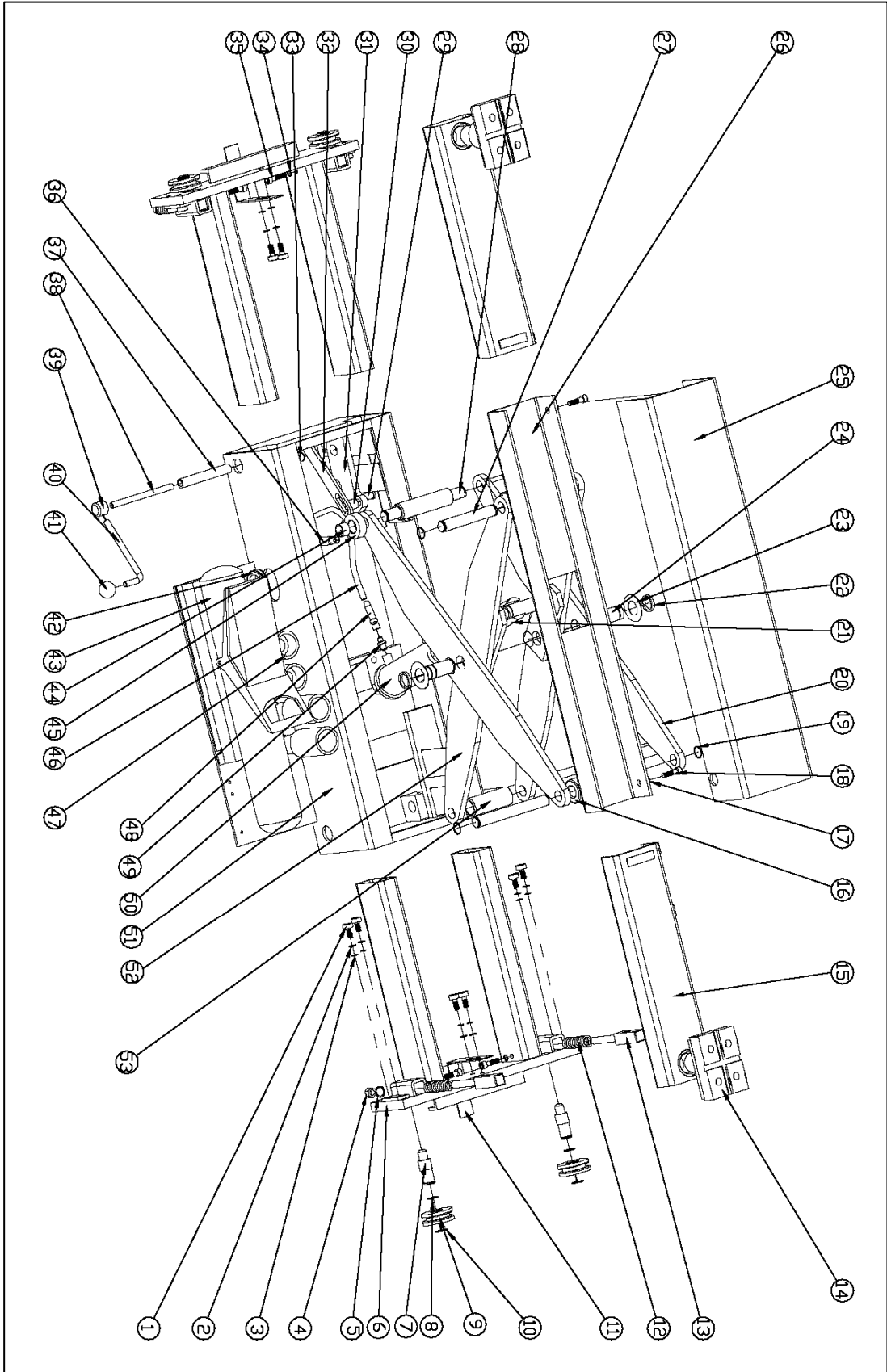


Fig. A

## Rolling Lift Parts List

No	Chart No	Description	Quantity	No	Chart No	Description	Quantity
1	GB70-85	Inside Hexangular bolt	12	28	QT600-01	shaft	1
2	GB93-87	Spring washer	8	29	QT400-100-17	shaft	1
3	GB97.2-85	Washer	8	30	QT400-100-05	isolated bush	1
4	GB6170-86	nut	4	31	QT400-100-01	Safety baffle	1
5	GB97.2-85	washer	4	32	QT400-100-04-01	lever	1
6	QT100-00	glide arm	2	33	QT400-100-03	shaft	1
7	QT 100-05	shaft	4	34	GB97.2-85	washer	4
8	GB97.2-85	washer	4	35	GB70-85	Inside Hexangular bolt	4
9	QT100-08	idler wheel	4	36	QT200-10	ward staff	2
10	GB894.2-86	Spring washer for shaft	4	37	QT200-16	orientation cover	1
11		settled board		38	QT400-100-04-02	shaft	1
12	QT100-07	spring	4	39	QT400-100-06-01	shaft bush	1
13	QT100-06	oriented staff	4	40	QT400-100-06-02	handle	1
