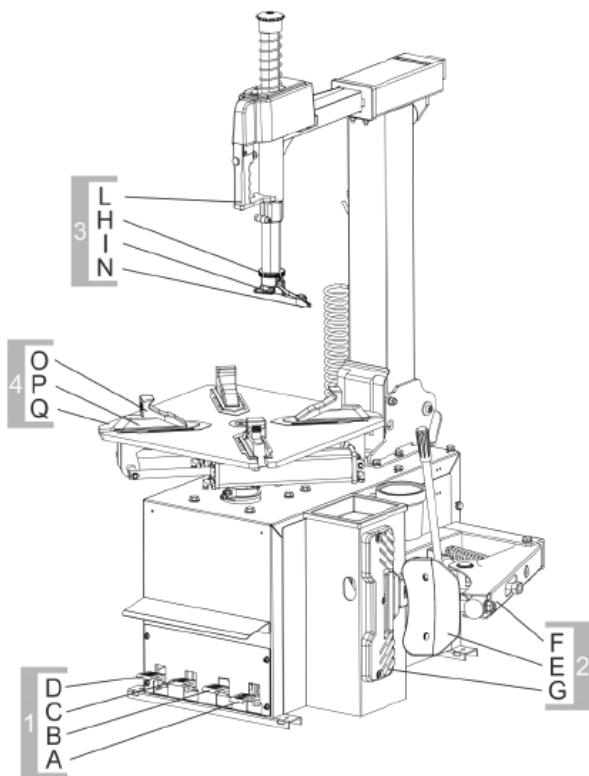


Operating manual

CTC 10-26 HPR850

Installation, operation and maintenance



Edition 07.10.2026 | English

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About this manual

This manual covers installation, operation and maintenance of the HAMMER TOOLS CTC 10-26 base machine sold with HPR850. It is based on the matching CTC10-26 source manual, version JH202401.1.0. The source does not include HPR850 assist-arm installation instructions. This edition therefore does not replace separate instructions for that accessory. Read completely before work and keep with the machine. Operation is restricted to trained personnel; do not use in explosive atmospheres.

The source manual and shop differ on clamping ranges. The source specifies external 10"-24" and internal 12"-26"; the shop assigns these ranges the other way round. Until conclusively confirmed, these figures do not authorise work at capacity limits. Identify the electrical version actually delivered from its rating plate. Safety pressure limits are unchanged.

These diagrams are retained unchanged to document the source. A: 220 V, single-phase, 1.1 kW. B: 380 V, three-phase, 0.75 kW. They are not confirmed connection diagrams for the 230 V, 1.5 kW machine offered in the shop. Before connection or repair, a qualified electrician must identify the correct diagram using the rating plate, motor version and controls. Do not adopt voltages, protection ratings, cable sizes or terminal assignments from these reference diagrams without verification.

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1. Application and technical data

The machine is designed for mounting and demounting tyres for cars, vans, light commercial vehicles and, with suitable accessories, motorcycles. Use it only within its intended operating limits. Damage caused by incorrect or unintended use is not covered by the warranty described in the source manual.

CTC 10-26 product data

External clamping range	10"-24"
Internal clamping range	12"-26"
Maximum tyre diameter	1 040 mm
Tyre width	3"-15"
Bead-breaking force (shop specification)	2 700 kg
Operating pressure	8-10 bar
Power supply (depending on version)	230 V / 50 Hz / 1 PH
Motor power (shop specification)	1.5 kW

Clamping ranges are from the source manual; other table values are from the Hammer Tools shop on 07.10.2026. The original table gives 220 V/1.5 kW and 380 V/1.1 kW, and 207 kg for CTC10-26; its 250 kg and 1,150 mm values belong to the other model CTC10-28. This does not confirm the weight of the delivered configuration with assist arm. The appendix diagrams show different motor ratings again and are reference documents, not wiring plans to use without verification.

2. Components and controls

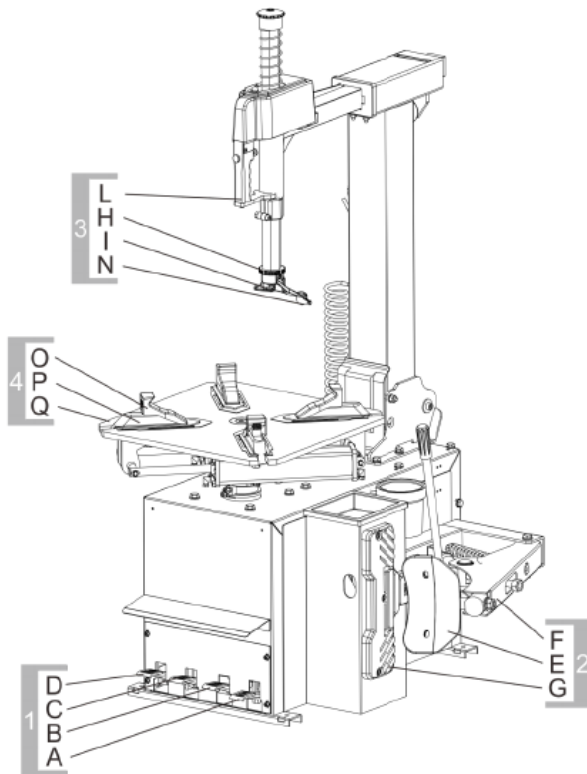


Fig. 1

Fig. 1 – Pedals: A turntable, B bead breaker, C clamps, D tilting column. Bead-breaker unit: E blade, F pneumatic double-acting arm, G wear-resistant rubber pad. Column: H sliding horizontal arm, L pneumatic locking handle, I mounting/demounting head, N nylon protector. Chuck: O four clamps, P four guides, Q self-centring turntable with two air cylinders, rotating in both directions. Locking automatically positions the head with approximately 3 mm clearance.



Fig. 2

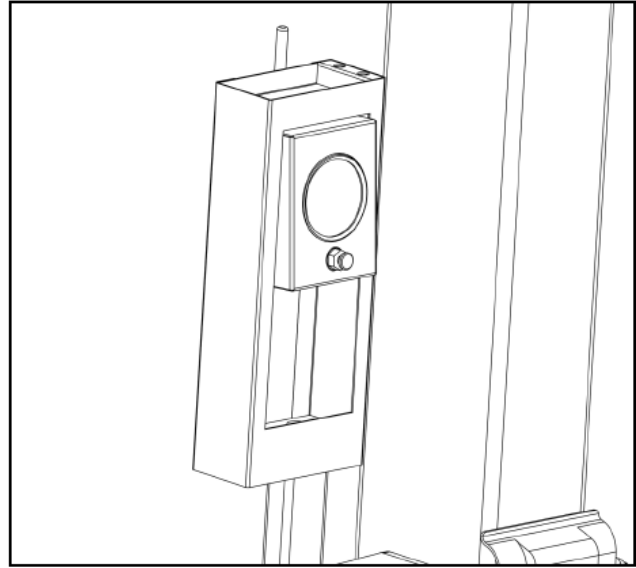


Fig. 3

Fig. 2: 1 lubricant pot; 2 bead-breaker protector; 3 tyre lever; 4 four clamp protectors; 5 three sets of head protectors; 6 lubricant brush. Store the lever in its side holder. Fig. 3: separate inflation station with gauge and hose beside the column. The source specifies a 10 bar (1,000 kPa) supply, 3.5 bar pressure limitation and a 4 bar maximum valve. These component ratings are not allowable bead-seating pressures: seating is limited to 40 psi (2.76 bar), or any lower manufacturer limit.

