

AUTO SCISSOR LIFT

6000 LBS. CAPACITY -1050 mm HEIGHT

INSTRUCTION MANUAL



PLEASE READ THIS MANUAL CAREFULLY BEFORE USE

PRODUCT SPECIFICATIONS

Item	Description
Electrical requirements	115V/230V 60Hz/50Hz 1HP/Single phase 3-Prong Power Plug
Maximum lifting capacity	6000 pounds (53" Mid-Rise Scissor Lift)
Minimum lift height	155 mm
Maximum lift height	1050 mm
Overall dimensions	2170 L x 1000 W x 155 H mm (Full Lowered)
Piston rod travel	393 mm

Pump type	Hydraulic/ Electro w/Steel Dolly
Pump hydraulic oil capacity	8 L

The scissor lift is prewired 115V from the factory. This product may be wired for 230V operation (only a certified electrician should change the voltage on this product). See page 19 for the motor wiring diagram.

SAVE THIS MANUAL

You will need this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures, parts list and assembly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep this manual and invoice in a safe and dry place for future reference.

GENERAL SAFETY RULES

WARNING!

READ AND UNDERSTAND ALL INSTRUCTIONS

Failure to follow all instructions listed in the following pages may result in electric shock, fire, and/or serious injury.

SAVE THESE INSTRUCTIONS

WORK AREA

1. **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
2. **Do not operate power equipment in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power equipment can create sparks which may ignite flammable
3. **Keep bystanders, children, and visitors away while operating power equipment.** Distractions can cause you to lose control.

PERSONAL SAFETY

1. **Stay alert. Watch what you are doing, and use common sense when operating power equipment.** Do not use power equipment while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power equipment may result in serious personal injury.
2. **RISK OF ENTANGLEMENT! Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
3. **Avoid accidental starting. Be sure the power switch is off before plugging in.** Plugging in power equipment with the power switch on invites accidents.
4. **Remove adjusting keys or wrenches before turning on power equipment.** A wrench or a key that is left attached to a moving part of power equipment may result in personal injury.
5. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the power equipment in unexpected situations.
6. **Use safety equipment. Always wear ANSI approved safety impact eye goggles underneath a full-face shield.**

TOOL USE AND CARE

1. **Use clamps (not included) or other practical ways to secure and support the work piece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
2. **Do not force power equipment. Use the correct equipment for your application.** The correct equipment will do the job better and safer at the rate for which it is designed.
3. **Do not use power equipment if the power switch does not turn it on or off.** Any equipment that cannot be controlled with the power switch is dangerous and must be repaired replaced.
4. **Disconnect the power cord Plug from the power source before making any adjustments, changing accessories, or storing the power equipment.** Such preventive safety measures reduce the risk of starting the equipment accidentally.
5. **Store idle equipment out of reach of children and other untrained persons.** Power equipment is dangerous in the hands of untrained users.
6. **Maintain power equipment with care.** Properly maintained equipment are less likely to fail and are

easier to control. Do not use damaged power equipment. Tag damaged power equipment “Do not use” until repaired

7. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power equipment’s operation. If damaged, have the equipment serviced before using.** Many accidents are caused by poorly maintained power equipment
8. **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one power equipment may become hazardous when used on another power equipment

SERVICE

1. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
2. **When servicing a tool, use only identical replacement parts. Follow instructions in the “Inspection, Maintenance, And Cleaning” section of this manual.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.

ELECTRICAL SAFETY

1. **Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.** If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.
2. **Double insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way.** Double insulation eliminates the need for the three wire grounded power cord and grounded power supply system
3. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators.** There is an increased risk of electric shock if your body is grounded.
4. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
5. **Do not abuse the power Cord. Never use the power Cord to carry the tools or pull the Plug from an outlet. Keep the Power Cord away from heat, oil, sharp edges, or moving parts. Replace damaged Power Cords immediately.** Damaged Power Cords increase the risk of electric shock.
6. **When operating a power tool outside, use an outdoor extension cord marked “W-A” or “W”.** These extension cords are rated for outdoor use, and reduce the risk of electric shock

GROUNDING

WARNING!

Improperly connecting the grounding wire can result in the risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

GROUNDING TOOLS: TOOLS WITH THREE PRONG PLUGS

1. Tools marked with “grounding required” have a three wire cord and three prong grounding plug. The plug must be connected to a properly grounded outlet. If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock
2. The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the tool’s grounding system and must never be attached to an electrically “live” terminal.
3. Your tool must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances.

