
ACCU 4520 MR

ELECTRIC-HYDRAULIC TYRE CHANGER FOR MEDIUM AND LARGE SIZE TYRES

**OPERATOR'S MANUAL
SPARE PARTS EXPLODED VIEWS**

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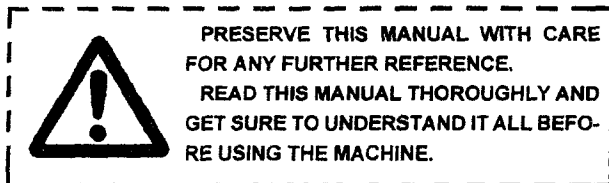
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1.0 INTRODUCTION

Congratulations on purchasing the **ACCU 4520 MR** tyre changer.

The **ACCU 4520 MR** is an electric-hydraulic machine designed to mount and demount medium and large size tyres.

Instructions on use, maintenance and operational requirements of the machine are covered in this manual.



1.1 USE LIMITATIONS

The tyre changer model ACCU 4520 MR is intended to be used as a device to demount and mount tubeless and tube-type truck, tractor and earth mover tyres with the following specifications:

Maximum tyre diameter mm 2300 (90"1/2)

Maximum tyre width mm 1400 (55").

This device shall be used in compliance to the destination for which it is specifically designed.

Any other use shall be considered as improper thus not reasonable. In particular this device is not suitable to inflate tyres. Inflation of tyres shall be carried out in an approved inflation safety cage.

The manufacturer shall not be considered liable for possible damages caused by improper, wrong or non reasonable use.

1.2 MAINS

This manual is a part of the product.

Read carefully the warnings and instructions of this manual since they provide important information concerning the safety and maintenance.

1.3 GENERAL SAFETY INSTRUCTIONS

The use of this device is allowed only to personnel duly trained by an authorized ACCU dealer.

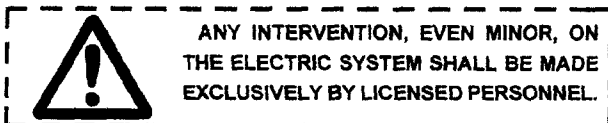
Any manomission or modification of this device or of its parts or components not previously authorized by the manufacturer waive the manufacturer from any damage consequent or related to the above mentioned manomissions.

Removing or manomitting safety devices or warning labels of the machine is an offense to the European safety regulations.

The use of this device is allowed only in locations with no explosion or fire hazard.

It is required the use of original accessories. This device is designed to receive original spare parts and accessories only.

The installation shall be carried out only by qualified personnel and within the respect of the instructions provided for in this manual.



Check for possible dangerous conditions during the operation of the machine. In such a case stop immediately the machine.

If case a defective functioning condition is detected, stop using the machine and call the authorized ACCU distributor for assistance.

1.4 NOMENCLATURE

Before installing and using the ACCU 4520 MR you should become familiar with the proper nomenclature of its components (Fig.1).

1. 8 position switch
2. Chuck switch
4. Toolholder arm
5. ON/OFF switch
6. Toolholder carriage
7. Footboard
8. Jaws
9. Self-centering chuck
10. Chuck arm
11. Chuck rotation control pedal
12. Reset button
13. Mount/demount tool
14. Electric cabinet
15. Toolholder arm switch

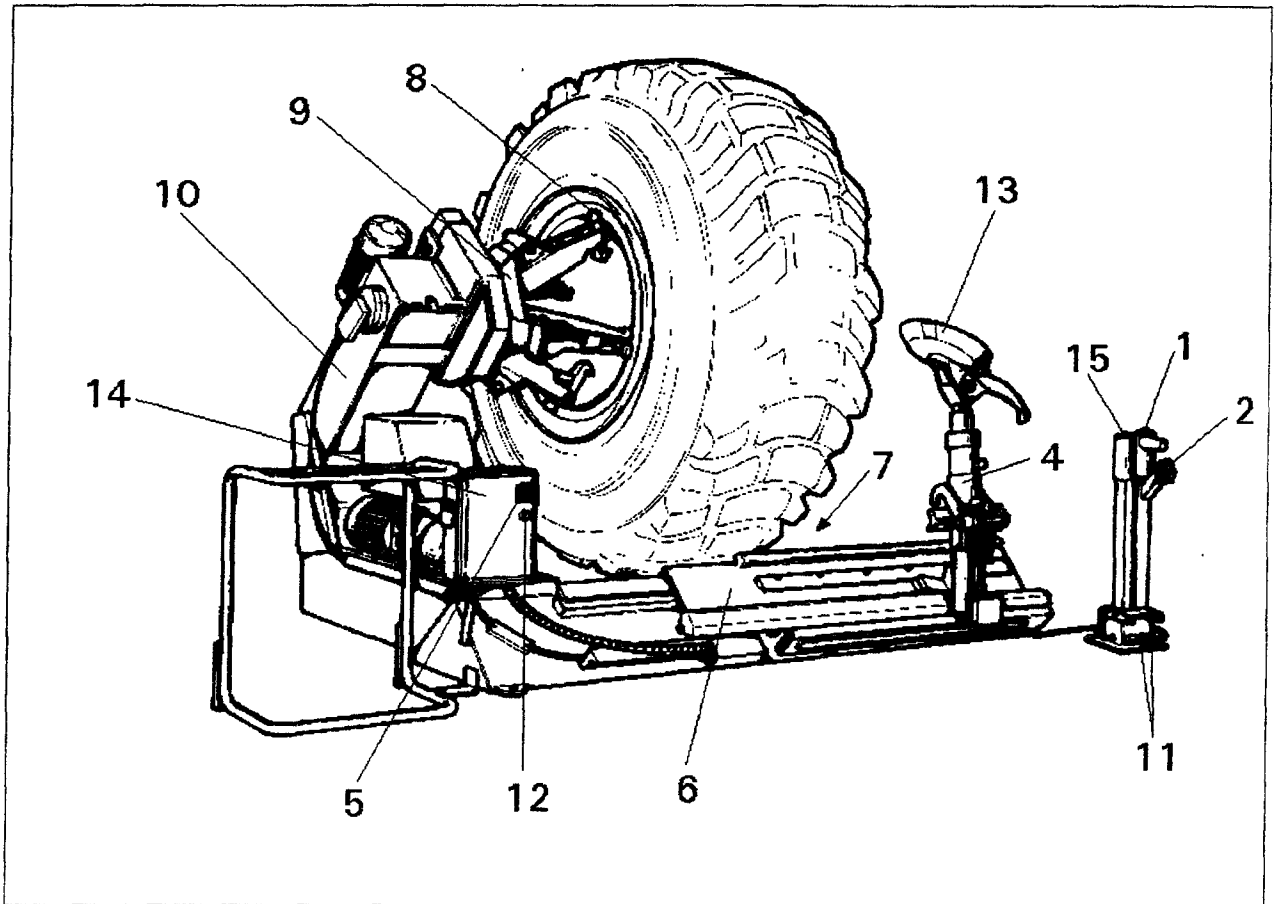


Fig.1

1.5 TECHNICAL SPECIFICATIONS

Electric-hydraulic tyre changer for large and medium sized tyres.

Weight	kg 1032 (lbs 2270)
Hydraulic system motor	3 phase 1.5 kW (2 HP)
Chuck rotation motor	3 phase 3 kW (4 HP)
Chuck capacity	14"-52"
Max. tyre diameter	mm 2300 (90" 1/2)
Max. tyre width	mm 1400 (55")
Max. torque	Nm 3100 (ftxlbs 2268)
Clamping power	kN 60
Chuck rotation speed	4-7 rpm
Acoustic pressure	< 70 dBA

1.6 DIMENSIONS OF THE MACHINE

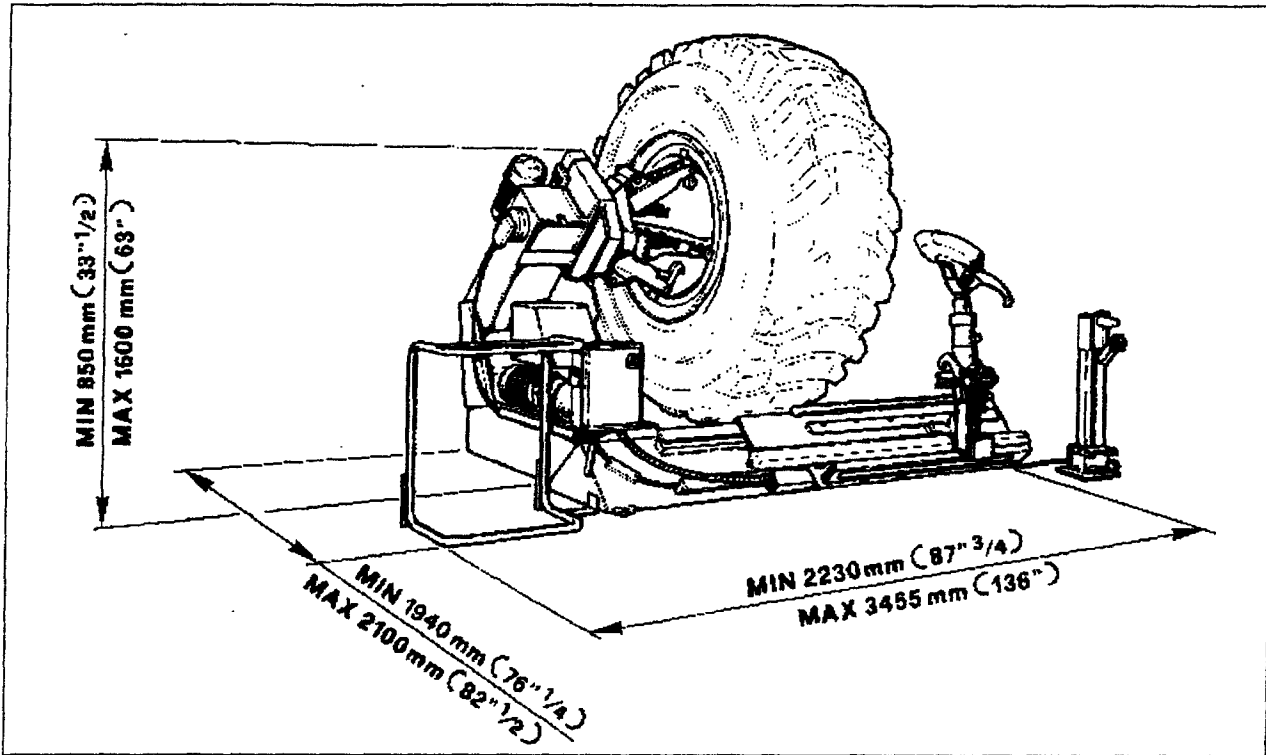


Fig.2

1.7 STANDARD ACCESSORIES

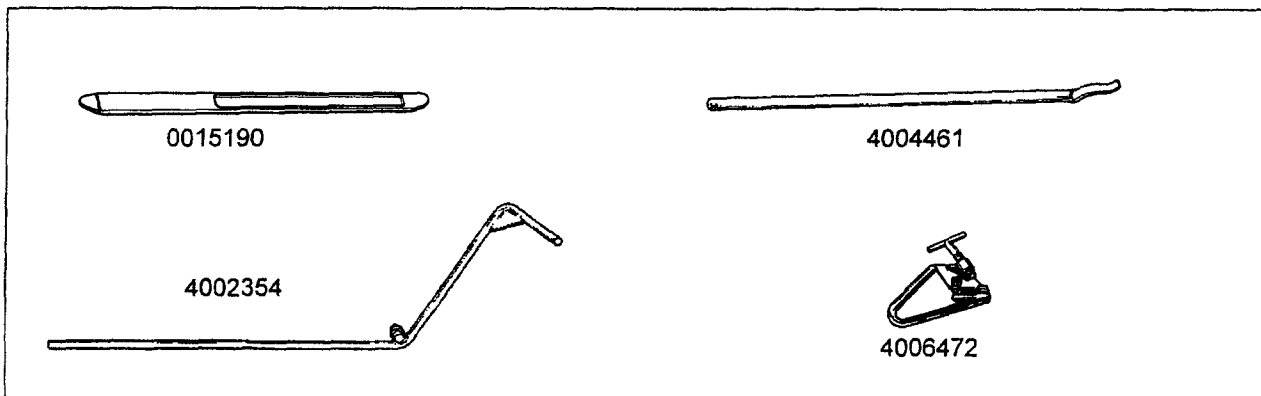


Fig.3

- #0015190 Short tyre tool
- #4002354 Bead pushing lever
- #4004461 Long tyre tool
- #4009472 Mounting clamp

1.8 ACCESSORIES ON REQUEST

#4008264 Protectors for alloy rims.

Suitable for rims with a center hole of 280 mm only (Fig.4).

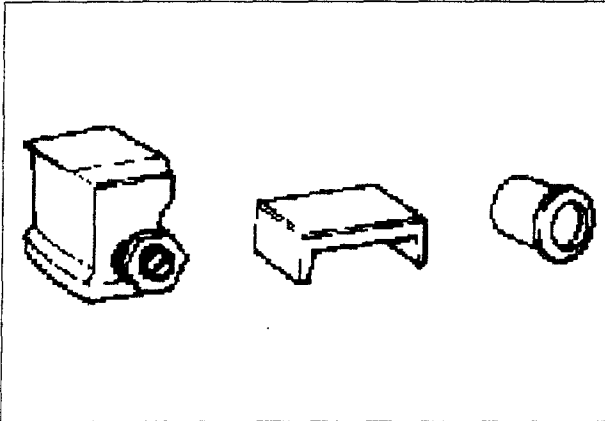


Fig.4

#4008257 Protectors for alloy rims.

Suitable for rims with a center hole of 220 and 280 mm (Fig.5).

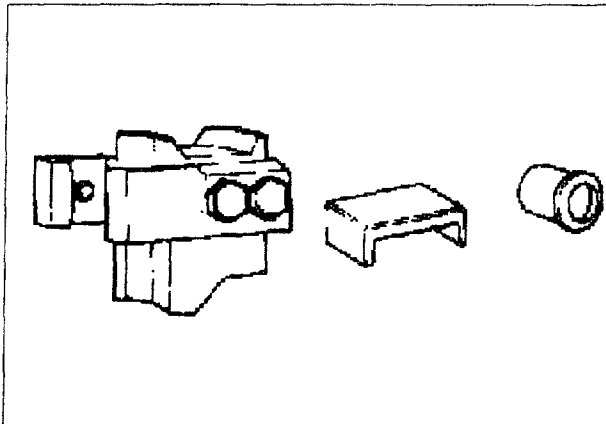


Fig.5

#4014974 Tubeless roller

Makes easier mounting and dismounting tubeless tyres up to 13" wide (Fig.6).

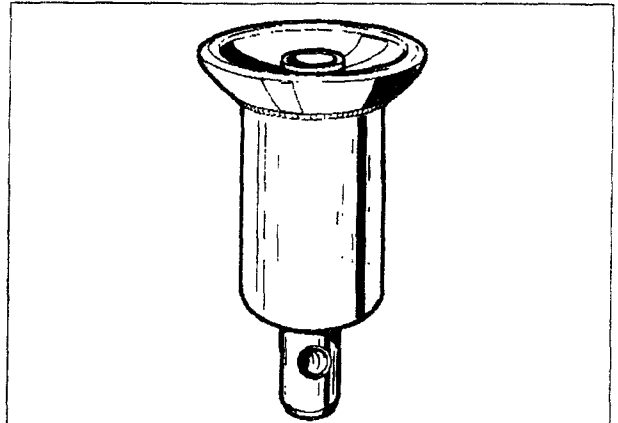


Fig.6

#4015339 Light-alloy wheels clamp

Useful for mounting tubeless tyres on certain light-alloy wheels (see @ 5.3 for use) (Fig.7).

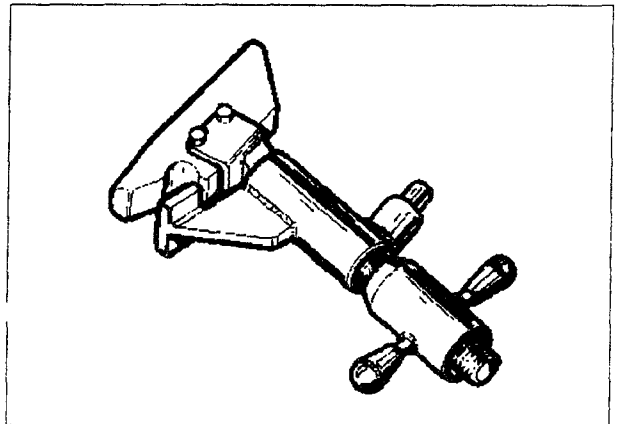


Fig.7

1.9 GENERAL PRECAUTIONS

- A. BEFORE SERVICING ANY TRUCK TYRES, WHEELS OR RIMS ALL PERSONNEL SHOULD RECEIVE THOROUGH TRAINING FOR THE PROPER SERVICING OF TRUCK TYRES, WHEELS, AND RIMS. CONSULT WITH YOUR LOCAL CITY, COUNTRY STATE, AND COUNTRY SAFETY AND HEALT ADMINISTRATIONS TO RECEIVE CLARIFICATION OF ANY PUBLICATIONS AVAILABLE GOVERNING THIS SERIOUS MATTER.**
- B. DURING THE INSTALLATION, USE AND MAINTENANCE OF THE MACHINE IT IS MANDATORY TO COMPLY WITH ALL LAWS AND REGULATIONS FOR ACCIDENT PREVENTION.**
- C. THE ELECTRIC POWER SOURCE MUST HAVE A GROUND CABLE AND THE GROUND CABLE OF THE MACHINE (YELLOW WITH GREEN) MUST BE CONNECTED TO THE GROUND CABLE OF THE POWER SOURCE.**
- D. BEFORE ANY MAINTENANCE OR REPAIRS ARE ACCOMPLISHED THE MACHINE MUST BE DISCONNECTED FROM ELECTRIC SUPPLY.**
- E. NEVER WEAR TIES, CHAINS OR OTHER LOOSE ARTICLES WHEN USING, MAINTAINING OR REPAIRING THE MACHINE. LONG HAIR IS ALSO DANGEROUS AND SHOULD BE KEPT UNDER A HAT OR SIMILAR. THE USER MUST WEAR PROPER SAFETY ATTIRE IE.; GLOVES, SAFETY SHOES AND GLASSES.**
- F. NOBODY SHOULD BE ALLOWED TO STAND NEXT TO THE WHEEL, WHEN MOUNTING/DE-MOUNTING A TYRE OR CLAMPING A WHEEL**
- G. PROPERLY ATTACH THE MACHINE TO THE FLOOR.**

1.9.1 SAFETY DEVICES

This machine has several protectors made of plastic to prevent compression or crushing hazards.

