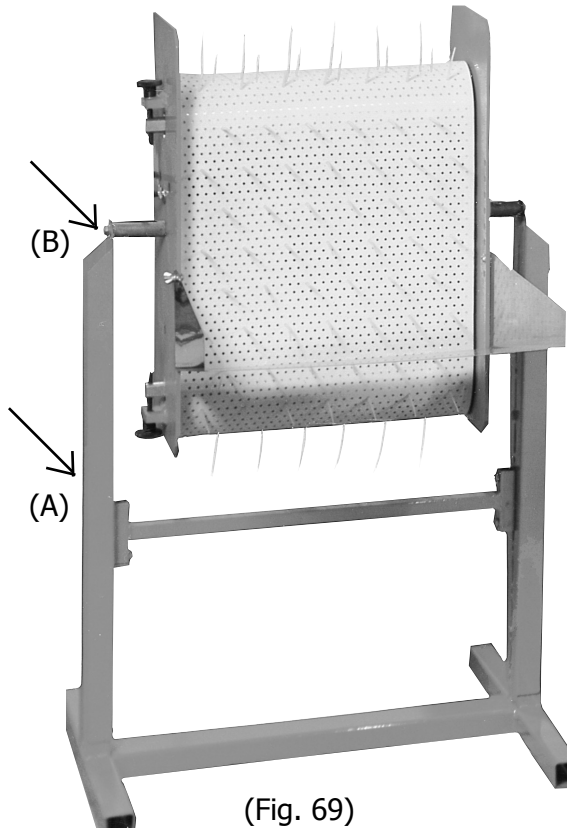


SECTION VII. SL-18 FINGER SEPARATORS

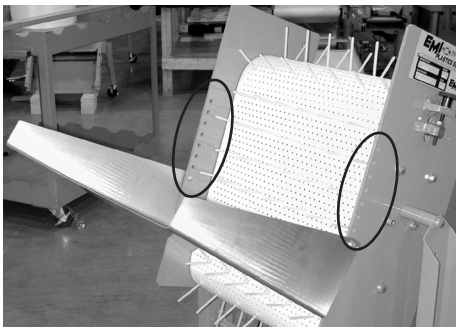
- Freestanding -

! WARNING:

Disconnect separator from power source before making any adjustments!



(Fig. 69)

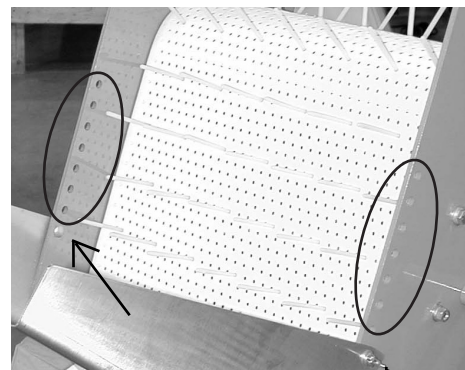


(Fig. 70)

NOTE: All separators should be connected to suitable earth ground wires. This is normally done through the plug connection. For this reason, 3-wire and 2-wire adapters are not recommended.

The SL-18 freestanding finger separator is supplied with its own stand so it can be used in a wide range of applications. The separator can be raised or lowered by adjusting the support arms on the stand. (Fig. 69-A) It can be rotated by loosening the bolts that attach the support spacers to the support arms. (Fig. 69-B) Simply loosen the bolt on both sides, pivot the separator to the desired angle, and retighten the bolts.

The infeed chute is adjustable by removing the bolts and positioning in a different set of holes, either up or down. (Fig. 70) After all adjustments have been made, tighten all bolts securely.



(Fig. 70) Enlarged

SECTION VII. SL-18 FINGER SEPARATORS

- Freestanding - (Con't)

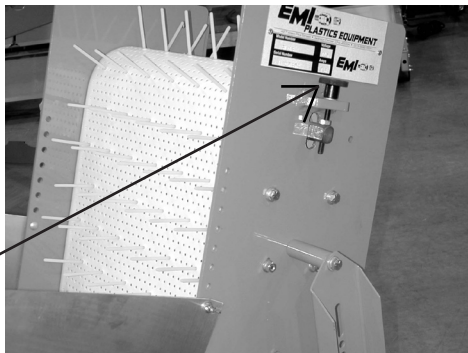


WARNING:

Disconnect separator from power source before making any adjustments!

(Fig. 71)

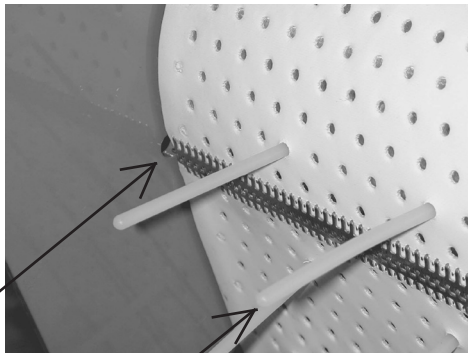
Adj. Knob



(Fig. 72)

Line up Lacing Here

Belt "Fingers"



Changing Finger Pattern on the Belt

To change the finger pattern on the belt, remove the belt by loosening the top adjusting knob on each side. (Fig. 71)

Line the lacing up with the hole in the frame by sliding the belt around until the lacing lines up with the hole. (Fig. 72) Pull the lacing pin out. Push the finger out the backside of the belt and move it to another location by pushing the finger back through the belt. After all fingers have been installed in the desired location, install the belt back onto the separator. (See next page)

