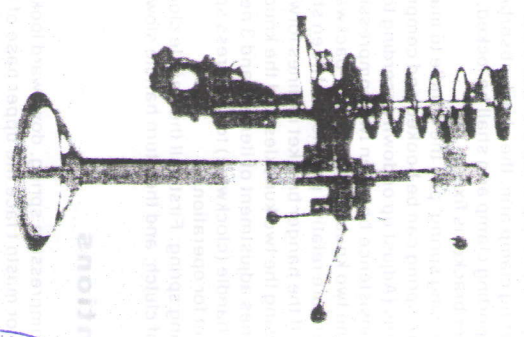


Spring Compressor Instruction



This is a technical instruction for a spring compressor. The device is used to compress springs safely. It consists of a handle and a head. The handle is used to apply force to the spring, while the head provides a secure grip and support. The spring is placed between the handle and the head, and the handle is turned to compress it. The head has four adjustment screws that allow you to adjust the pressure applied to the spring. The handle has a hand crank that makes it easy to turn. The device is made of high-quality steel and is designed to last for many years. It is a useful tool for anyone who works with springs.

This machine is mainly made up of gear, rack, ratchet wheel and clutch, applicable for disassembly and assembly of spring shock absorber for AUDI, JETTA, SANTANA, pony car, imported car, jeep and touring car. It can compress and locate the spring at any position, with easy operation, quick speed and reliable safety.

I Main technical parameters

Max. Diameter of the spring to be disassembled and assembled: 200 mm

Max. Height of the spring to be disassembled and assembled: 500 mm

External dimensions: 350 x 359 x 110 mm

Net weight: 31 kg

II Operation

1. If the lower base of absorber spring is slanting hanger bracket, accessory "cushion block" shall be put into the supporting clamp arm (into the left arm for left slanting, vice versa); if the lower base is horizontal hanger bracket, "cushion block" shall not be put into. The assembly and clamp principle of this machine is that if hanger bracket is positioned on the supporting clamp arm, the shock absorber shall be relatively in parallel with rack. Then the supporting clamp arm shall be locked, and make sure that lock nut is tightened and the hanger bracket is fixed.
2. Compressing spring: pull the handle to make left and right compression arms in the position where spring can be hooked and compressed. Then adjust left and right supporting clamp arms (Adjust up or down according to spiral angle and diameter of spring, to ensure the consistency between two compression arms and spring spiral angle).
3. Adjust the two knuckles forward or backward according to spiral angle and diameter of spring, to ensure relative parallel between shock absorber and rack when spring is compressed. If the hanger bracket inclines forward or backward, reverse adjustment can be taken by using the two knuckles and the knuckle nut is tightened.
4. Sometimes adjustment of items 2 and 3 need to be done alternately.
5. Pull the handle (clockwise) to compress spring slowly, stop it at the position where it is convenient for operation.
6. Loosening spring: First pull the handle clockwise for about 1/4 circle to loosen self-lock device of clutch, and then turn handle slowly anticlockwise to reset the spring.

III Attentions

1. While compressing spring, downward looking in operation is absolutely prohibited. That is operator mustn't face the upper base of spring, in case of accident due to error operation.
2. Regularly check whether each part of machine is in good condition and lubricate the rack for maintenance.
3. Filling oil in the friction disk of clutch is prohibited.
4. If some hanger bracket springs incline too much in compression (on the occasion when it even can't be adjusted by means of item 2 of the operation), we can adopt the following method: tighten round nut and fix compression arm bracket, and ensure the hanger bracket shock absorber in relative parallel with the rack in adoption of the method of remaining a baseline with the supporting clamp arm.