3. Safety and warning labels

Crushing hazard: Keep clear of the bead-breaker arm. Never put hands between the breaker and housing, between tyre and clamps, or in the mounting-head working area. Keep the clamps closed during bead breaking. Do not stand behind the machine: the tilting column can injure personnel.

Wear eye protection, suitable gloves and work clothing. Disconnecting compressed-air hoses can release high-pressure air. Bead seating and inflation can eject dirt, liquids or debris. Maximum machine operating pressure is 10 bar; this is not an allowable tyre inflation pressure.

Electric-shock hazard: Dangerous voltage is present inside the housing. Do not open covers during operation. Before intervention, disconnect power and air and release all stored compressed air. Electrical work is restricted to qualified personnel. Protect the machine from rain, water and wet conditions; do not tamper with components.

Read, understand and follow all warnings. Do not cover warning labels. Replace missing or unreadable labels immediately and do not use the machine until this is done. Failure to comply can cause serious injury or death. Keep the work area clean, tidy and well lit. Remove jewellery, secure loose clothing and tie back long hair; keep hands and body clear of moving parts.

Explosion hazard during inflation

Never exceed 40 psi (approximately 2.76 bar) when seating beads. After seating, never exceed the pressure specified by the tyre manufacturer. Any lower limit imposed by the tyre or rim manufacturer takes precedence. The machine and clamps do not provide containment for an exploding tyre.

An exploding tyre and rim can be thrown upwards and outwards with lethal force. Never lean or reach over the tyre or rim. Stand clear and keep bystanders away. Inflate in short bursts while continuously monitoring pressure.

Causes of explosion include mismatched tyre/rim diameters, damaged tyres or rims, excessive bead-seating pressure, exceeding the specified inflation pressure and failure to follow safety rules. The tyre size on the sidewall and the size marked on the rim must match exactly. Do not mount if sizes cannot be identified or defects are found.

Before bead breaking, release all air and remove the valve core. Remove all balance weights before mounting or demounting. Use only suitable approved tyre lubricant for demounting, mounting and bead seating. Inspect the tyre and rim carefully. These operations are restricted to trained operators.

The following original overview shows label positions. All warning text is explained in the preceding safety section. Labels on the delivered machine must be complete and legible.



4. Transport and positioning

Transport the machine in its original packaging and follow the package markings. Use a forklift of adequate capacity and insert the forks as shown in Fig. 4. The source specifies a transport temperature of -25 to +55 °C. Protect against moisture, vibration and impacts.

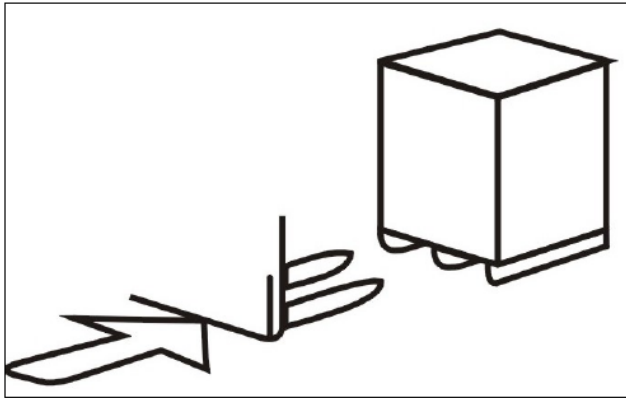


Fig. 4

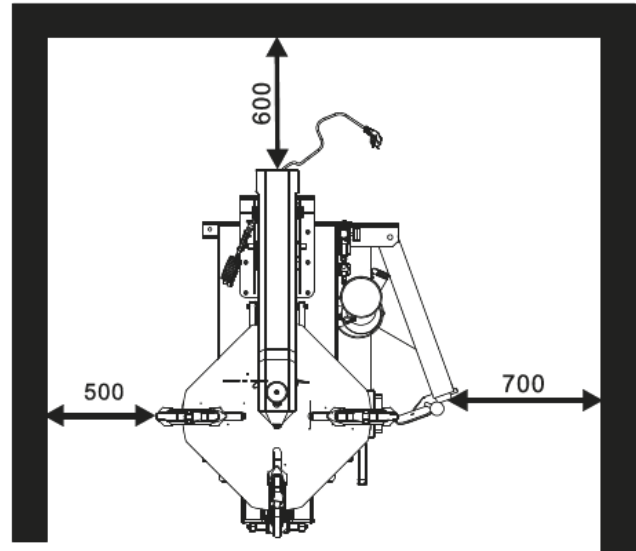


Fig. 5

Choose a site complying with local safety requirements, near power and air supplies. Fig. 5 shows minimum clearances for the base machine of 500 mm left, 600 mm rear and 700 mm right. Provide additional space for all movements, particularly the column and assist arm. All parts must be operable without restriction. Protect an outdoor installation from weather. Place the complete machine on a load-bearing floor and secure it against rocking.

After unpacking, inspect the machine and accessories for visible transport damage; report any damage to Hammer Tools. Wear gloves when unpacking. Dispose of plastic, nails, screws, wood and cardboard in accordance with local requirements. The machine is supplied partly dismantled; assemble the column and other components as follows.

5. Installing the tilting column

Unpack the accessory boxes, bead-breaker arm and column. Position the housing at the intended site. Remove the bolt, spring washer and flat washer on the housing. Remove the front guard (Fig. 6) and pivot pin from the column bracket (Fig. 7). Support the column securely and place it in the bracket with warning labels facing forward (Fig. 8). Align the holes, refit the pin and secure with a suitable torque wrench (Fig. 9). The source provides no torque value.