There is a micro-switch protection under the chuck arm to prevent compression.

The rotation speed of the self-centering chuck has been limited to a maximum of 8 rpm to prevent dragging or entrapping hazards.

There is an emergency button on the portable control unit.

2.0 CARRIAGE INSTRUCTIONS

The machine is crated in a wooden box of appropriate strength. The box is mounted in a steady way on a pallet.

The carriage of the machine in its packing must be made with an appropriate lifting device (fork lift) (Fig.8).

The machine can be alternatively fixed to a pallet with the protection of a plastic sheet.

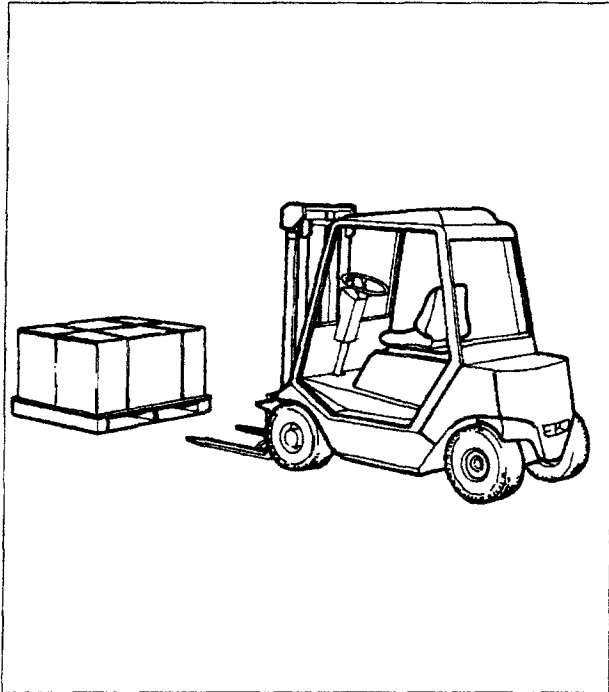


Fig.8

2.1 UNCRATING INSTRUCTIONS

Remove with an appropriate tool the nails that attach the cover, of the crate to the side walls. Remove the cover of the crate.

Remove the nails that attach the side walls to the pallet.

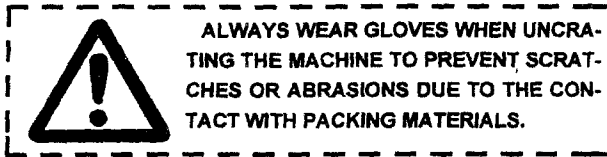
Remove the side walls of the crate. The side walls are connected at the corners with a flexible metal plate: bend the side walls flat to reduce the volume of the packing.

After removing the crate check for any visible damage to the machine and its components.

In case of doubts call qualified personnel for assistance.

The materials of the packing (plastic bags, polystyrene, nails, screws, wood etc.) shall not be left behind and shall not be left at children reach since may be possible hazard causes.

Place the above mentioned materials into a trash container and dispose following the running local regulations.



2.2 INSTALLATION AREA

Install the machine in a covered and dry place, possibly closed.

The installation of the machine requires a free space of at least cm 500x500 (15'x15') (Fig.9).

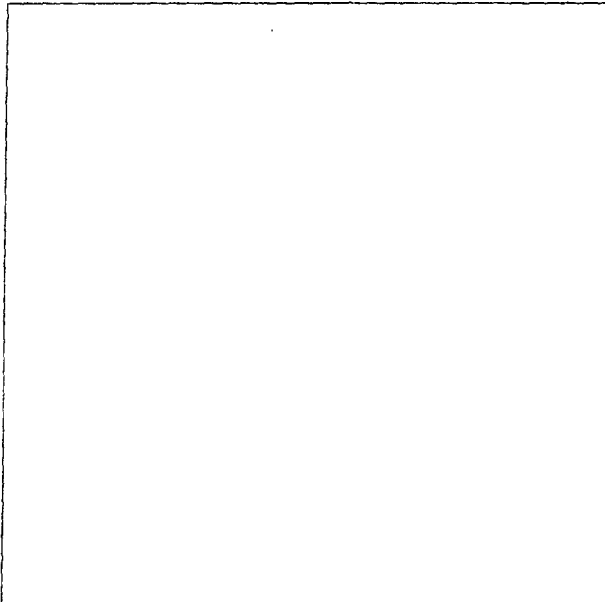


Fig.9

Make sure that from the operating position the user can see all of the machine and the surrounding area.

The operator shall forbid, in such an area, the presence of non authorized persons and of objects which may create possible hazards.

The machine shall be installed on a horizontal floor preferably even. Do not install the machine on a sinking or irregular floor.

In case the machine is installed on a raised floor, the floor must have a capacity of at least 15000 N/m² (330 lbsxsqft).

The machine must be secured to the floor through the holes provided in the cabinet. Expansion screws 12x120 mm shall be used.

Drill 12mm holes in the floor in correspondence of the holes provided for in the cabinet.

Place the nogs into the holes drilled in the floor and move the machine sothat the holes of the cabinet are in correspondence of the holes in the floor.

Tighten the screws at 70 Nm (51 ftxlb).

3.0 INSTALLATION INSTRUCTIONS

Before lifting the machine be sure that the chuck is closed, the chuck arm lowered, and the toolholder carriage is in all the way in.

If the machine is crated, remove the screws that hold it to the pallet.

Lift the machine by the chuck arm only (Fig.10).

This should be accomplished by wrapping a belt of adequate strength around the chuck arm so it can be hooked by crane or forklift.

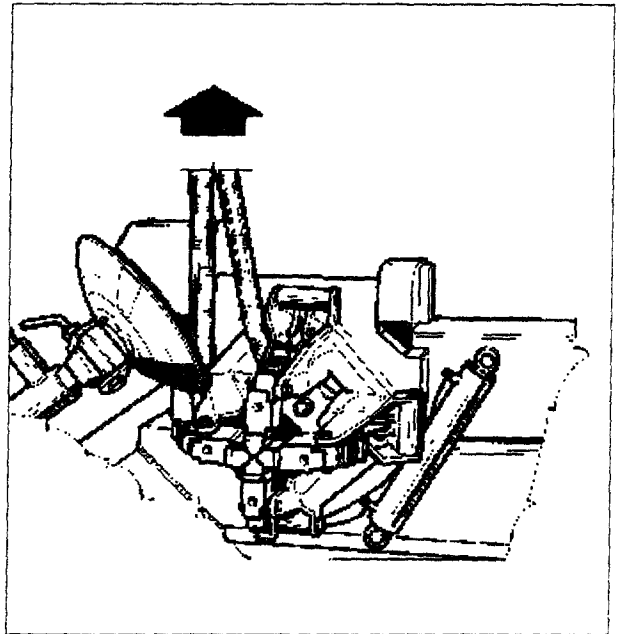
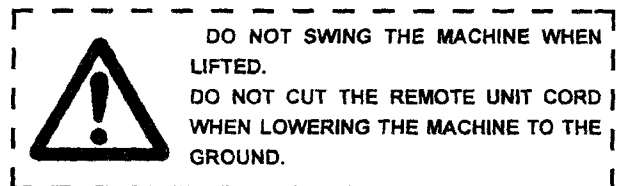
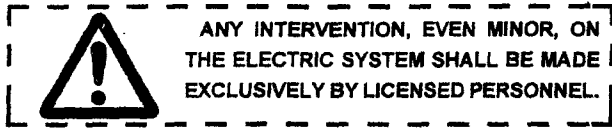


Fig.10



3.1 ELECTRIC INSTALLATION



Check on the plate of the machine that the electrical specifications of the power source are the same as the machine.

The machine uses 3.3 kW, 3 phase.

Electrical specifications are clearly marked on a label at the end of the electric cord.

Connect the electric cord of the machine with an approved plug.

The ground cable (green and yellow) must be properly connected.

Before connecting the machine to the power source check the condition of all cables and insure that the power supply has an efficient grounding system.

Check that the power supply has an automatic circuit breaker with a differential circuit set at 30 mA.

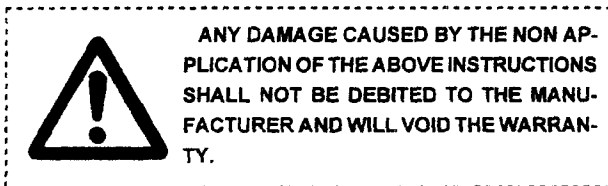
The electric motor operates in a wide voltage range (plus or minus 10%) and frequency range (50 or 60 cycles) and has a class of insulation suitable for hot and moist climates.

3.1.1 MOTOR ROTATION CHECK

Ensure that the electric specifications of the work area are the same as the machine.

Once the machine is hooked-up, turn the machine on using the ON/OFF switch. Ensure that the rotation direction of the pump is the same as indicated by the arrow on the motor cover.

If not reverse any two phase cables on the plug (i.e. reverse the brown and the blue cable).



4.0 CONTROLS

Before operating the machine ensure that you have well understood the operation and function of all the controls.

- A. To turn the machine on, rotate the ON/OFF switch to position '1': the pump motor starts turning and remains in operation until when the machine is turned off. The power required is minimum when the hydraulic cylinders are not in use.

NOTE:

IT IS SUGGESTED TO TURN THE MACHINE OFF AFTER EVERY MOUNTING OR DEMOUNTING OPERATION, IF THE TIME BEFORE THE NEXT OPERATION IS LONGER THAN 5 MINUTES.

- B. Press the right chuck rotation pedal: the chuck turns clockwise.
Press the opposite pedal to turn the chuck counter clockwise.
- C. Operate the 8 position switch as shown in Fig.11: the chuck arm moves up.
Operate the switch in the opposite way to lower the chuck arm.

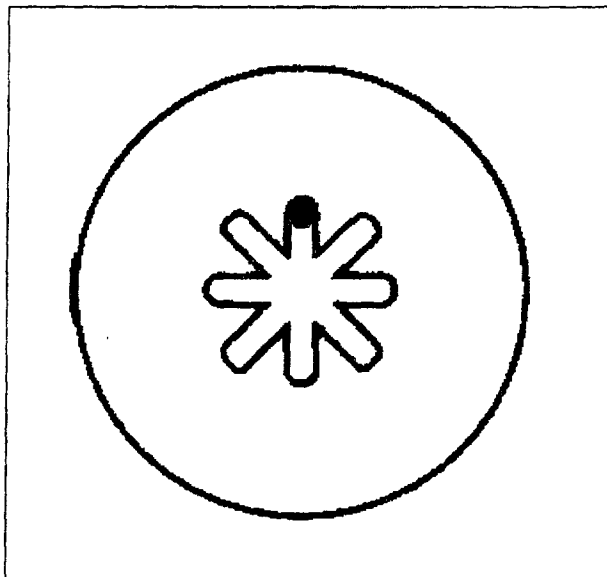


Fig.11

- D. Move the 8 position switch to the right (Fig.12) to move the toolholder carriage to the outside.
Operate the switch to the left to move the carriage towards the inside.

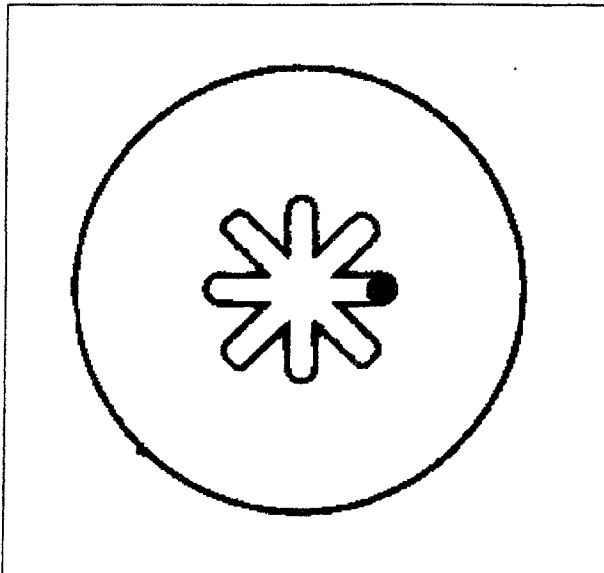


Fig.12

- E. Move the switch to a diagonal position to operate two movements simultaneously. This operation allows for substantial time saved but requires a little practice.

NOTE:

IF ONE OF TWO HYDRAULIC MOVEMENTS ACTIVATED GETS TO THE END OF THE STROKE THE SPEED OF THE OTHER MOVEMENT WILL CONSIDERABLY DIMINISH.

STOP THE COMBINED CONTROL AND ACTIVATE ONLY ONE MOVEMENT TO OBTAIN A NORMAL SPEED.

- F. Utilize the switch shown in Fig.13 to operate the toolholder on the carriage. The operation can be carried out either with the toolholder arm lowered or raised.

NOTE:

IT IS NOT POSSIBLE TO OPERATE THE TOOLHOLDER CARRIAGE OR TO MOVING THE TOOLHOLDER ARM WITH RESPECT TO TOOLHOLDER CARRIAGE WHEN THE TOOLHOLDER ARMA IS NOT LOWERED AND LOCKED OR LIFTED AT 3/4 OF THE STROKE OR MORE. THIS SAFETY FEATURE IS USED TO PREVENT DAMAGES TO THE MACHINE FROM BEAD BREAKING WITH THE ARM NOT LOCKED DOWN.

NOTE:

WHEN THE TOOLHOLDER ARM CYLINDER REACHES THE END STROKE POSITION A PRESSURE LIMITING VALVE IS ACTIVATED AND IT EMITS A TYPICAL WHISTLE.

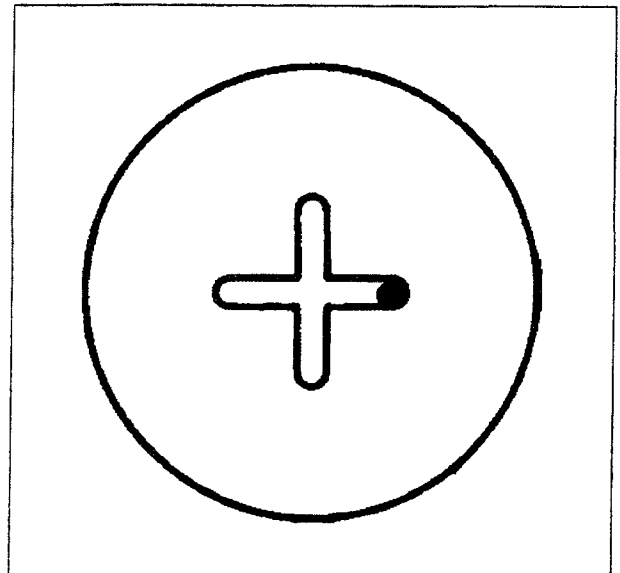
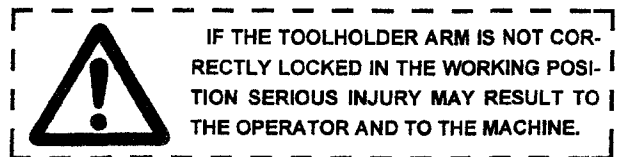


Fig.13



IF THE TOOLHOLDER ARM IS NOT CORRECTLY LOCKED IN THE WORKING POSITION SERIOUS INJURY MAY RESULT TO THE OPERATOR AND TO THE MACHINE.

- G. To lift and lower the toolholder arm operate the switch as shown in Fig.13/b.

When lifting the toolholder arm, the last part of the stroke activates the tool rotation. Be sure that the arm is all the way lifted to obtain a complete tool rotation.

If the tool rotation is not required, lift the toolholder arm only 3/4 of the stroke. If it is desired to rotate the tool once the toolholder arm is lifted, lower the arm approximately 1/4 of the stroke and lift it again to activate the rotation mechanism.

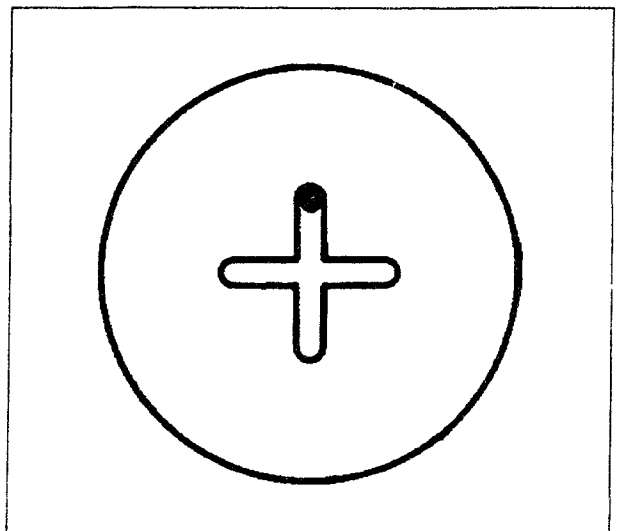
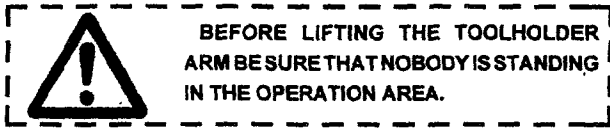


Fig.13/b



H. To open and close the chuck operate the chuck switch (Fig.14).

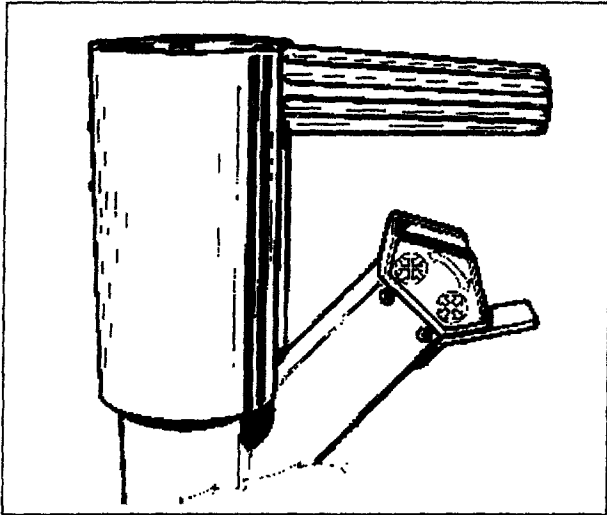
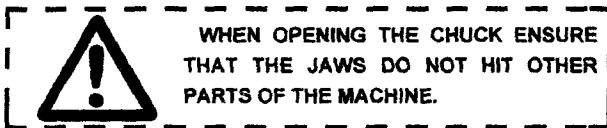


Fig.14



5.0 MOUNTING AND DEMOUNTING - GENERAL PRECAUTIONS



BEFORE MOUNTING A TYRE ON A RIM, PAY ATTENTION TO THE FOLLOWING:

- A. THE RIM AND ALL ITS PARTS MUST BE CLEAN AND IN GOOD CONDITION: IF NECESSARY CLEAN AND PAINT IT AFTER REMOVING ALL WHEEL-WEIGHTS TO INCLUDE 'TAPE WEIGHTS' INSIDE THE RIM.**
- B. THE TYRE MUST BE CLEAN AND DRY, WITHOUT ANY DAMAGE TO THE BEAD AND THE CARCASS.**
- C. REPLACE THE RUBBER VALVE STEM WITH A NEW ONE OR REPLACE THE 'O' RING IF THE VALVE STEM IS MADE OF METAL.**
- D. IF THE TYRE REQUIRES A TUBE OR A FLAP, MAKE SURE THE TUBE IS DRY AND IN GOOD CONDITION.**
- E. LUBRICATION IS NECESSARY TO MOUNT THE TYRE CORRECTLY AND GET A PROPER CENTERING. BE SURE YOU ARE USING APPROVED LUBRICANT ONLY.**
- F. MAKE SURE THE TYRE IS THE CORRECT SIZE FOR THE RIM.**

5.1 RIM CLAMPING

Lift the toolholder arm and move the toolholder carriage all the way out. Put the wheel in vertically and roll it on the footboard.

