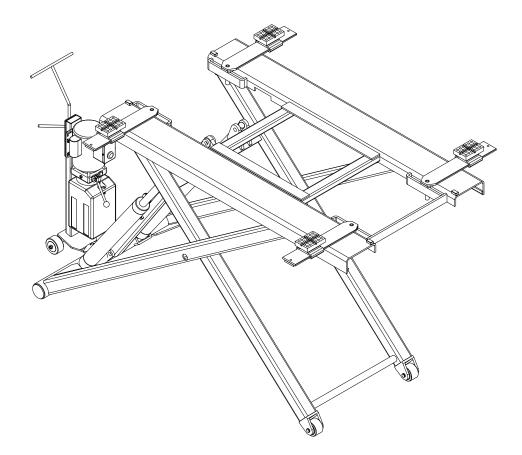


INSTALLATION, OPERATION AND MAINTENANCE MANUAL

PORTABLE MID-RISE LIFT





6,000 lbs. Capacity 1500 lb Per Arm 2311 South Park Rd Louisville, Kentucky 40219 Email:*sales@challengerlifts.com* Web site:www.challengerlifts.com

Office 800-648-5438 / 502-625-0700 Fax 502-587-1933

IMPORTANT: READ THIS MANUAL COMPLETELY BEFORE INSTALLING or OPERATING LIFT

GENERAL SPECIFICATIONS

Maximum Capacity	6,000 lbs
Minimum Table Height	5 1/2 inches
Maximum Table Height	
Electrical Requirements	115V, 50/60 Hz, 1 phase
Lifting Time	
Safety Lock	System Mechanical Safety Lock

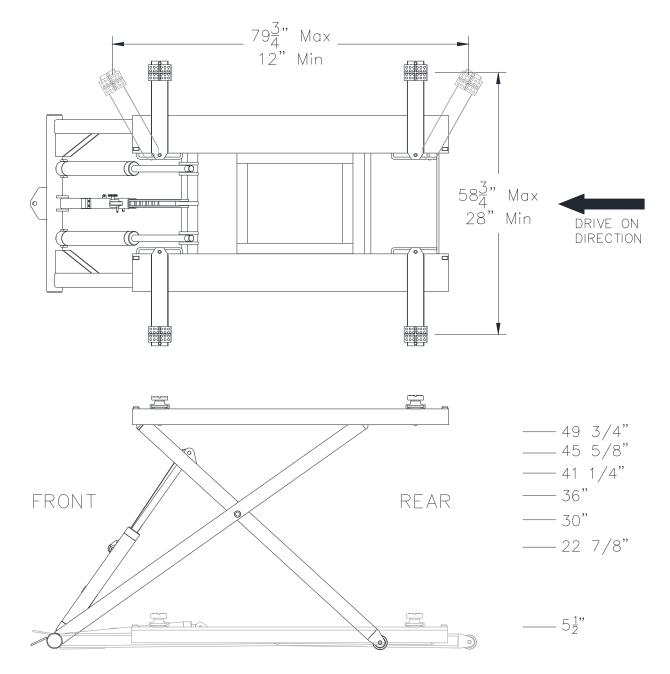


Fig. 1- General Specifications

Before You Begin

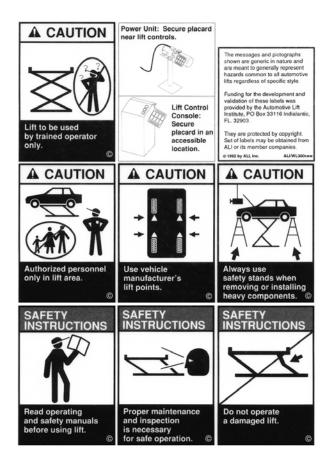
Safety Notices and Decals

For you safety, and the safety of others, read and understand all of the safety notices and decals included here.

Read entire manual before assembling, installing, operating, or servicing this equipment.

Proper maintenance and inspection is necessary for safe operation.

DO NOT operate a damaged lift.



Safety decals similar to those shown here are found on a properly installed lift. Be sure that all safety decals have been correctly installed on the lift. Verify that all authorized operators know the location of these decals and fully understand their meaning. Replace worn, faded, or damaged decals promptly.

