



GLO-950

(RIM CLAMP TIRE CHANGER)

OPERATION MANUAL

DATE INSTALLED: _____

SERIAL # _____

MANUFACTURING DATE: _____

(EAGLE - GLOBAL : NHT)

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INTRODUCTION

Thank you for your purchase of this tire changer.

This guide has been made in order to supply the owner as well the user with the basic instructions for a correct use of the machine. Read this guide carefully before using the machine and follow the instructions given by this guide carefully to grant the machine a correct function, efficiency and a long service life.

INTENDED USE: This tire changer has been designed and manufactured specially for mounting and demounting tires onto/from rims.



Any other use is to be considered incorrect and unreasonable. We will not hold responsibility for any damage caused from using of this tire changer for purposes other than those specified in this manual and therefore inappropriate, incorrect and unreasonable.

- G) Clamps
- I) Mounting head
- L) Airline gauge
- M) Horizontal arm
- N) Mounting bar
- P) Vertical arm
- Q) Air supply
- R) Bead Breaker
- S) Wheel support
- T) Bead lifting lever
- U) Bead breaker control pedal
- V) Clamp control pedal
- Z) Reverse control pedal
- Y) Turntable
- K) locking handle
- O) Inflating and bead seating pedal

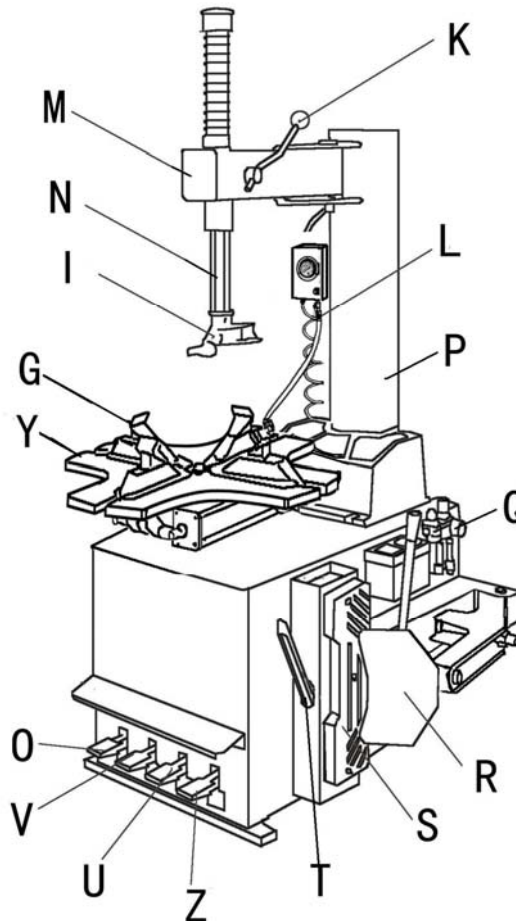


Fig.1

Press this pedal (O) half down to inflate tire and down completely to seat the bead.

TRANSPORTATION

The tire changer must be transported in its original packing and kept in the position shown on the package itself.
The packaged machine may be moved by means of a forklift truck of suitable capacity. Insert the forks at the points shown in figure2.

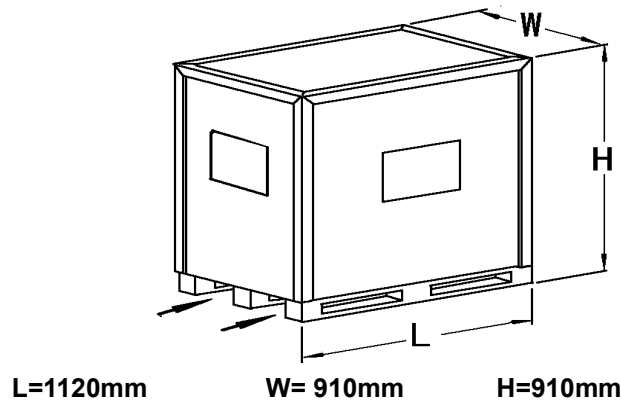


Fig.2

UNPACKING

Remove the protective cardboard and the plastic bag.

Make sure that the equipment is in perfect condition, making sure that no parts damaged or missed.

Use fig. 1 for reference.

If in doubt, do not use the machine and contract your retailer,

INSTALLATION

SPACE REQUIRED

When choosing the place of installation be sure that it complies with current safety at work regulations.

The tire changer must be connected to the electric power supply and the compressed air system.

