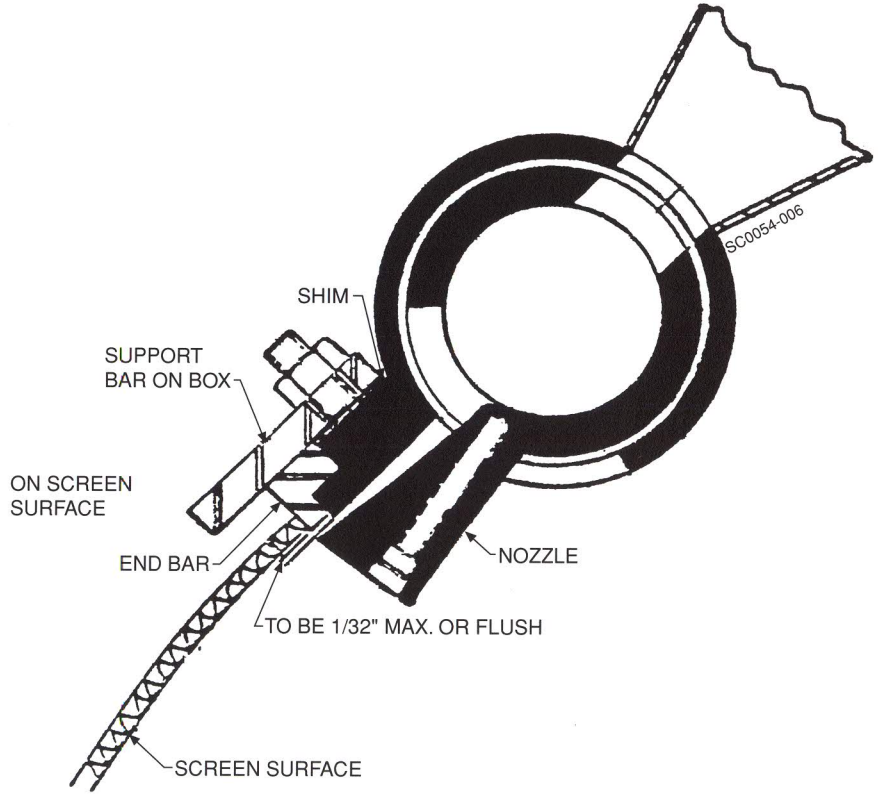
Installation

SCREEN SURFACES AND FEED NOZZLE ALIGNMENT

When the adjustable nozzle is bolted squarely to the mounting plate in the screen box, the nozzle will be tangential to the screen surface. The fixed spout plate of the nozzle must be flush or 1/32" maximum above the end bar of the screen surface. This fit up must be checked whenever the screen surface is replaced. Due to variations in end bar thickness, the corner cage might project into the nozzle flow stream. This can be corrected by adding shims as shown.



Adjustable Nozzle Alignment with Screen Surface

Operation

ADJUSTABLE NOZZLE (CONTINUED)
This action flushes out any nozzle blockage that may be present, without the necessity of shutting off the feed. This is accomplished by means of a double acting air cylinder actuated by manual push button operation from a control panel mounted on screen box which is standard on all units.

An optional automatic control panel is available which works in conjunction with the manual panel described above and operates as a timer initiated purge of each nozzle at preset regular intervals.

START-UP PROCEDURE

1. With the feed nozzle open, flush out the feed lines with clean water to remove all foreign debris.

2. Before admitting feed to the nozzle, a manual adjustment must be made to the nozzle opening. Refer to the feed nozzle assembly drawing for details of the various parts.

3. At the remote control box mounted on the screen housing, turn the switch for No. 1 nozzle to the CLOSED position. This will admit air to the back end of the double acting cylinder, driving the piston forward until it bottoms at the pivoted end. The air pressure regulator should be set at 40 psi.

4. Rotate the cylinder adjusting knob so that the nozzle spout opening is approximately 1/4". Do not lock the jam nut at this time.

5. Repeat this procedure on the other two nozzles for a triple screen machine. Keep the air pressure on all three cylinders. We do not recommend that the feed slice be operated dry for prolonged periods. Initial checking of the slice 10 or 12 times is quite satisfactory.

6. Admit feed by opening the manual shut-off valve in the feed line to the nozzle. Close down the nozzle gap by rotating the cylinder adjusting knob until the pressure gauge indicates approximately 15 psi. The gap should be 1/16" to 3/16" open at this pressure depending on the gpm feed flow.