SAFETY WARNING LABELS FOR HINGED FRAME ENGAGING LIFTS Lift Owner/User Responsibilities:

- A. This Safety Warning placard SHALL be displayed in a conspicuous location in the lift area.
 B. Use one of the mounting arrangements illustrated on back of this placard.
 - **C.** These Safety Warning labels supplement other documents supplied with the lift.
 - D. Be certain all lift operators read and understand these labels, operating instructions and other safety related information supplied with the lift.





Do not attempt to raise a vehicle on the lift until the lift has been correctly installed and adjusted as described in this manual.

Receiving

The shipment should be thoroughly inspected as soon as it is received. The signed bill of lading is acknowledgement by the carrier of receipt in good condition of shipment covered by our invoice.

If any of the goods called for on this bill of lading are shorted or damaged, do not accept them until the carrier makes a notation on the freight bill of the shorted or damaged goods. Do this for your own protection.

NOTIFY **Challenger Lifts** AT ONCE if any hidden loss or damage is discovered after receipt

IT IS DIFFICULT TO COLLECT FOR LOSS OR DAMAGE AFTER YOU HAVE GIVEN THE CARRIER A CLEAR RECEIPT.

File your claim with **Challenger Lifts** promptly. Support your claim with copies of the bill of lading, freight bill, and photographs, if available.

Flooring

Be certain you have the proper concrete floor to properly handle the loaded lift. Floor should be in generally good condition with no large cracks, spalling or deterioration. Minimum requirements for concrete are 4 inches minimum depth, with steel reinforcement per local commercial practice, 3500 psi, cured for 28 days. Floor should be level within 1/4 inch over the installation area. If these conditions cannot be met, pads can be poured to accommodate the lift. Pad must be minimum of 8 ft x 8 ft x 1 ft minimum thickness, 3500 psi steel reinforced mechanically attached to existing floor.



Failure by purchaser to provide the recommended mounting surface could result in unsatisfactory lift performance, property damage, or personal injury.

Vertical Clearance

Check the height of the area where the lift is to be installed. Clearance should be calculated based on the full raised height of the lift plus the height of the tallest vehicle you intend to service.



Failure by purchaser to provide adequate clearance could result in unsatisfactory lift performance, property damage, or personal injury. For lift installation and operation, it is necessary to have a dedicated 115V single-phase 60-cycle circuit with a 20 amp circuit breaker or time delay fuse.

Tools Required for Installation

- 1. Wrenches: 7/16, 1/2, 9/16, 5/8, 11/16, 15/16, 1 1/8 inch
- 2. Ratchet drive with the following sockets: 7/16, 1/2, 9/16, 1 1/8 inch
- 3. Funnel
- 4. Adjustable wrenches: 8 and 12 inch

INSTALLATION

1. Locate the lift on a level concrete floor with adequate space on all sides. Minimum floor thickness is 4". Minimum floor strength is 3500 psi.



WARNING DO NOT install on asphalt or other similar unstable surface.



CAUTION If lift is to be used in a paint booth, the electrical power unit **MUST** be mounted outside the booth.

POWER UNIT

1. Connect the end of the hydraulic hose with the 90-degree elbow to the pressure port on the power unit. Tighten securely to prevent leaking.

NOTE: To avoid damage to the hose, never run the hose under the lift or in the path of the automobile tires.

- 2. Fill the reservoir with 6 quarts clean 10wt antifoam, anti-rust hydraulic oil or Dexron III ATF. DO NOT USE OILS WITH DETERGENTS.
- 3. Place the open end of the hose into a clean bucket.
- 4. Plug power unit cord into a dedicated 115V single phase 60 cycle circuit with a 25 amp circuit breaker or time delay fuse
- 5. Cycle the power unit (2 seconds on, 2 seconds off) until the hose expels a steady stream of fluid.
- 6. Connect the hose to the tee fitting on the lift.
- 7. Actuate the power unit and raise the lift fully, then lower the lift to the floor. Repeat 3 to 4 times.

CAUTION The power unit operates at high pressure.

