

## CONVEYORS, TENDERS, SANDKINGS TROUBLESHOOTING GUIDE

Unit Type	Problem	Possible Cause	Possible Remedy
General Conveyor	Conveyor belt Fraying	Belt not aligned	Align and adjust tension on belt
	Conveyor belt doesn't turn or is slipping	Hopper flashing may be stuck to the belt, because it is running dry and heating up heating up heating up	Turn off unit. Manually peel flashing up and off hopper. Then run dry product through to create barrier between flashing and belt
		Belt loose	Tighten and align
		Conveyor belt loose because it has stretched	Shorten belt
		Belt frozen to tube from operating in high humidity conditions in extreme cold	Remove conveyor from area of high humidity and continue to run empty so the belt dries prior to freezing
		Drive belt loose	Tighten drive belt
		No power	Start engine, increase speed to maximum RPM
		Electric/Gas system - Drive roller is slipping	Replace V-belt
		Hydraulic system - valve, pump or motor could be malfunctioning	Check and adjust pressure set screw on valve. Test flow from pump. Check for oil leaks under motor. Replace what is needed.
		Seized bearing	Check all bearings, Replace any that are rough or seized
		Belt/roller is jammed	Check for sticks, stones, other objects jammed in belt drive area and remove.
		Hydraulic pump may be damaged	Check hydraulic pump. Replace if necessary
		Hydraulic pressure may be low, check gauge. It should be in 2000lbs range	Check hydraulic pump. Replace if necessary
		Hydraulic motor on drive roller may be damaged	Hydraulic motor may need to be replaced
		Product leakage	Product may be getting under the belt at the hopper, traveling up inside the belt and leaking off the end of it

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Unit Type	Problem	Possible Cause	Possible Remedy
General Conveyor	Low conveying capacity	Conveyor belt slipping	Tighten and align
		Drive roller worn out or is slipping	Replace V-belt
		Roller lagging may be worn	Replace roller or have it relagged
Tube Conveyors	Low capacity	Conveyor Angle exceeds 30 degrees	Reposition with lower tube slope
1600 series	Belt is slow, belt won't turn, low capacity	Conveyor belt not pinched enough	Inside drive box there is a drive roller and pinch roller. Be sure the belt is snug between both rollers.
1600 series with Electric Drive	Low capacity	V-belts are loose	Tighten belts or replace
		Belt not tight enough	Tighten conveyor belt
		Roller lagging may be worn	Replace roller or have it relagged
Tube Conveyor with paddle Belt	Low capacity	Conveyor angle exceeds 45 degrees	Reposition with lower tube slope
Tube Conveyor with Mover Kit	Belt is slowing down	Problem with 2 stage pump	Check flow of the pumps. Replacement of entire pump may be needed
	The engine bogs down	not enough power	Open the gate to unload more product. This allows the governor to torque and engage.
	Conveyor belt isn't turning	Set screw (relief valve) on Dtent on control valve on belt drive valve isn't set correctly	Sweet spot is to turn the set screw all the way in, then turn back 1-1/2 turns. Turning back/out increases volume of flow, turning in increases pressure.
	Conveyor doesn't drive	Drive wheels may not be engaged	Remove retainer clip and engaged drive mechanism
	Steering axle keeps sinking to the ground	Leak in check valve or cylinder	"Replace cartridge in check valve. May need to install a pilot check valve. Or, replace seals in cylinder"
10 inch Swing Out Mover Kit	Swing Out drives too fast/too slow	Hydraulic valve adjustment incorrectly set	"Twist set screw IN to slow down wheels Twist set screw OUT to speed up"
Open bed, low profile underbin conveyors (OBL)	Conveyor belt runs to one side throughout bed	Roller lagging may be worn	Replace roller or have it relagged
		Discharge end or tail end roller not square	Square roller
		Load of material on bed	Remove material
		Buildup of material on discharge roller and/or tail roller	Clean rollers
		Bad bearing	Find and replace bearing
		Material is not in centre of belt	Adjust chute and loading conditions to place material in centre of belt.
		Conveyor is not level, belt pulls to lower side	Level conveyor
		Loose mounting bolts between conveyor beds	Tighten bed sections

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Unit Type	Problem	Possible Cause	Possible Remedy
Open bed, low profile underbin conveyors (OBL)	Conveyor belt runs to one side on particular section	Belt not joined squarely	Square ends, re-splice
		Bowed belt	Apply more tension to belt or replace
		Bed roller not square	Square off bed rollers
		Bed not aligned	Align entire conveyor unit
Seed Tenders	Conveyor won't run	Failed centrifugal clutch	Replace clutch
	Conveyor swings the wrong way when using remote control	Cables are connected to the pivot motor in opposite polarity.	Disconnect cables. Reattach opposite to how they were
	Movements are jerky, when operating with the remote control	Low battery power	Recharge battery or replace
	Conveyor won't run	Failed centrifugal clutch	Replace clutch
	Conveyor swings the wrong way when using remote control	Cables are connected to the pivot motor in opposite polarity.	Disconnect cables. Then reattach opposite to how they were. Refer to page 3.8, Figure 31
	Movements are jerky, when operating with the remote control	Low battery power	Recharge battery or replace
Commercial Seed Tenders (CST)	Remote Control not functioning	Batteries died during storage, replaced them but still doesn't work.	Ensure batteries are good Need to synchronize Remote Control to Receiver
	2014 model: charging battery will short remote control electrical system	Boosting current will short electrical	"If boosting to start engine, remove fuse from receiver box If recharging battery, disconnect from CST"
Hydraulic system	No hydraulic flow	Hydraulic valve closed or plugged	Open hydraulic valve Clean or replace hydraulic valve
		Hydraulic pump may be damaged	Check hydraulic pump. Replace if necessary
		Hydraulic pressure may be low, check gauge. It should be in 2000lbs range	Check hydraulic pump. Replace if necessary
	Conveyor Belt doesn't turn	Hydraulic motor on drive roller may be damaged	Hydraulic motor may need to be replaced
Gas engine	Engine won't start	Low battery	Recharge or replace
		No fuel	Refuel
		Cold engine	Open choke
		Air filter dirty	Clean or replace the air filter

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Engine or motor	Engine labouring	Belt is sticky on the back side, because of oily product or wet/snowy conditions	Clean the belt
		Hopper flashing too tight	Adjust to loosen the flashing
Sandking	Engine won't start	Engine Kill Switch may be engaged	Disengage Engine Kill Switch connected to cable on side of Unit Disengage the Engine Kill Switch next to Battery Lock-Out, reset Air Shut-Off Valve
		Hydraulic valves under engine, beneath frame may not be configured correctly	See Hydraulic Auxiliary Pump Configuration section of manual
	Not enough Hydraulic pressure from large pump	Incorrect adjustments to the setscrews	Call Convey-All's Service Dept
Sandking - Electric Over Hydraulic	Conveyor won't run	Conveyor Kill Switch may be engaged	Disengage the Conveyor Kill Switch
Sandking - Electric Over Hydraulic (Halliburton)	Engine won't start	Roda Deaco auto shut-off valve may be engaged	Disengage the valve