14	QYS-300-10-00	Salver jointing	2	41		plastic ball of handle	1
15	QT300-06-02	glide arm	2	42	QT200-18	jacket	1
16	QT500-06	bush of idler wheel	2	43		air/manual pump	
17	GB6172-86	Hexangular bolt	2	44		compound bush	2
18	GB70-85	Inside Hexangular bolt	2	45	QT600-03	wheel	2
19	GB894.2-86	Spring washer for shaft	4	46	QT800-05	oil hose	1
20	QT500-03	stay bar	2	47	QYS-300-10-09	adapter	2
21	QT800-07	piston	1	48	QT800-03	fitting	1
22	GB812-88	nut	2	49	QT800-04	throttle	1
23	QT500-05	washer	2	50	QT800-08	cylinder	1
24	QT500-04	shaft	2	51	QT200-00	pedestal of rolling jack	1
25	QT300-03	upper splint	1	52	QT600-02	stay bar	2
26	QT300-02	nether splint	1	53	QT500-02	shaft bush	1
27	QT300-04	shaft	2				

QT-2	Fig. B	01	Air-hydraulic pump
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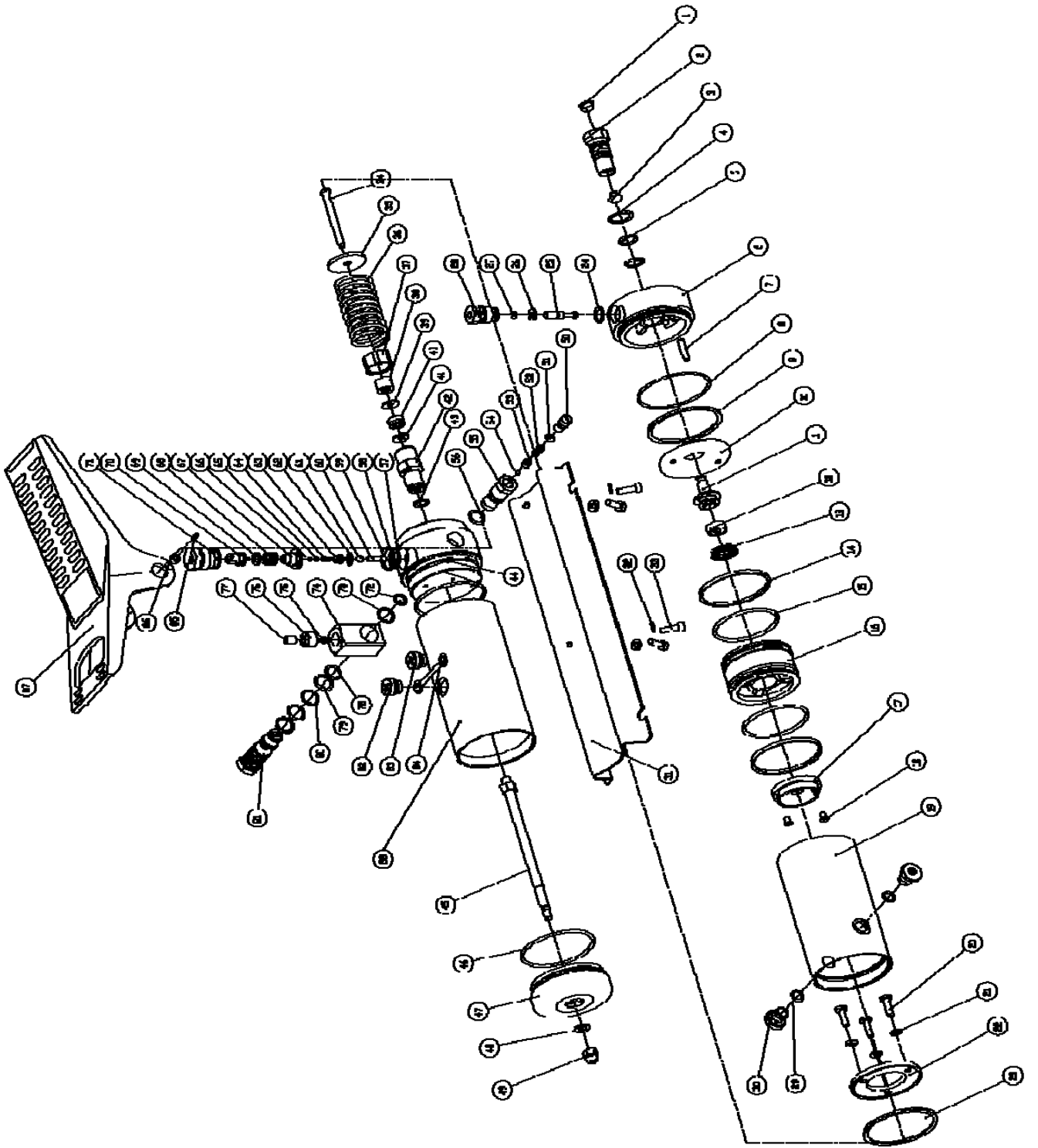