Raise and lower lift a few times and check hose and fittings for leaks and tighten if required.

Check for binding, misalignment or damage. Correct any unusual condition before raising vehicle.

LOCK RELEASE CABLE

- 8. Raise the lift until a click is heard: make sure the lock pawl can pivot freely.
- 9. Look for the threaded tab on the safety lock assembly. Back the jam nut off the threaded coiler and adjust until the slack is removed. Tighten the lock nut and test the lock release mechanism 3 or 4 times to ensure proper function.

DECAL PLACEMENT

10. Center and apply the Driver Side Center of Gravity decal (10200L) as shown below. The arrow on the decal should be pointing in the direction of the cylinders. Repeat on the opposite side of the lift with the Passenger Side Center of Gravity decal (10200R). Place lift brand decal towards front of the lift as shown below

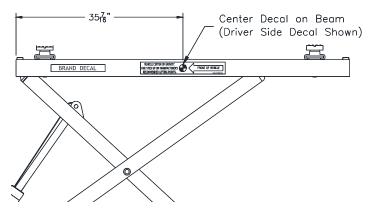


Fig. 2 – Decal Placement

Owner/Operator Checklist

SAVE THESE INSTRUCTIONS deliver them to owner/user/employee along with other materials furnished with this lift.

Demonstrate the operation of the lift to the owner/operator and review correct and safe lifting procedures using the <u>Lifting It Right</u> booklet as a guide.

Safety Notices and Decals

This product is furnished with graphic safety warning labels, which are reproduced on page 3 of these instructions. Do not remove or deface these warning labels, or allow them to be removed or defaced. For your safety, and the safety of others, read and understand all of the safety notices and decals included.

Owner/Employer Responsibilities

This lift has been designed and constructed according to ANSI/ALI ALCTV-2017 standard. The standard applies to lift manufactures, as well as to owners and employers. The owner/employer's responsibilities as prescribed by ANSI/ALI ALOIM-2008, are summarized below. For exact wording refer to the actual standard provided with this manual in the literature pack.

The Owner/Employer shall insure that the lift operators are qualified and that they are trained in the safe use and operation of the lift using the manufacturer's operating instructions; ALI/SM 93-1, ALI Lifting It Right Safety Manual; ALI/ST-90 ALI Safetv Tips Card: ANSI/ALI ALOIM-2008: American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; ALI/WL Series, ALI Uniform Warning Label Decals/Placards; and in case of frame engaging lifts, ALI/LP-GUIDE, Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts.

The Owner/Employer shall establish procedures to periodically inspect the lift in accordance with the lift manufacturer's instructions or ANSI/ALOIM-2008, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and the employer shall insure that the lift inspectors are qualified and they are adequately trained in the inspection of the lift.

The Owner/Employer shall establish procedures to periodically maintain the lift in accordance with

the lift manufacturer's instructions or ANSI/ALOIM-2008, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and the employer shall insure that the lift maintenance personnel are qualified and they are adequately trained in the inspection of the lift.

The Owner/Employer shall maintain the periodic inspection and maintenance records recommended by the lift manufacturer or ANSI/ALOIM-2008, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance.

The Owner/Employer shall display the lift manufacturer's operating instructions; ALI/SM 93-1, ALI Lifting It Right Safety Manual; ALI/ST-90 ALI Safety Tips Card: ANSI/ALI ALOIM-2008; American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and in case of frame engaging lift, ALI/LP-GUIDE, Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts; in a conspicuous location in the lift area convenient to the operator.

IMPORTANT SAFETY INSTRUCTIONS

When using your garage equipment, basic safety precautions should always be followed, including the following:

- 1. Read all instructions.
- 2. Care must be taken as burns can occur from touching hot parts.
- 3. To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids (gasoline).
- 4. Keep hair, loose clothing, fingers, and all parts of body away from moving parts.
- 5. Use only as described in this manual. Use only manufacturer's recommended attachments.
- 6. ALWAYS WEAR SAFETY GLASSES. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses.

SAVE THESE INSTRUCTIONS

Operating Instructions *NOTE:*

After reviewing these instructions and all decals, get familiar with lift controls by running the lift through a few cycles before loading vehicle on lift.