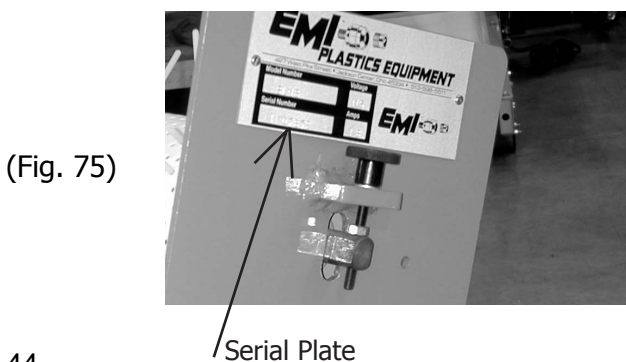
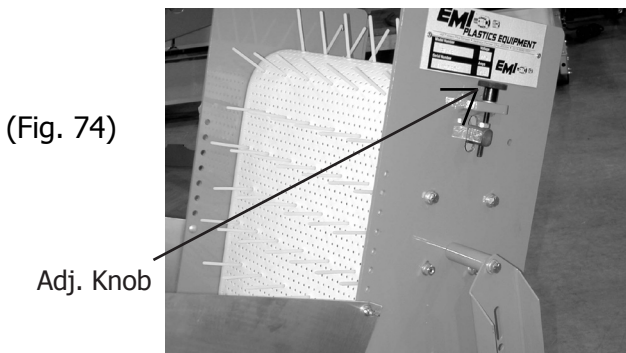
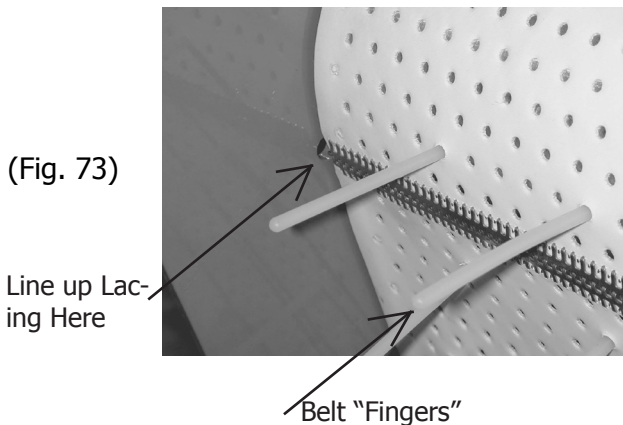
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SECTION VII. SL-18 FINGER SEPARATORS

- Freestanding - (Con't)

WARNING:

Disconnect separator from power source before making any adjustments!



To install belt back on separator, begin by lining lacing up at hole so lacing pin can be installed. (Fig. 73) Tighten top knob on both sides of separator to tighten belt. (Fig. 74) The belt should be fairly taut, as this helps keep the fingers rigid.

Measure from the top edge of the frame down to the belt on one side and set the other side to this measurement. This will be a good starting point for belt tracking. Run the separator for about 10 to 15 revolutions and check belt tracking. If the belt is running to one side, tighten that side or loosen the opposite side to let the belt come back over to center. Pay close attention to belt tension to determine which way to adjust the tracking. Too much tension on the belt can damage the belt, and cause excessive wear to bearings.

Now the separator is ready to be connected to a suitable power source (check necessary voltage on the Serial Plate, Fig. 75)

SECTION VII. SL-18 FINGER SEPARATORS

SL-18 FINGER SEPARATOR OPERATING & MAINTENANCE

General Information:

This section has been specifically prepared to familiarize personnel with the design, operation and maintenance of the SL-18 finger separating equipment. Careful consideration should be given to all the information herein to ensure proper performance of your separating equipment.

Personal Safety Precautions:

In order to protect you and others from injury, read and observe the instructions found in this manual, as well as the following safety precautions:

- A. Be sure only qualified personnel trained to work on this type of equipment perform any of the required assembly or maintenance.
- B. The equipment you have purchased should be treated as moving equipment. Should adjustments or preventative maintenance be required, turn the separator OFF and disconnect all electric power before performing these functions.
- C. Maintain all guards as they are initially installed.
- D. Any replacement parts used should come from EMI to ensure safety and prevent mechanical problems.
- E. Preventative maintenance helps keep equipment safer and operating longer.

Unpacking The Separator:

- A. Most separators arrive in your factory fully assembled. It is a matter of uncrating the separator and checking to make sure no damage occurred during shipment.
- B. Make sure the proper personnel is given and keeps the Instructions and Parts Manual for reference.

SECTION VII. SL-18 FINGER SEPARATORS

SL-18 FINGER SEPARATOR MAINTENANCE & TROUBLESHOOTING

IMPORTANT: Preventative Maintenance Performed Regularly Will Ensure Continued Operation of Your Conveyor



WARNING:

Disconnect separator from power source before making any adjustments!

Gearmotor:

The standard SL-18 finger separator comes equipped with a gear motor (motor and gear reducer made as one unit). It is lubricated at the factory while being assembled, and should need no lubrication as long as it is properly mounted with the breather hole UP. The standard AC gear motor supplied on the 40 FPM and the 60 FPM units have an on/off switch with thermal protection supplied. The DC gear motor supplied on the 100 FPM variable speed unit comes with a DC controller. All power supply is to be 115/60/1 voltage with suitable earth ground.

Bearings:

All bearings are sealed and assembled in the pulleys as they are being manufactured. The bearings will need no lubrication.

Chain and Sprockets:

A. Lubrication:

SAE 30 to 40 weight oil should be applied periodically with a brush or spout can. Volume and frequency should be sufficient to prevent discoloration of lubrication in chain joints.

B. Tension and Alignment:

Periodically check sprocket alignment and readjust if required. As the chain wears, chain tension will have to be readjusted. The chain sag in the center should be approximately 2% of the center distance. For a 12" center, the distance the chain should sag is about 1/4". The sag should be maintained to get optimum life out of the chain and the sprockets.