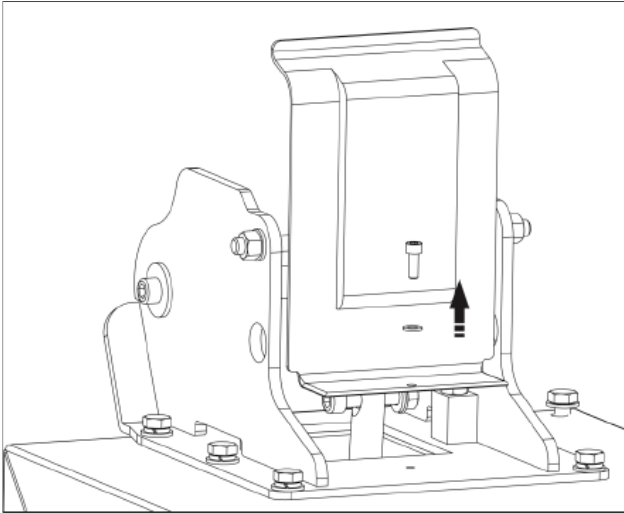


Fig. 6

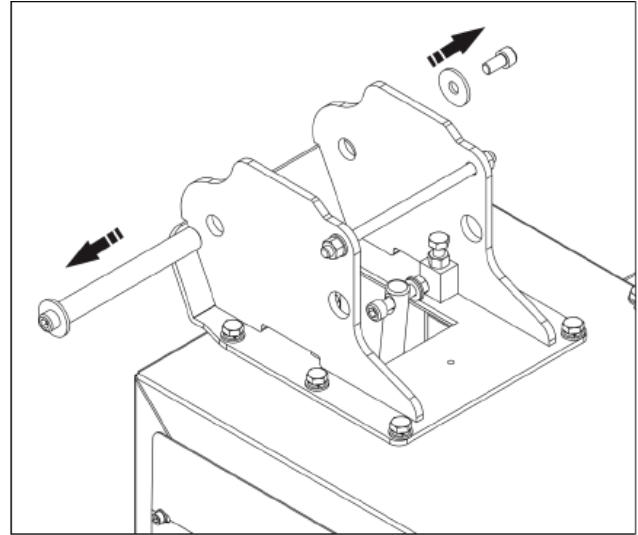


Fig. 7

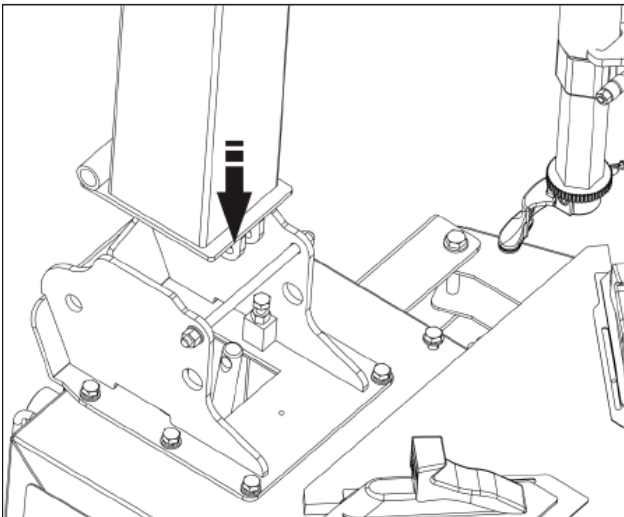


Fig. 8

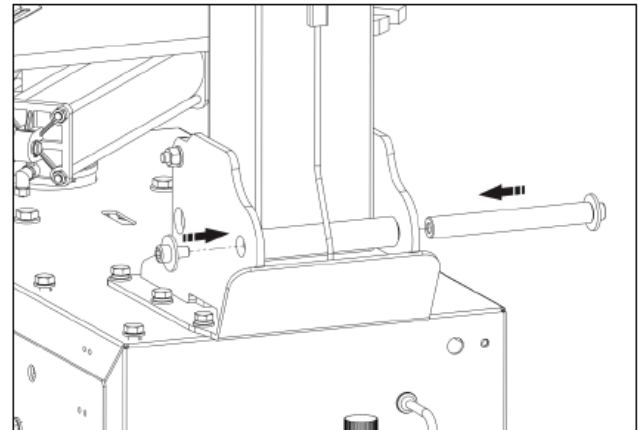


Fig. 9

Remove the bolt and nut from the column connecting plate. Align its hole with the cylinder-rod hole and refit the bolt and nut (Fig. 10). Do not clamp the joint rigidly: the source specifies the nut flush with the bolt end or approximately 2 mm below its end face. Refit the guard (Fig. 11). Route the 4 mm air hose from the horizontal-arm locking cylinder through the column into the housing and connect to the designated union (Fig. 12).

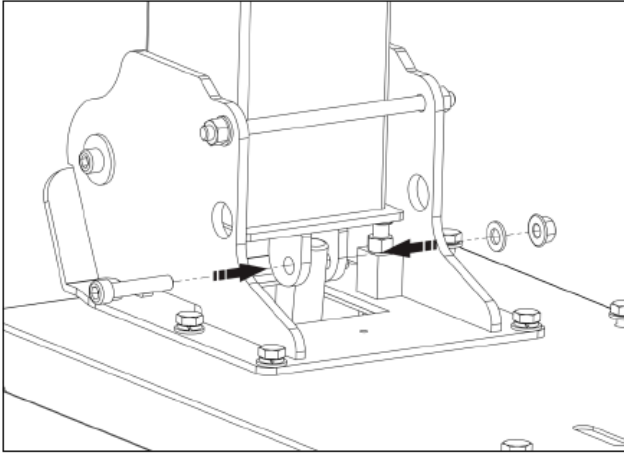


Fig. 10

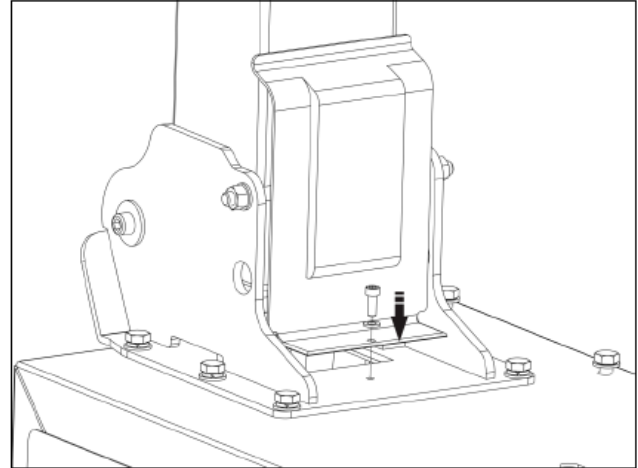


Fig. 11

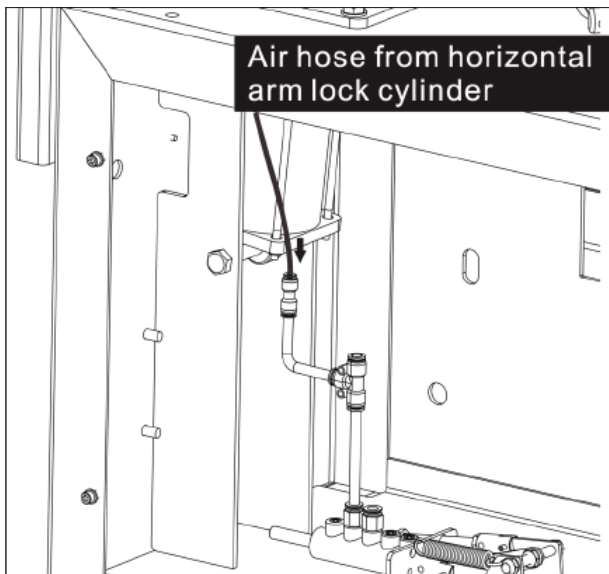


Fig. 12

Before removing the cap screw, secure the vertical tool shaft with the locking handle to prevent it sliding down and causing injury or damage. Undo the screw and remove the cap (Fig. 13: 1 shaft, 2 screw, 3 cap). Fit the spring on the shaft (Fig. 14), then refit cap and screw.

