Instruction Manual

FasTrack

Air Powered Racking Machine

Endura Corporation

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IMPORTANT SAFETY INFORMATION

SAFETY COMES FIRST

Endura racking machines incorporate metal "jaws" which are powered to compress tension finger racks during small parts racking and un-racking.

Special care must be taken by operators and other employees who may come into close proximity with the racking machine while it is running.

It is the sole responsibility of the purchaser to ensure that operators and all employees who may come into close proximity with the racking machine are properly instructed as to the potential hazards posed by the racking machine.

It is strongly recommended that purchasers paint safety lines on the floor or install a rail/barrier surrounding the racking machine as a warning to all employees of potential hazards. Warning lines/barrier should be spaced far enough from the machine to ensure that employees standing outside the safety lines can not touch the racking machine.

Operators MUST be instructed to immediately discontinue operation of the racking machine if any employee is within close proximity of the racking machine.

Staffing:

The racking machine and the safety system on the machine have been designed to function correctly with a single operator. Safety systems on the racking machine are not designed to protect multiple operators working on a racking machine.

As a result, purchaser MUST ensure that the machine is operated by no more than one operator at a time.

Guarding:

All guarding on Endura racking machines is essential to safe operation. Endura racking machines should never be operated with any guard(s) removed, open or improperly installed.

Crush Hazard (mechanical jaws):

Endura racking machine use significant pressure to compress tension finger racks. To ensure operator safety, a pair of activation safety switches must be pressed and held to start and complete the jaw closure cycle. If the switches are not pressed at the same time, the machine will not cycle. If both or either of the switches are released before the cycle is completed, the cycle will be interrupted and the jaws will immediately open. This is to ensure that both of the operator's hands are clear of the danger area while the machine is cycling.

The racking machine should NEVER be operated, under any circumstances, if the activation safety switches are not functioning correctly and reliably.

It is the sole responsibility of the purchaser to ensure that the activation safety switch circuit is functioning correctly each day prior to machine operation.

It is important that the safety circuit on the machine remain intact, functioning correctly and unmodified.

If any problems are detected with the safety circuit, the racking machine MUST be taken out of service immediately, with the compressed air supply removed, until the safety circuit function can be restored.

Any problems with the safety circuit should be reported to Endura Corporation immediately so the system can be properly repaired prior to bringing the machine back into production.

Service and Maintenance:

Before service or maintenance work is performed on the racking machine, the compressed air supply should be disconnected from the machine.

Customer Safety Enhancements:

Each racking machine installation is unique. Customers need to evaluate the safety features on the racking machine and evaluate how and where the machine will be operated in their plant. This evaluation should focus on safety issues. Additional safety measures which will improve overall protection for employees in this environment, over and above those safety features already incorporated in the machine, should be incorporated prior to operation of the racking machine.

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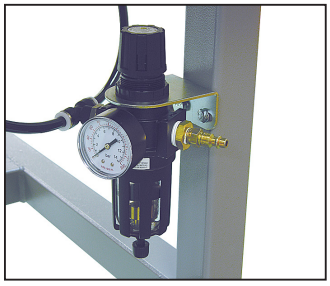
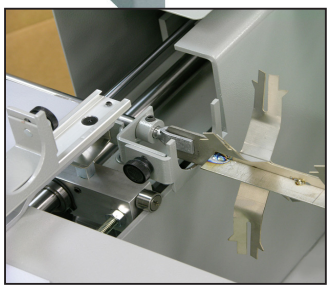
PREPERATION INSTRUCTIONS



(Figure 1)



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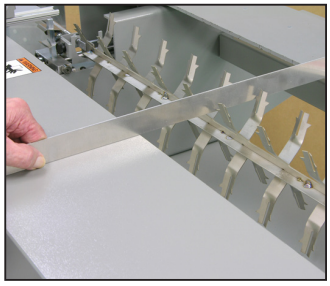

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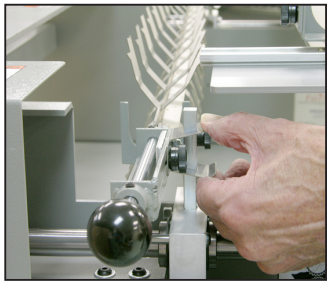

(Figure 4)

HOOK UP

- Hook up a clean, dry air supply to the pressure regulator. (Figure 1)
- Pressure regulator is set at 80 lbs.