Be sure to use alloy adapters when applicable.

ATTENTION!

THE DROP CENTER OF THE RIM (WHEN IT EXISTS) MUST BE KEPT TOWARDS THE OUTSIDE OF THE MACHINE (FIG.16).

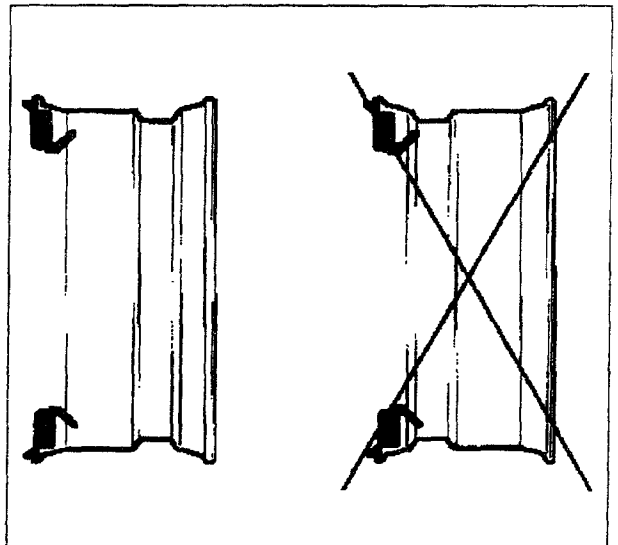


Fig.16



IF THE WHEEL IS VERY HEAVY BE SURE TO USE A SUITABLE EXTERNAL LIFTING DEVICE (I.E. FORK LIFT, CRANE ETC.)

Close the jaws of the chuck and move the chuck approximately to the center of the rim. Move the footboard toward the chuck and move the chuck up-down while opening the chuck arms until the rim is clamped properly (Fig.17).

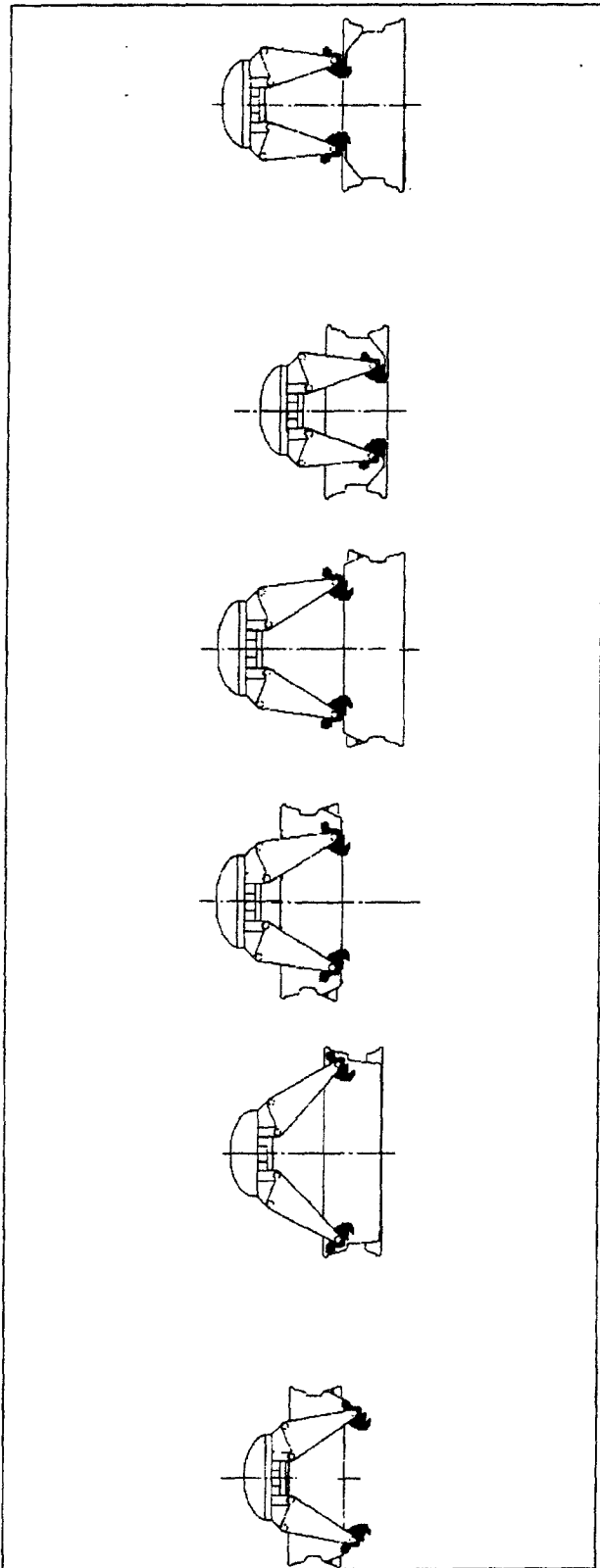


Fig.17

5.2 DEMOUNTING TUBELESS TRUCK TYRES (UP TO 13" WIDE)

The tubeless truck tyres are mounted on drop-center rims with a conical base. It is possible to demount these tyres simply by pressure, with a proper lubrication (Fig.18).

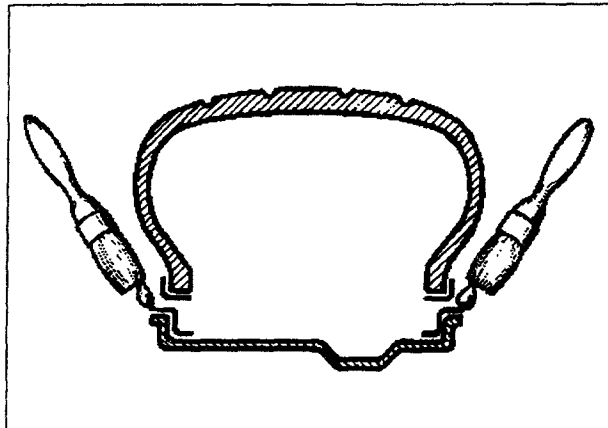


Fig.18

1. Remove all wheel-weights from the rim.
Remove the valve stem or core and deflate the tyre.
2. Position the bead breaker disc or tubeless roller (option) as shown in Fig.19, Fig.20.

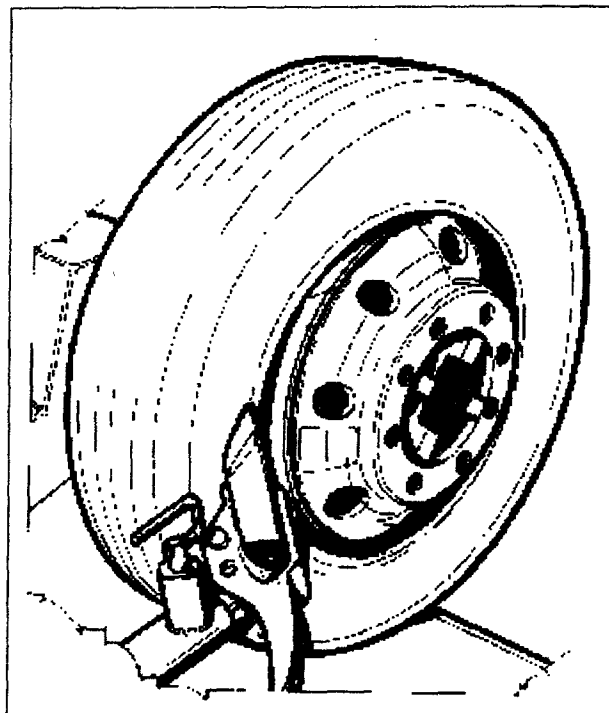


Fig.19

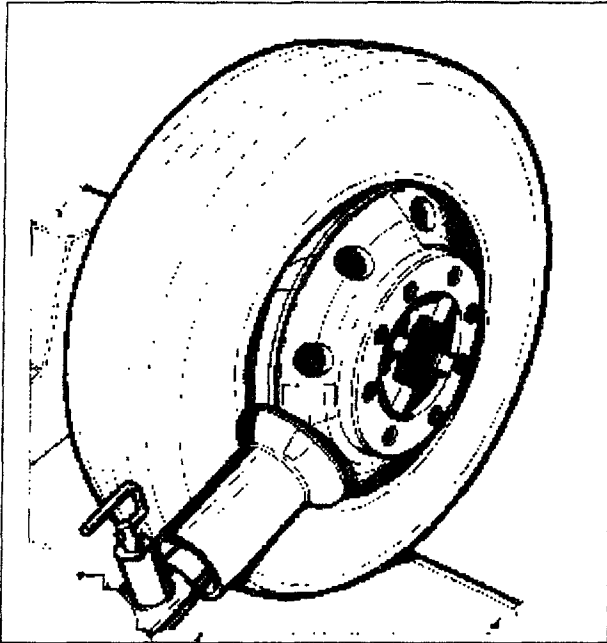


Fig.20

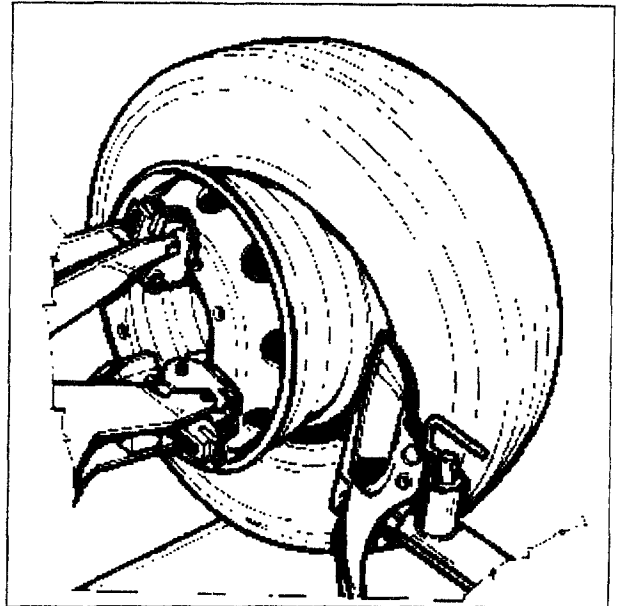
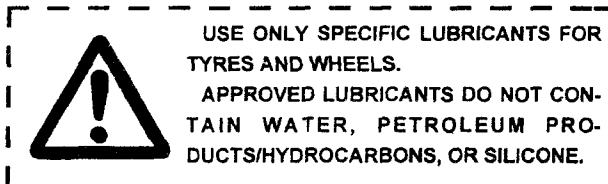


Fig.21

3. Lift or lower the chuck so that the bead breaker disc or tubeless roller remains close to the rim flange. Turn the chuck counter-clockwise and at the same time move the toolholder carriage step-by-step towards the inside to break the bead. Continue to turn the chuck and lubricate the bead and the rim liberally with an approved lubricant.



4. Lift the toolholder arm to idle position to rotate the tool 180 degrees.
5. Move the toolholder arm all the way in. Lower the toolholder arm and lock it down. Move the toolholder carriage until the disc is in contact with the inner bead.
6. Break the inner bead as described in #3.
7. Continue to rotate the chuck while moving the toolholder carriage towards the outside until both beads are demounted from the rim (Fig.21, Fig.22).

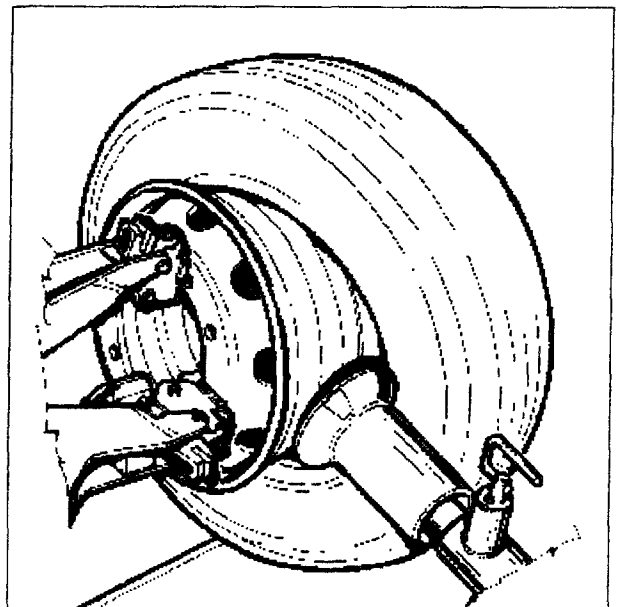
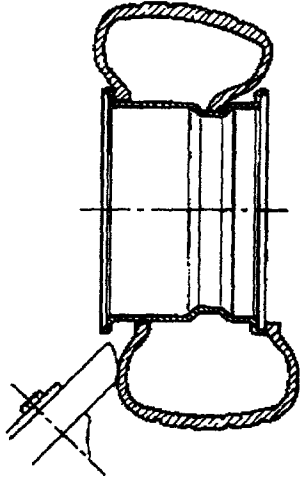


Fig.22



ENSURE THAT THE OUTER BEAD SLIDES INTO THE DROP CENTER OPPOSITE TO THE TOOL, OTHERWISE THE DEMOUNTING OPERATION IS IMPOSSIBLE.



8. Move to the front of the tyre and hold it with both hands in the last part of demounting operation to prevent the tyre from falling or rolling away out of control (Fig.23).

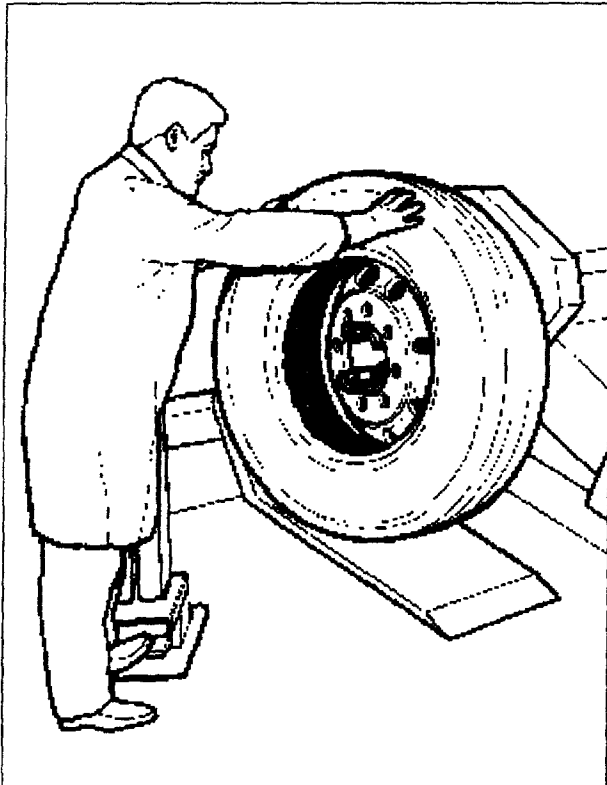


Fig.23

5.3 MOUNTING TUBELESS TRUCK TYRES (UP TO 13" WIDE)

1. Liberally lubricate the entire inner surface of the rim and the tyre beads. Move the chuck arm all the way down. Roll the tyre on the footboard and hang it onto the rim (Fig.24).

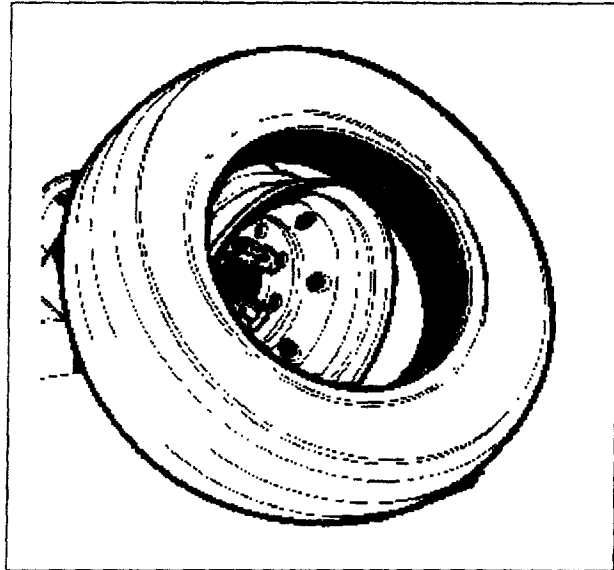


Fig.24

2. Attach the mounting clamp #4009472 (Fig.25) to the outer rim flange with the valve at 11 o'clock and the clamp at 12 o'clock.