EXTENSION CORDS-115VOLT

1. 115volt Double Insulated power equipment can use either a two or three wire 115volt extension cord.
2. As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage.
3. The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord.
4. When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required.
5. If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size.
6. If you are using an extension cord outdoors, make sure it is marked with the suffix "W-A" ("W" in Canada) to indicate it is acceptable for outdoor use.
7. Make sure your extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.
8. Protect your extension cords from sharp objects, excessive heat, and damp or wet area.

EXTENSION CORDS-230VOLT

IMPORTANT! If the Scissor Lift is to be powered by a 230 volt, grounded, electrical outlet, a 230volt grounded, electrical outlet, a 230 volt grounded Power Cord (not included) must be wired to the Motor . Also, a 230 volt, grounded, Power Cord Plug (not included) must be attached to the Power Cord. THIS WIRING PROCEDURE MUST ONLY BE DONE BY A QUALIFIED, CERTIFIED ELECTRICIAN.

SPECIFIC SAFETY RULES

1. **DANGER! Make sure you know the weight of the vehicle you are going to lift before using the Scissor Lift. Do not exceed the maximum lift capacity (6000 pounds at 53" elevation) for the Scissor Lift.** Overloading the Scissor Lift could cause personal injury and/or property damage. Be aware of dynamic loading! If a weight suddenly falls onto the Scissor Lift, it may create for a brief instant an excess load which may result in personal injury and/or damage to the vehicle and Scissor Lift.
2. **WARNING! Use the Scissor Lift only in well ventilated areas.** Carbon monoxide exhausted from running vehicle engines in a colorless, odorless fume that, if inhaled, can cause serious personal injury or death.
3. **Make sure to read and understand all instructions and safety precautions as outlined in the manufacturer's manual for the vehicle you are lifting.** All four Rubber Saddles of the Scissor Lift must be used when lifting a vehicle. Always use the manufacturer's recommended lifting points.
4. **Do not use the Scissor Lift on any asphalt surface.** Make sure the Scissor Lift is used on a dry, oil/grease free, flat, level. **CONCRETE** surface capable of supporting the weight of the Scissor Lift, the vehicle being lifted, and any additional tools and equipment. The concrete floor surface should have a minimum thickness of 5". The concrete must have a minimum strength of 4000 PSI, and should be aged at least 30 days prior to use. Do not use the Scissor Lift on concrete expansion seams or on cracked, defective concrete.
5. **Always examine the Scissor Lift for structural cracks, bends, damage to the hydraulic hoses and electrical wiring, and any other condition that may affect the safe operation of the lift.** Do not use the Scissor Lift even if minor damage is detected.
6. **IMPORTANT! Operation (raising or lowering) of the Scissor Lift can be immediately stopped at any time by releasing pressure in the Power Switch located on the Motor .**
7. **Make sure the Oil Tank is completely filled with a premium quality hydraulic oil prior to operating the Scissor Lift.**
8. **Always allow at least two seconds after the Motor starts to raise or lower the Scissor Lift.** Failure to do so may cause the Motor to burn out.
9. **Prior to beginning a job, make sure the Safety Lock Assembly and its Safety Catches are in the**

proper position. NEVER work underneath a vehicle without using additional safety support devices (i.e. jack stands) to support the vehicle.