The place of installation must also provide at least the space shown in figure 4 so as to allow all parts of the machine to operate correctly and without any restriction.

POSITIONING AND ASSEMBLY

- Unscrew the pallet fixing screws and position the tire changer in the chosen place of installation.
- Unscrew the fixing screws from the arm support.
- Lift the arm and rest it on the arm support box, aligning it with the holes in which the screws were inserted.
- Retighten the fixing screws.

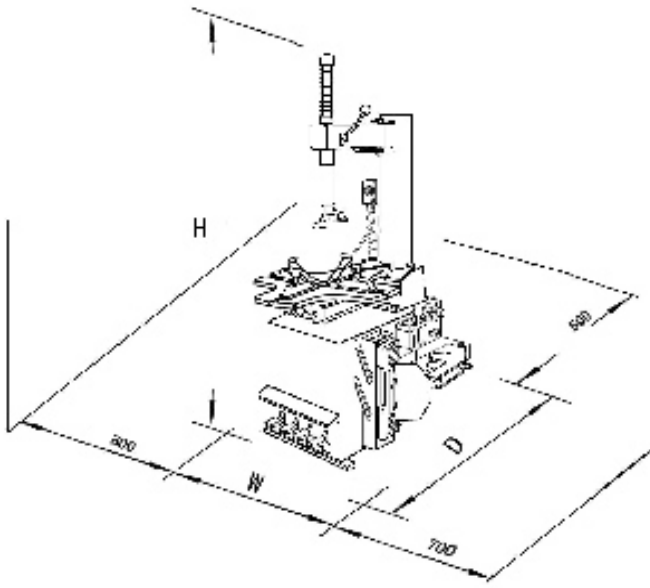


Fig 4.

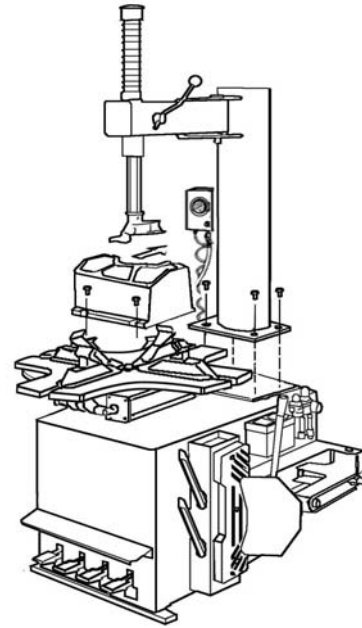


Fig 5.

POWER&AIR SOURCE CONNECTING

Before making the connections, check that the characteristics of your systems correspond to those required by the machine

Even small jobs done on the electrical system must be carried out by professionally qualified personnel.

- Connect the machine to the electric network with the protection device of under-voltage, over-voltage, which must be provided with line fuses, a good earth plate in compliance with regulations in force and it must be connected to an automatic circuit breaker with RCD setting set at 30 mA.
- Connect the machine to the compressed air system by means of the air connection (Q) that protrudes from the rear section as shown in the diagram 12.

Note: Should the tire-changer be lacking in electric plug, so the user must set one, which is at least 16 A and conforms to the voltage of the machine, in compliance with the regulations in force.

TECHNICAL DATA

External locking rim dimensions	12" - 22"
Internal locking rim dimensions	14" - 24"
Max. tire diameter	43" (1092mm)
Max. tire width	17" (431mm)
Table top rotation speed	6.1 min
Force on bead breaker blade(10bar)	2500 kg
Working pressure	8-10bar
Inflating pressure limiting device max.	0.35 MPa
Relief valve on inflating device	0.4 MPa
Power supply voltage	110 V. / 60Hz/1PH
Motor power	1.1kW
Max. rotation torque of turntable	1100 N·m
dimensions	1120mm×910mm×910mm
Net weight	217 kg
Noise level in working conditions	< 70 dB

OPERATION

Make sure that you have known clearly the function of main parts.

Do not use the machine until you have read and understood the entire nearby and the warnings it provides.

· When pedal Z pressed down, the turntable should turn in a clockwise direction, while run anticlockwise when pedal Z pulled up.

Note: If the turntable turns in opposite direction to that shown, reverse two of the wires in the three-phase plug.

· Pressing the pedal U to activate bead breaker (R), when the pedal is released the bead breaker return to its original position.

· Pressing the pedal V to opens the four jaws, they close when the pedal pressed again.

.Press pedal O half down to inflate tire and completely down to seat the beads.