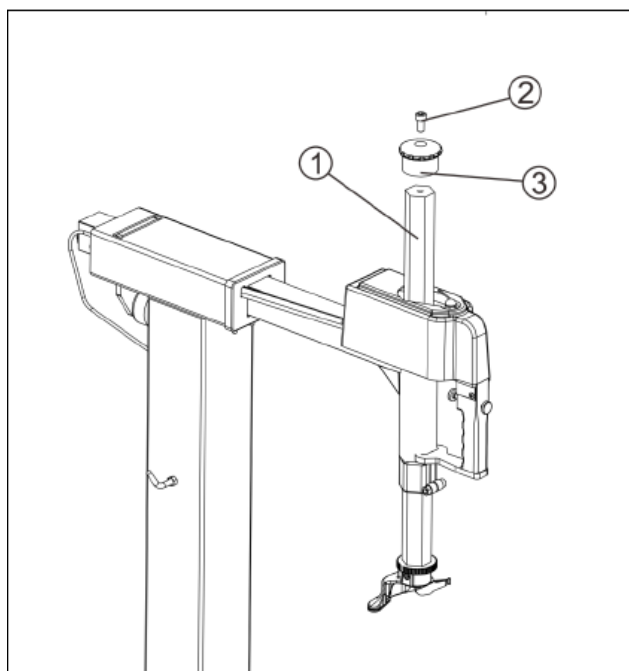


Fig. 13

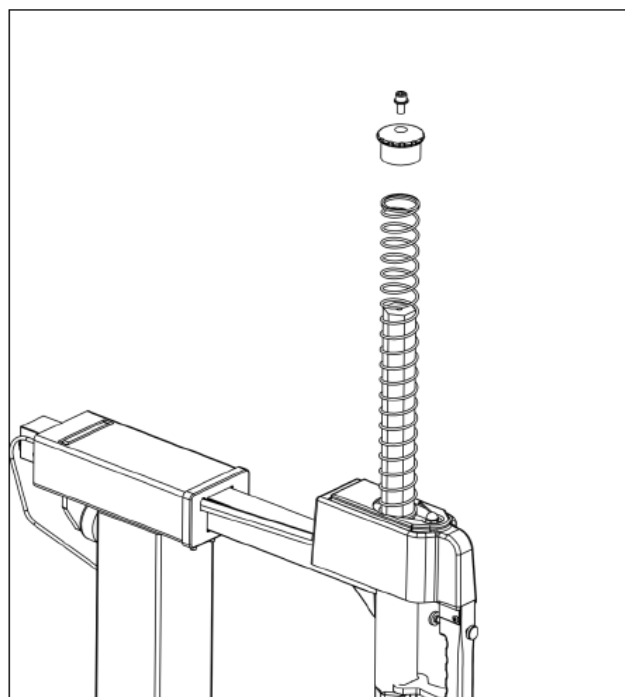


Fig. 14

6. Installing the bead breaker

Remove the locknut at the front of the bead-breaker piston rod (Fig. 15). Remove the arm nut and bolt; hang the spring. Place the arm shaft bushing in the housing bracket, align the holes, insert the bolt and secure the nut (Fig. 16). Pass the piston rod through the sliding bushing with its face outward (Fig. 17). Fit the nut on the front of the rod (Fig. 18). Set the gap between blade edge and rubber pad to 30-40 mm.

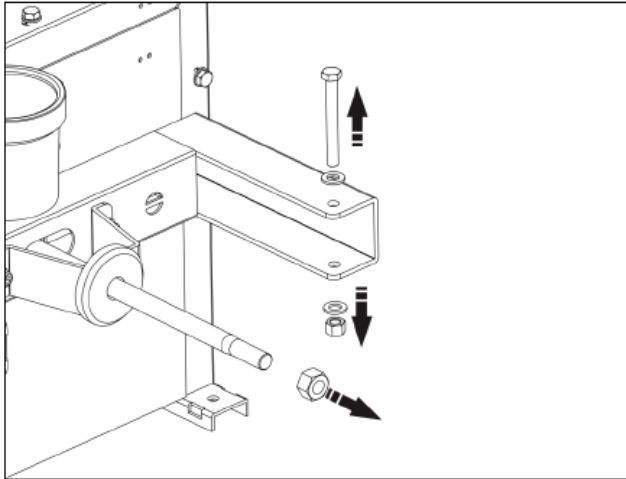


Fig. 15

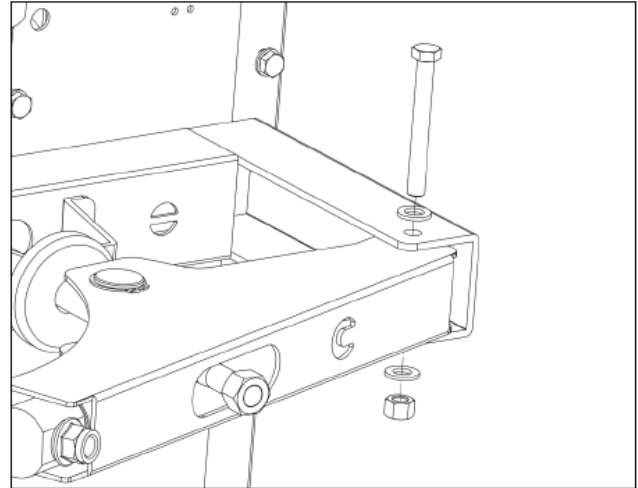


Fig. 16

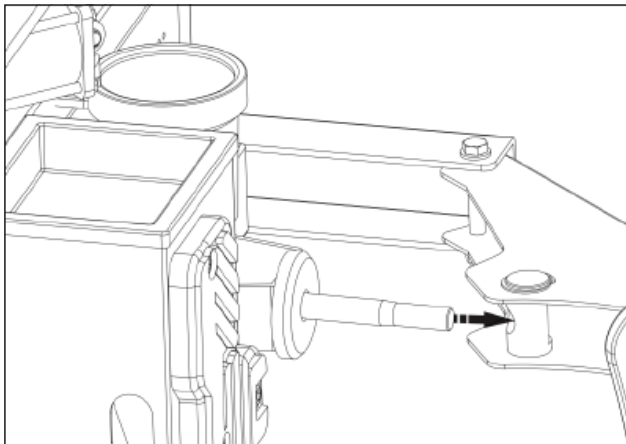


Fig. 17

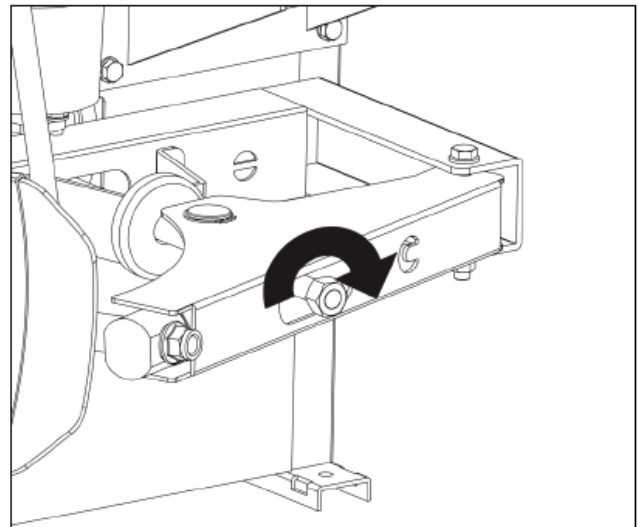


Fig. 18

Hook up the spring (Fig. 19). Loosen the blade locknut, adjust the blade to its correct position and retighten the nut (Fig. 20).

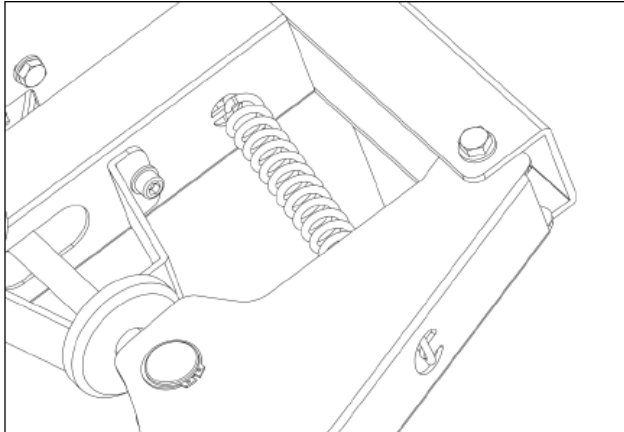


Fig. 19

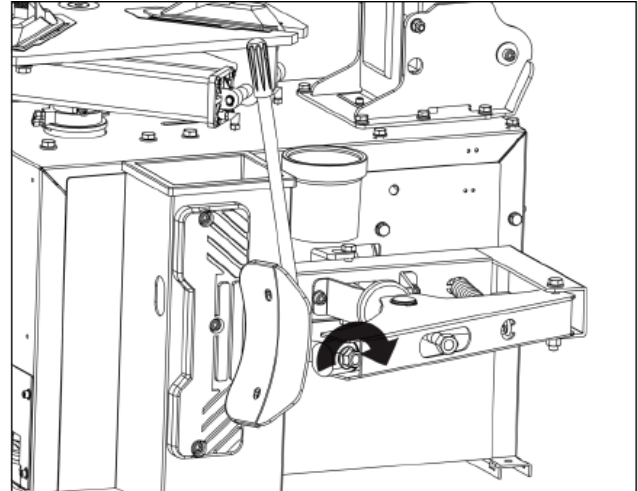


Fig. 20

7. Air service unit and accessories

Air installation is restricted to qualified personnel. Excess pressure can cause serious injury and machine damage. Prepare a Phillips screwdriver, air service unit and four M4 screws. Inspect the unit and clean its surface. Level the unit at the rear of the housing and secure with the four M4 screws (Fig. 21).