10. **Always keep hands, fingers, and feet away from the moving parts of the Scissor Lift when applying or releasing a load.** Remain clear of the Scissor Lift when raising or lowering a vehicle.
11. **Use extreme caution when applying or releasing a load.** Never allow the load to suddenly release. Slowly and carefully apply and release the load.
12. **Never leave the Scissor Lift unattended when the Lift is under a load.** Whenever the Scissor Lift is under a load there is a very large amount of force that has been stored in the Outside/Inside Scissor , which must be controlled until the load is relaxed.
13. **Before driving a vehicle onto the Scissor Lift make sure the Lift is fully lowered.** Before driving a vehicle onto the Scissor Lift, position the Plate and Rubber Saddles inward. Do not hit or run over the Plates and Rubber Saddles, as this could damage the vehicle. Make sure the Scissor Lift is fully lowered before driving the vehicle off.
14. **Should any weight component be removed from, or added to the vehicle, use a jack stand** (not included) **to support the over balanced end during the maintenance procedure.** Do not operate the Scissor Lift if the vehicle load tilts or binds during the up or down movement. Always position the vehicle with the center of gravity midway between the Rubber Saddles . Avoid excessive rocking of the vehicle while it is in its raised position.
15. **Never lift a vehicle with anyone inside it.** Do not allow others in the lift area while operating the Scissor Lift. Do not allow anyone to ride on the Scissor Lift while it is being raised lowered.
16. **When lifting a vehicle raise the Rubber Saddles slowly until the Rubber Saddles securely contact the vehicle manufacturer's recommended lifting points.** Then, lift the vehicle to the desired working height. ALWAYS lift the vehicle high enough for the Safety Lock Assembly to operate properly.
17. **Do not use the Scissor Lift as a permanent stand for a vehicle.** Use the Scissor Lift only while making repairs. Then, immediately remove the vehicle from the Scissor Lift.
18. **Before lowering the Scissor Lift, make sure tool trays, stands, and all other tools and equipment are removed from under the vehicle.**
19. Make sure to squeeze and hold in on the Brake Lever before attempting to lower the vehicle. Do not release pressure on the Brake Lever until the Scissor Lift is completely lowered.
20. Before removing a vehicle from the Scissor Lift make sure the Plates and Rubber Saddles are moved inward to provide an unobstructed exit.
21. **WARNING!** People with pacemakers should consult their physician(s) before using this product. Operation of electrical equipment in close proximity to a heart pacemaker could cause interference of failure of the pacemaker.
22. **WARNING!** This product contains or produces a chemical known to the State of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code 25249.5 et seq.)
23. **WARNING!** The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

ASSEMBLY INSTRUCTIONS

NOTE: For additional references to the parts listed in the following pages, refer to the Assembly Diagrams.

Determine The Proper Scissor Lift Location:

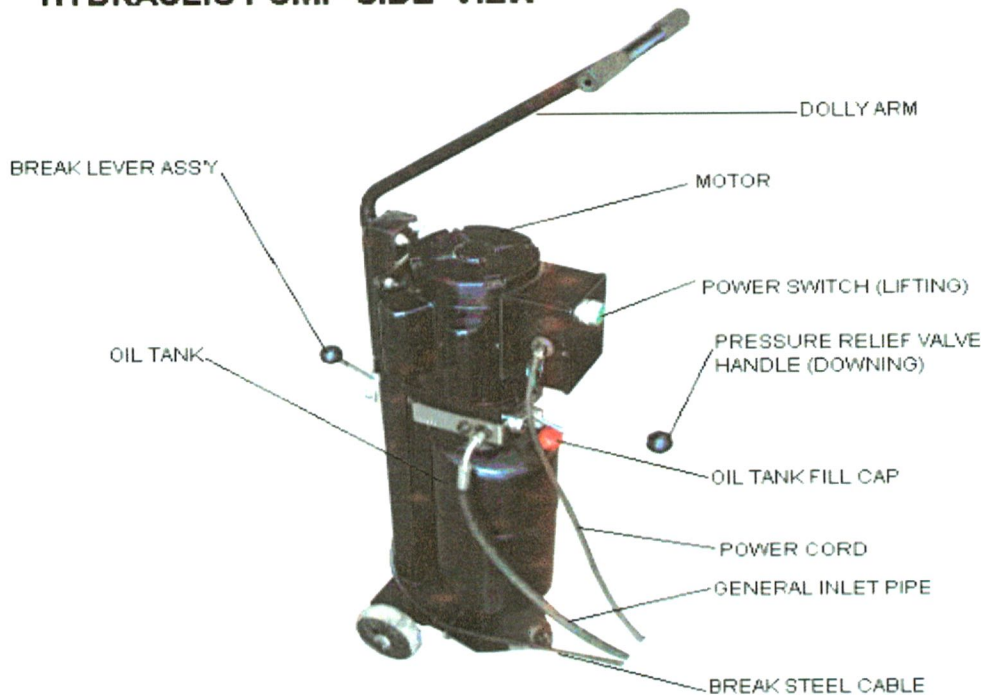
1. Do not use the Scissor lift on any asphalt surface. Make sure the Scissor Lift is used on a dry, oil / grease free, flat, level, CONCRETE surface capable of supporting the weight of the Scissor Lift, the vehicle being lifted, and any additional tools and equipment. The concrete floor surface should have a minimum thickness of 5". The concrete must have a minimum strength of 4,000 PSI, and should be aged at least 30days prior to use. Do not use the Scissor lift on concrete expansion seams or on cracked, defective concrete.
2. Make sure to check the desired location for possible obstructions such as a low ceiling, overhead lines, adequate working area, access ways, exits, etcetera
3. Make sure to allow a minimum space of 14 feet in front and behind the Scissor lift to accommodate all

vehicles. Certain allowances should be made for special vehicle requirements or unusual floor plans.