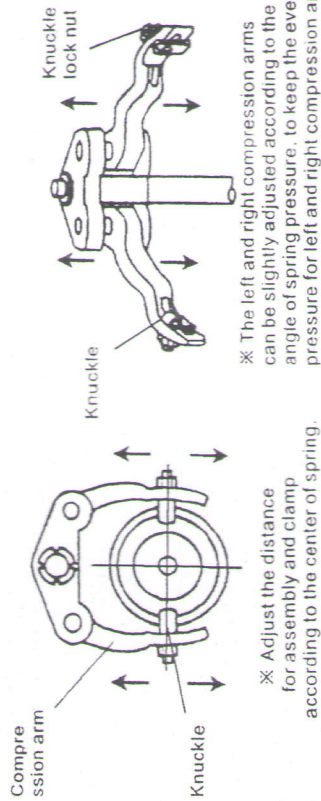


Fig. 3

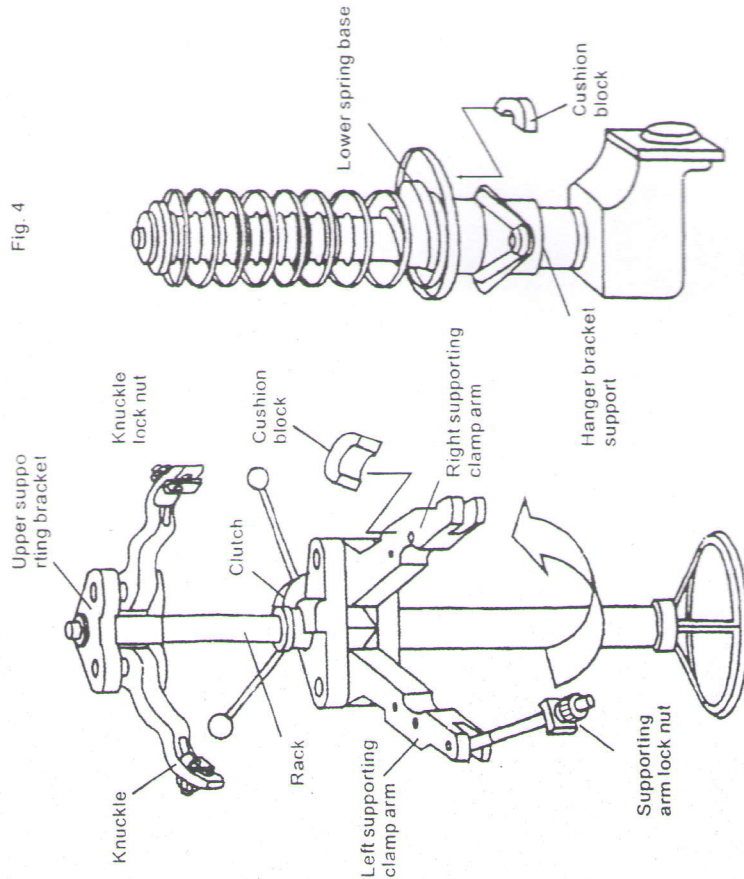
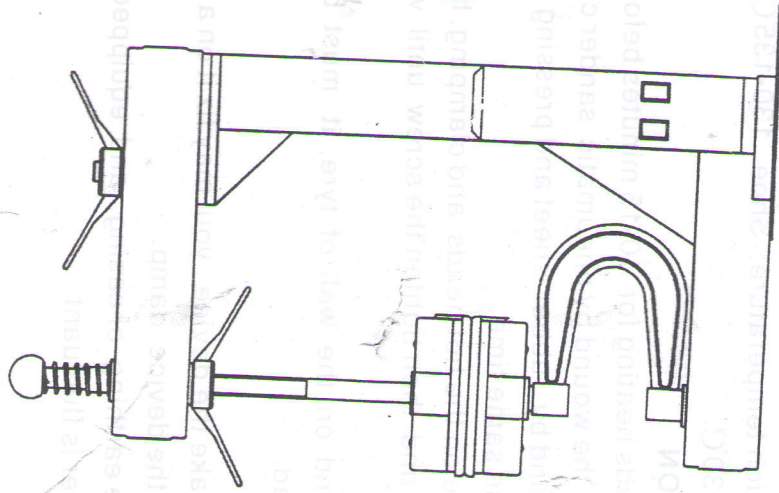


Fig. 4

Fig. 2 Suspension assembly of Audi automobile

Fig. 1

Table Vulcanizator



OPERATION

1. Temperature 150-180°C.
2. Max. capacity 1000g.
3. Single bowl 2000g.
4. Max. capacity 1000g.
5. Bowl 1000g.

U S E R ' S M A N U A L

STRUCTURE

The machine consists of a vertical frame with a horizontal top bar, a central heating element, and a control panel with a pressure gauge and a valve. The machine is designed for the vulcanization of rubber products.

FEATURES

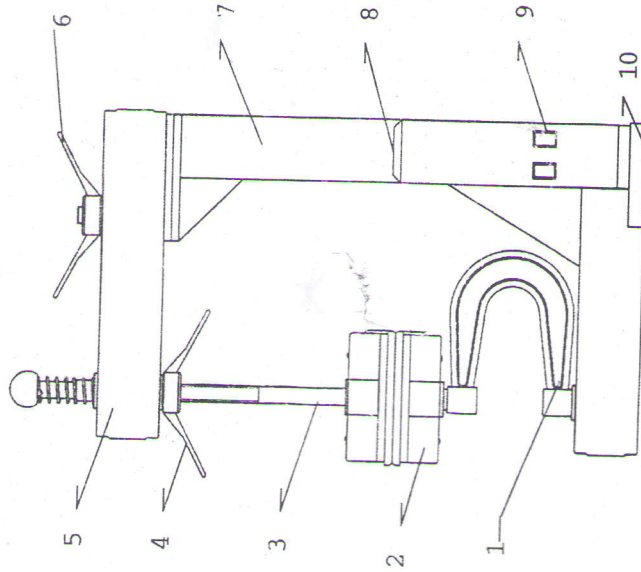
The machine is designed for the vulcanization of rubber products. It is easy to use and requires no special skills. The machine is made of high quality materials and is durable.

● **FEATURES**

This device is designed for the tyres of car, truck, microbus and tractor. It's effective vulcanization for broken surface of tyre.

It equipped automatic double heating heads, makes your operation convenient.

● **STRUCTURE**



1. U iron handle 2. heating head 3. pressure screw 4. pressure handle 5. rotatable head 6. lock handle 7. machine body 8. temperature controller 9. switch 10. pedestal

● **TECHNICAL DATA**

1. Voltage: 220V 50Hz
2. Power: 1000W
3. Single power: 500W
4. Max. current: 10A
5. Vulcanization temperature: Shoe 130-135°C Inner tube 120-130°C

● **OPERATION**

1. Let the heads heating for 10-15 minutes before using.
2. To burnish the wound by pneumatic sander cleanly.
3. Fill the wound by rubber sheet and pressing out by the wheel at the same time.
4. Put the tyre on the hot heads and clamping, heat up for 5 minutes and then tighten the screw until vulcanizing end.

5. If the wound on the wall of tyre, it must be pasted fortified pad.

● **NOTICE**

1. Do not shake the device, you may fix it on a table.
2. Do not let the device damp.
3. Protective earthing of casing, and equipped manostat when power is fluctuant.



Тягло Автоматизатор

0.5T TRANSMISSION JACK

OPERATING INSTRUCTIONS

4. Feature

1. The machine is simple in structure and extra long lift range.
2. Light in weight
3. Saddle adjustable.
4. For style A it is simple in structure, it is adjustable in angle for style B (it is safe and reliable while hinged body chain).

5. Operation instruction

WARNING: Before use ensure you have read, understood and apply Section 3 safety instructions.