The operation of the tire changer is divided into three parts:

- a) **BREAKING THE BEAD**
- b) **TIRE DEMOUNTING**
- c) **TIRE MOUNTING**

Before carrying out any operation, deflate the tire and take off all the wheel balancing weights.

BREAKING THE BEAD

· Make sure that the tire is deflated. If not, deflate it.

· Position the wheel against the rubber stops on the right side of the tire changer

· Position the bead breaker blade (R) against the tire bead at distance of about 1cm from the rim (fig.8)

· Press down the pedal (U) to activate the bead breaker and release it when the blade has reached the end of its travel or in any case when the bead is broken.

· Rotate the tire slightly and repeat the operation around the entire circumference of the rim and from both sides until the bead is completely detached from rim.

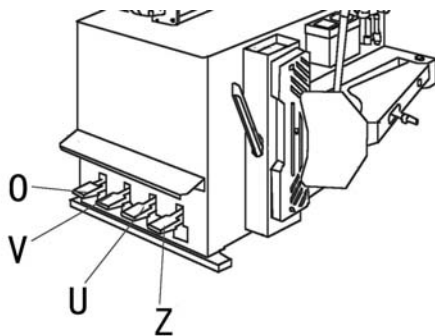


Fig.7

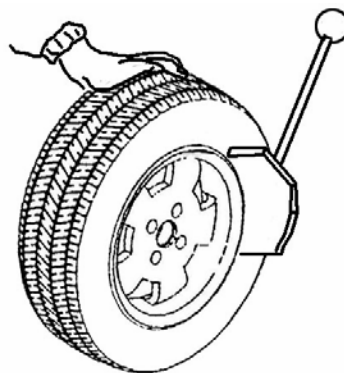


Fig.8

TIRE DEMOUNTING

Before any operation remove the old wheel balancing weights and check that the tire is deflated.

Spread the grease supplied (A) (or grease of similar type) onto the tire bead.

Position the jaws according to the reference mark on the turntable by pressing the pedal (V) down to its intermediate position.

Place the tire on the clamps and keeping the rim pressed down, press the pedal (V) as far as it will go.

Lower the mounting bar (M) until the mounting tool rests against the edge of the rim and lock it using the lever (K). This way the arm is locked in a vertical direction and the mounting head is moved to a distance of about 2mm from the rim.

With the lever (T) inserted between the bead and the front section of the mounting head (I) move the tire bead over the mounting head (Fig.9).

Note: In order to avoid damaging the inner tube, if there is one, it is advisable to carry out this operation with the valve about 10cm to the right of the mounting head.

Chains, bracelets, loose clothing or foreign objects in the vicinity of moving parts can represent a danger for the operator.

With the lever head in this position, rotate the turntable (Y) in clockwise direction by pressing down on pedal (Z) until the tire is completely separated from the wheel rim. Remove the inner tube if there is one and repeat the operation for the other bead.

TIRE MOUNTING

Before proceeding to mount the tire, check that the tire and the rim have the same diameter.

Lubricate the tire beads with the special grease in order to avoid damaging them and to facilitate the mounting operations.

Inspect the tire to check its condition.

During rim locking NEVER keep your hands under the tire. For a correct locking operation set the tire exactly in the middle of turntable.

Note: When you are working with rims of the same size, it is not necessary always to lock and unlock the mounting bar, just move the horizontal arm (N) sideways with the mounting arm (M) locked.

- Move the tire so that the bead passes below the front section of the mounting head had is brought up against the edge of the rear section of the mounting head itself.
- Keep the tire bead pursed down into the wheel rim channel with your hands. Press down the pedal (Z) to rotate the turntable clockwise (Fig.10). Continue until you have covered the entire circumference of the wheel rim(Fig.11).
- Insert the inner tube (if there is one).
- Repeat the same operations to mount the other side of the tire.

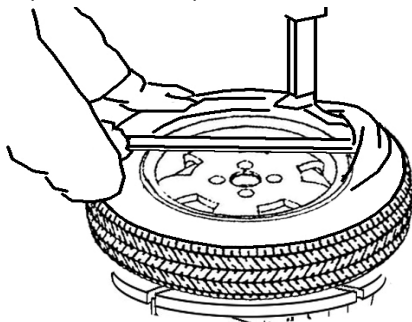


Fig.9

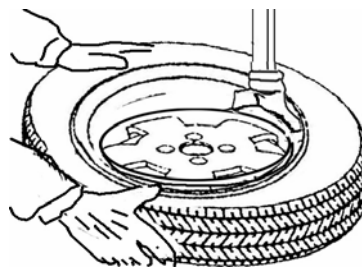



Fig.10

INFLATING

- The greatest attention is called for when inflating the tires.
- Keep strictly to the following instructions

A burst tire can cause serious injury or even death of the operator.