To Attach The Hydraulic Pump To The Scissor Lift:

1. Locate the Hydraulic Pump Unit in an area where it will be out of the way, is safe from damage and weather, and where it can be easily reached to operate.
2. One end of the General Inlet Pipe has been pre-attached to the Scissor Lift by the manufacturer. To attach the remaining end of the General Inlet Pipe to the Hydraulic Pump, make threads of the Oil Pipe Connector with about 4" of pipe thread seal tape (not included). Remove the Oil Filler Nut Cap from the threaded Hydraulic Oil Delivery Port. Then, wrench tighten the Oil Pipe Connector into the Hydraulic Oil Delivery Port.
3. One end of the Brake Steel Cable has been pre-attached to the Scissor Lift by the manufacturer. The Brake Lever Assembly is located on the remaining end of the Brake Steel Cable, and must be attached to the Handle of the Dolly. To do so, slide the Brake Lever Assembly onto the Handle. Then, secure the Brake Lever Assembly to the Handle by tightening the Bolt.

HYDRAULIC PUMP-SIDE VIEW



To Fill The Oil Tank With Hydraulic Oil:

The hydraulic Oil Tank has a holding capacity of 6.5 quarts. To fill the Oil Tank, squeeze and hold the Brake Lever to release any load on the Scissor Lift. Remove the Oil Tank Fill Cap on the Oil Tank. Add a premium quality hydraulic oil until the level of the oil is even with the Oil Tank's fill hole. Then, replace the Oil Tank Fill Cap. Before the first use and before all subsequent uses, check the hydraulic oil tank to make sure the Oil Tank is properly filled.

OPERATING INSTRUCTIONS

Check The Safety Lock Assembly:

1. **WARNING!** Never operate the Scissor Lift if the Safety Lock Assembly is not working properly.
2. Plug the Power Cord of the Lift into a properly grounded, 3-hole, electrical receptacle and allow several seconds for the Motor to warm up.
3. Squeeze and release the Brake Lever several times and, while doing so, observe that the Safety Lock Assembly operates properly in response to the Brake Lever. Then, release pressure on the Brake Lever.
4. Press on the Power Switch and hold, and observe that the Safety Lock Assembly "clicks" into place as

the Scissor Lift rises. **NOTE:** There are safety catches on the Safety Lock Assembly as the Scissor Lift rises. Once the Safety Lock Assembly locks into each of these safety catches, you must squeeze and hold in on the Brake Lever to lower the Scissor Lift.

5. Once the Scissor lift is fully elevated, release pressure on the Power Switch.
6. Without squeezing the Brake Lever, press in on the Pressure Relief Valve Handle and hold. Observe that the Scissor lift will not lower, as the Safety Lock Assembly is engaged. **CAUTION!** If the Safety Lock Assembly does not engage, fully lower the Scissor Lift and have a qualified service technician immediately repair the Safety Lock Assembly.
7. Should the Safety Lock Assembly not operate as described in Step #6, raise the Scissor Lift slightly to take pressure off the safety catches. Then, while squeezing the Brake Lever lower the Scissor lift fully to the floor. **NOTE:** When working properly, you must BOTH squeeze in and hold the Brake Lever and press in and hold the Pressure Relief Valve Handle to lower the Scissor Lift.

To Position, Lift, And Lower A Vehicle On The Scissor Lift:

1. Before driving a vehicle onto the Scissor lift make sure that the Lift is fully lowered, and position the Plates and Rubber Saddles inward.
2. Drive the vehicle over the Scissor Lift while keeping the vehicle parallel with the Lift and aligning the center of gravity of the vehicle with the center of the Lift.
NOTE: The "Center of Gravity" ((COG) of the vehicle is the balance point at which there is equal weight in front of and behind the COG, and equal weight on the vehicle, but is often slightly toward the engine from the dimensional center of the vehicle.
3. Turn off the vehicle's engine and engage the parking brake of the vehicle.
4. Read the vehicle owner's manual to identify the recommended vehicle lifting points.
5. Move the Plates outward, and position the Rubber Saddles to contact the vehicle lifting points.
6. **WARNING!** Do not lift the vehicle if you cannot establish secure and level lifting points. Do not use sub-standard shims or other devices in place of approved and recommended Rubber Saddle adapters. Never use the Scissor lift without the rubber Saddles in place on each Plate and in contact with the lifting points of the vehicles.
7. Once the Rubber Saddles have been positioned under the vehicle lifting points, operate the Power Switch to lift the vehicle slightly, and test to make sure the vehicle is well balanced and the contact between the Rubber Saddles and vehicle lifting points are secure. Then, proceed to lift the vehicle to the desired height.
8. **NOTE:** When the vehicle has been lifted to the desired height, and the Safety Lock Assembly has locked in place, make sure to install proper safety jack stands (not included), under the vehicle once it is lifted to the desired height, as an additional safety measure.
9. Once the repair work to the vehicle is completed make sure to remove all tools, safety jack stands, and materials from under the vehicle and Scissor Lift. Also, make sure the work area is clear and it is safe to lower the vehicle.
10. To lower the Scissor Lift, use the Power Switch and raise the vehicle slightly to take weight off the Safety Lock Assembly. Then, release pressure on the Power Switch.
11. Stand well away from the Scissor Lift and vehicle. Then squeeze and hold in the Brake Lever while at the same time pushing in and holding
12. Move the Rubber Saddles and Plates inward, out of the path of the vehicle.
13. Disengage the vehicle parking brake. Start the vehicle's engine, and drive the vehicle off the Scissor Lift slowly and carefully.

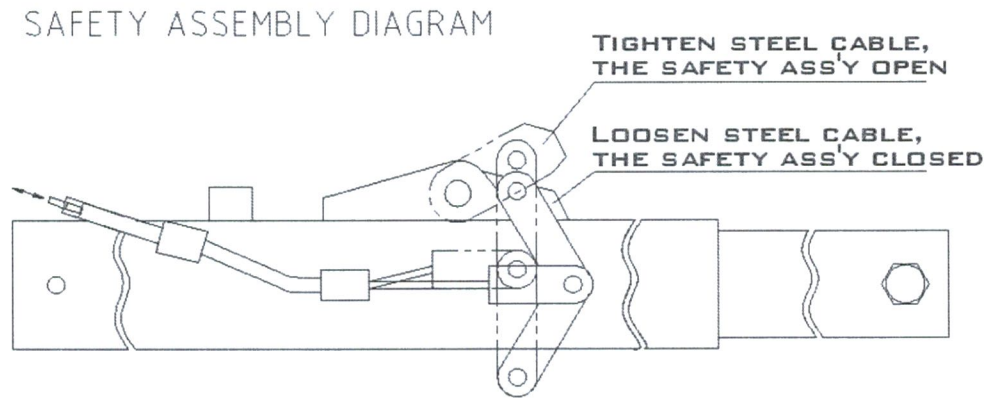
INSPECTION, MAINTENANCE, AND CLEANING

1. **WARNING!** Always unplug the Power Cord from its electrical outlet before performing any inspection, adjustments, maintenance, or cleaning.
2. Before each use, inspect the general condition of the Scissor Lift. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring and hoses, and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, have the problem corrected before further use.

Do not use damaged equipment.

3. **Daily:** With compressed air or a vacuum, remove all dirt and debris from the Scissor lift. Also use a detergent or mild solvent to remove oil and grease from the unit. Then, use a premium quality, machine oil to lubricate all moving parts.
4. **Daily:** Check the level of hydraulic oil in the Oil Tank. The Oil Tank has a holding capacity of 6.5 quarts. To fill the Oil Tank, squeeze and hold the Brake Lever to release any load on the Scissor Lift. Remove the Oil Tank Fill Cap on the Oil Tank. Add a premium quality hydraulic oil until the level of oil is even with the Oil Tank's fill hole. Then, replace the Oil Tank Fill Cap.