WARNING! Ensure you prepare vehicle correctly before attempting to use the Transmission Jack.

5.1. POSITIONING JACK BENEATH LOAD.

Before use ensure the transmission weight and size does not exceed the capacity of the jack.

5.2. LOWERING THE LOAD.

WARNING! Ensure the load is central and stable on the jack saddle and load is fixed in place before attempting to lift, lower, or transport.

SLOWLY turn the release valve knob anti-clockwise to GENTLY lower saddle to the lowest minimum height before attempting to transport load.

IMPORTANT: The unit is fitted with a Dead Man release valve. The quicker the valve knob is turned the more rapid the jack's descent.

Ensure the jack's descent is slow and controlled to avoid the risk of sudden dropping which could be dangerous. The valve will automatically return to the closed position when the knob is released.

5.3. TRANSPORTING THE LOAD.

WARNING! Ensure you have read, understood and apply Section 1 safety instructions.

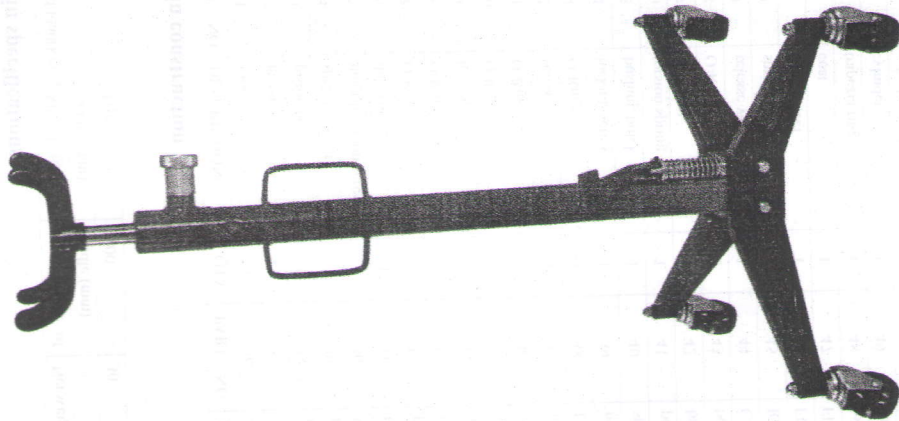
6. Maintenance

IMPORTANT: Only fully qualified personnel should attempt maintenance or repair.

- 6.1. When the jack is not in use, the saddle must be in the lowest position
- 6.2. Keep the jack clean and wipe off any oil or grease. Lubricate all moving parts with acid free oil.
- 6.3. The oil cylinder is a sealed unit and must not be accessed. For service contact your authorised dealer.

WARNING! Only a good quality Jack oil must be used, DO NOT use brake fluid.

- 6.4. Before each use, follow the pre-check list to ensure components are in good working order. DO NOT use the jack if you believe it has been subjected to an abnormal load or shock.
- 6.5. Periodically check the pump piston and piston rod for signs of corrosion. Clean exposed areas with a clean oiled cloth.





1. Forward

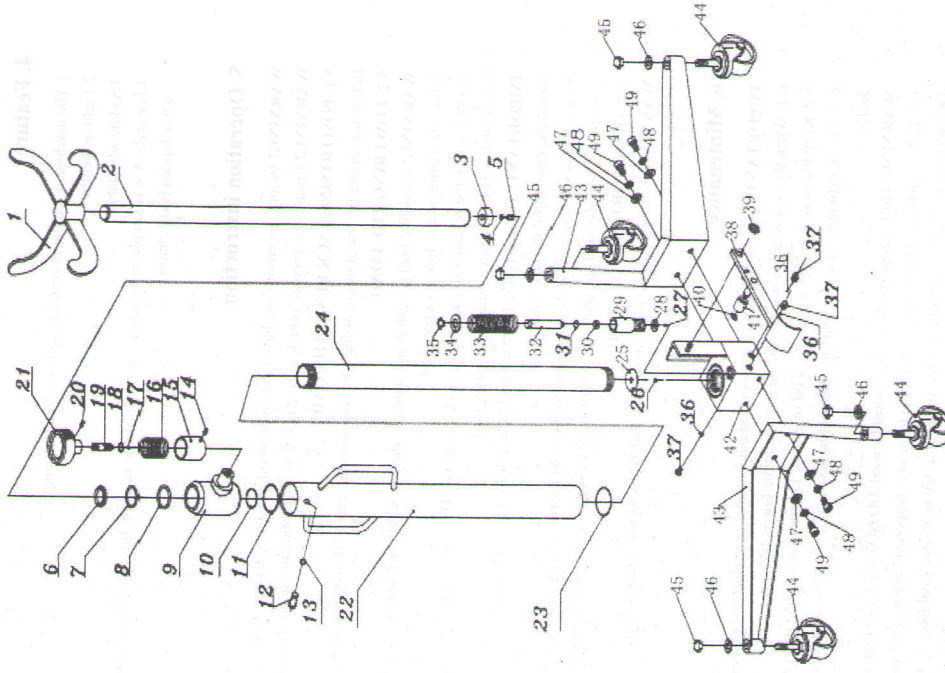
This jack is a removal hydraulic one that with the following advantage compact construction: light in weight, long lift range, fast in lift, replaceable in connection part, firmly and reliable in connection of ADT and so on.

It can be used when assembling and disassembling the removal parts and structural parts which need to be lifted, descended transported. It is the ideal tool for assembling and repairing in motor repair shop, mobile shop.