7. Observe the pattern flow over the screen surface and the pulp separation. Closing down the nozzle gap will increase the feed pressure and the stream velocity. Lock the adjusting knob by means of the jam nut when desirable flow conditions are obtained. Repeat this operation on the other two nozzles for a triple screen machine.

8. Check the nozzle full open position by turning the switch to the OPEN position. This admits air to the pivot end of the cylinder, and exhausts the opposite end, driving the piston to bottom on the back end. The nozzle is now fully opened, allowing any blockage to be flushed out.

9. Set the air regulator to maintain enough pressure to keep the nozzle closed down in the operating position.

Maintenance

SCREEN SURFACE INSTALLATION

This will be the reverse of the removal sequence.

1. Clean the curved holding strips on the inside of the housing.

2. Clean the screen surface edges and the profile gasket. Check that the profile gaskets are properly seated over the screen side edges, and that the edges line up with the gasket cut-outs.

3. Lift the screen surface into position in the housing, top end bar first, and slide the top end bar under the nozzle.

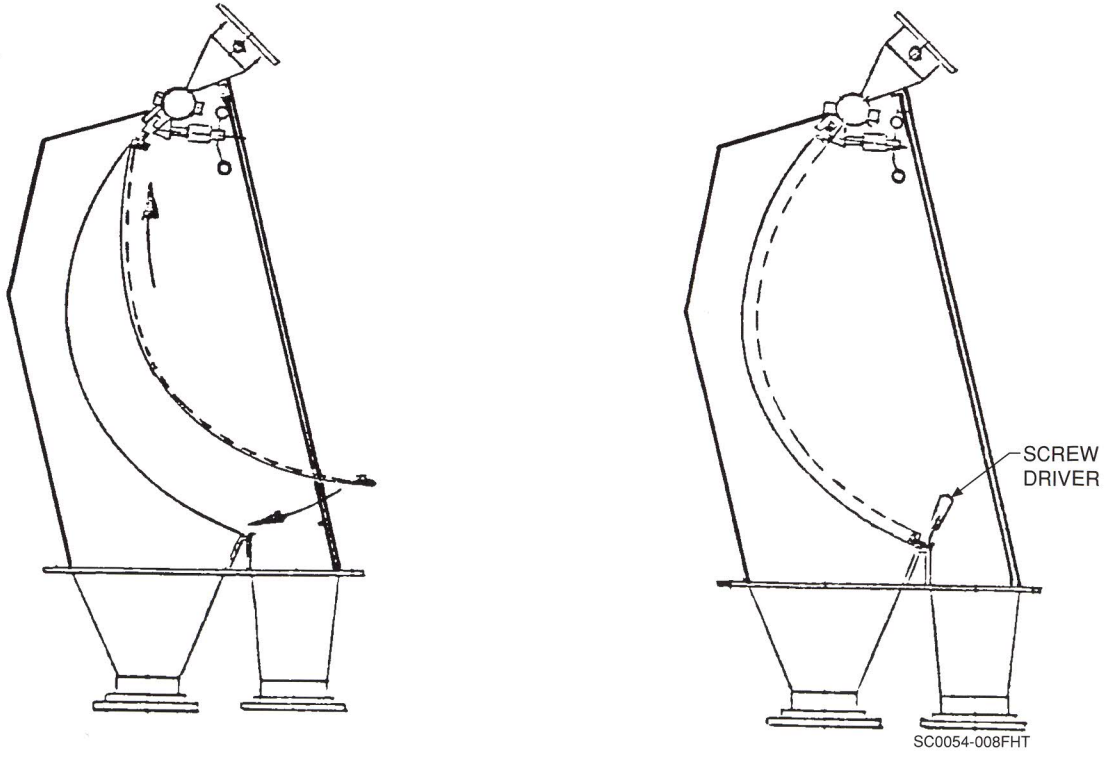
4. Swing the lower end in an arc, into the housing, allowing it to rest on the screen housing stop.

5. With the help of a screwdriver, pry the bottom end bar so that the upper end bar slides up solid underneath the nozzle cut-out. Position the lower end bar above the screen stop.

CAUTION

Do not hammer against the lower end bar. Hitting the end bar can result in distortion of the edges.

6. Check to make sure that the screen surface with edge profile gaskets lays properly on the holding strips in the housing. Check for interference of the screen cross bars with the holding strips.



Screen Surface Installation