Loading Vehicle

- 1. Be sure lift is fully lowered and service bay is clear of all personnel before the vehicle is driven on to lift.
- The center of gravity of the vehicle should be located directly over the marked location shown on the decal in Fig. 2 in the fore and aft direction. The vehicle must also be centered side to side. See Fig. 1 on page 2 for proper orientation of vehicle on the lift.
 - WARNING Never orient vehicle backwards on the lift. Improper loading of the lift may result in personal injury and/or property damage.



WARNING Lift is designed to raise complete vehicle. **NEVER** use to raise just one end or Side of vehicle.

NOTE:

Some vehicles may have the manufacturer's recommended lift points identified by triangle shape marks located on its undercarriage. Also, there may be a label located on the right front door lock face showing specific vehicle lift points. If the vehicles lift points are not identified, refer to the service garage lift points shown in **Fig. 3**. **ALWAYS** follow the operating instructions supplied with the lift.

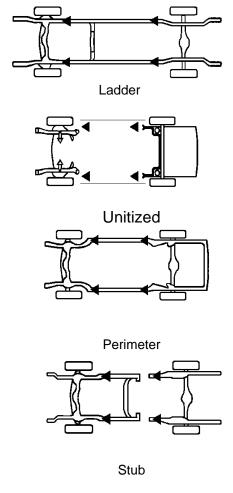


Fig. 3 - Service Garage Lift Points

CAUTION Most specialty or modified vehicles cannot be raised on a frame engaging or pad lift. Contact vehicle manufacturer for raising or jacking details.

- 3. Before lifting the vehicle be sure that:
 - A. Individual axle weight of vehicle does not exceed one-half lift capacity. See safety instructions (capacity).
 - B. Vehicle is stable on lift and neither front nor rear heavy.
- CAUTION With some vehicles, the removal (or installation) of heavy components may cause a critical shift in balance and result in vehicle instability. Refer to the vehicle manufacturer's service manual for recommended procedures when performing these services.

Raising Vehicle

- 4. To raise lift:
 - A. Actuate **RAISE** switch on electric power unit.
 - B. Raise vehicle until tires clear floor.
 - C. Check to make sure all four contact pads are secure on the vehicle.
 - D. Continue to raise to desired height **ONLY** if vehicle is secure on lift.
 - E. Once you have reached the required height set into lock by depressing the lowering handle.

Lowering Vehicle

5. To lower lift:

Stand clear of lift and vehicle when lowering. Observe pinch point warning decals.

- A. Remove all tools or other objects from lift area.
- B. Raise vehicle approximately 1" to disengage lock.
- C. Push LOWERING valve handle to lower lift.



CAUTION Lowering handle must be held down to continue to lower lift. DO NOT override self-closing lift controls.

6. Before moving vehicle, be sure lift is at the fully lowered position and is clear of any tools or objects.

NOTE:

The lock bar will reset automatically when the lift is fully lowered or raised a minimum of 1". If during the lowering process the lift is stopped before it gets to the fully lowered position. Reset by repeating steps 5 or 6 from above.

MAINTENANCE

NOTE:

To avoid personal injury, permit only qualified personnel to perform maintenance on this lift.

See repair parts breakdown for replacement parts.

ALWAYS: Keep all bolts tight. Check periodically.

ALWAYS: Keep lift clean. Raise lift when cleaning floor area.

DAILY: Check lock bar handle and release mechanism for damage or binding.

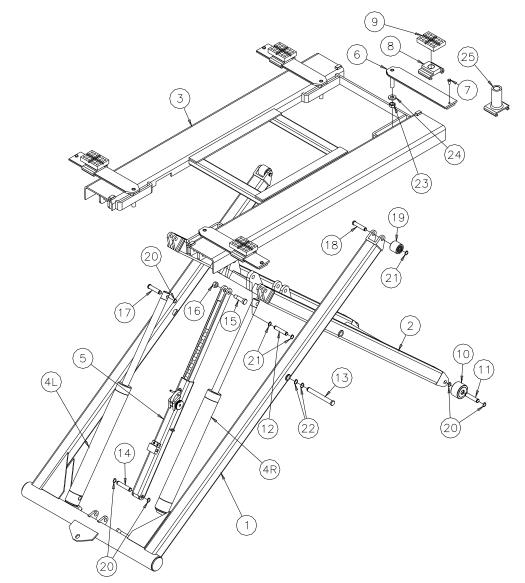
WEEKLY: Inspect all lift parts for signs of damage due to improper use.