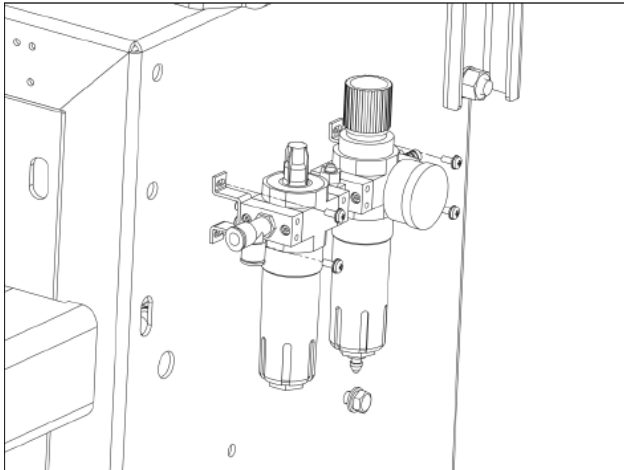


Fig. 21

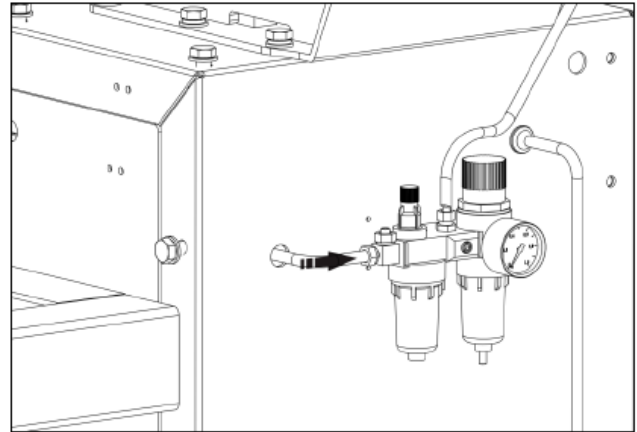


Fig. 22

Connect the main air hose first: remove the retaining strap that prevents it slipping into the housing and attach it to the service-unit union. Connect the inflation-gauge hose to the middle union (Fig. 22). Insert the lubricant-pot holder into the two holes on the right side and fit the pot (Fig. 23). Bolt the inflation-gauge stand to the side of the housing (Fig. 24). Connect the hose from the housing to the gauge fitting (Fig. 25).

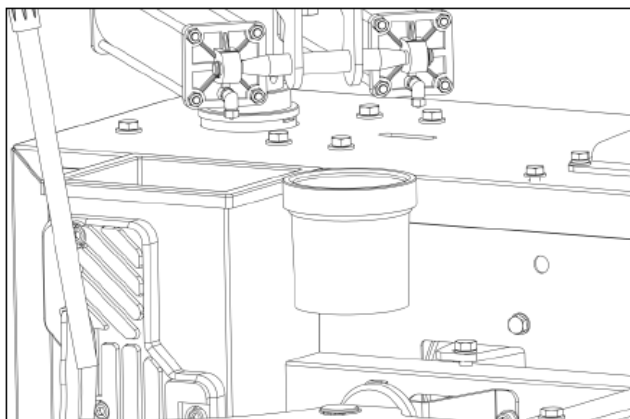


Fig. 23

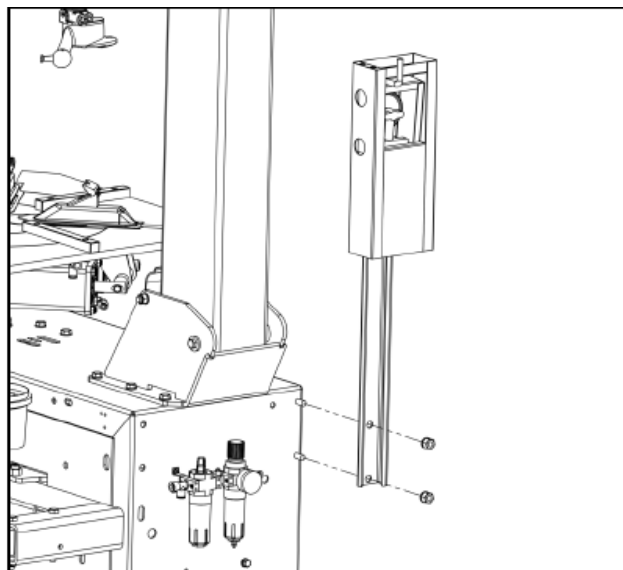


Fig. 24

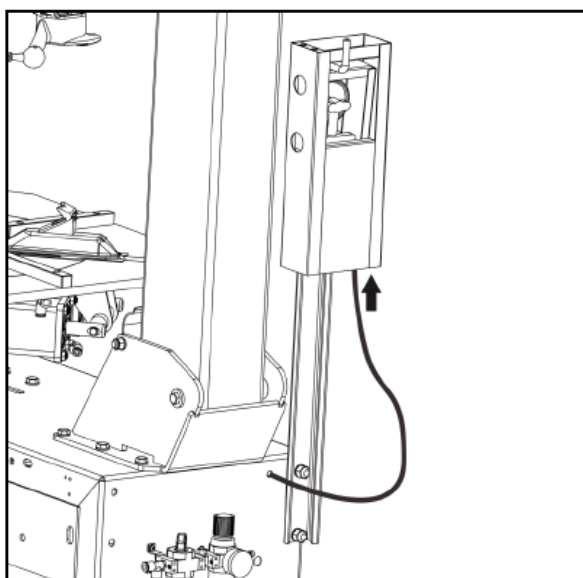


Fig. 25

8. Commissioning and functional checks

Before connection, clear personnel from the movement area and remove all objects from the turntable. Check that all four pedals are at rest. Connect air (Fig. 26) and check for leaks. Operating pressure is 8-10 bar; clamps may open automatically on connection. Operate only when fault-free. Check fixings and screws. Qualified personnel must connect electricity according to the rating plate and matching wiring plan.

Pressure and oil feed are factory-set. Normal feed is approximately one drop per 5-6 pedal operations. If adjustment is needed, lift pressure knob B in Fig. 27: clockwise increases pressure, anticlockwise reduces it; push down to lock afterwards. Turn oil screw A clockwise with a screwdriver to slow the drip rate, anticlockwise to increase it.

