
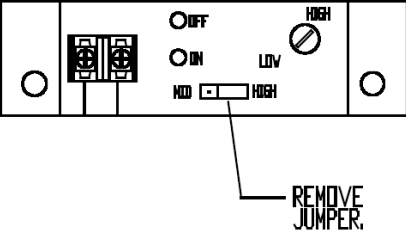
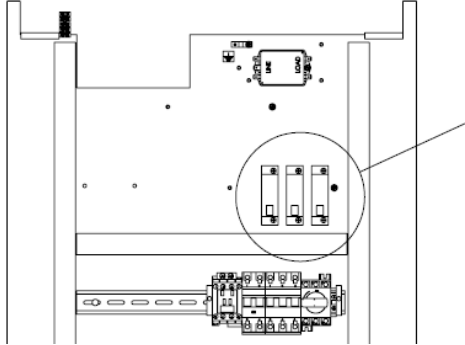
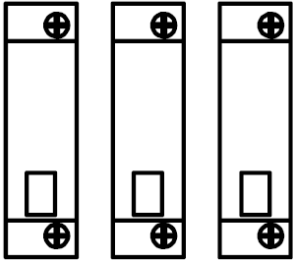



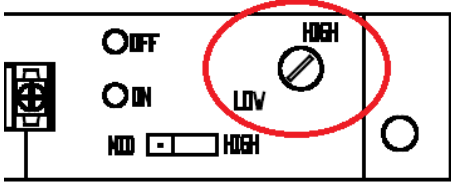

	Part Name / Description: 1002380 VFD Bypass Kit	Instruction #: JIC-KITP2-00003	Page 1 of 6
	Operation Instruction Title: VFD Bypass Kit with Active Fan Failure Alarm Function for Single Depth P2-24VAC Console	Revision Date: 05-05-2019	Revised By: B. Sprickerhoff
		Revision No. A	Approved By: V. Frail


NOTE: This kit is designed to replace the VFD current sensing for ECU fan failure with an alternate current sensing method. This kit is only applicable in units with the ECU VFDs removed. The machine controller must have software version 3.93 or later. Use Update424 or higher to update the software if necessary. Jamesway does not recommend removing the VFDs from the unit.

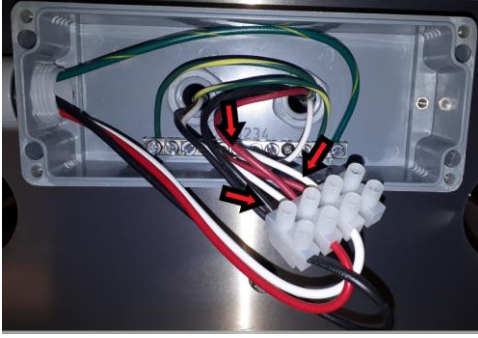


Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)															
JIC-KITP2-00003 Step 1 	Lock and tag out any machine connected to mains power at the main breaker.	Lock out tag out kit	Throughout: Safety Shoes Safety Glasses Additional equipment as required by the site															
JIC-KITP2-00003 Step 2	Open the kit and confirm the contents as follows: <table border="1" data-bbox="600 1016 1066 1285"> <thead> <tr> <th>Part #</th> <th>Qty</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1002383</td> <td>3</td> <td>Switch - Solid Core Current Switch</td> </tr> <tr> <td>P6419</td> <td>6</td> <td>Screw - #8 x 3/4" SS Phillips</td> </tr> <tr> <td>PB3361</td> <td>10 ft</td> <td>Wire - 20 GA Black</td> </tr> <tr> <td>PB5695</td> <td>0.25</td> <td>Terminal Strip</td> </tr> </tbody> </table>	Part #	Qty	Description	1002383	3	Switch - Solid Core Current Switch	P6419	6	Screw - #8 x 3/4" SS Phillips	PB3361	10 ft	Wire - 20 GA Black	PB5695	0.25	Terminal Strip		
Part #	Qty	Description																
1002383	3	Switch - Solid Core Current Switch																
P6419	6	Screw - #8 x 3/4" SS Phillips																
PB3361	10 ft	Wire - 20 GA Black																
PB5695	0.25	Terminal Strip																
JIC-KITP2-00003 Step 3	Ensure the VFDs have been removed from the unit.																	
JIC-KITP2-00003 Step 4 	Remove the jumper from each of the three switches.																	


Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)										
<p>JIC-KITP2-00003 Step 5</p> 	<p>Determine the location to install each Solid Core Current Switch (1002383) as shown.</p>												
<p>JIC-KITP2-00003 Step 6</p> 	<p>Place each Solid Core Current Switch in the desired location at a minimum of one inch apart from each other with the orientation of each switch as shown.</p> <p>Use two #8 x 3/4" screws (P6419) to mount and secure each Switch as shown.</p>	<p>Drill Phillips Bit</p>											
<p>JIC-KITP2-00003 Step 7</p> 	<p>Feed each wire that came off the VFD originating from CR1 through a separate hole in each Solid Core Current Switch as shown.</p> <p>Connect each wire that runs through a Switch to the terminal strip (PB5695) as shown below.</p>												
<p>JIC-KITP2-00003 Step 8</p> <table border="1" data-bbox="169 1541 494 1742"> <thead> <tr> <th>WIRE</th> <th>DESTINATION</th> </tr> </thead> <tbody> <tr> <td>BLACK</td> <td>TS1-1</td> </tr> <tr> <td>RED</td> <td>TS1-2</td> </tr> <tr> <td>WHITE</td> <td>TS1-3</td> </tr> <tr> <td>GREEN</td> <td>BOX 1 GROUND BAR</td> </tr> </tbody> </table>	WIRE	DESTINATION	BLACK	TS1-1	RED	TS1-2	WHITE	TS1-3	GREEN	BOX 1 GROUND BAR	<p>Insert the wires that were disconnected by the removal of the VFD1 and are connected to the ECU into the corresponding locations in the terminal strip as shown. The colors of the matching wire on either side of the terminal strip match.</p>		
WIRE	DESTINATION												
BLACK	TS1-1												
RED	TS1-2												
WHITE	TS1-3												
GREEN	BOX 1 GROUND BAR												
<p>JIC-KITP2-00003 Step 9</p>	<p>Open the cable tray cover and place the terminal strip inside.</p>												