PREPARATION PROCEDURE

- Insert rack in rack holders on each side of machine. (Figure 2)
- Be sure the rack pins are at the desired height in the jaws of the machine.
- Lay a straight edge across the two jaws to visualize the amount of pins that will be used to hold the parts. (Figure 3)
- To adjust the height of the rack pins, squeeze the stainless steel clip on the square post of the rack holders on each side of the machine, and move up or down. When the desired height is found, release the clip. (Figure 4)

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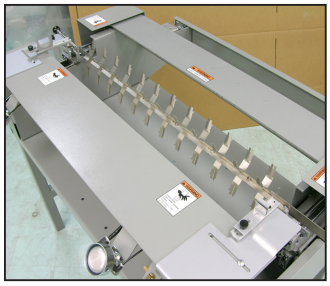
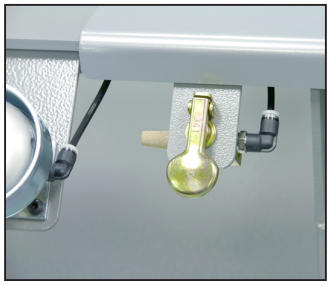
OPERATING PROCEDURE



(Figure 1)

(Figure 2)



(Figure 3)

(Figure 4)

OPERATING PROCEDURE

1. Insert rack into rack holders at each end of the machine. (Figure 1)
2. Depress both palm buttons simultaneously and hold. Rear jaw and rack moves forward. (Figure 2)
3. When pins are squeezed together, release the palm buttons.
4. Rack parts.
5. Engage release lever. (Figure 3)
6. Jaws open and rack returns to center.
7. Rotate rack using knob to next empty pin position. (Figure 4)
8. Repeat steps 2, 3, 4 & 5
9. Remove rack and insert a new empty rack.

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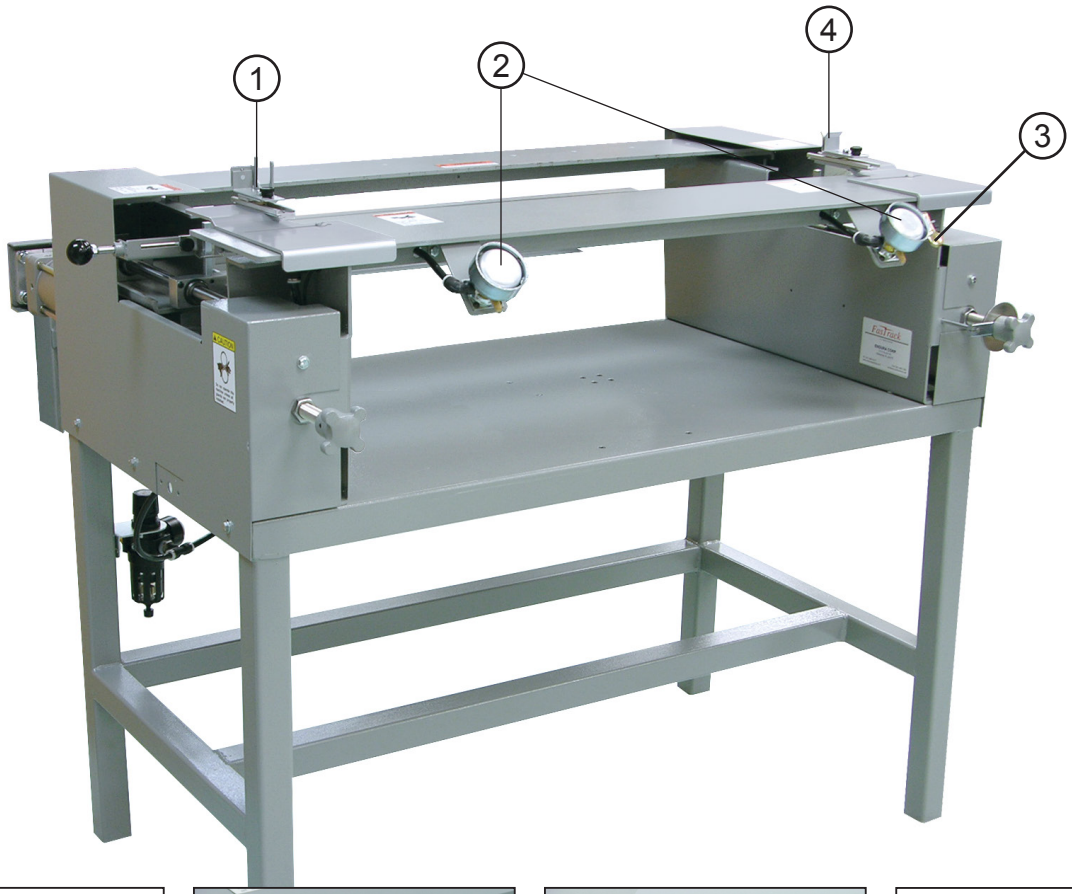
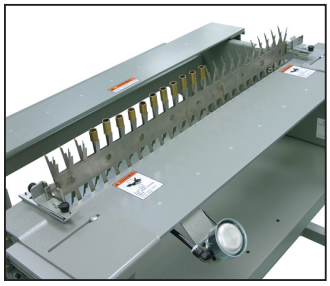
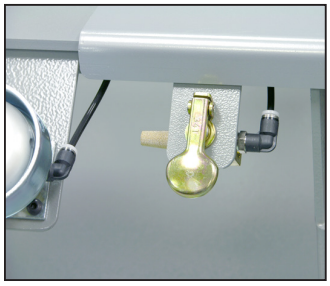
UN-RACKING PROCEDURE