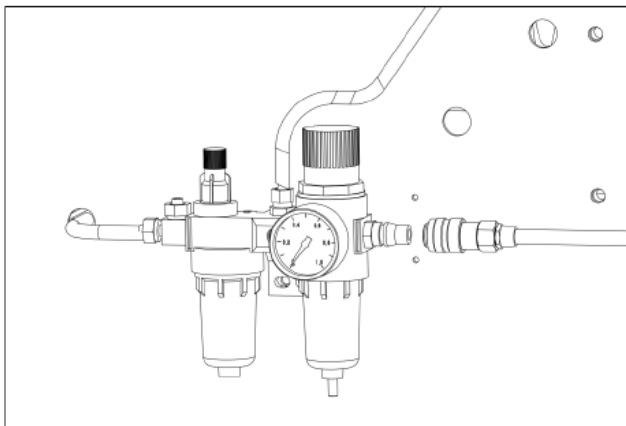


Fig. 26

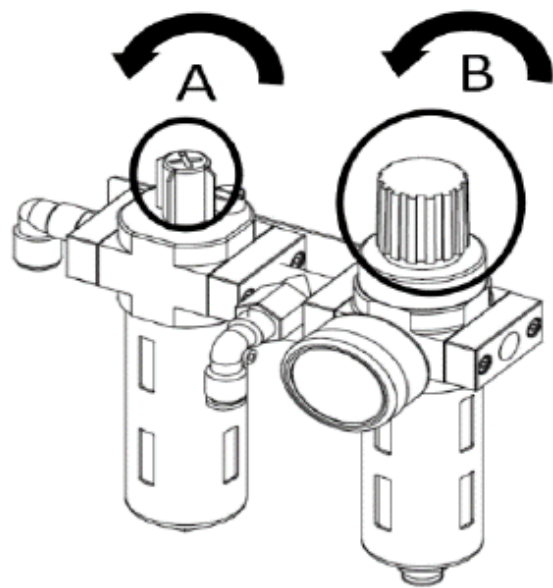


Fig. 27

Check functions against Fig. 1: press D to tilt the column back, press again to return it. Press C to close the clamps, again to open them; light pressure permits incremental movement. Press A down for clockwise rotation, lift for anticlockwise rotation. Press B to move the bead-breaker blade, release to return it. Locking handle L locks the horizontal arm and vertical shaft. The separate pedal on the left of the housing releases air at the inflation station (Fig. 28). Keep clear of moving parts throughout testing.

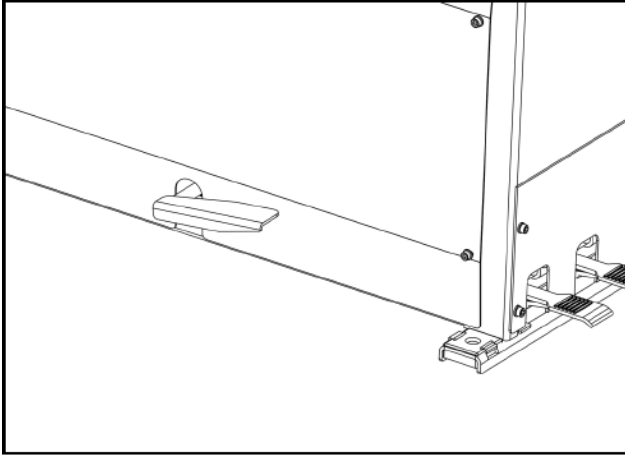


Fig. 28

9. Demounting tyres

Before every tyre change, follow the manual and warnings. Clean and inspect the rim and remove all adhesive and clip-on weights. The tyre must be clean and dry, with undamaged beads. Replace the rubber valve or the O-ring on a metal valve. Any inner tube must be dry and undamaged. Use suitable mounting lubricant. Tyre and rim sizes must match exactly.

Completely deflate the tyre and remove the valve core. Place the wheel between blade and rubber pad. Position the blade on the bead about 2 cm from the rim edge, keeping the valve away. Operate pedal B (Fig. 29). Repeat around the wheel and on both sides until both beads are released.

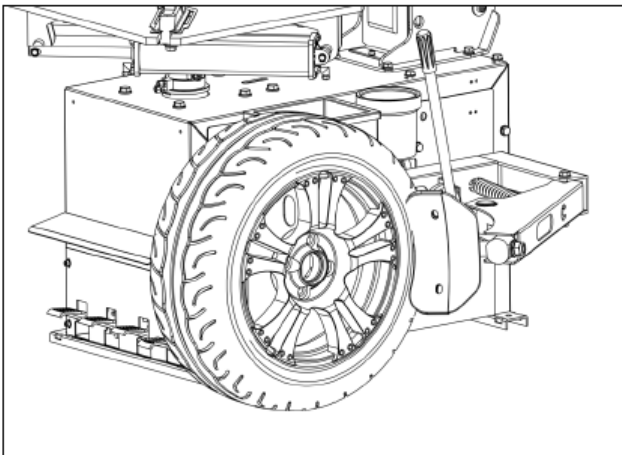


Fig. 29

Clamp the rim securely on the turntable. Move the tool shaft into working position and bring the head close to the rim. Set the head roller about 2 mm clear of the rim to avoid scratching (Fig. 30). Lock the shaft and keep hands out of the danger area.

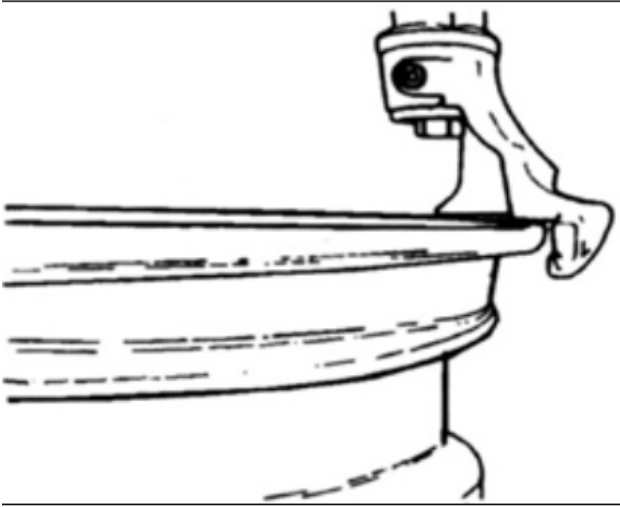


Fig. 30

Lift the bead over the mounting head with the tyre lever. Operate turntable pedal A and rotate clockwise until the bead clears the rim completely (Fig. 31). For tube-type tyres, the source recommends positioning the head about 10 mm to the right of the valve to protect the tube. Remove the tube if fitted. Lift/position the wheel so the other bead is at the head and demount it in the same way (Fig. 32).

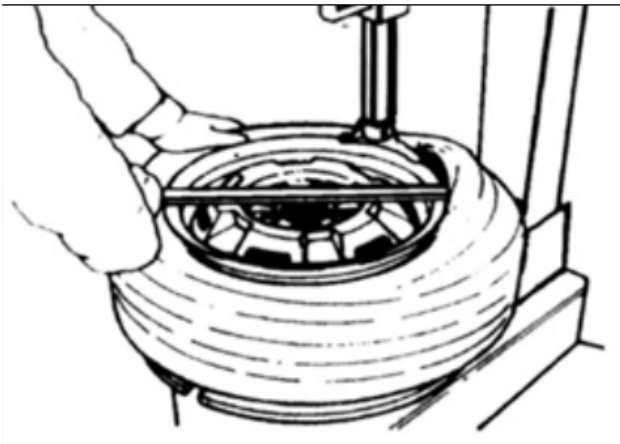


Fig. 31

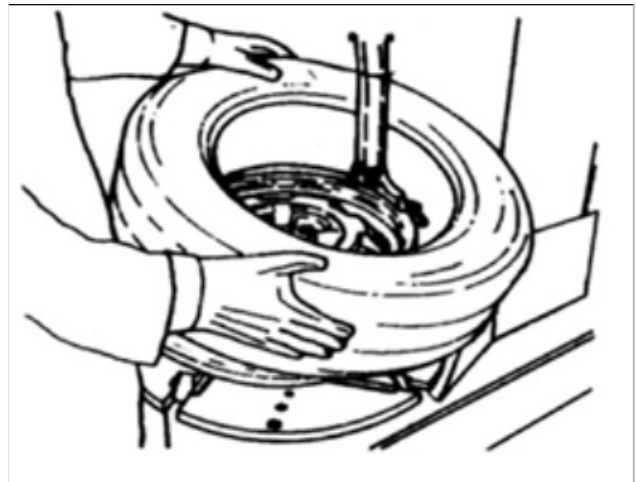


Fig. 32

10. Mounting tyres

Check tyre and rim sizes again before mounting. Clamp the rim on the turntable. Lubricate the beads with approved tyre lubricant; the source refers to a suitable soap solution. Place part of the lower bead above the tail of the mounting head and press the opposite side below the head and into the rim drop centre (Fig. 33).