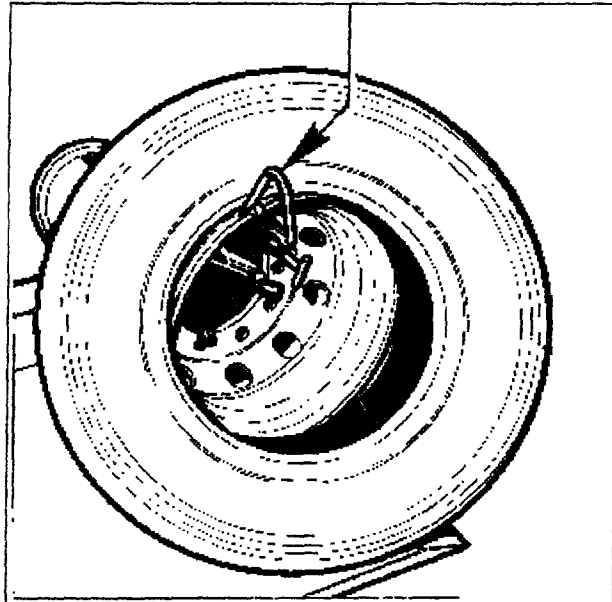


Fig.25

If the rim is made of a light-alloy the rim shape may not allow to attach the standard mounting clamp. In such a case use the special mounting clamp #4015339 (on request). The clamp can be used as shown in Fig.26 or 27.

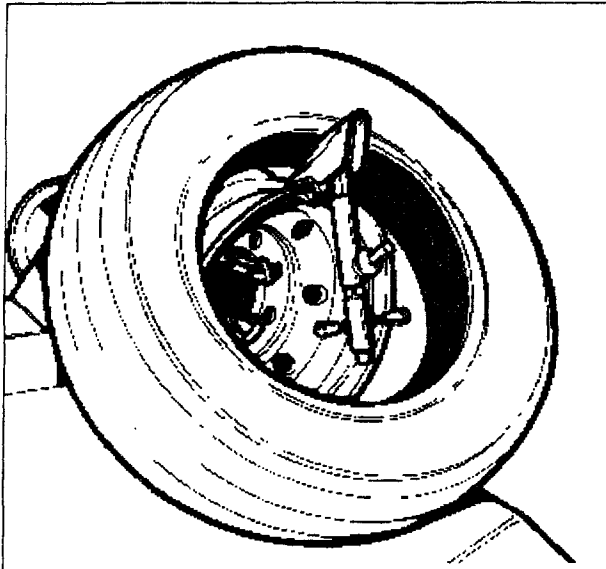


Fig.26

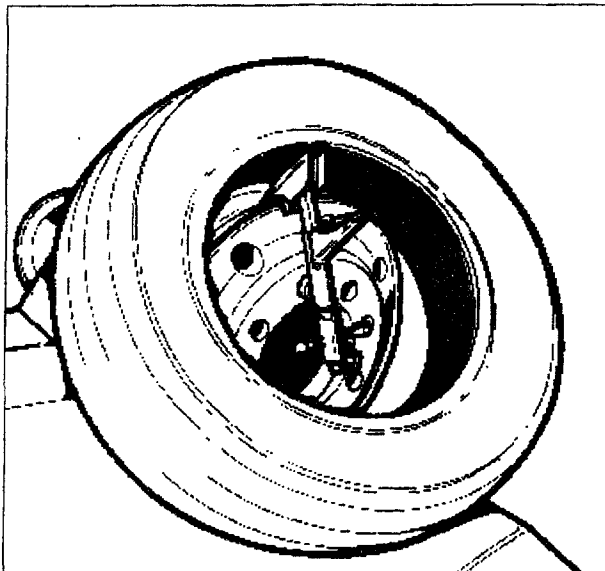


Fig.27

3. Lift the chuck arm and position the mounting hook or tubeless roller approximately 1.5 cm (2/3") to the inside of the rim edge and approx. 1 cm (1/2") away from the rim edge. The mounting clamp is at 11 approximately o'clock (Fig.28).

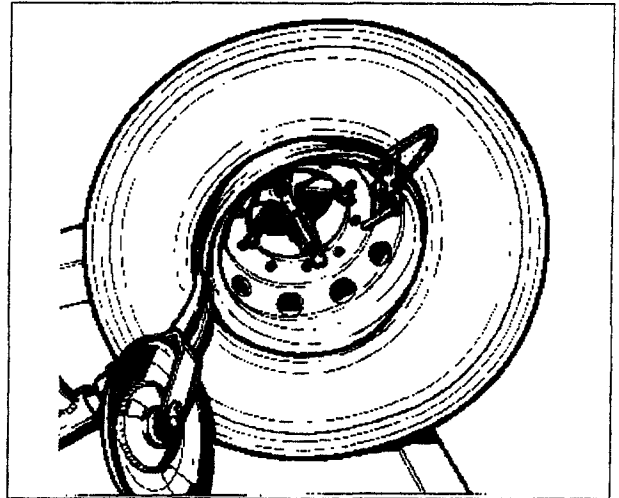



Fig.28

 NEVER USE HAND PRESSURE TO HOLD THE TYRE ONTO THE RIM.

4. Turn the chuck *clockwise* until the tyre is completely mounted (Fig.29).

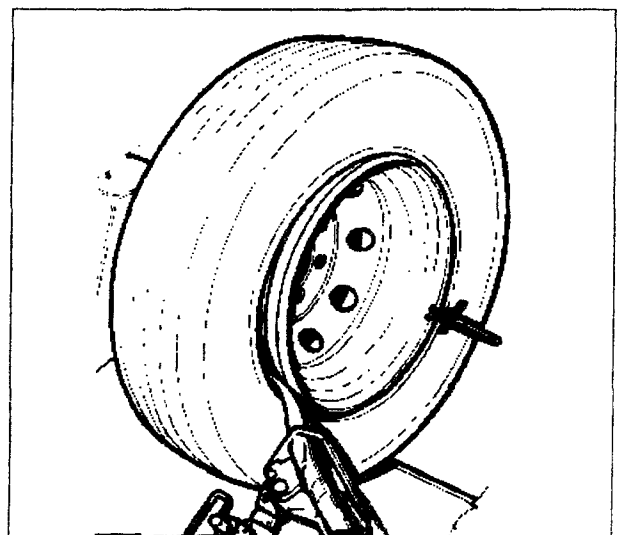


Fig.29

Ensure that the outer bead descends into the drop center when the clamp is opposite to the tool (Fig.30).

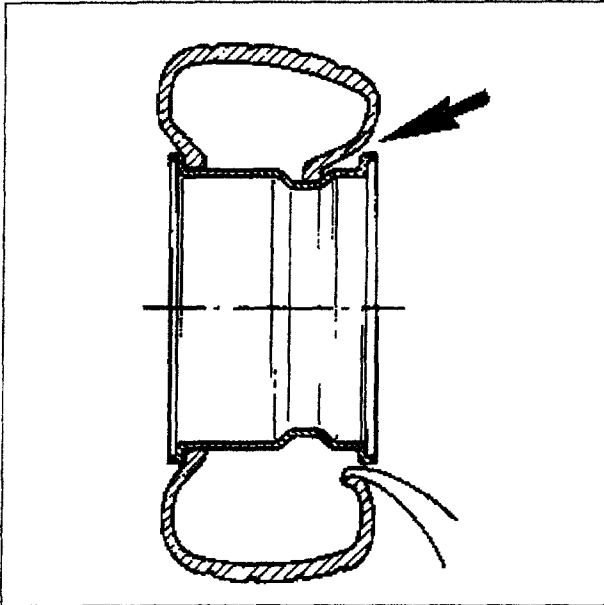


Fig.30



STOP THE CHUCK BEFORE ONE COMPLETE TURN IS MADE TO AVOID SERIOUS DAMAGES TO THE MOUNTING CLAMP AND TO THE RIM.



DO NOT INFLATE THE TYRE ON THE MACHINE. THIS MACHINE IS NOT AN INFLATION DEVICE.
FOR INFLATION PLACE THE WHEEL IN AN APPROVED INFLATION RESTRAINT DEVICE (IN THE UNITED STATES OF AMERICA CONSULT O.S.H.A. REGULATIONS CONCERNING THE PROPER SERVICING OF TRUCK TYRES, WHEELS AND RIMS).

5.4 DEMOUNTING DUPLEX AND SUPERSINGLE TUBELESS TRUCK TYRES (OVER 13" WIDE)

NOTE:

FOR THIS OPERATION IT IS REQUIRED THE MOUNT/DEMOUNT TOOL.

1. Break the bead of the tyre as described in @5.2.1-5.2.6.
2. For this type of tyres it is not possible to demount both beads at the same time as described in @5.2.7.
Engage the hook of the mount/demount tool between the bead and the rim.
3. Lift the chuck arm enough to clear the hook 2-3 cm (1"-1 1/2") from the rim flange. Move the mount/demount tool towards the outside. This will allow you to put the long bar in between the bead and the rim flange for necessary prying (Fig.31).

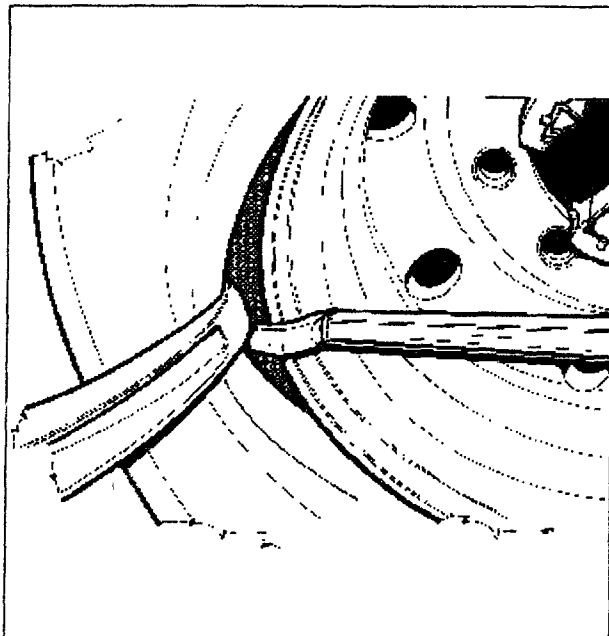


Fig.31

4. Rotate the chuck counter clockwise until the outer bead is completely demounted (Fig.32).

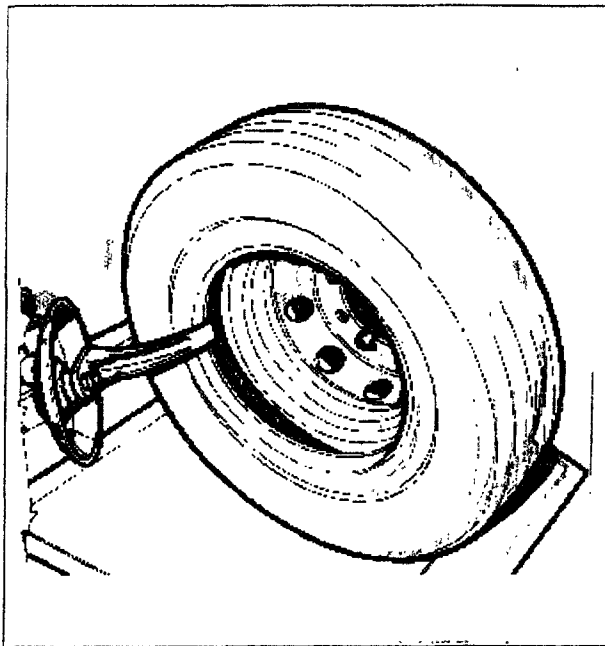


Fig.32

5.5 MOUNTING DUPLEX AND SUPERSINGLE TUBELESS TRUCK TYRES (OVER 13" WIDE)

1. Hang the inner bead of the tyre on the mounting clamp (Fig.34).

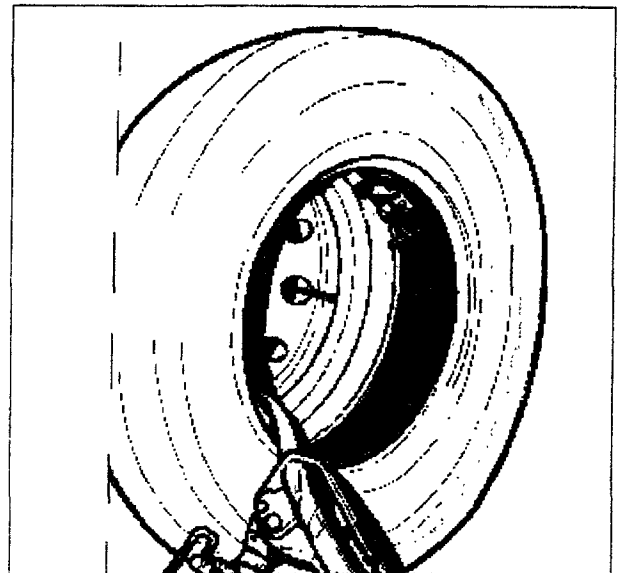


Fig.34

5. Demount the inner bead with the bead breaker disc, as described in @5.2.7 (Fig.33).

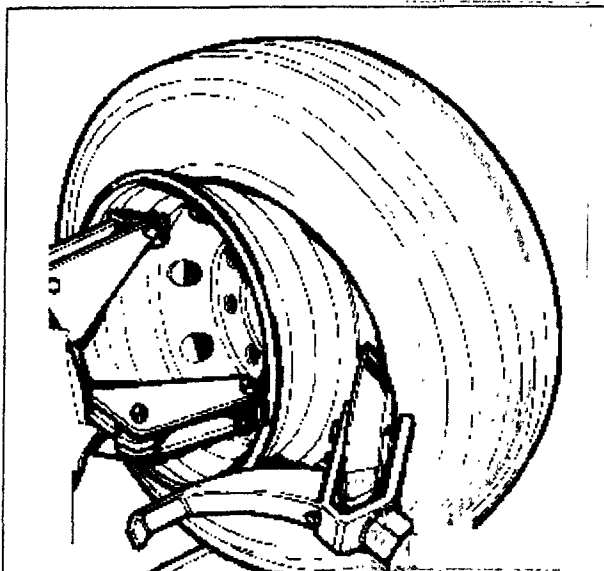


Fig.33

2. Position the mounting hook about $3/4$ " (1.5 cm) to the inside of the rim edge and $1/2$ " (1 cm) away radially. Rotate the chuck clockwise. Normally less than $1/4$ of a revolution is sufficient to mount the first bead (Fig.35).

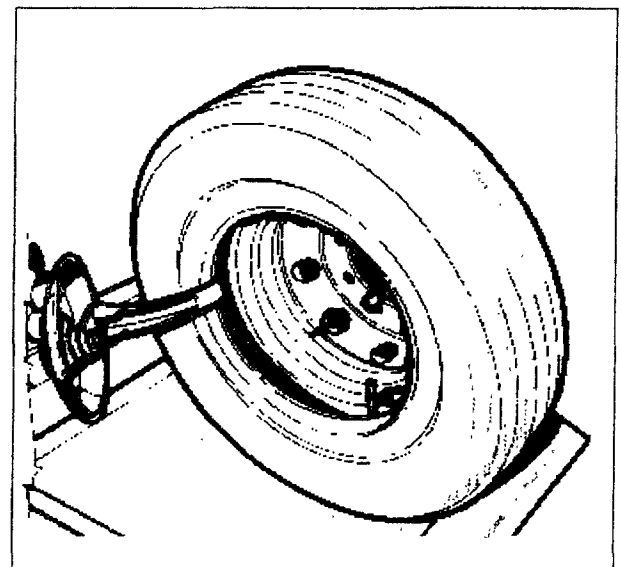


Fig.35

3. Reattach the mounting clamp to the rim flange with the valve after the mounting clamp, following the rotation direction (Fig.36).

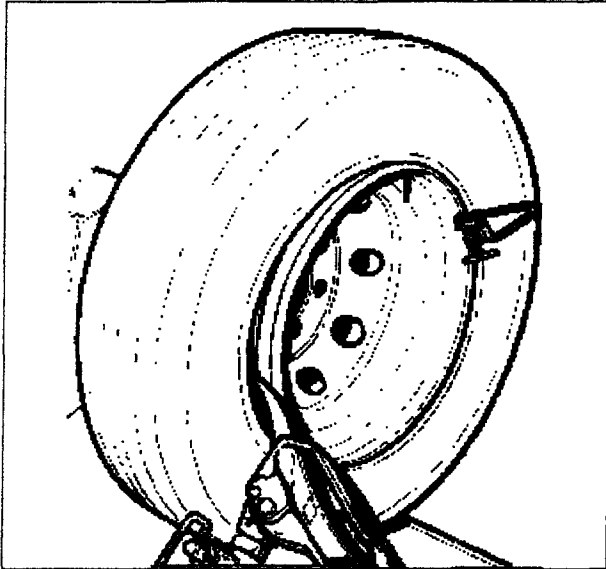





Fig.36

 NEVER USE HAND PRESSURE TO HOLD THE TYRE INTO THE RIM.

 STOP THE CHUCK BEFORE ONE COMPLETE TURN IS MADE TO AVOID SERIOUS DAMAGES TO THE MOUNTING CLAMP AND TO THE RIM.

 DO NOT INFLATE THE TYRE ON THE MACHINE. THIS MACHINE IS NOT AN INFLATION DEVICE.
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4. Rotate the chuck clockwise until the tyre is completely mounted.
Ensure that outer bead descends into the drop center when the clamp is opposite to the mount/demount tool (Fig.37).

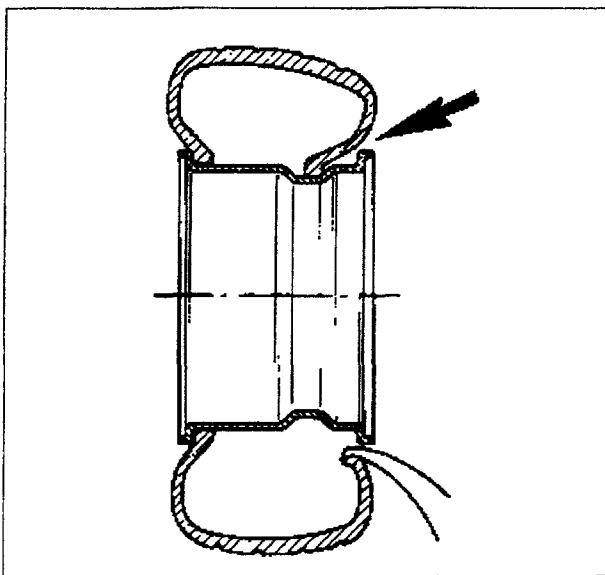


Fig.37

5.6 DEMOUNTING TYRES FROM MULTI-PIECES RIM/WHEEL ASSEMBLIES

The multi-piece rim/wheel assembly can be in two or more pieces (Fig.38).