MONTHLY: Lubricate lock bar pivot bolt and lock bar handle pivot points.

MONTHLY: Lubricate all hinge joints if there are signs of rusting.

SEMI-ANNUALLY: Check fluid level of lift power unit and refill if required. Use only Dexron III ATF or 10wt anti-foam, anti-rust hydraulic oil. If fluid is required, inspect hose and connections and cylinder seals. Repair as required.

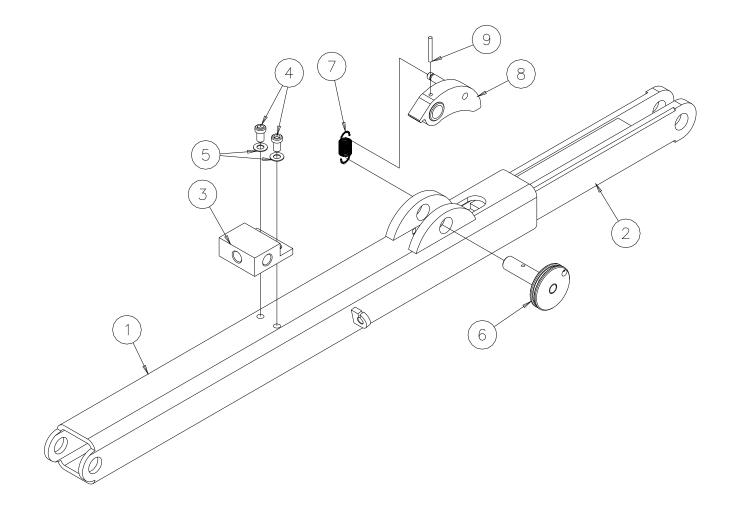
PARTS BREAKDOWN



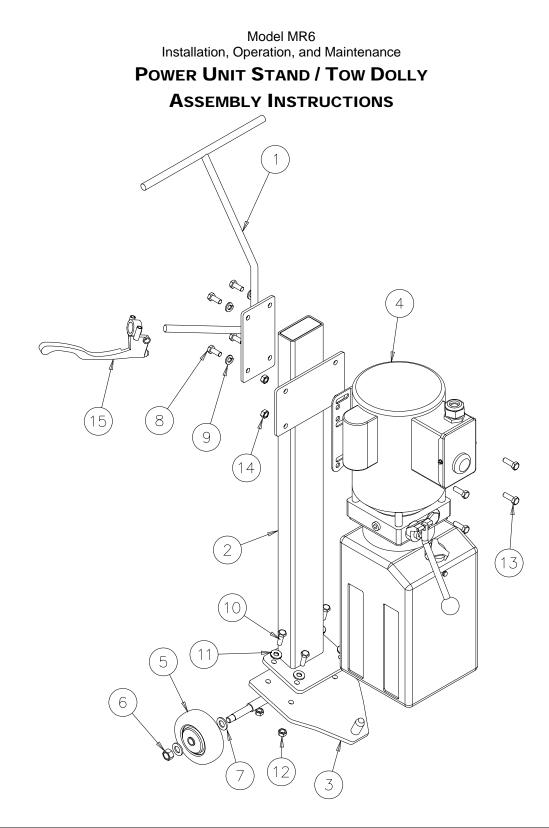
No	Part #	Qty	Description	No	Part #	Qty	Description
1	GTYJ3-01-00	1	Scissor Outside	13	TYJ3-13	2	Scissor Pin
2	GTYJ3-03-00	1	Scissor Inside	14	TYJ3-08	1	Safety Locking Pin (Bottom)
3	GTYJ3-02-00	1	Platform	15	TYJ3-10	1	Safety Locking Pin (Top)
4L	GTYJ3-04-00L	1	Cylinder Assy. (Left)	16	SR-0114	1	Locking Nut, M18
4R	GTYJ3-04-00R	1	Cylinder Assy. (Right)	17	TYJ3-09	2	Cylinder Pin
5	GTYJ3-07-00CH	1	Safety Locking Assy.	18	TYJ3-15	2	Wheel Pin (Small)
6	TYJ3-05-03CH	4	Plate	19	TYJ3-14-00	2	Wheel (Small)
7	MR6-002	4	Hex Bolt, M10x20	20	X10-020	6	Retaining Ring 20mm
8	TYJ3-05-02	4	3" Extension Base	21	MR6-003	6	Retaining Ring 18mm
9	TYJ3-05-01	4	Foot Pad	22	MR6-004	4	Retaining Ring 24mm
10	TYJ3-11-00	2	Wheel (Big)	23	B40129	4	Hex Nut, M20
11	TYJ3-12	2	Wheel Pin (Big)	24	X10-099	4	Washer, M20
12	TYJ3-16	2	Connecting Pin	25	TYJ3-05-02G	4	6 7/8" Extension Base