- Check carefully that the wheel rim and the tire are of the same size.
- Check the state of wear of the tire and that it has no defects before beginning the inflation stage.
- Inflate the tire with brief jets of air, checking the pressure frequently.

· All our tire changers are automatically limited to a maximum inflating pressure of 3.5 bar (51 psi) in any case never exceed the pressure recommended by the manufacturer.

· Keep your hands and body as far away as possible from the tire.

INFLATION TIRE

In the standard version our tire changers are supplied with an airline gauge. To inflate a tire proceed as follows:
 Connect the airline gauge fitting to the tire valve.
 Press the airline gauge trigger so as to inflate the tire with brief jets of air.
 Take care NEVER to exceed the pressure indicated by the manufacturer

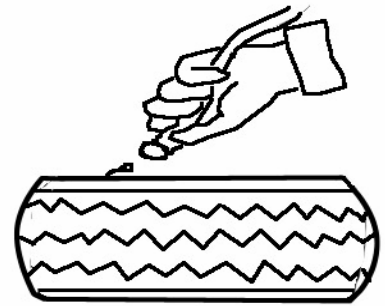


Fig.11

INFLATION WITH AIR BOX

Take down the air inflator from the inflation box.
 Press half down of the foot pedal G to inflate the tire, and constantly checking pressure until the required pressure has been reached.



Fig 12

NOTE: the foot pedal of G has two functions: press half down to inflate tire and press completely down for bead blasting

MAINTENANCE

GENERAL WARNINGS

Unauthorized personnel is not allowed to carry out maintenance work.

- Regular maintenance as described in the instructions to ensure correct operation and long lifetime of the tire changer.
- If maintenance is not carried out regularly, the operation and reliability of the machine may be compromised, thus placing the operator and anyone else in the vicinity at risk.

Before carrying out any maintenance work, disconnect the electric and pneumatic supplies. Moreover, it is necessary to break the bead load less 3-4 times in order to let the air in pressure go out of the circuit.

Defective parts must be replaced exclusively by expert personnel using the manufacturer's spare parts .

Clean the turntable once a wheel with diesel fuel so as to prevent the formation of dirt, and grease the clamp sliding guides.

Carry out the following operations at least once every 30 days:

Check the oil level in the lubricator tank. If necessary, fill up by unscrewing screw E. Only use SAE 30 oil

Note: After the first 20days of work, retighten the clamp tightening screws and screws on the turntable slides (Fig.16).

Check that the drive belt is tight as follow:

Remove the left side body panel of the tire changer by unscrewing the four fixing screws.

Tighten the drive belt by means of the special adjusting screw X on the motor support (fig.16).