2. Main specifications

Rated load(kg)	Min height of saddle (mm)	Max height of saddle (mm)	Net weight(kg)	Dimensions(mm)
500	1100	1900	30	1120*230*280

3. Main construction



PART NO	DESCRIPTION	QTY	PART NO	DESCRIPTION	QTY
1	fork	1	26	steel ball	1
2	piston rod	1	27	steel ball	1
3	piston head	1	28	pump washer	1
4	spring washer	1	29	pump body	1
5	inner hexagon screw	1	30	V-Ring	1
6	dust ring	1	31	O-Ring	1
7	O-Ring	1	32	pump core	1
8	O-Ring	1	33	pressure spring	1
9	top cap	1	34	spring plate	1
10	O-Ring	1	35	spring collar	1
11	O-Ring	1	36	steel ball	3
12	screw	1	37	locking screw	3
13	O-Ring	1	38	Foot Pedal	1
14	locking screw	1	39	nut	1
15	bushing bolele	1	40	spring collar	1
16	torsion spring	1	41	pedal roller wheel	1
17	steel ball	1	42	base	1
18	O-Ring	2	43	bottom studs	2
19	release valve lever	1	44	Caster Wheel	4
20	spring catch	1	45	Round nut	4
21	hand wheel	1	46	Flat Washer	4
22	coat	1	47	Flat Washer	4
23	trapezia ring	1	48	spring washer	4
24	cylinder	1	49	inner hexagon screw	4
25	cylinder washer	1	50		

INSTRUCTION MANUAL

2200LB STRUT SPRING COMPRESSOR

9	Nut M8	2	23	Nut M12	2
10	Connect unit	1	24	Big clasp holder	2
11	Lower strut support	1	25	Chain	1
12	Shaft $\Phi 14 \times 85$	2	26	U-nut M6	1
13	Retainer ring $\Phi 14$	6	27	Screw M6	1
14	Screw M8x16	1			

6. Maintenance

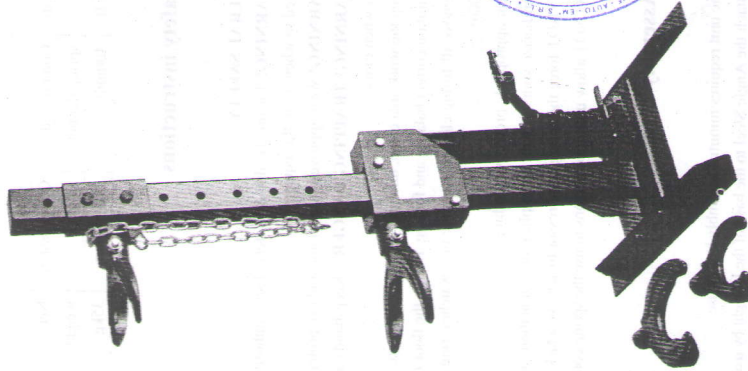
- Before each use, check the compressor to ensure it is not damaged or worn. If in any doubt DO NOT use the tool.
 - Remove it from service immediately and have it replaced or repaired by a qualified technician.
- Refilling the hydraulic system with oil is rarely necessary but the oil level should be checked in the event of a loss of performance.
 - To check oil level, ensure the Under Strut Support is fully lowered, remove filler plug and check flat level is within .4" of filler hole. Add hydraulic jack oil if necessary.

WARNING: DO NOT use brake fluid, or any fluid other than hydraulic jack oil as this will cause serious damage to the jack and invalidate the warranty!

Bleeding the Hydraulic System

- The Strut Spring Compressor must be securely mounted on a flat and level surface.
- Wipe the Oil Filler Plug and its surrounding area at the side of the Ram.
- With the tip of a flat tip screwdriver, pry and remove the rubber Oil Filler Plug.
- Pour fresh hydraulic jack oil into the Ram until it starts to overflow.
- Step on the Valve Release Pedal and allow the Under Strut Support to be lowered completely.
- While holding the Valve Release Pedal down, rapidly pump the Foot Pedal at least five full strokes. This should purge the air out of the system.
- Repeat step 6 above to make sure that the Ram is filled with oil.
- Wipe the plug and place its edge against the fill-hole and while applying thumb force behind the plug, work the rubber plug back into the fill-hole with the aid of the flat tipped screwdriver.
- After the plug is inserted, wipe off spilled oil from jack exterior with a clean and dry rag.

CAUTION: DO NOT operate the jack when the Oil Filler Plug is removed.



IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS.

1. Forward

A strut spring compressor for compressing a spring in a strut assembly which spring comprises an elongated straight element having first and second spring seats separated from each other with the spring coiled around said straight element and held between said seats, said strut spring compressor comprising

2. Main specifications

Capacity	Compressed spring diameter	Compression length	Net weight	Ram stroke	Dimensions
2200LB	400mm	210-570mm	35kg	330mm	1270*300*200mm

3. Safety instructions

GENERAL SAFETY.

- WARNING!** Ensure Health & Safety, local authority, and general workshop practice regulations are adhered to when using this equipment.
- WARNING!** Wear approved safety hand and eye protection (standard spectacles are not adequate).
- WARNING! TRAPPING DANGER—** Keep hands and fingers away from the spring and compressing Shoes when in use.
- Keep the work area clean, uncluttered and ensure there is adequate lighting.
- Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- Remove ill-fitting clothes. Remove ties, watches, rings and other loose jewellery. Contain and/or tie back long hair.
- Wear appropriate protective clothing.
- Familiarize yourself with the applications, limitations and potential hazards of the Spring Compressor.
- DO NOT** force the spring compressor to achieve a task it was not designed to perform.
- DO NOT** allow untrained persons to use the spring compressor.