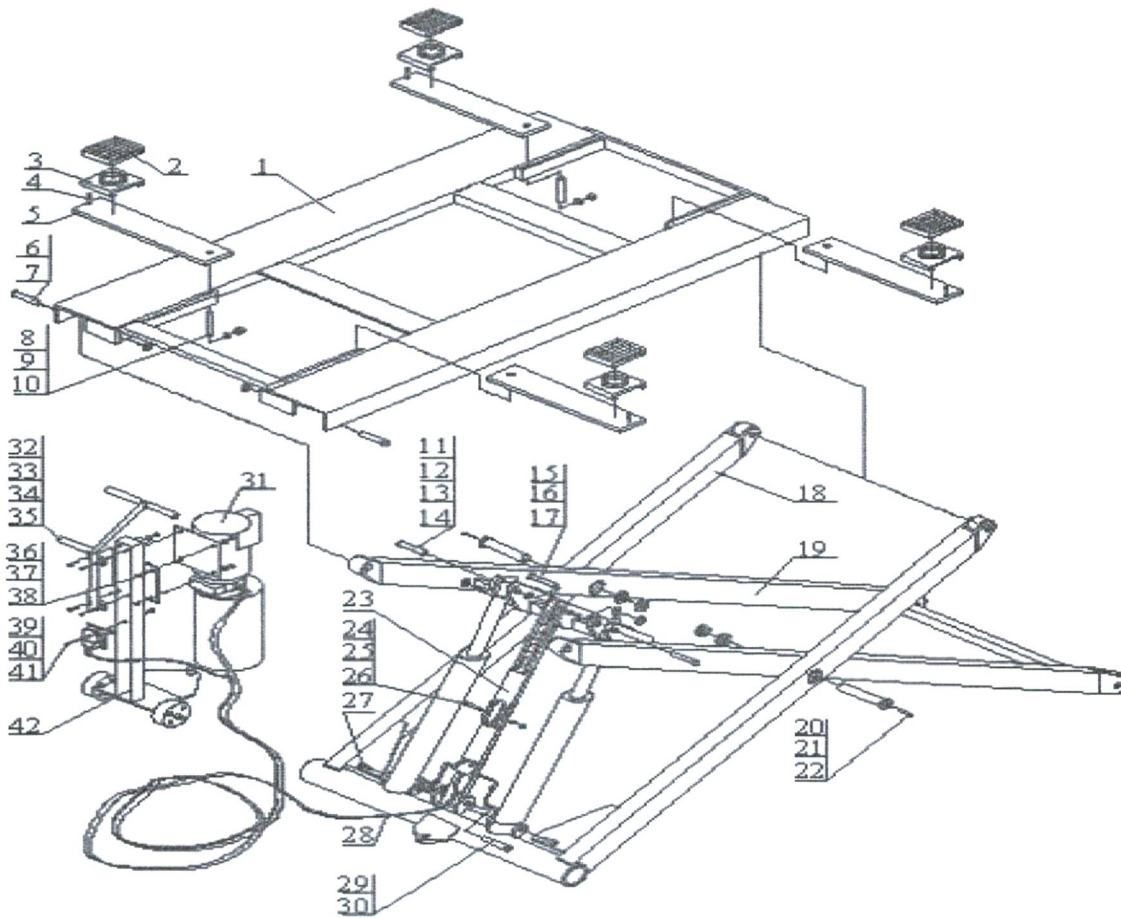
SAFETY ASSEMBLY DIAGRAM



PARTS LIST/ASSEMBLY DIAGRAM B

Part#	Description	Qty.	Part#	Description	Qty.
1	Table	1	22	Nut(M27*1.5)	4
2	Rubber Saddle	4	23	Safety Locking Assy	1
3	Movable Saddle	4	24	Pin	1
4	Bolt(M8*10)	4	25	Washer (12)	1
5	Plate	4	26	Retaining Ring(12)	1
6	Pin	2	27	Bolt(M8*20)	4
7	Retaining Ring(18)	2	28	Oil Pipe	1
8	Double End Stud	4	29	Pin	1
9	Washer	4	30	Retaining Ring(18)	1
10	Locking Nut(M16)	4	31	Pump	1
11	Cylinder	2	32	Handle	1
12	Pin	2	33	Bolt(M8*60)	4
13	Washer(22)	4	34	Nut(M8)	4
14	Retaining Ring(220	2	35	Retaining Washer(8)	4
15	Bolt(M16*70)	1	36	Bolt(M8*20)	4
16	Washer(16)	1	37	Nut(M8)	4
17	Locking Nut(M16)	1	38	Washer(80)	4
18	Outer Scissor	1	39	Handle Assy	1
19	Inner Scissor	1	40	Bolt Pin(M8*85)	1
20	Oil Cup(8)	2	41	Locking Nut(M8)	1

21	Pin	2	42	Transmission Holder	1
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NOTE: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.