Use pedal A to rotate clockwise and mount the lower bead. Fit the inner tube where required without trapping it. Mount the upper bead in the same way. Never place hands between tyre and clamps. Do not adjust the internal pressure-control valve; doing so can damage the locking function.



Fig. 33

11. Inflating tyres

Follow the explosion warnings in section 3. Before inflation, check tyre and rim for defects and exact size compatibility. Keep hands and body clear. The machine has no device to contain an exploding tyre. Release the wheel from the turntable clamps. Attach the inflator to the tyre valve (Fig. 34).

Operate the separate inflation pedal on the left of the housing slowly in short bursts and continuously watch the gauge. Never exceed 40 psi (approximately 2.76 bar) when seating beads or the specified tyre inflation pressure afterwards; lower manufacturer limits take precedence. Never lean over the tyre or rim. If seating or behaviour is abnormal, stop, deflate and investigate.



Fig. 34

12. Maintenance

Maintenance is restricted to trained personnel; electrical work to qualified electricians. Regular maintenance is necessary for safe operation and service life. Before any maintenance, disconnect electrical and air supplies and release all stored air. Prevent unintentional reconnection.

Keep the machine and work area clean so dust does not enter moving parts. Check the air lubricator oil level regularly. Isolate and depressurise before filling; the source specifies SAE 30 oil. Clean and lubricate all moving turntable parts (Fig. 35). Check joints and bolts regularly and retighten where necessary.

Keep the horizontal arm and tool shaft clean and lubricate regularly (Fig. 36). Oil sliding and friction surfaces weekly. Provide a water separator near the compressor to reduce moisture in the air supply.

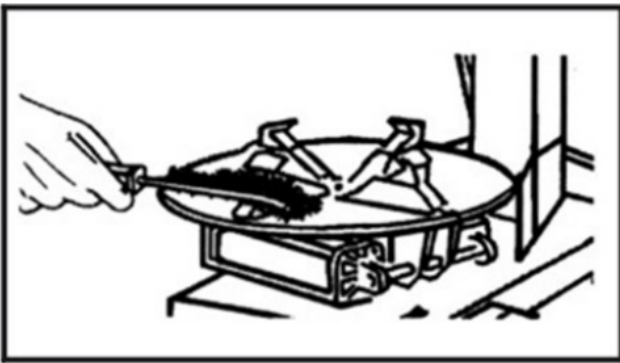


Fig. 35

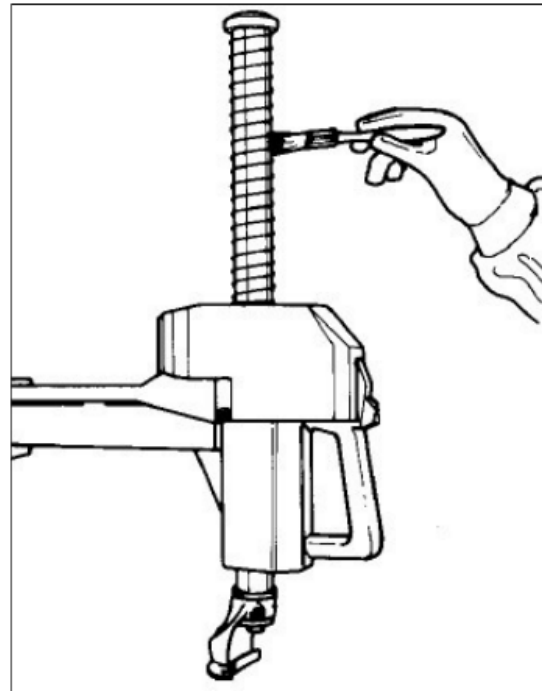


Fig. 36

Check belt tension to ensure correct turntable operation. With power and air disconnected, undo the left cover screws and remove the cover. Adjust the motor nut to loosen or tension the belt (Fig. 37). Refit the cover before restarting. The source provides no numerical belt-tension value.

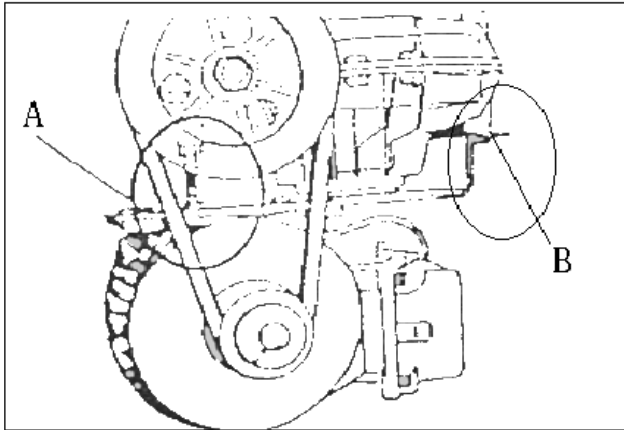


Fig. 37

If the vertical shaft does not lock securely, disconnect and release air, then remove its cover. Adjust the nut by the threaded rod or the screw behind the locking plate as appropriate to the installed version. Ensure protection and clearance before reconnecting air for the test. The shaft should rise approximately 3-4 mm on locking. If locking remains insecure, keep the machine out of service.