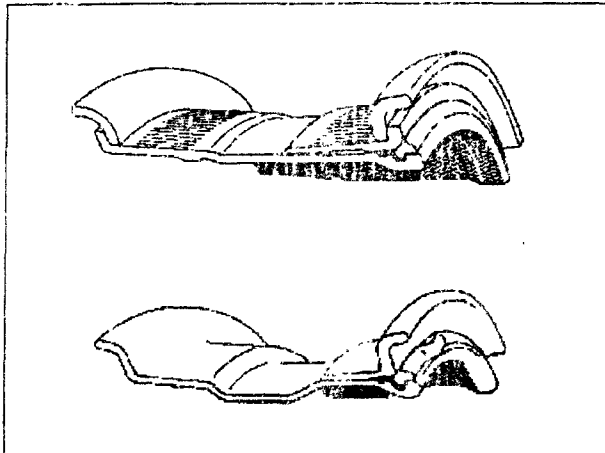


Fig.38

The truck wheels are normally in 2 pieces and are always tube-type.

In two piece assemblies the rim flange and lock ring are one piece and the rim base is the other.

In three piece assemblies the lock ring rim flange and rim base are the effected components.

In this case the rim flange goes on after the tyre and is held in place by the locking

1. Remove all wheel-weights from the rim.
Remove the valve stem or core and deflate the tyre.
2. Position the tool close to the rim edge (Fig.39).
When the lock ring is stuck to the bead, (on the O.T.R. tyres) to make it to break the bead, it is necessary to hold it to the rim with the appropriate clamp #4004611 (on request).

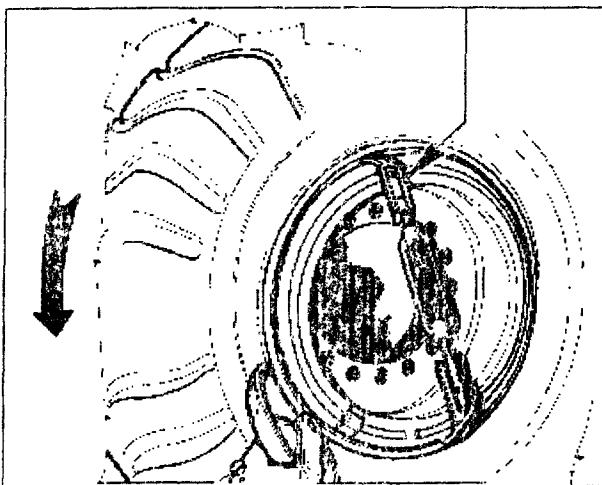


Fig.39

3. Turn the chuck counter-clockwise and the break bead as described in (5.2.1 - 5.2.3).
Do not lubricate.
4. To remove the lock ring, squeeze one edge with the proper bar and place the bead breaker disc as shown in Fig.40.

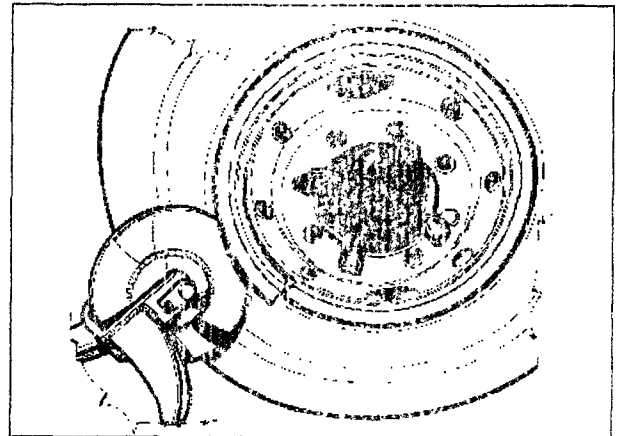
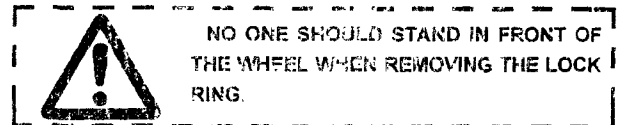


Fig.40

5. Turn the chuck clockwise (or counter-clockwise) until the lock ring is completely removed.



Continue to demount manually or with the disc tool all components of the rim.

6. When breaking the inner bead be sure not to damage the valve stem (Fig.41).

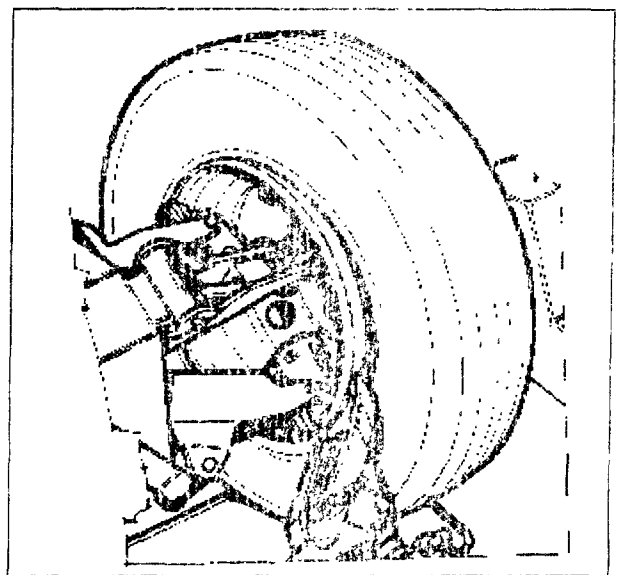


Fig.41

5.7 MOUNTING TYRES ONTO MULTI-PIECE RIM/WHEEL ASSEMBLIES

1. Roll the tyre on the footboard (the tube and flap must be in place).

NOTE:

THE O.T.R. TYRES AND RIMS ARE VERY HEAVY AND AN OUTSIDE LIFTING TOOL MAY BE REQUIRED.

For tube type only, the valve should be placed at 12 o'clock, for easier mounting.

2. Slide the tyre onto the rim with the footboard or with the bead breaker disc, if necessary.
3. Mount all the assembly components.
4. Engage one edge of the lock ring in its seat and complete the mounting process with the bead breaker disc.
In the initial mounting phase hold the rim edge in its seat with a bar (Fig.42).

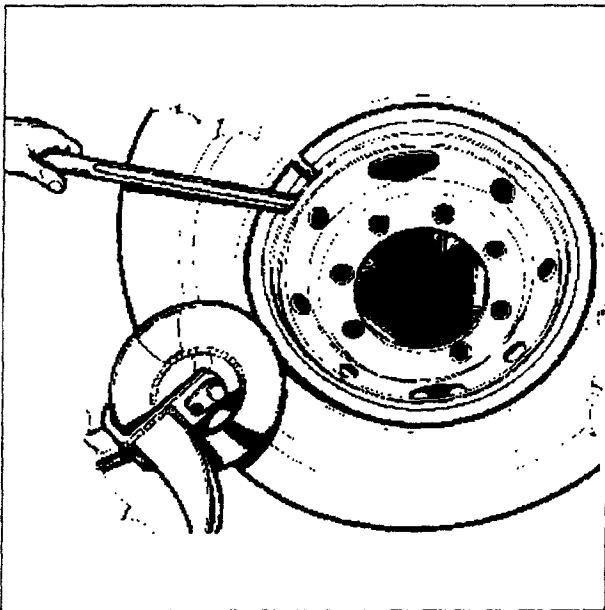


Fig.42

5.8 DEMOUNTING TRACTOR AND O.T.R. WHEELS WITH ONE-PIECE RIMS

These wheels may be tube-type or tubeless.

The rim has a slightly conical surface and a very high rim flange (Fig.43) which does not allow you to demount the tyre by simple pressure as described in @5.2.

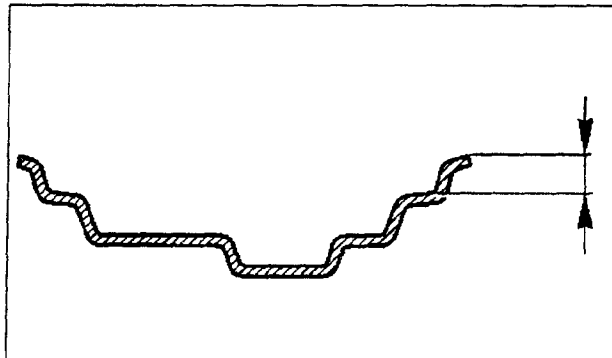


Fig.43

1. Remove all wheel-weights from the rim.
Remove the valve stem or core and deflate the tyre.
2. Place the disc tool next to the rim edge and bead break the inner bead as described in @5.2.3.
3. Break the outer bead in the same way, paying attention not to damage the valve stem (Fig.44).

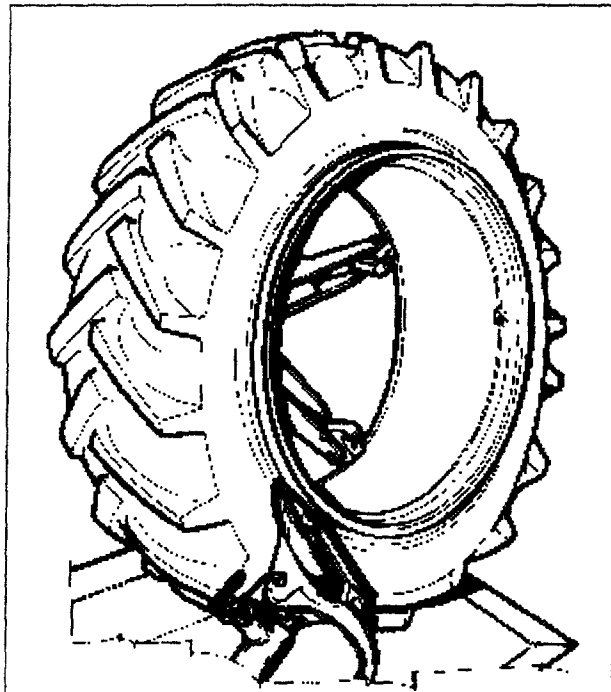



Fig.44



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FOR INFLATION PLACE THE WHEEL IN AN APPROVED INFLATION RESTRAINT DEVICE (IN THE UNITED STATES OF AMERICA CONSULT O.S.H.A. REGULATIONS CONCERNING THE PROPER SERVICING OF TRUCK TYRES, WHEELS AND RIMS).

4. Lubricate both beads and the rim surface (Fig.45).

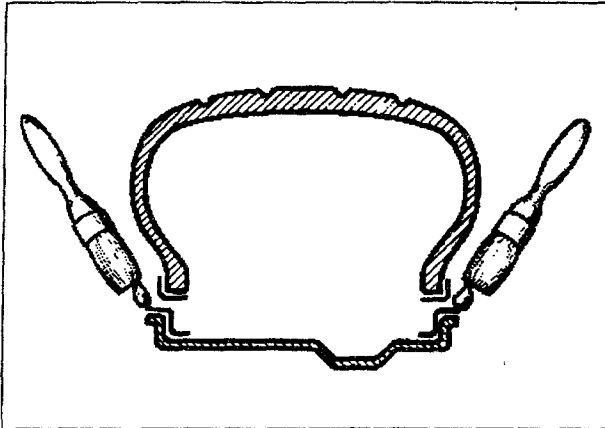


Fig.45

5. Place the hook tool between bead and rim (Fig.46).

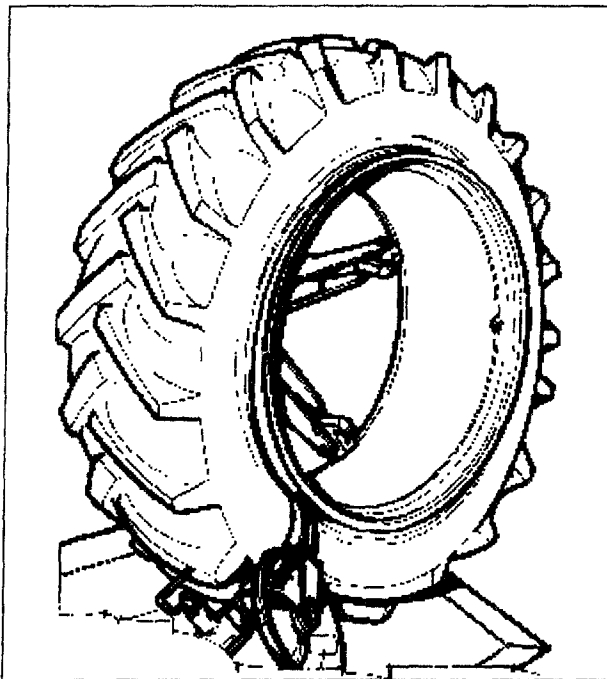


Fig.46

6. Lift the chuck arm to move the hook tool away from the rim edge (1" or 2-3 cm). Move the tool towards the outside to apply the long tyre bar (Fig.41).

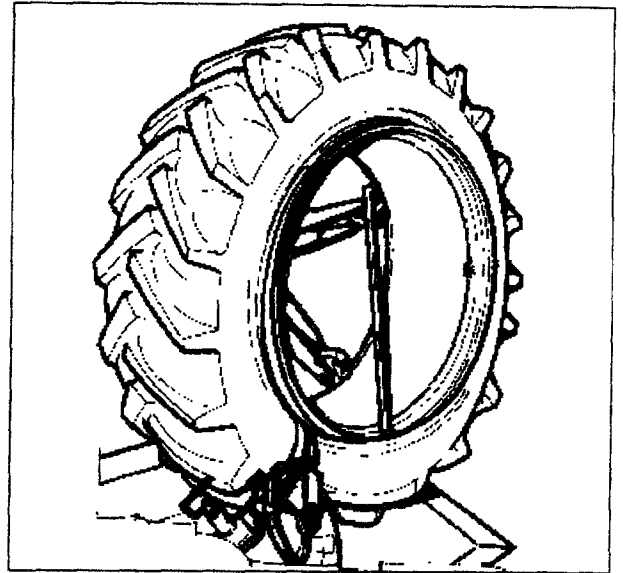


Fig.47

7. Turn the chuck counter-clockwise until the outer bead is completely demounted (Fig.48).

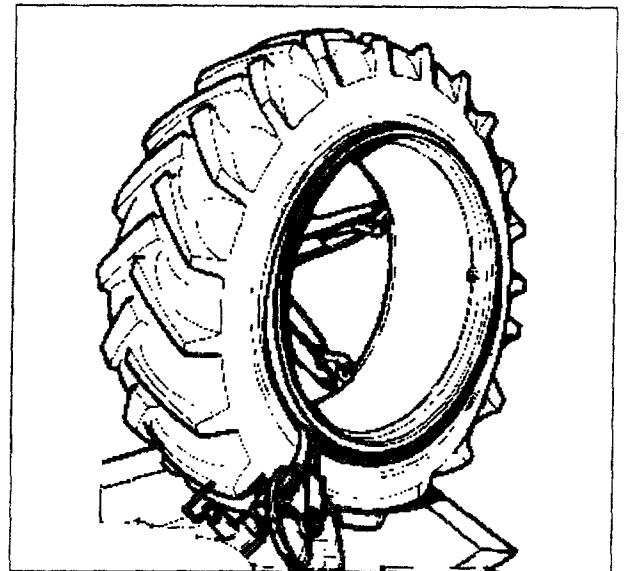


Fig.48

8. If the tyre is tube-type, push the valve stem towards the inside of the rim.

9. Lift the toolholder arm to the rest position. If the tyre is tube type, move the toolholder carriage all the way out: this operation allows you to pull the tube out much easier (Fig.49).

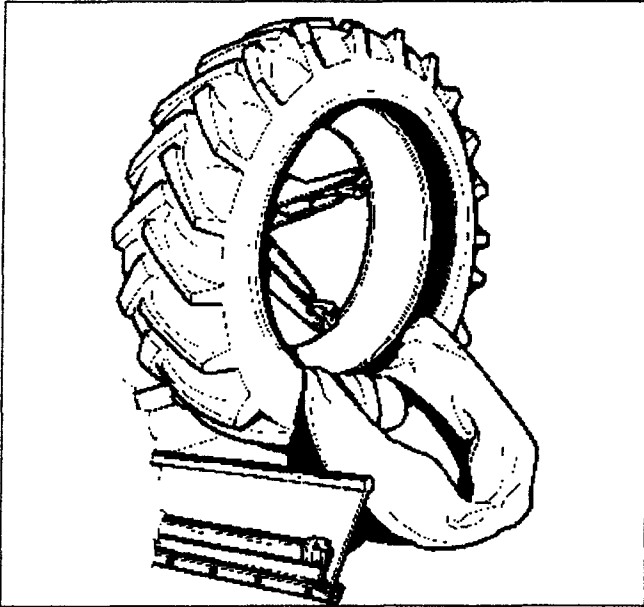


Fig.49

10. Place the hook tool as in Fig.50. The edge of the hook should be about 2-3 cm (1") away from the rim edge in radially and about 2-3 cm (1") to the outside.

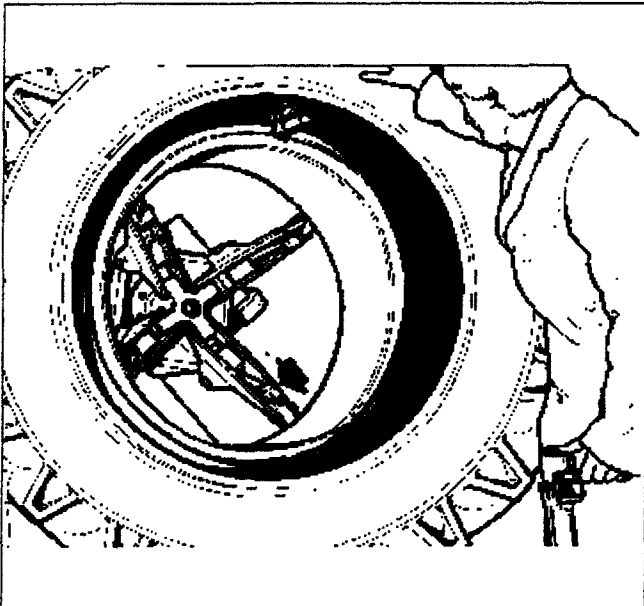
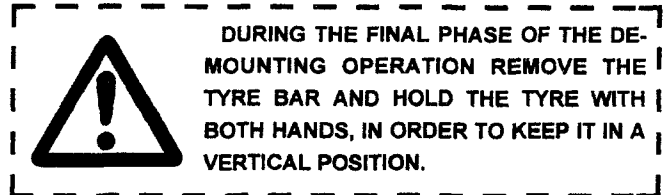


Fig.50

11. Put the long tyre bar in between the bead and the rim.

12. Rotate the chuck counter-clockwise until the tyre is completely demounted.



5.9 MOUNTING TRACTOR AND O.T.R. WHEELS ON ONE-PIECE RIMS

1. Liberally lubricate both beads and the rim.
2. Firmly fit the mounting clamp to the outer rim flange at 9 o'clock. Roll the tyre onto the footboard and hang it on the mounting clamp attached to the rim edge.
3. Place the hook tool as shown in Fig.51. The edge of the hook should be about 2-3 cm (1") away from the rim edge in radially and 2-3 cm (1") to the outside.