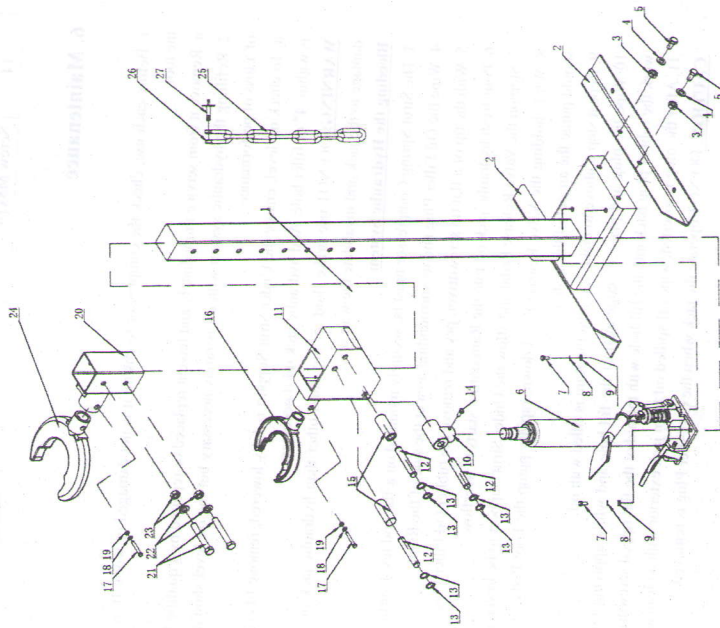
4. Assembly

- The unit requires minimal assembly before use.
- Attach the Angle Steel to the base of the Upright by using Bolts, Nuts and Washers. Be sure Angle Steel are fixed securely to the base as they provide stability and will be used to secure the unit to the floor.
- Push the Foot Pedal into the Socket on the hydraulic jack and secure with the Bolt and Washer.
- Push Circ clips into the groove on each retaining Pin.
- Slide the Upper Strut Support over the Upright to the required height and align the two holes in the support with two holes in the Upright. Slide the two Retaining Pins through the assembly and retain them in position using the R-clips.
- Two pairs of shoes are supplied. Choose one pair of shoes and attach them to the upper and lower support bracket by using the socket cap Screw, the R-clip, the Retaining Pin and the Circ clip. The shoes are designed to be used as matched pairs and should not be mixed.

- The unit must now be fixed securely to the ground in order to ensure the safety of the user. Mounting holes are to be found in the brackets, which allow the unit to be secured by way of masonry bolts or sinking pins (not included) into concrete.

WARNING! Whichever method is used, ensure the unit is adequately fixed and cannot topple.

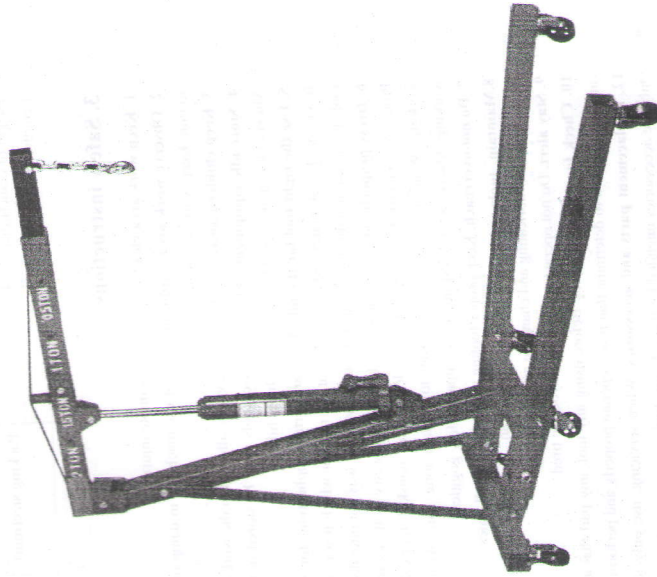
5. Main construction



PART NO	DESCRIPTION	QTY	PART NO	DESCRIPTION	QTY
1	Upright support	1	15	shaft sleeve φ 14x63x φ 25	2
2	Bracket	2	16	Small clasp holder	2
3	Nut M10	4	17	Screw M12x70	2
4	Washer φ 10	4	18	Washer φ 12	2
5	Screw M10x20	4	19	Nut M12	2
6	Foot pump	1	20	Clasp sliding unit	1
7	Screw M8x25	2	21	Screw M12x85	2
8	Washer φ 8	2	22	Washer φ 12	2

INSTRUCTION MANUAL

1/2-2T FOLDABLE SHOP CRANE



5. Operation instruction

1. To raise the Extension Boom, close the Release Valve on the Hydraulic Ram. Then, pump the Handle until the Extension Boom reaches the desired height.
2. To extend the length of the Extension Boom, remove bolt and nut. Pull out on the Extension Boom until the desired extension hole in the Boom aligns with the hole in the Extension Boom. Then re-insert the bolt through the holes in the Boom and Extension Boom, and lock the bolt in place with the nut.
3. **WARNING! Do not exceed the maximum lifting capacities of this tool.** Exceeding the maximum lifting capacities could cause personal injury and/or property damage. **The longer the Extension Boom is extended, the lower the lifting capacity of this Foldable Shop Crane.**
4. Position the Foldable Shop Crane so that the Hook is directly above the object you wish to lift.
5. **WARNING! Stay clear of the Foldable Shop Crane.** Never go under an object being lifted by the Crane. It is possible for the Hook to slip, causing an object to fall, possibly resulting in serious injury and/or property damage. Always monitor the object being lifted so it does not rock back and forth.
6. Open the Release Valve slightly to lower the Hook. Attach the Hook to the object you are lifting, and make sure the Safety Latch on the Hook is fully closed. Then close the Release Valve, and pump the Handle to raise the object. Carefully move the Foldable Shop Crane to the location where you wish to lower the object, i.e., an engine stand, proper support, floor surface, etc. Then lower the object by opening the Release Valve slightly.
7. Once the object is fully lowered, disconnect the Hook from the object. Then store the Foldable Shop Crane (unfolded or folded) in a clean, dry, safe location out of reach of children and other unauthorized people.

