HENNIG VARIABLE SPEED CONVEYOR OPERATING INSTRUCTIONS
# Table of Contents

THINGS TO KNOW ABOUT THIS VFD .......................................................... 3  
INITIAL STARTUP INSTRUCTIONS .......................................................... 4  
OPERATING SCREEN WHEN POWER IS ON ......................................... 5  
STOPPING THE CONVEYOR – IMMEDIATE .......................................... 6  
CLEARING AN IMMEDIATE STOP ......................................................... 7  
CHANGING THE MOTOR DIRECTION ................................................... 8  
CONTROLLING THE CONVEYOR WITH M-CODES ............................... 9  
COMMON FAULTS ................................................................................ 10  
TROUBLESHOOTING ........................................................................... 12  

HENNIG VARIABLE SPEED INSTRUCTIONS 2
Things to know about your VFD

• When power is first applied to the VFD it requires four seconds for the startup sequence before becoming functional.

• On initial power up or when the conveyor stop has been activated the VFD is in fault status until the fault has been cleared by pressing the Red Soft Stop key.

• Phasing of the input power does not effect the phasing of the VFD’s output power.
STARTUP CYCLE OF VFD REQUIRES 4 SECONDS WHEN POWER IS FIRST APPLIED

CLEARING STARTUP FAULT

“E-TRIP” IS DISPLAYED WHEN VFD HAS COMPLETED THE POWER UP CYCLE AND THE CONVEYOR STOP BUTTON IS DEPRESSED.

TO CLEAR THE STARTUP FAULT PRESS THE “SOFT STOP” BUTTON

CONVEYOR READY FOR OPERATION

CONVEYOR IS READY TO RUN WHEN “STOP” IS DISPLAYED
RUNNING THE CONVEYOR IN MANUAL MODE

CONVEYOR MODE SELECT SWITCH SET TO “STOP” POSITION

TURN THE MODE SELECT SWITCH TO “MAN FWD”

ROTATE THE CONVEYOR MODE SELECT SWITCH CCW TO “STOP” POSITION

STOPPING THE CONVEYOR IN MANUAL MODE

SPEED ADJUST DIAL

SPEED WILL BE DISPLAYED IN HERTZ. THE RANGE IS FROM 10 TO 90 HERTZ (17% TO 150% OF THE MOTOR RATING)

POSITION SPEED ADJUST DIAL

SPEED WILL BE DISPLAYED IN HERTZ. THE RANGE IS FROM 10 TO 90 HERTZ (17% TO 150% OF THE MOTOR RATING)

POSITION

SPEED WILL BE DISPLAYED IN HERTZ. THE RANGE IS FROM 10 TO 90 HERTZ (17% TO 150% OF THE MOTOR RATING)

POSITION

SPEED WILL BE DISPLAYED IN HERTZ. THE RANGE IS FROM 10 TO 90 HERTZ (17% TO 150% OF THE MOTOR RATING)

POSITION

SPEED WILL BE DISPLAYED IN HERTZ. THE RANGE IS FROM 10 TO 90 HERTZ (17% TO 150% OF THE MOTOR RATING)

POSITION
STOPPING THE CONVEYOR – IMMEDIATE

PRESS THE “CONVEYOR STOP” BUTTON FOR IMMEDIATE STOP

STOP DISPLAY

“E-TRIP” WILL APPEAR ON THE DISPLAY
RELEASE THE STOP BUTTON

TWIST THE “CONVEYOR STOP” BUTTON TO RELEASE

RE-STARTING THE CONVEYOR

PRESS THE SOFT “STOP” BUTTON. THE DRIVE WILL RESET AND “STOP” WILL BE DISPLAYED.

THE CONVEYOR IS NOW READY TO RUN.
RUNNING THE CONVEYOR IN REVERSE

TURN THE MODE SELECT SWITCH TO THE “STOP” POSITION

PRESS THE “JOG-REV” BUTTON. THE CONVEYOR WILL RUN IN REVERSE AS LONG AS THE BUTTON IS PRESSED.
RUNNING THE CONVEYOR IN AUTO MODE

THIS FUNCTION IS ONLY AVAILABLE IF THE MACHINE HAS BEEN CONFIGURED TO RUN A CONVEYOR.

TURN THE CONVEYOR MODE SELECT SWITCH TO THE “AUTO FWD” POSITION

THE DISPLAY WILL INDICATE THE MOTOR SPEED.

CAUTION: ALL PERSONELL MUST STAY CLEAR OF THE CONVEYOR WHILE IN “AUTO” Mode AS IT WILL AUTOMATICALLY START AND STOP WITHOUT WARNING!
COMMON FAULTS

THE CONVEYOR IS JAMMED OR THE YELLOW “CONVEYOR STOP” BUTTON IS PRESSED.

ATTEMPT TO CLEAR THE FAULT

IF THE CONVEYOR IS JAMMED AND PRESSING THE “SOFT STOP” BUTTON CLEARS THE FAULT, RUN IN REVERSE AT THE HIGHEST SPEED FOR 60 SECONDS TO CLEAR CHIPS FROM INSIDE THE CONVEYOR.
IF PRESSING “SOFT STOP” DOES NOT CLEAR THE FAULT, CHECK THAT THE YELLOW “CONVEYOR STOP” BUTTON IS NOT PRESSED.

TWIST THE “CONVEYOR STOP” BUTTON TO RELEASE
TROUBLESHOOTING:
THE HENNIG VARIABLE SPEED DRIVE HAS NO USER SERVICABLE INTERNAL COMPONENTS OR WIRING. PARAMETERS ARE LOCKED TO PROTECT THE DRIVE UNIT AND MAINTAIN WARRANTY.

FAULT CODES

O-I = INSTANTANEOUS OVERCURRENT– CHECK MOTOR AND CABLE FOR SHORT CIRCUIT.
I.t.trp= MOTOR THERMAL OVERLOAD. CHECK CONVEYOR FOR JAM.
O-t = HEATSINK OVERTEMP. AMBIENT TEMPERATURE MAY BE TOO HIGH.
E-trip = STOP ENGAGED. POWERUP COMPLETE, OR OVERCURRENT. SEE PAGES 4 AND 10.
P-LOSS = INPUT PHASE LOSS. CHECK INCOMING POWER SUPPLY.
H O-I = OVERCURRENT DRIVE OUTPUT. CHECK MOTOR AND CABLE FOR SHORT CIRCUIT.
Th-Flt = REPLACE DRIVE.
dAtA-F = REPLACE DRIVE.
dAta-E = REPLACE DRIVE.
F-Ptc = REPLACE DRIVE
FAN-F = REPLACE DRIVE
O-hEAt = AMBIENT TEMPERATURE IS TOO HIGH.
Out-F = REPLACE DRIVE
Out-Ph = MOTOR PHASE MISSING. CHECK MOTOR

FOR SERVICE
CALL HENNIG, INC. (815) 636-9900