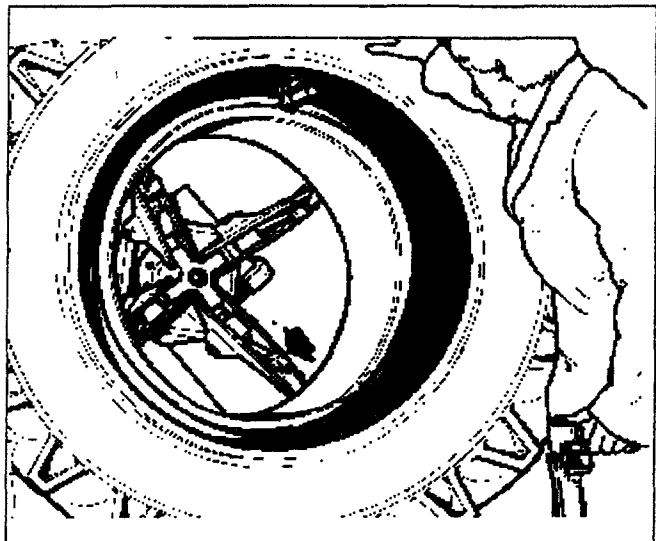


Fig.51

4. Turn the chuck clockwise until the first bead is mounted.
Remove the clamp.
5. Put the tube (if any) into the tyre and secure the valve stem to the rim.
6. Firmly fit the mounting clamp to the outer rim edge at 11 o'clock with valve stem at 10 o'clock in such a way to hold the outer bead. If necessary make use of the tool to create the space to fit the clamp.
7. Place the hook tool as described in @5.5.2.
Turn the chuck clockwise until the outer bead is mounted (Fig.52).

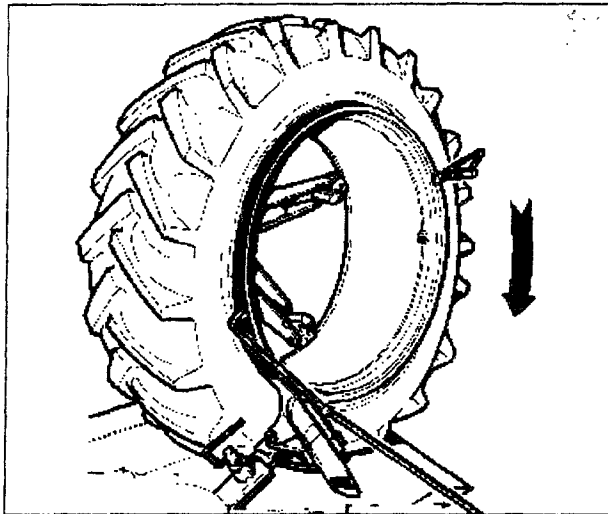




Fig.52



DO NOT INFLATE THE TYRE ON THE MACHINE. THIS MACHINE IS NOT AN INFLATION DEVICE.

FOR INFLATION PLACE THE WHEEL IN AN APPROVED INFLATION RESTRAINT DEVICE (IN THE UNITED STATES OF AMERICA CONSULT O.S.H.A. REGULATIONS CONCERNING THE PROPER SERVICING OF TRUCK TYRES, WHEELS AND RIMS).

6.0 MAINTENANCE



BEFORE STARTING ANY MAINTENANCE OPERATION ENSURE THAT NO WHEEL IS MOUNTED ON THE CHUCK AND THAT THE MACHINE IS DISCONNECTED FROM THE ELECTRIC SUPPLY.

1. Lubricate all points provided with a greasing nipple once a month (Fig.53).

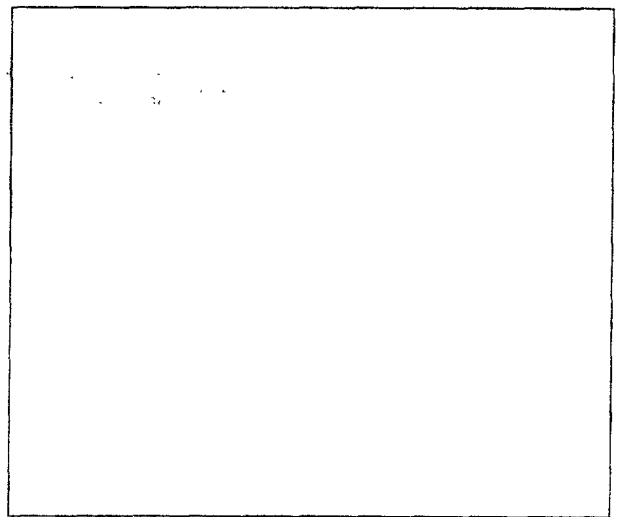


Fig.53

2. Check gear oil once a week (Fig.54).
Chuck arm must be all the way down while checking.

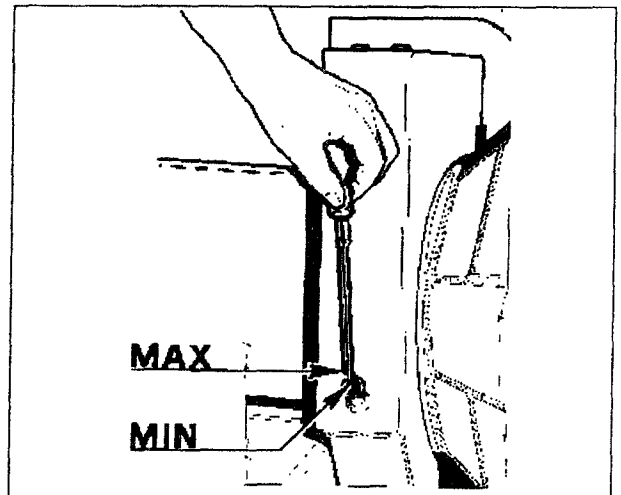


Fig.54

If necessary add:

ESSO : Gear Oil GX 85 W 90
 SHELL : Spirax EP 85 W 90
 TOTAL : EP SAE 85 W 90

Change gear oil once a year. Oil sump capacity is 0.3 gal (1.5 lt).

Add 5% of bisulphide of molybdenum (UNIMOLY S6).

3. Check hydraulic oil level once a month.

NOTE:

BEFORE CHECKING, ALL CYLINDERS MUST BE COMPLETELY RETRACTED.

If necessary add:

ESSO : Nuto H 46
 SHELL : Tellus oil 46
 TOTAL : Azolla 46

Oil change is not required.

4. Clean and grease the toolholder slide cylinder once a month (Fig.55).

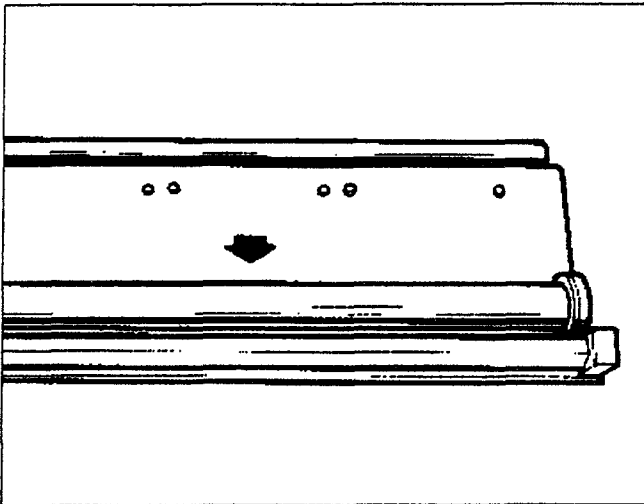


Fig.55

5. Clean the jaws once a month with a steel brush.

7.0 MOVING THE MACHINE

In case the machine is to be moved from a working place to another, proceed as follows:

Disconnect the machine from the electric supply.
 Use belts of a length of mm 3000 (10ft) and a capacity of kg 1000 (2200 lbs).

Hold the machine as depicted in Fig. 56.

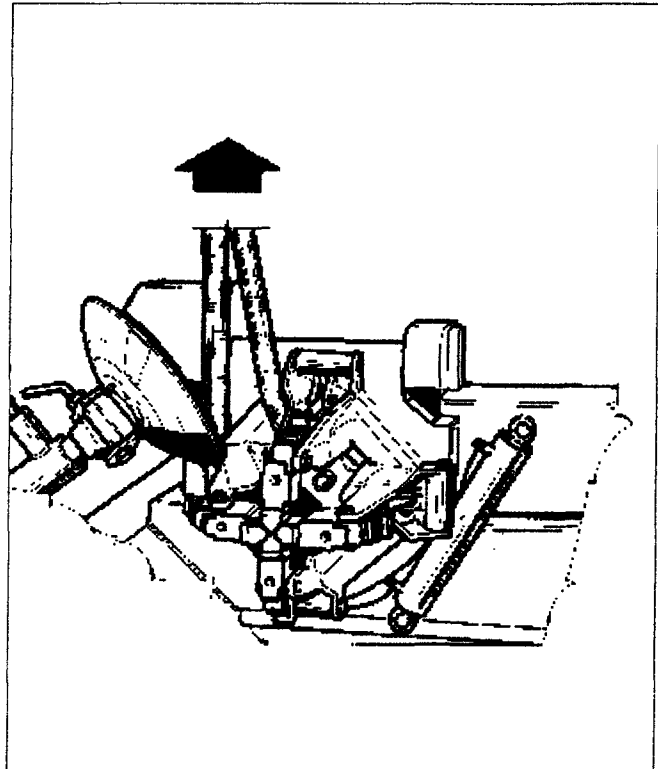


Fig.56

8.0 PUTTING THE MACHINE OUT OF SERVICE

In case the machine is not to be used for a long period of time (6 months or more) it is necessary to close the chuck arms, retract all hydraulic cylinders and disconnect all power sources. Protect all parts that may be damaged, protect the hydraulic hoses that may be damaged because of a drying process.

When putting the machine back in operation, check first the condition of all previously protected parts, and check for correct functioning of all devices before using the machine again.

9.0 SCRAPPING THE MACHINE

Once it is decided to no longer use this machine it is required to make it inoperating by cutting the electric cord.

Consider the machine as a special waste, dismantle the machine in omogeneous parts (metal, plastic, oils etc.) and dispose following the local running regulations.

TROUBLE	CAUSE	REMEDY
Pump motor turns but none of the hydraulic movements works	<ul style="list-style-type: none"> - The automatic circuit breaker is off - A phase of the low-voltage section is blown - Transformer is burnt 	<ul style="list-style-type: none"> - Disconnect the machine from electric supply. Open the electric cabinet and check the automatic circuit breaker and low voltage phases. Reset the circuit breaker or replace the phases as needed. THIS OPERATION CAN BE MADE ONLY BY QUALIFIED PERSONNEL. - Call the authorized service center for assistance.
Pump motor does not turn but the chuck motor is operated normally.	-The thermal safety switch protecting the hydraulic motor is activated.	<ul style="list-style-type: none"> - Disconnect the machine from electric supply. Open the electric cabinet and reset the thermal safety switch. THIS OPERATION CAN BE MADE ONLY BY QUALIFIED PERSONNEL.
The thermal switch that protects the pump motor is very easily activated	- The voltage of the electric line is too low.	<ul style="list-style-type: none"> - Check voltage on electric supply. THIS OPERATION CAN BE MADE ONLY BY QUALIFIED PERSONNEL.
The circuit breaker is very easily activated.	<ul style="list-style-type: none"> - The machine is not stable on the floor. - The electric cabinet is not firmly attached to the chuck arm. - The voltage of the electric line is too low. 	<ul style="list-style-type: none"> - Check that the machine is securely bolted to the floor. - Attach the electric cabinet firmly. - Check voltage on electric supply. THIS OPERATION CAN BE MADE ONLY BY QUALIFIED PERSONNEL.
The transformer protection phases (4A) easily blow.	- Short circuit in the electric cord connecting the portable control unit to the electric cabinet.	<ul style="list-style-type: none"> - Call the authorized service center for assistance.
The chuck does not hold the wheel firmly.	<ul style="list-style-type: none"> - The teeth of the chuck jaws are full of dirt or worn out - The protectors for light-alloy wheels are damaged or worn out. - The check valve or manifold of the chuck cylinder leak oil. 	<ul style="list-style-type: none"> - Clean the teeth of the chuck jaws with a wire brush. - Replace the protectors for alloy wheels. - Call the authorized service center for assistance.