6. Maintenance

1. Check all of the mounting hardware before each use and make sure it is secure before using the Shop Crane.
2. Make sure the Hook & Chain are clean of dirt, grease, or debris.
3. If the Jack is not performing to satisfaction, there may be air in the hydraulic system. To purge the system of air, follow these instructions.
 - a. Make sure the Ram is completely lowered.
 - b. Remove the Oil Fill Plug and top off with Hydraulic Fluid.
 - c. Raise the Ram to maximum height.
 - d. Loosen the Release Valve and push the Ram all the way down.
 - e. Top off with Hydraulic Fluid and replace the plug. Repeat if necessary.
4. To clean, use a damp cloth and a mild detergent. Do not use solvents or other flammable agents.
5. If lifting performance of the Foldable Shop Crane begins to diminish, check the hydraulic oil level in the Oil Tank. If necessary, top off the Oil Tank with hydraulic oil.



IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS.



1. Forward

This engine crane is intended to be used to remove, install and transport in the lowered position rated capacity automotive and light truck engines and engine assemblies. It must be used with appropriately rated engine leveller, sling and/or chains which are NOT INCLUDED. Always removing, immediately transfer the load to an appropriately rated work station such as an engine stand.

2. Main specifications

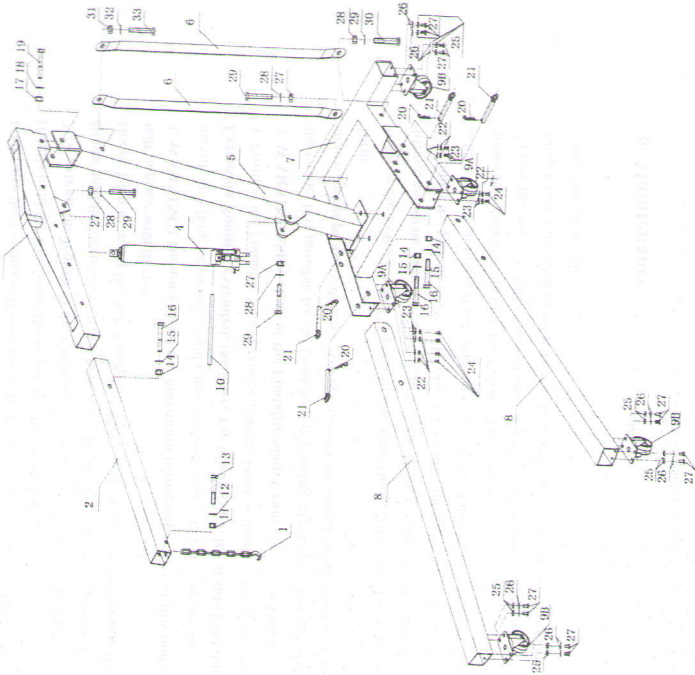
Capacity (kg)	500-2000	G.W.(kg)	58-95
Lifting height(mm)	2380	N.W.(kg)	56-93
Height of crane(mm)	1450	Packing size(mm)	1# 1360*315*160
Length of height(mm)	1550		2# 730*585*90

3. Safety instructions

1. Keep work area clean. Cluttered areas invite injuries.
2. Observe work area conditions. Do not use machines in damp or wet locations. Don't expose to rain. Keep work area well lit.
3. Keep children away. Children must never be allowed in the work area.
4. Store idle equipment. When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. Use the right tool for the job. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
6. Dress properly. Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically nonconductive clothes and nonskid footwear are recommended when working. Wear restrictive hair covering to contain long hair. Wear heavy work gloves when working. Always wear ANSI-approved impact safety goggles.
7. Do not overreach. Keep proper footing and balance at all times.
8. Maintain tools with care. Keep tools clean for better and safer performance. Follow instructions for lubricating and changing accessories.

9. Stay alert. Do not operate any tool when you are tired.
10. Check for damaged parts. Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function.
12. Replacement parts and accessories. When servicing, use only identical replacement parts. Only use accessories intended for use with this tool.
13. Do not operate tool if under the influence of alcohol or drugs.
14. Never exceed the maximum lifting capacity. Beware of Dynamic Loading! Swinging or allowing a load to suddenly jerk on the chain of the Shop Crane may create, for a brief instant, an excess load, which may result in damage to the product, damage to the load, SERIOUS PERSONAL INJURY, and/or DEATH.
15. Maintenance. For your safety, service and maintenance should be performed regularly by a qualified technician.
16. Not to be used for aircraft purposes.
17. Do not attempt to move the Crane when under load. The Swivel Casters are not designed to be rolled when the Crane is lifting a weight.

4. Main construction



PART NO	DESCRIPTION	QTY	PART NO	DESCRIPTION	QTY
1	Hook	1	17	Nut M16	1
2	Extension boom	1	18	Washer φ16	1
3	Boom	1	19	Bolt M16x110	1
4	Long ram jack	1	20	Wire-steel cotter pin	2
5	Support post	1	21	Round pin	4
6	Support brace	2	22	Nut M8	8
7	Base	1	23	Washer φ8	8
8	Leg	2	24	Flat shoulder bolt M8x16	8
9A	Caster wheel(φ75mm)	2	25	Nut M8	16
9B	Caster wheel(φ90mm)	4	26	Washer φ8	16
10	Handle	1	27	Bolt M8x16	16
11	Nut M12	1	28	Nut M16	4
12	Washer φ12	1	29	Washer φ16	4
13	Bolt M12x75	1	30	Bolt M16x90	4
14	Nut M14	3	31	Nut M16	1
15	Washer φ14	3	32	Washer φ16	1
16	Bolt M14x90	3	33	Bolt M16x100	1

