SHIVVERS

CIRCULATATOR

TROUBLE SHOOTING

GUIDE

The most common problems and their solutions

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DANGER

TO PREVENT SERIOUS or FATAL INJURY

DO NOT enter bin until machine has been turned off at
Circu-Trol and main power DISCONNECTED.

DO NOT enter bin for ANY reason while machine is in operation. The open sweep auger can revolve
at a very hazardous rate of speed when little or no grain is present, such as when cleaning drying bin.
The open sweep could strike or entangle you!

DANGER - If, for any reason, the Center Vertical Auger (if present) should jam (due to mechanical
malfunction, foreign object or spoiled grain), the sweep auger can revolve at a very hazardous rate of
speed. The open sweep could strike or entangle you!

Always use EXTREME CAUTION when operating this machinery. Do not operate this unit unless all
belt shields are mounted in place and all electrical boxes are closed.
CIRCULATORY TERMINOLOGY

A. Recirculation Spreader
B. Center Vertical Auger
C. Pickup Finger Assembly
D. Basket/Gearbox Assembly
E. Tapered Sweep Auger
F. Drive Shaft
G. Horizontal Discharge Auger
H. Slide Gate Control Rod
I. Vertical Discharge Gearbox
J. Clutch Pin
K. Clutch Jaw
L. Discharge Auger Drive Sprocket
M. Drive Pulley Wheel
N. Vertical Discharge Auger
O. Vertical Discharge Bearing
P. Turnbuckle
Q. Sweep Auger Coupler
R. Sweep Auger Track
S. Telescoping Bin Brace
TROUBLE SHOOTING

1. PROBLEM: Motor will not run

   CAUSE(S)
   (A) Blown fuses
   (B) Power off
   (C) Tripped overload heaters
   (D) Tripped reset on motor
   (E) Low voltage
   (F) Grain Level Indicator "OFF"

   SOLUTIONS
   Check and replace
   Turn on
   Reset
   Reset
   Have electrician check
   Turn "ON"

2. PROBLEM: Sweep won’t travel around bin

   CAUSE(S)
   (A) Something in bin at track
   (B) Bad joint in track or rivet or screw pulled up
   (C) Bad spider wheel or bonnet bearing
   (D) Bad center section bearing
   (E) Interference between spider wheel and gearbox
   (F) Worn sweep auger
   (G) Uneven floor

   SOLUTIONS
   Remove grain and inspect
   Clean under track and re-rivet or re-lay as necessary
   Check and replace as necessary
   Check and replace as necessary
   Check bolts, trash build-up, etc.
   Replace
   Re-set if necessary

3. PROBLEM: Grain piling in center of bin

   CAUSE(S)
   (A) Grain Spreader not adjusted
   (B) Recirculating spreader worked up on shaft or wrong size fins
   (C) Pickup fingers in cone of Center Vertical too high
   (D) Bad sweep or damaged flippers on sweep

   SOLUTIONS
   Adjust per instructions
   Adjust spreader to approximately 1/16" to 3/16" clearance
   Change spreader fins
   Adjust clearance to 3/8" to 5/8" above wheel
   Replace sweep
4. **PROBLEM:** Unit breaks grain excessively

**CAUSE(S)**

(A) Pickup fingers in cone of Center Vertical too close to spider wheel

(B) Pickup fingers too close to side of cone

(C) Floor uneven — reducing clearance between fitting and floor

**SOLUTIONS**

Adjust clearance to 3/8” to 5/8”

Adjust clearance to 1/2” to 1” from side

Re-set floor as necessary

5. **PROBLEM:** Auger shakes or hits tubing

**CAUSE(S)**

(A) Improper installation — auger not straight

(B) Shipping or handling damage

(C) Fitting pulled away from shaft — especially at splices in fitting

(D) Bad auger — bent or crooked

(E) Bad bearing in gearbox or in head section

**SOLUTIONS**

Check straightness — reset as necessary

Notify factory — Return

Trim O.D. of fitting and tack weld to shaft if necessary

Notify factory and return flite assembly

Check and replace as necessary

6. **PROBLEM:** Center Vertical shakes

**CAUSE(S)**

(A) Center Vertical not perpendicular to floor

(B) Gearbox not leveled properly

(C) No flex in coupling on pickup fingers

(D) Bad bearing at top of Center Vertical

(E) Bad auger assembly

(F) Bearing bad in gearbox sets vibration that shows in Center Vertical

**SOLUTIONS**

Adjust chains to hold auger

Adjust to run cross shaft parallel to floor

Remove and clean

Replace

Replace

Repair or replace gearbox

7. **PROBLEM:** Unit won’t start under grain

**CAUSE(S)**

(A) Wet grain

(B) Unpolished augers

(C) Bow in sweep from weight of grain

(D) Bad spider, bonnet or center section bearing

(E) Grain left in augers

(F) Pickup fingers too low, hitting spider wheel

**SOLUTIONS**

Dry as needed

Remove some grain and run to polish augers

Turn on sweep as unit is filling

Replace as necessary

Work augers by hand to remove packed grain — always empty augers, including Center Vertical

Adjust clearance to 3/8” to 5/8” above spider wheel