**THIS PART IS FOR EXCLUSIVE USE OF
QUALIFIED PERSONNEL FOR
MAINTENANCE AND SERVICE
PURPOSES**

ACCU 4520 MR

**Catalogo ricambi
Spare parts
Pieces detachées
Ersatzteile
Repuestos**

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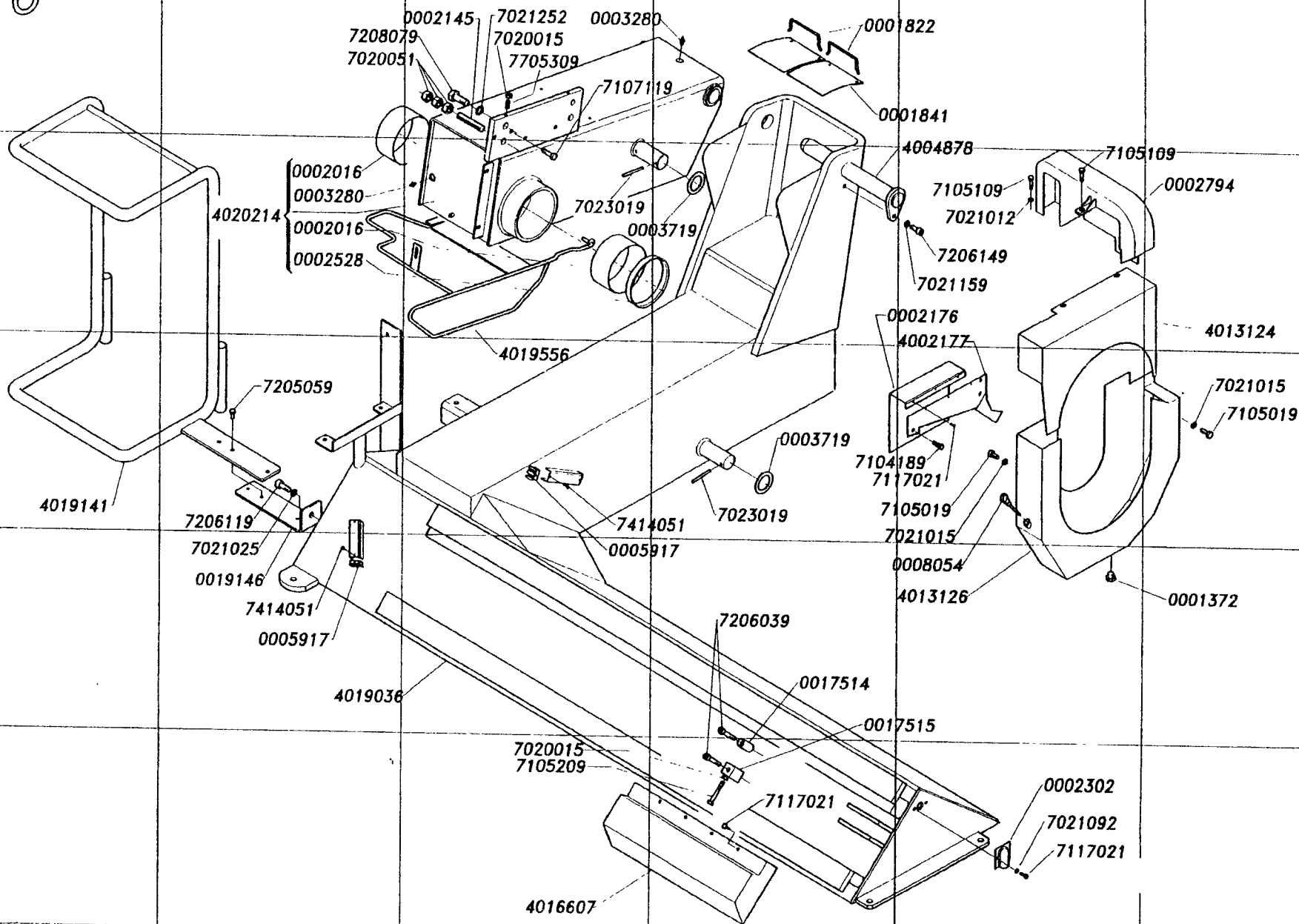
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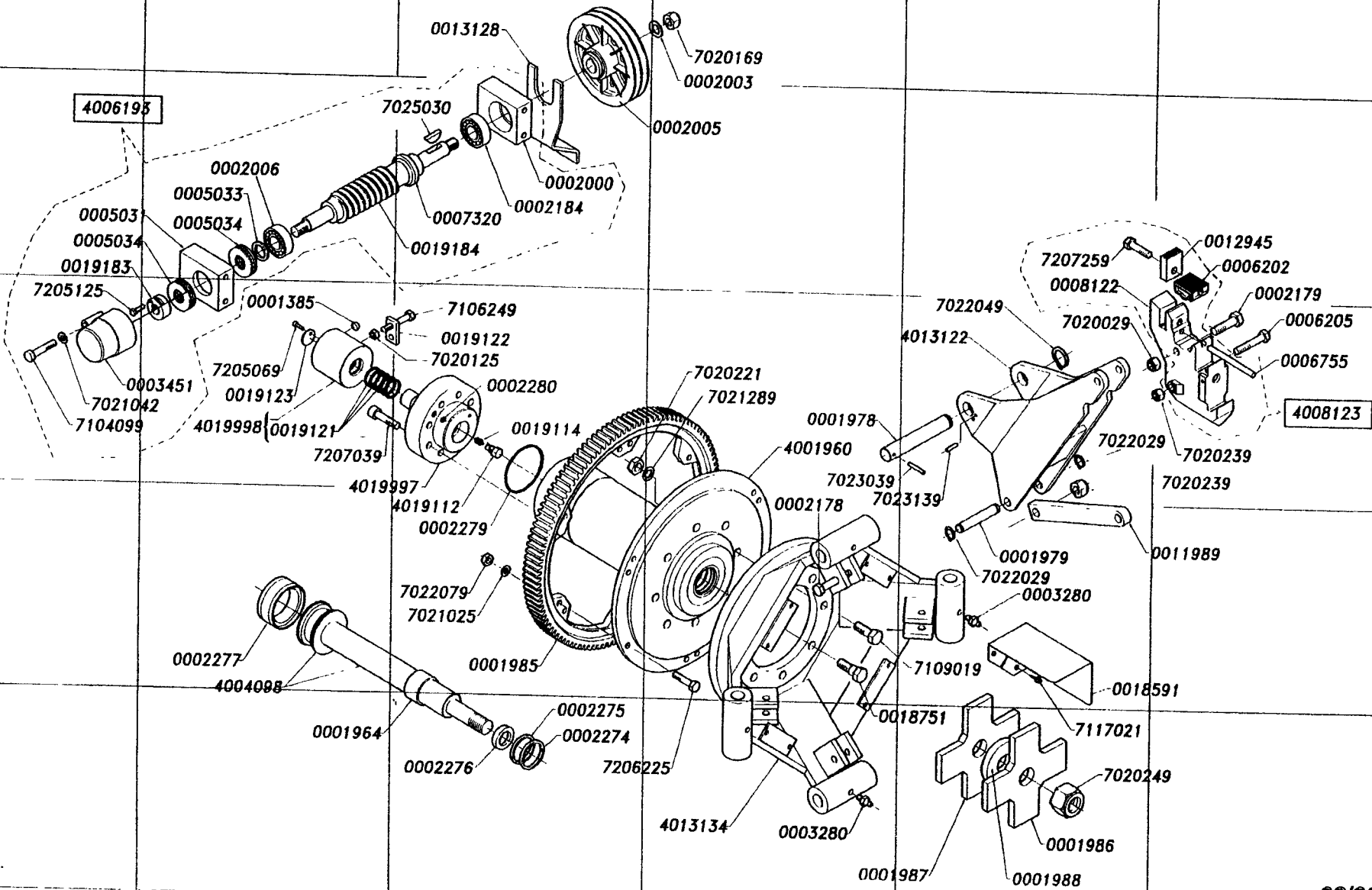
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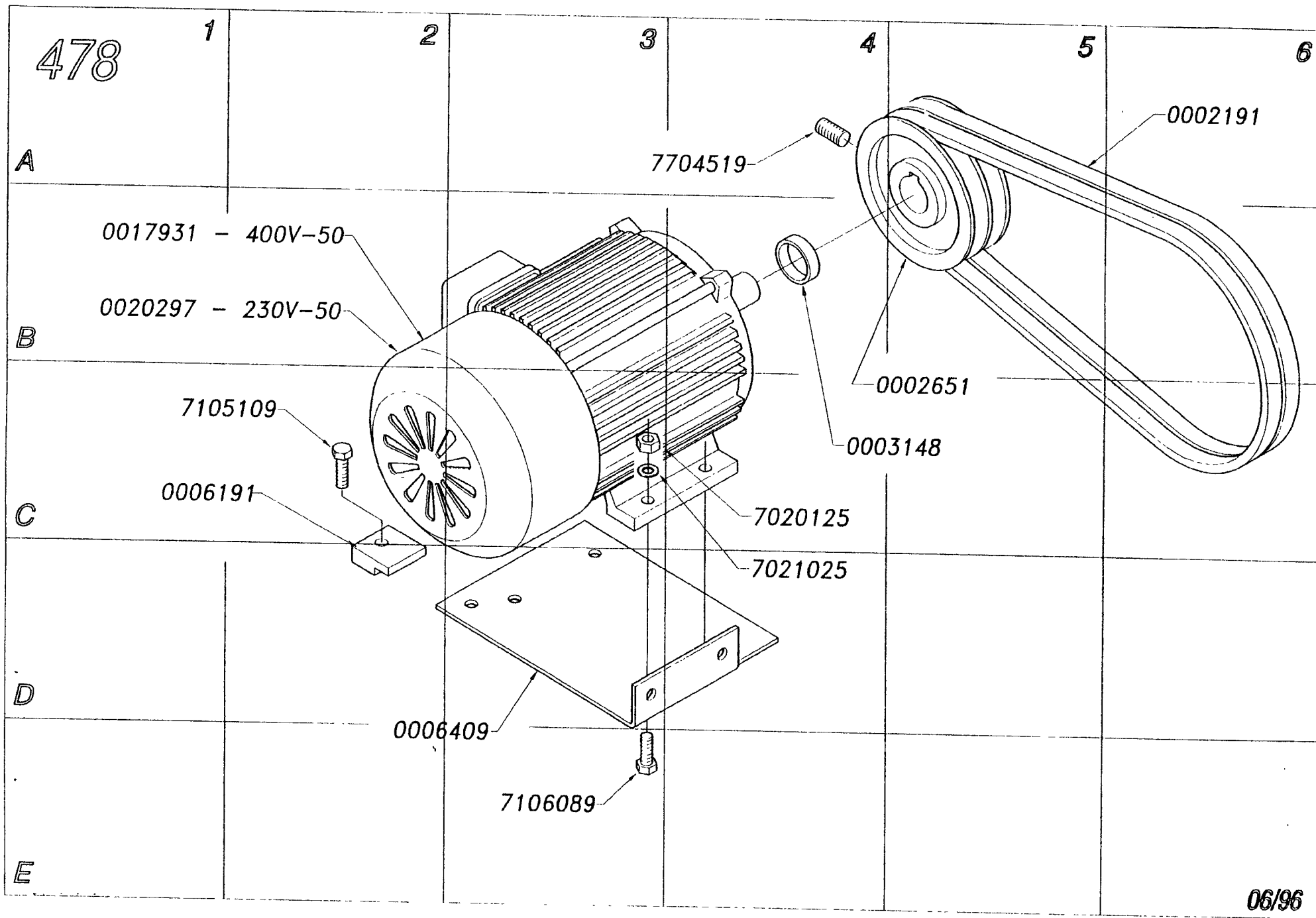
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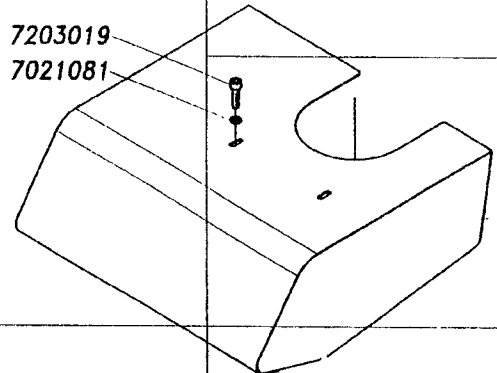
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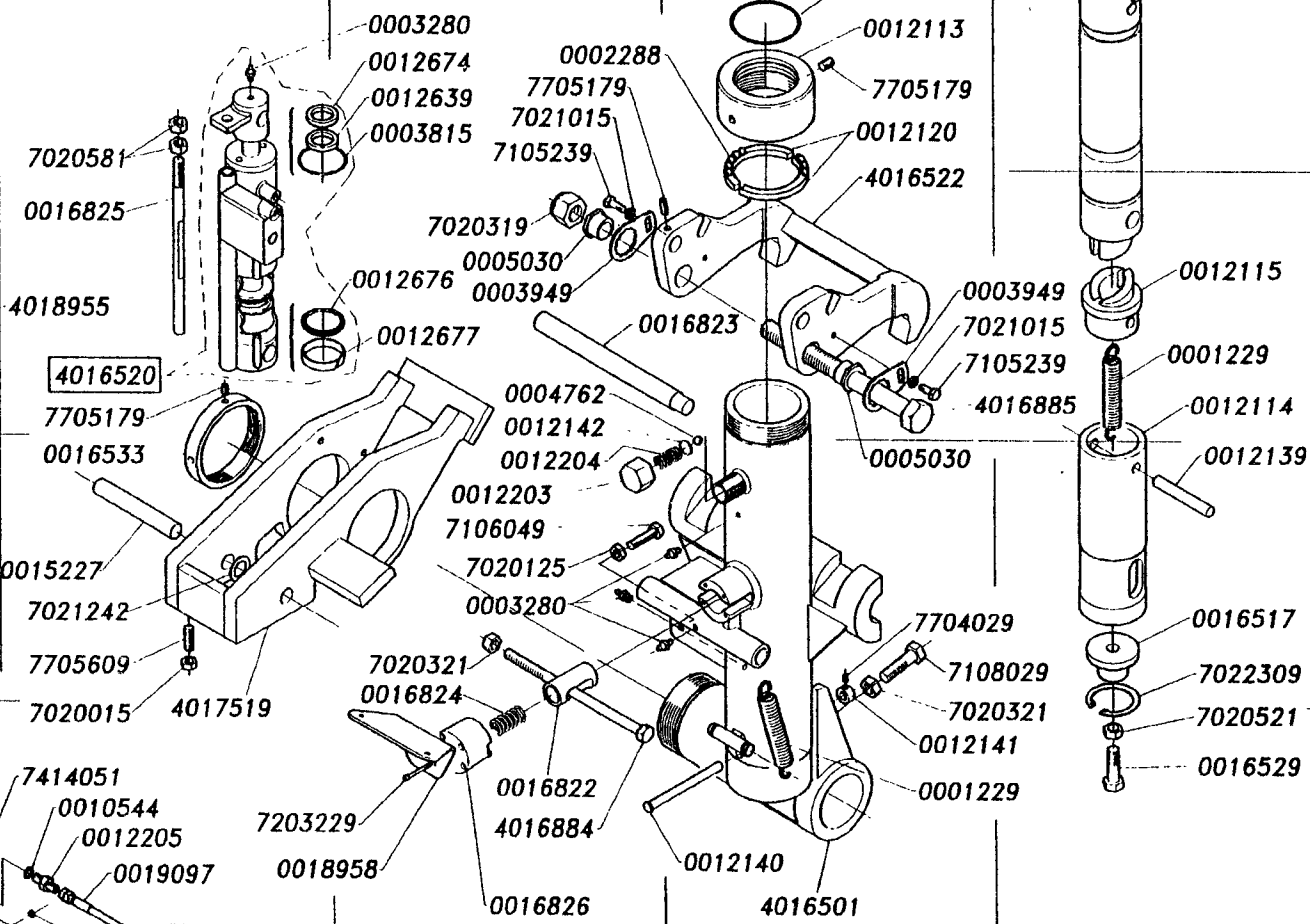
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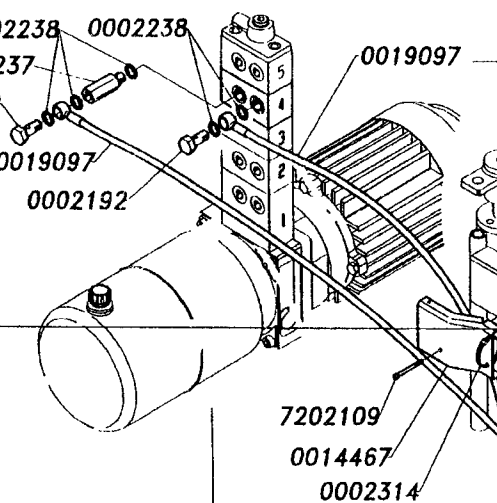