5. Operation instruction

1. 20-Ton Shop Press comes with two Arbor Plates. The Arbor Plates can be used individually or connected as shown below by the Arbor Lock.
2. The gap between the two plates is expandable from 0-5". To adjust the space between the two Arbor Plates, loosen each bolt on the side of the plates, adjust the gap between the plates, then retighten the bolts before use.
3. To set the Aprons at a specific height, slide the two Pins through opposite adjustment holes on the Press Frame legs and secure in place using the two R-Clips.
4. Place the Arbor Plate onto the Press Apron, making sure to center it on the Press Apron.
5. **WARNING!** If the Arbor Plates rest on an obstruction (such as bolt, debris, etc.) an uneven base can be created. This can lead to unusual stress on the Arbor Plates and possibly a break and/or personal injury.
6. Insert the narrower jack handle (the end with the pin) into the larger handle and engage the pin into the "T" slot.
7. Using the slotted end of the jack handle, tighten (turn clockwise) the relief valve of the Jack.
8. Insert the larger tube of jack handle into the Jack Handle Connector located to the side of the Jack.
9. pump the handle up and down to extend the Jack and operate the Shop Press.
10. **WARNING!** Should you detect any kind of structural failure, stop using the Shop Press immediately. If necessary, have the unit repaired by a qualified service technician.
11. When finished, remove the jack handle from the Jack Handle Connector and loosen (turn counter-clockwise) the relief valve of the Jack.

bleeding

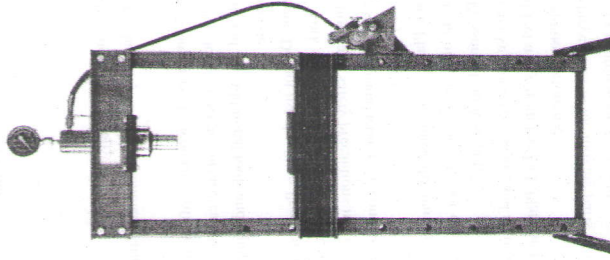
1. Remove the Oil Fill Plug located on the back of the Jack to expose the Oil Fill Hole.
2. Open the Release Valve located on the front of the Jack above. Insert the Jack Handle into the Pump Core. Slowly pump handle to force air out of the Oil Fill Hole.
3. As soon as the oil starts to come out of the hole, stop pumping. Replace the Oil Fill Plug. Close the Release Valve.
4. Check the oil level. It must be just below the Oil Fill Hole. If necessary, fill with high quality hydraulic oil.

6. Maintenance

1. **Caution:** Always release load from the Shop Press before performing any inspection, maintenance, or cleaning.
2. Before each use, inspect the general condition of the Shop Press. Check for structural failure, loose, cracked, bent or damaged parts, misalignment or binding of moving parts, 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. To prevent rust, coat all exposed surfaces with a light weight oil.
4. Always keep the Arbor Plates and Press Apron area clean and free of oil and other lubricants.
5. To clean, wipe with a clean, damp cloth.
6. When storing, keep the Shop Press covered with a clean drop cloth in a cool, dry location.

INSTRUCTION MANUAL

10/12/20 T SHOP PRESS(WITH METER)



IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS.

1. Forward

This Shop Press is designed for automotive, truck, implement, fleet, and industrial repair shops where pressing, bending, straightening and forming, is required. Typical applications include installation and removal of alternator and power steering pump bearings, axle bearings, transmission bearings, seals, u-joints and others. It is not intended for use as an assembly table or as fixture stand used to secure a large, final assembly component. Unlike presses equipped with a separately mounted pump, the power unit on this press can not be equipped with a pressure gauge.

Therefore monitoring the load must be done by other means, such as a load cell w/ digital indicator. Whatever means is chosen, the load measuring means shall be calibrated annually.

2. Main specifications

Capacity	Max working distance	Min working distance	Stroke	Packing size	Net weight
10T	858 mm	90mm	135mm	107T/12T: 1320*220*210mm	70kg
12T	858 mm	90mm	135mm	20Ta: 1595*210*115mm	70kg
20T	1035mm	90mm	145mm	20Tb: 650*225*250mm	90kg