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SAFETY LOCK ASSEMBLY



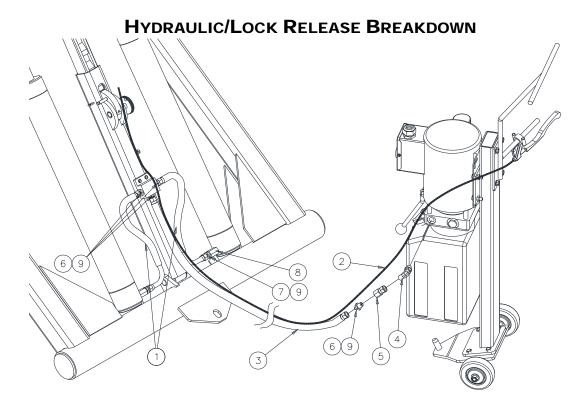
No.	Part #	Qty.	Description
1	GTYJ3-07-02CH	1	Lock Sheath
2	GTYJ3-07-01	1	Lock Pole
3	TYJ3-07-05	1	Base
4	MR6-006	2	Socket Head Bolt, M8 x 16
5	SR-0112	2	Washer, M8
6	GTYJ3-07-04-00CH	1	Pulley Assy.
7	TYJ3-07-06	1	Spring
8	TYJ3-07-03CH	1	Lock Block
9	X10-081	1	Roll Pin 4 x 30



No.	Part #	Qty.	Description	No.	Part #	Qty.	Description
1	TYJ3-00-01-1	1	Handle	9	MR6-008	4	Lock Washer, M8
2	TYJ3-00-01-2-1	1	Stand	10	MR6-009	4	Hex Bolt, M8x25
3	TYJ3-00-01-2	1	Base	11	SR-0112	4	Washer, M8
4	AB-1563-B	1	Electric/Hyd. Unit	12	HEXNM8	4	Nut, M8
5	TYJ3-00-01-3	2	Wheel	13	A1069	4	Bolt, 5/16"-18 x 1"
6	X10-040	2	Nut, M12	14	4100237	4	Nut, 5/16"-18
7	X10-038	4	Washer, M12	15	TYJ3-32	1	Lock Release Handle
8	MR6-007	4	Hex Bolt, M8x20				

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Model MR6 Installation, Operation, and Maintenance



No	Part #	Qty.	Description
1	TYJ3-25	2	Hydraulic Hose Short
2	GTYJ3-31X	1	Lock Release Cable
3	TYJ3-26	1	Hydraulic Hose Long
4	16167	1	Hyd. Elbow; 9/16-18 O-Ring x 37 deg Male
5	MR6-011	1	3/8 NPTM x #6 JIC 37 deg Female Swivel
6	TYJ3-21	4	M14x1.5-6g Male x 3/8 NPT
7	TYJ3-19	2	M14x1.5-6g Male x 1/4 NPT
8	TYJ3-20-00	2	Flow Restrictor
9	MR6-012	6	O-Ring