Troubleshooting guide for 268 range of vibratory conveyor controllers

Problem	Possible Cause (s)	Possible Remedy (s)	Procedure
Feeder does not vibrate (assumes controller is powered up)	• Amplitude is set to zero • Incorrect frequency setting • accelerometer fault (ACC error shown on display) • no call signal if applicable (terminals 5/6)	• Increase amplitude by pressing [P] key twice in menu C000 and using arrow keys • Carry out resonant frequency search • ACC fault -clear error code (C009) • check remote call signals are calling (weigher relay /level probe/plc)	Resonant frequency search (ensure accelerometer is connected) • Ensure feeder tray is empty • Switch feeder on • Select code C008 • Cycle thro using [P] key plus using arrow keys, set up as follows • A=100 • P=10 (this is a guide only on large feeders this may need to be more) • F =21 (unless this is already known) • ACC=1 • AFC =1 • When AFS is displayed press up arrow -frequency search will commence • Display will fluctuate as it is now testing all frequencys • When frequency is found display will stabalize • Using parameter P adjust until feeder amplitude is as required or maximum recommended shown on label
Feeder will not settle at resonance in AFS	• feedback signal too weak	• check sensor cable / connections • adjust parameter [P] increase and retry	
Feeder hammers or makes contact wth magnet when started	• Coil air gap is small • set point to high	• Increase magnet gap until hammering stops on start up (assumes P is not to high) • Reduce parameter P	• Reduce P via control code C008 • Reduce PA via control code C008 (soft stop/start only)
Coil gets hot	• air gap to large • Frequency incorrect • coil not powerful enough • feeder overloaded (product issues)	• reduce magnet gap • adjust frequency • Carry out resonant frequency search	
OFF is displayed on controller display (feeder does not run)	• no enable signal	• provide enable signal	• if no enable signal is used then ensure that there is a link across terminals 5/6
feeder hunts (unstable amplitude)	• Incorrect frequency setting	• adjust frequency • Carry out resonant frequency search	
Low amplitude (when in regulation mode) (ACC=1)	• P or A set Incorrecty	• adjust until correct amplitude achieved	
blank display on controller	• no power • fuse blown • failed controller	• check supply • replace fuse (ensure correct type) • replace controller	

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no access to display codes other than C002	• engineer lockouts in place	• request engineer to review access	
ERROR - OL	• output power too high	• coil power is too high • frequency is set too low • coil air gap is too large • short curcuit	• use controller with higher current rating • increase frequency • reduce air gap • check wiring and coil
ERROR -OC	• current too high	• coil fault • short curcuit on output	• check wiring and coil
ERROR -PEA	• Peak current	• selected frequency is set too low • selected amplitude too high	• increase frequency • decrease amplitude
ERROR -OU	• over voltage in DC link	• supply voltage too high • back EMF from drive coil (possibly at low frequencies)	• check mains voltage • ensure correct controller is used • ensure controller is set up to use sensor (C008 ACC=1) • check cable and wiring • test sensor
ERROR - ACC	• sensor fault	• defective sensor • wrongly wired • cable damage	