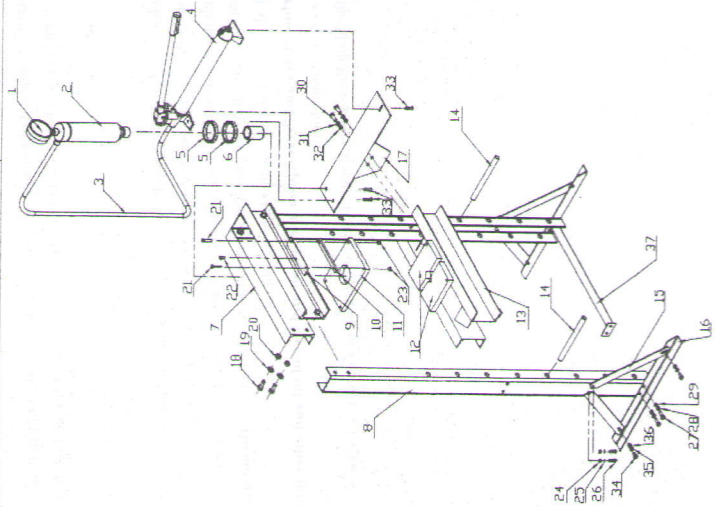
3. Safety instructions

SPECIFIC PRODUCT WARNINGS

- Do not operate the Shop Press beyond rated capacity.
 - Warning!** If you detect anything that may indicate imminent structural failure of the Shop Press, discontinue use immediately.
 - Do not install this equipment on any asphalt, wooden, soft or tiled surface. Make sure the Shop Press is firmly secured to a dry, oil/grease free, flat, level concrete surface capable of supporting the combined weight of the Shop Press, the workpiece being pressed, and any additional tools and equipment. Do not install the Shop Press on expansion seams or on cracked, defective concrete.
 - Maintain a safe work environment. Do not use the Shop Press near wet areas and do not expose to moisture. Make sure there is adequate surrounding work space. Do not operate in the presence of flammable liquids, gases, or dust.
 - Read and understand all instructions and safety precautions in the manufacturer's manual for the workpiece you are pressing, when applicable. Always use the manufacturer's recommended pressing points, minimum/maximum pressing force required, etc. for the workpiece you are pressing.
 - Avoid off-center loads. If the Jack Plate seems unusually hard to press, immediately stop the operation. Adjust the workpiece to eliminate or diminish an off-center load. Do not operate the Shop Press if the workpiece tilts or binds during the down movement of the Pressure Head Assembly.
 - Prior to lowering the Jack Plate remove tool trays, stands, and all other tools and equipment from the Press Apron.
 - Always keep hands, fingers, and feet away from the Jack Plate and Press Apron during the pressing process. Make sure the Jack Plate(s) are in good condition before use.
 - Never attempt to remove a workpiece stuck in the moving parts of the Shop Press. Unscrew the Release Valve and, only after returning the Jack Ram to its neutral position, should you attempt to remove the workpiece.
 - The workpiece must be supported and controlled at all times during operation. Use a roller stand (not provided) with a larger workpiece. Whenever possible, secure the workpiece with clamps (not provided).
 - Once contact between the pressure head and workpiece has been made, step away as far as possible and continue to slowly apply pressure until the procedure is complete.
 - Never leave a compressed workpiece unattended. When a workpiece is compressed, there is a large degree of force that has been stored in the workpiece, which must be controlled until the pressure from the Head Assembly is released.
 - Before performing service or maintenance release the load from the Shop Press.
- Warning:** The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

4. Main construction

PART NO	DESCRIPTION	QTY	PART NO	DESCRIPTION	QTY
1	Press meter	1	20	M14 Nut	4
2	Ram	1	21	M8 x40 Bolt	4
3	Hose	1	22	M8 x16 Bolt	2
4	Pump	1	23	M8 Nut	4
5	Fixing ring	2	24	M12 Nut	4
6	Press head	1	25	Washerφ12	4
7	Crossbeam	2	26	M12 x25 Bolt	4
8	Post	2	27	M10 x30 Bolt	4
9	Small press block	2	28	Washer φ10	4
10	Cushion block	2	29	M10 Nut	4
11	Fixing block	1	30	M10 x25 Bolt	2
12	Working Block	2	31	Washer φ10	2
13	Work bench	1	32	M10 Nut	2
14	Pin	2	33	M10 x16 Bolt	3
15	Bracing	4	34	M10 x25 Bolt	4
16	Foot	2	35	Washerφ10	4
17	Shelf	1	36	M10 Nut	4
18	M14 x30 Bolt	4	37	Rung	1
19	Washerφ14	4			



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**Dichiara, sotto la propria responsabilità, che il prodotto
Declares, under its own responsibility, that the product**

Tipo/Type: CENTRAFARI / HEADLIGHT TESTER

Attrezzatura idonea al controllo dei fari per autoveicoli, ciclomotori e motocicli

Device suitable for testing of headlights of all types of vehicles

Modello/Model:	HL 19D
Serial number:	9805
Anno di costruzione/Year of construction:	2018

è conforme alle disposizioni legislative della:

Direttiva macchine 2006/42/CE e successive;

EN S 50081-1 Legge 89/336/CE compatibilità elettromagnetica e successive;

Direttive Europee 89/392/CE di tipo A e bassa tensione 2006/95/CE;

Norma ISO 10604.

complies to the requirements of:

Machinery Directive 2006/42/CE and following modifications;

EN S 50081-1 Electromagnetic compatibility Directive 89/336/CE and the following modifications;

European Directives 89/392/CE of A Type;

Low voltage Directive 73/23/CE;

Norms ISO 10604.

Rimini: 27/07/2018

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PROCEDURA DI COLLAUDO CENTRAFARI HL

Modello/Model:	HL 19D
Serial number:	9805
Anno di costruzione/Year of construction:	2018

TEST DI COLLAUDO

NOTA DI COLLAUDO: Il collaudo della macchina viene effettuato a temperatura e umidità ambiente

PROVE STATICHE

Controllo bolla di livello	OK	Controllo visivo	OK
Connessioni sulla scheda	OK	Controllo visivo di integrità macchina e componenti	OK
Connessioni sul tasto (se presente)	OK	Voltaggio batteria	OK

PROVE DINAMICHE

Allineamento Plancia	OK	Funzionamento caricabatterie (se presente)	OK
Allineamento e fissaggio lente	OK	Funzionamento scorrimento	OK
Funzionamento Luxometro	OK	Funzionamento puntatore laser (se presente)	OK
Funzionamento tasto abb/anabb (se presente)	OK	Funzionamento visore laser (se presente)	OK
Funzionamento rotella scorrimento plancia (se presente)	OK		

CONTROLLO ACCESSORI DI CORREDO

Manuale di uso e manutenzione	OK	VITI fissaggio palo alla base	OK
Dichiarazione CE	OK	VITI fissaggio scatola ottica	OK
Visore a specchio (se presente)	OK	VITI fissaggio visore	OK
Visore laser (se presente)	OK	VITI fissaggio rotaie (se presente)	OK

NOTE DI COLLAUDO

DATA DI COLLAUDO: 27/07/2018

IL COLLAUDATORE