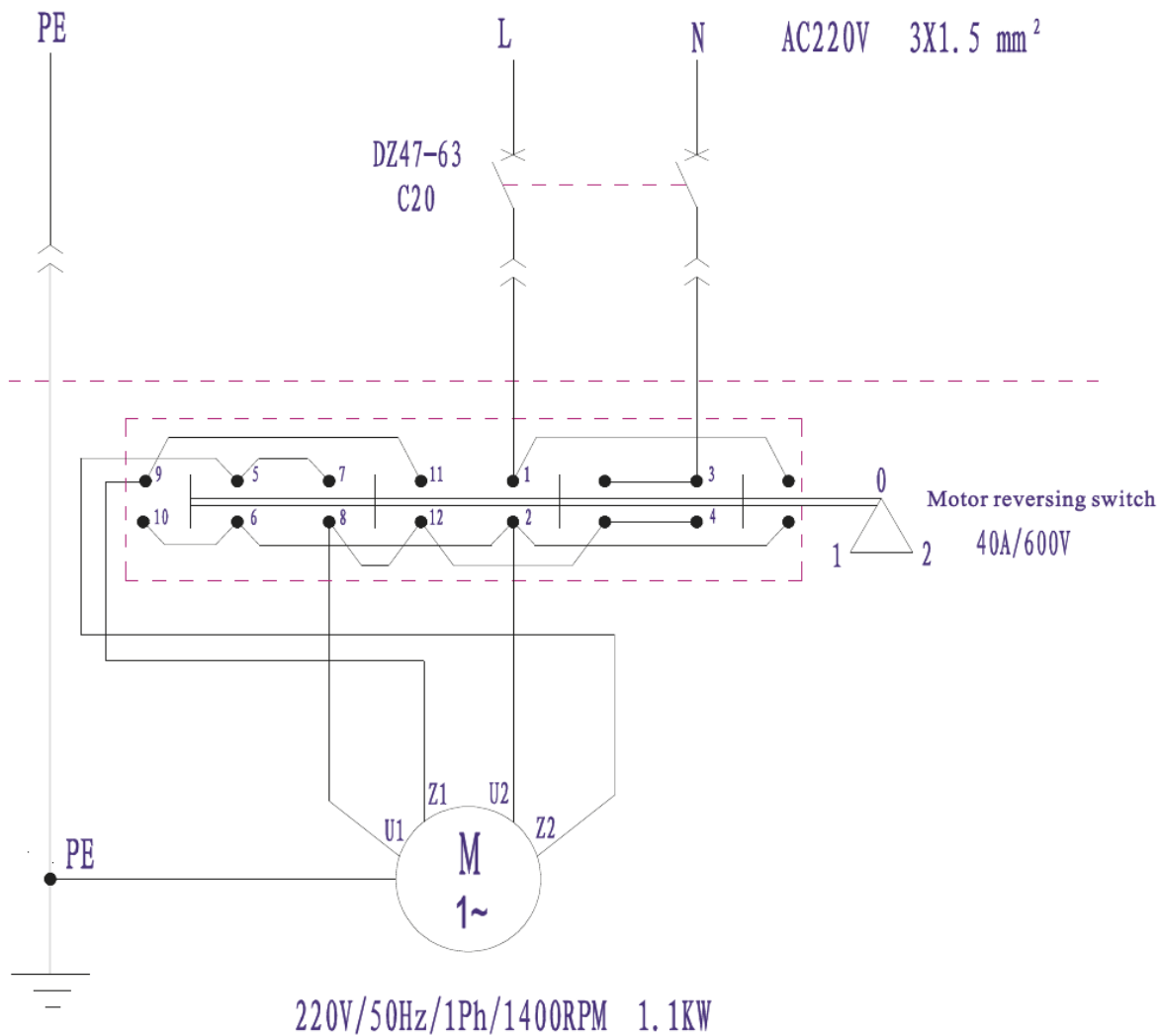
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Legend: Motor reversing switch; PE = protective earth; L/N = line/neutral; L1/L2/L3 = three-phase lines; M = motor; 1~ = single-phase; 3~ = three-phase. Numbers and terminal designations remain unchanged.

A | 220 V · 1 PH · 1,1 kW

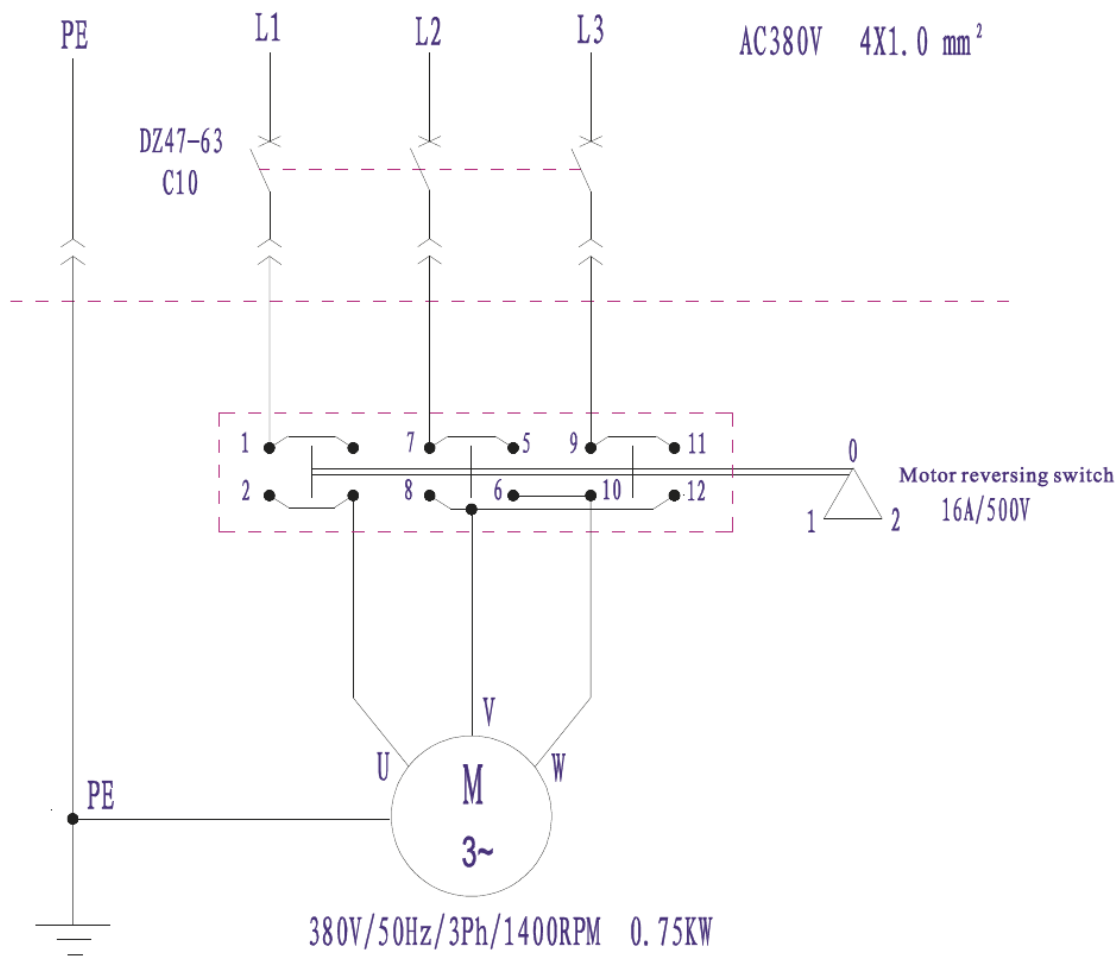
These diagrams are retained unchanged to document the source. A: 220 V, single-phase, 1.1 kW. B: 380 V, three-phase, 0.75 kW. They are not confirmed connection diagrams for the 230 V, 1.5 kW machine offered in the shop. Before connection or repair, a qualified electrician must identify the correct diagram using the rating plate, motor version and controls. Do not adopt voltages, protection ratings, cable sizes or terminal assignments from these reference diagrams without verification.



Legend: Motor reversing switch; PE = protective earth; L/N = line/neutral; L1/L2/L3 = three-phase lines; M = motor; 1~ = single-phase; 3~ = three-phase. Numbers and terminal designations remain unchanged.

B | 380 V · 3 PH · 0,75 kW

These diagrams are retained unchanged to document the source. A: 220 V, single-phase, 1.1 kW. B: 380 V, three-phase, 0.75 kW. They are not confirmed connection diagrams for the 230 V, 1.5 kW machine offered in the shop. Before connection or repair, a qualified electrician must identify the correct diagram using the rating plate, motor version and controls. Do not adopt voltages, protection ratings, cable sizes or terminal assignments from these reference diagrams without verification.



Legend: Motor reversing switch; PE = protective earth; L/N = line/neutral; L1/L2/L3 = three-phase lines; M = motor; 1~ = single-phase; 3~ = three-phase. Numbers and terminal designations remain unchanged.