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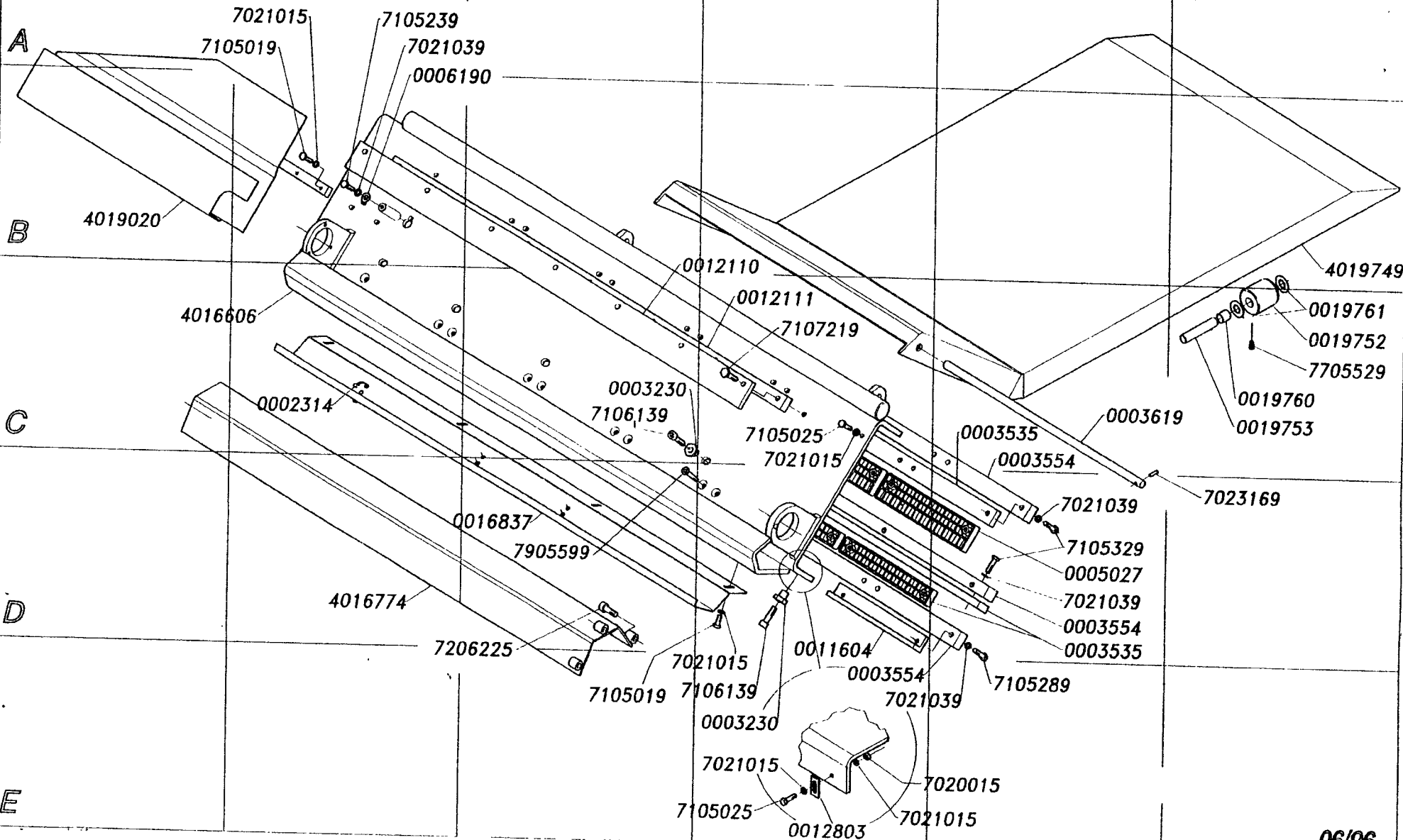
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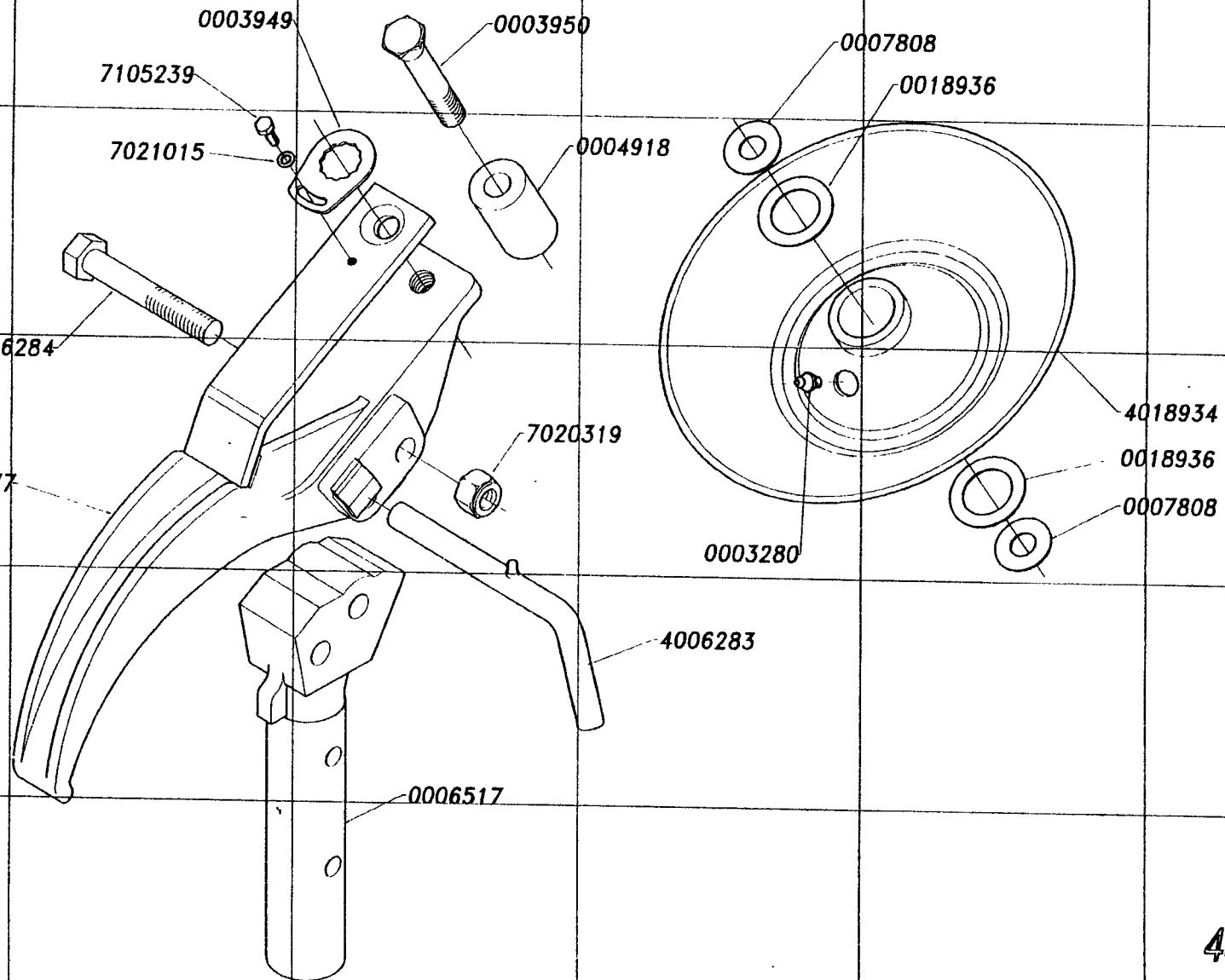
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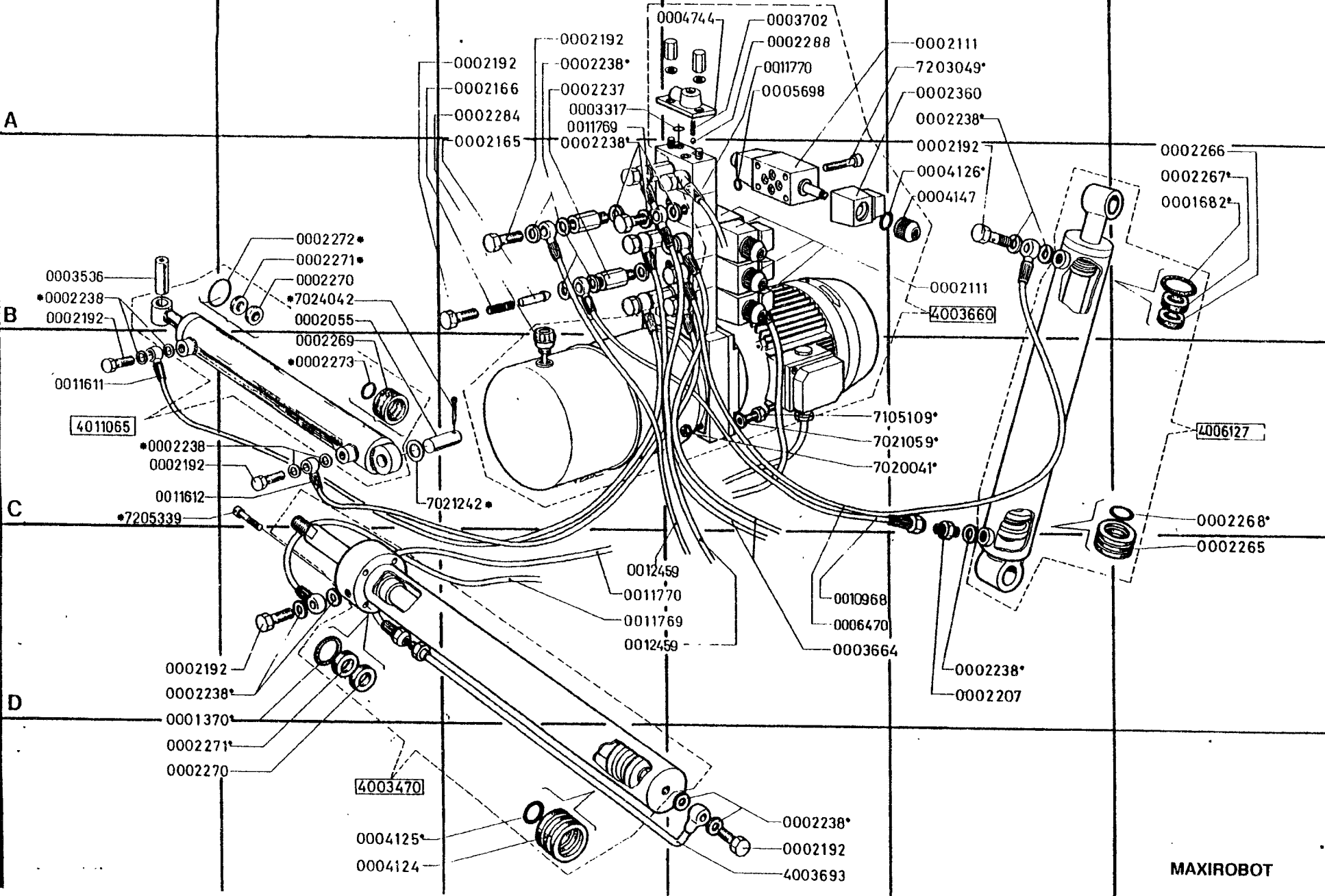
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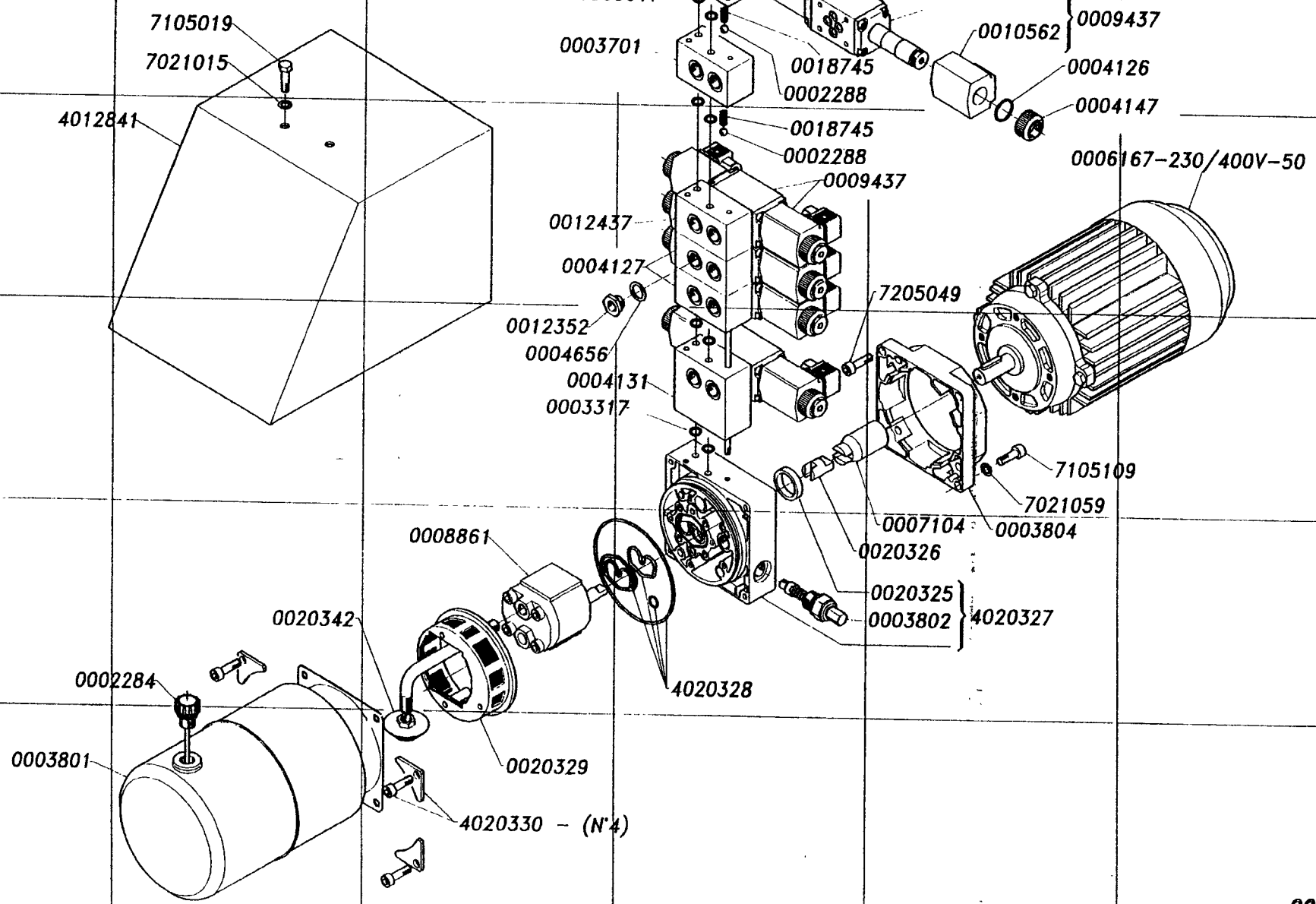
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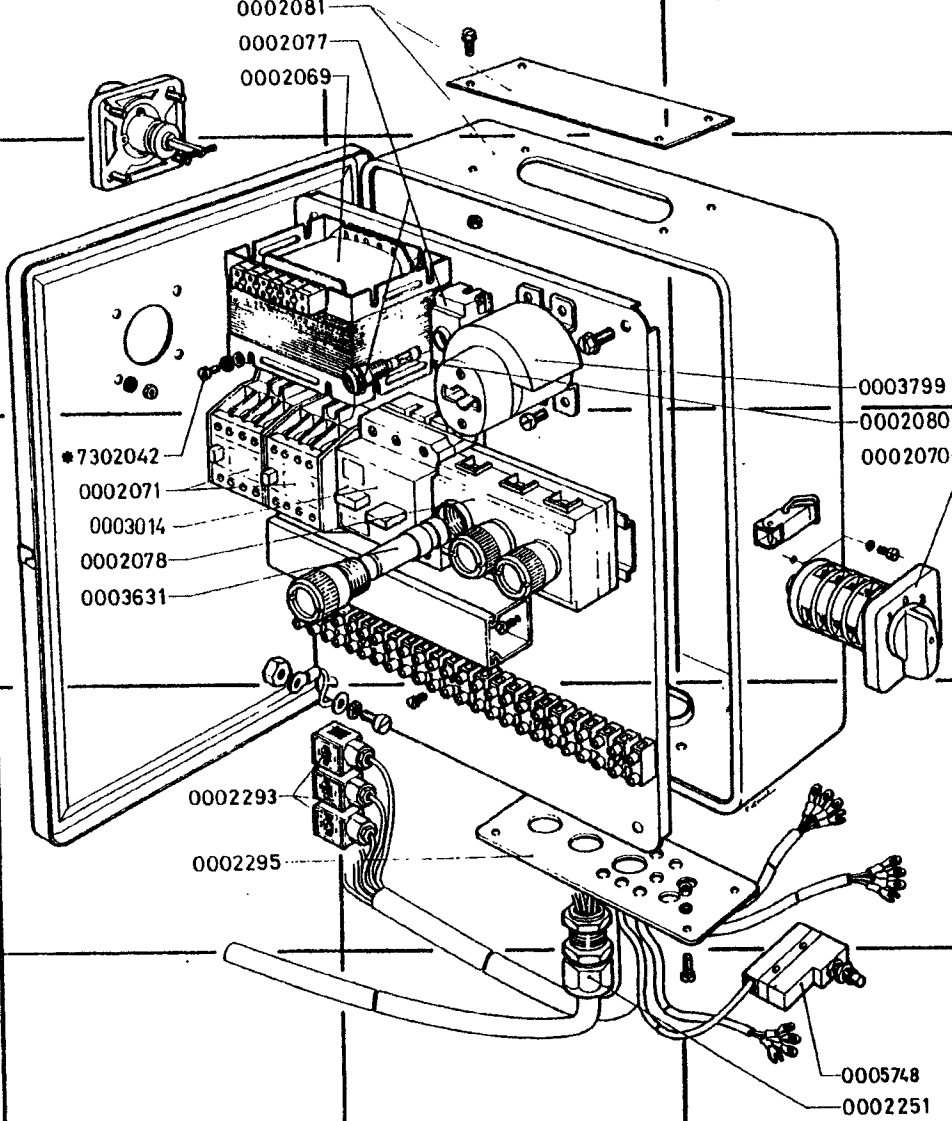
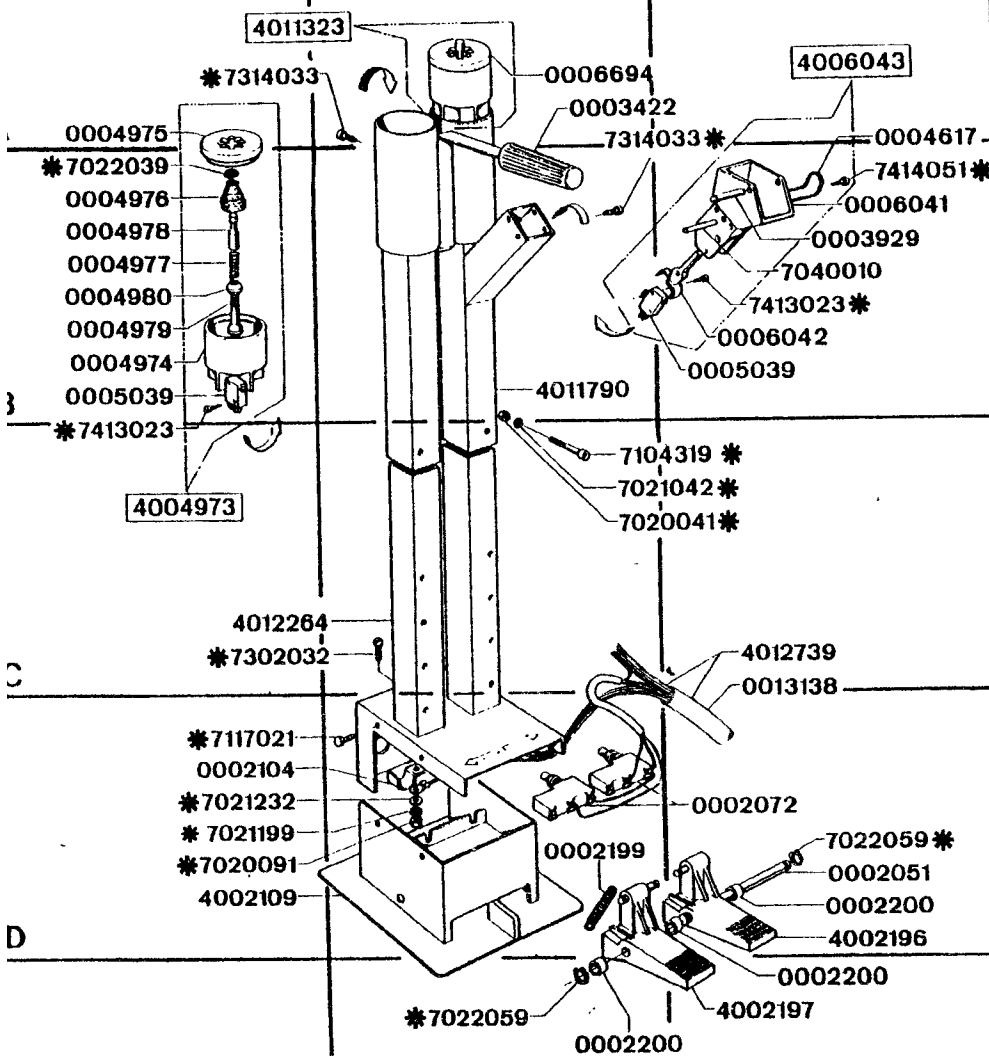
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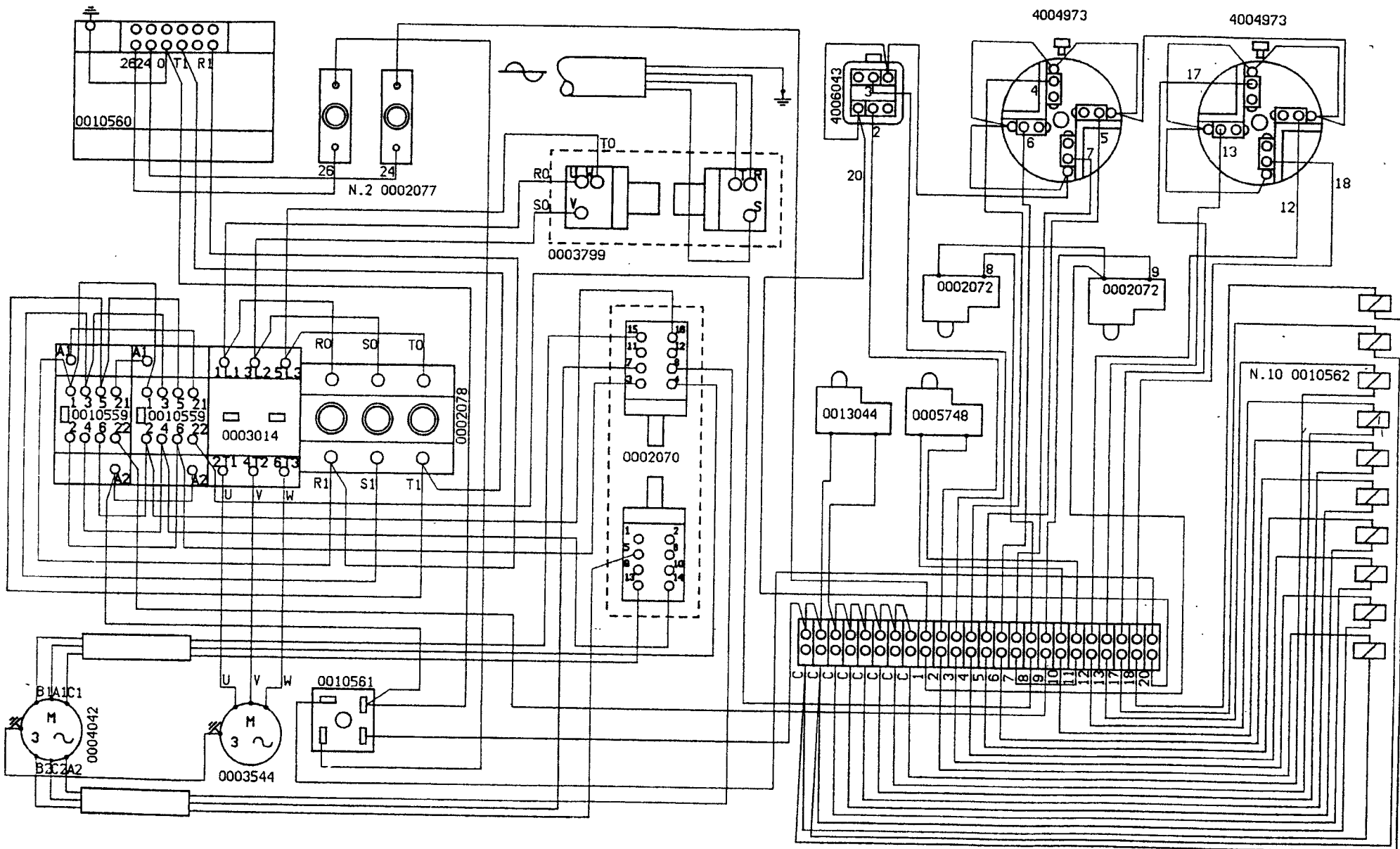
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	FAMIGLIA 824	DENOMINAZIONE SCHEMA IMPIANTO ELETTRICO	DATA 16/5/89	DIS. N. 0013216
	PROGETTO BK52	BK52 ROBOT CON SICURA 200V - 24V	DISEGNATO C.D.	