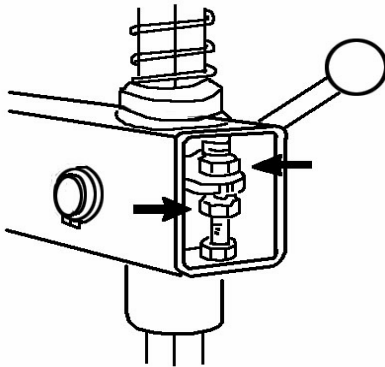


Fig.15

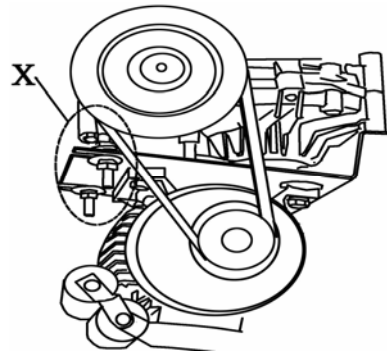


Fig.16

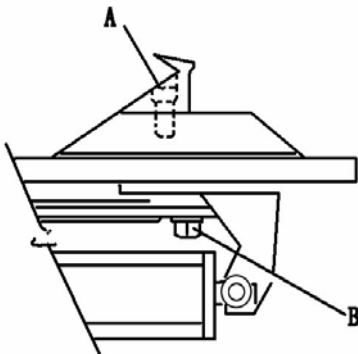


Fig.17

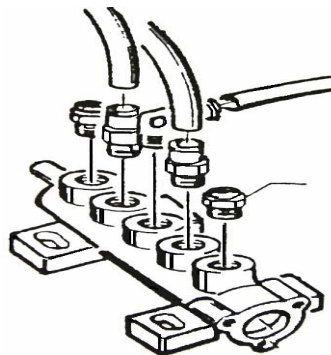


Fig.18

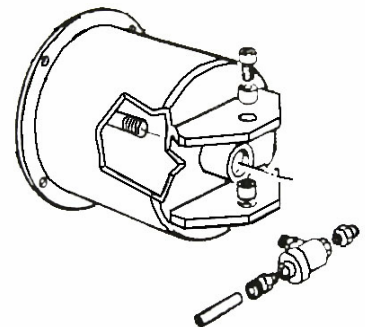


Fig.19

Note: If it is necessary to adjust the vertical arm locking plat because the tool doesn't lock or it doesn't rise from the rim of 2mm necessary for working, adjust nuts as shown in figure 17.

Note: For cleaning or replacing the silencer:

For opening/closing clamps (see fig.18) and proceed as follows:

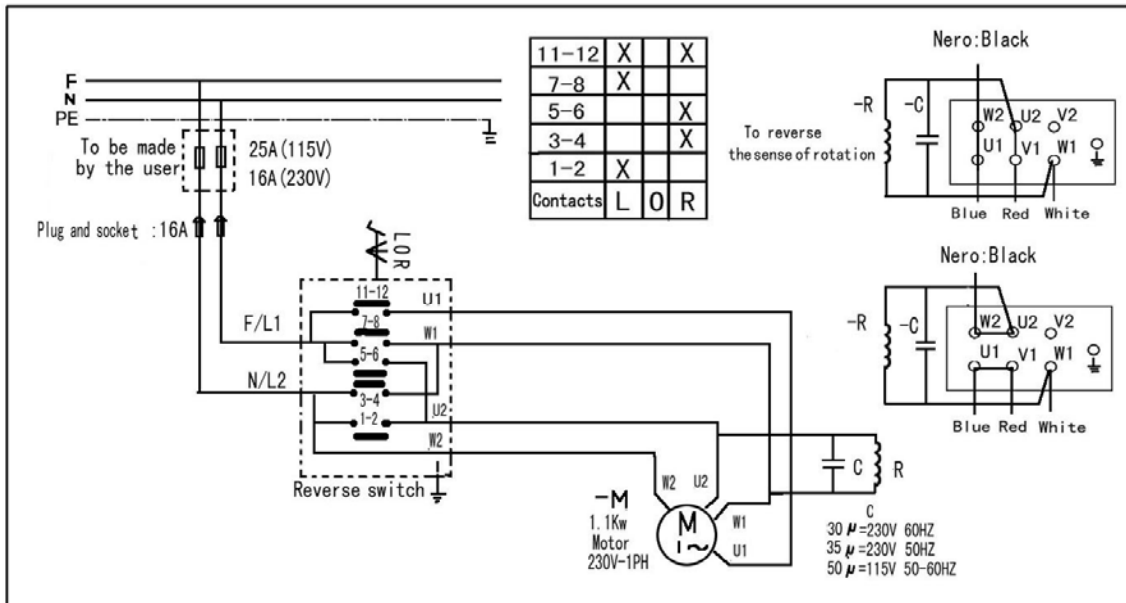
- 1) Remove the left side panel of the machine body by unscrewing the four fixing screws.
- 2) Unscrew the silencer put on the pedal system, on the clamp opening /closing pedal
- 3) Clean by a jet of compressed air or, if damaged, replace by referring to the spare parts catalogue.