(Figure 1)

(Figure 2)



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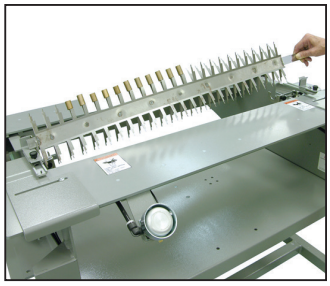

(Figure 4)

UNRACKING PROCEDURE

1. Place rack in holders on top of the fixed jaw of the machine. (Figure 1 & 4)
2. Depress both palm buttons. (Figure 2) When parts drop off, engage the release lever. (Figure 3)
3. Jaws open.
4. Slide rack to center of the two jaws. Raise right end of rack (Figure 4) and with rack resting in the cradle on the left side (Figure 1) of the fixed jaw, rotate rack to the next side of racked parts. Place right end of rack back in the holder on the fixed jaw, and repeat step 2.

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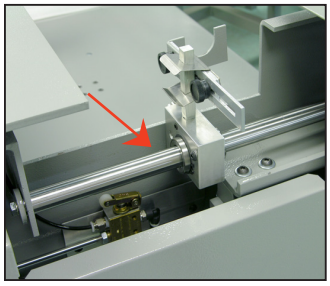
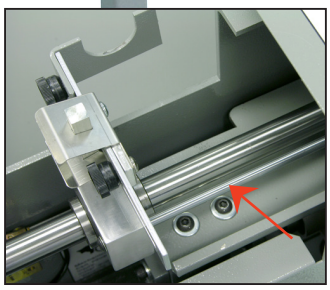
MAINTENANCE



(Figure 1)



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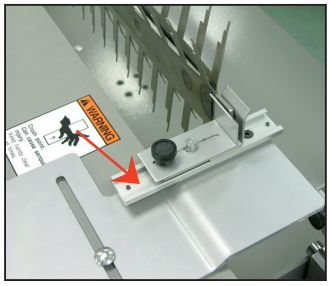

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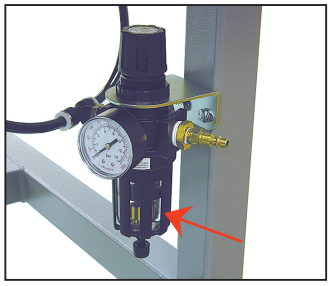

(Figure 4)

MAINTENANCE

- Periodically lubricate the 3/4" shaft and linear bearings. (Figure 1)
- DO NOT LUBRICATE THE SMALLER SHAFT (1/4"). THIS IS A FRICTION DRIVE, AND LUBRICATION WILL DEFEAT THE FUNCTION. (Figure 2)
- To increase the longevity of the 3/4" shafts, randomly rotate them every once in a while. (Figure 1)
- Lubricate the flat slide mechanism used for unracking when necessary. (Figure 3)
- Daily, visually check the glass bowl in the pressure regulator. If water is present, loosen the plug and let it drain out. (Figure 4)