Fig. B



## Air Hydraulic Pump Parts List

No.	DESCRIPTION	Q'TY	No.	DESCRIPTION	Q'TY	No.	DESCRIPTION	Q'TY	No.	DESCRIPTION	Q'TY
1	BOLT CAP	1	23	C-RING	1	45	PULL ROD	1	67	WASHER	1
2	AIR INLET BOLT	1	24	WASHER	1	46	O-RING	1	68	SPRING	1
3	RUBBER BALL	1	25	PIN	1	47	CYLINDER LID UNIT	1	69	O-RING	1
4	WASHER	1	26	WASHER	1	48	WASHER	1	70	RELEASE PIN	1
5	O-RING	2	27	O-RING	1	49	NUT	1	71	RELEASE VALVE	1
6	PNEUMATIC BODY	1	28	POPPET GUIDE	1	50	SCREW	1	72	WASHER	1
7	LOCATING PIN	1	29	O-RING	2	51	O-RING	1	73	E-RING	1
8	O-RING	1	30	AIR RELEASE VALVE UNIT	2	52	SPRING	1	74	COUPLER BODY	1
9	C-RING	1	31	BASE PLATE	1	53	STEEL BALL BOWL	1	75	RUBBER BALL	1
10	PLATE	1	32	WASHER	1	54	STEEL BALL	1	76	SCREW	1
11	CHECK VALVE UNIT	1	33	BOLT	1	55	SAFETY VALVE BODY	1	77	SCREW	1
12	SEAL	1	34	PISTON	1	56	O-RING	1	78	O-RING	1
13	U-SEAL	1	35	WASHER	1	57	WASHER	1	79	BACK-UP RING	2
14	SEAL	2	36	SPRING	1	58	O-RING	1	80	O-RING	2
15	O-RING	2	37	HYDRAULIC CYLINDER CAP	1	59	STEEL BALL 3/16"	1	81	COUPLER STEM	1
16	PNEUMATIC PISTON B	1	38	GUIDE CYLINDER	1	60	PIN	1	82	OIL FILL SCREW	1
17	PNEUMATIC PISTON A	1	39	BACK-UP RING	1	61	STEEL BALL 7.1mm	1	83	OIL FILL SCREW I	1
18	SCREW	2	40	U-SEAL	1	62	WASHER	1	84	SEAL WASHER	1
19	CYLINDER	1	41	WASHER	1	63	SCREW	1	85	PIN	1
20	SCREW	3	42	HYDRAULIC CYLINDER	1	64	SPRING	1	86	CYLINDER	1
21	WASHER	3	43	WASHER	1	65	STEEL BALL BOWL	1	87	FOOT PEDAL	1
22	WASHER	1	44	BODY	1	66	STEEL BALL 4mm	1	88	RESERVOIR	1