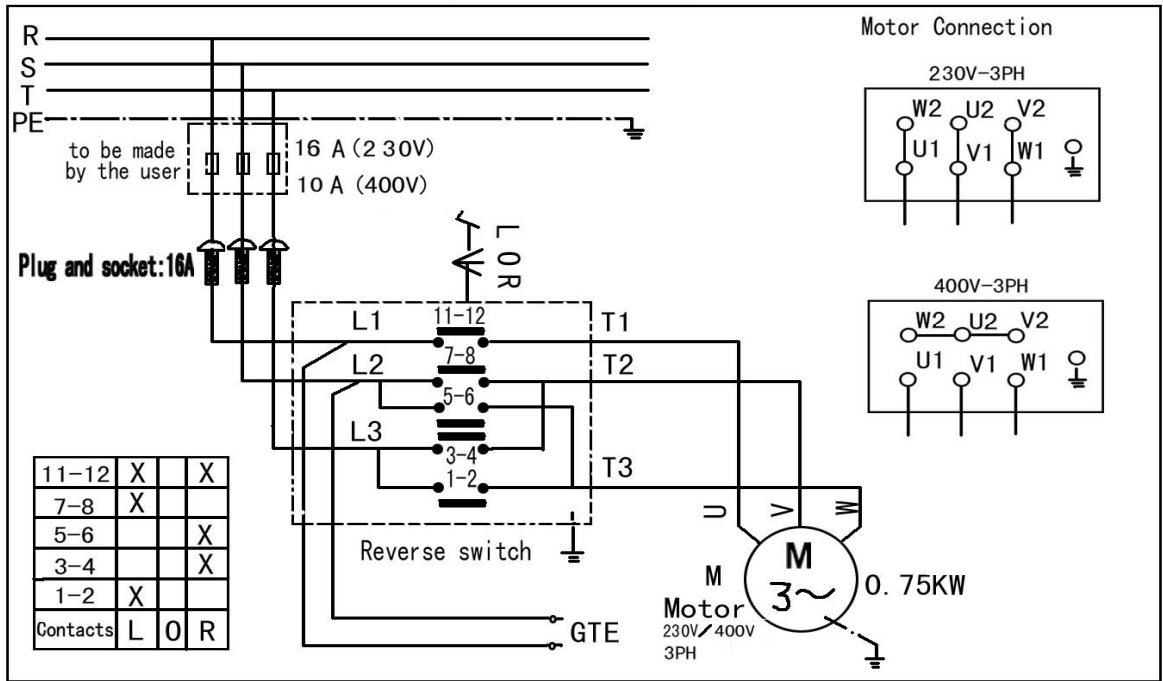
For cleaning or replacing the silencer of bead breaker (B), see fig.19 and proceed as shown on previous point 1 and 3.

TROUBLE SHOOTING

Turntable rotates only in one direction		
Reverse broken		Replace reverse
Turntable does not rotate		
Belt broken		Replace belt
Reverse broken		Replace reverse
		Check for loose wires in motor plug or the socket replace motor
Turntable locks while removing /mounting tire		
Belt loose		Adjust belt tension
Clamps slow to open/close		
Silencer clogged		Clean or replace silencer
Turntable does not lock the wheel rim correctly		
Clamps worn		Replace clamps
Turntable cylinder(s)defective		Replace cylinder gaskets
The tool touches the rim during the tyre removing/mounting operations		
Locking plate incorrectly adjusted or defective		Adjust or replace locking plate
Turntable locking screw losses		Tighten screw
Bead breaker pedal and clamp opening/closing pedal lock out of position		
Return spring broken		Replace spring
Bead breaking operation difficult		
Silencer clogged		Clean or replace silencer
Bead breaker cylinder gaskets broaden		Replace gaskets

ELECTR. AND PNEUM. DIAGRAMS





115/230V-1PH

230V/400V-3PH



Eagle Global Series Warranty

Eagle Equipment warrants to the original retail purchaser of an Eagle Global Tire Changer or Wheel Balancer that it will replace without charge any part found under normal use, in the United States or Canada, to be defective in materials or workmanship, **for a period of one (1) year from date of purchase**. Warranty covers parts only; purchaser is responsible for any and all labor requirements.

Exclusions

This warranty will not apply to any machine:

1. Which has not been operated or maintained according to specifications
2. Which has been abused, misused, altered or improperly maintained
3. Which has been improperly installed or assembled

Other limitations

This warranty does not cover:

1. Parts needed for normal maintenance
2. Wear parts, which include but are not limited to, speed-nuts, cones, mount heads, and inserts
3. On-site labor

Eagle Equipment reserves the right to make improvements and/or design changes to its equipment without any obligation to previously sold, assembled or fabricated equipment.

There is no other express warranty on the Eagle Global Series equipment and this warranty is exclusive of and in lieu of all other warranties, expressed or implied, including all warranties of merchantability and fitness for a particular purpose.

To the fullest extent allowed by law, Eagle Equipment shall not be liable for loss of use, inconvenience, lost time, commercial loss or other incidental or consequential damages.

Some States do not allow exclusion or limitation of consequential damages or how long an implied warranty lasts, so that the above limitations and exclusions may not apply. This warranty gives you specific legal rights and you may have other rights, which may vary from State to State.