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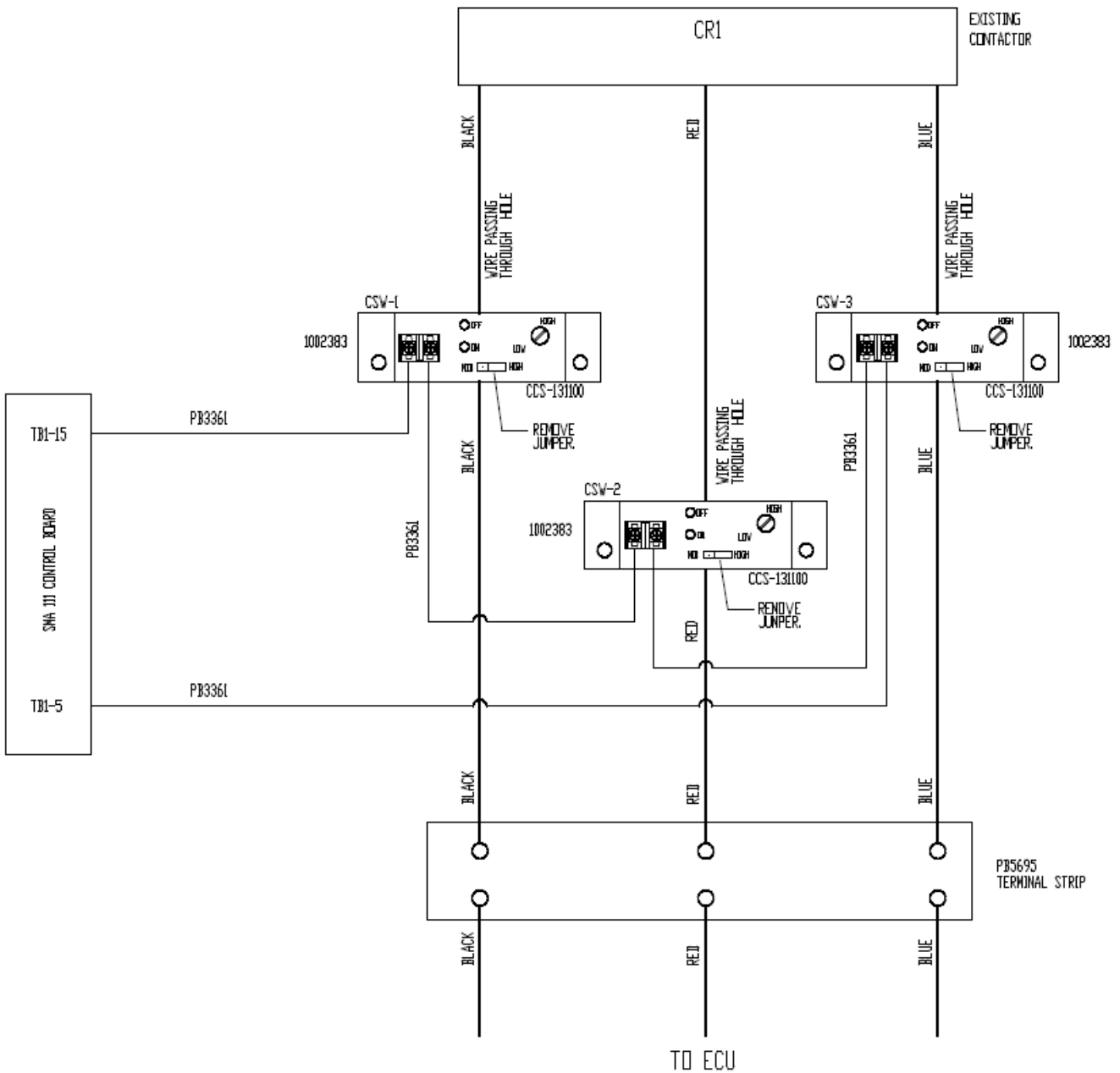
Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)															
JIC-KITP2-00003 Step 10 <table border="1"> <thead> <tr> <th>Wire</th> <th>From Termination 1</th> <th>To Termination 2</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>TB1-15</td> <td>CSW-Screw Terminal 1</td> </tr> <tr> <td>B</td> <td>CSW-1 Screw Terminal 2</td> <td>CSW-2 Screw Terminal 1</td> </tr> <tr> <td>C</td> <td>CSW-2 Screw Terminal 2</td> <td>CSW-3 Screw Terminal 1</td> </tr> <tr> <td>D</td> <td>CSW-3 Screw Terminal 2</td> <td>TB1-5</td> </tr> </tbody> </table>	Wire	From Termination 1	To Termination 2	A	TB1-15	CSW-Screw Terminal 1	B	CSW-1 Screw Terminal 2	CSW-2 Screw Terminal 1	C	CSW-2 Screw Terminal 2	CSW-3 Screw Terminal 1	D	CSW-3 Screw Terminal 2	TB1-5	<p>Cut the wire (PB3361) provided in the kit into four strips to allow the wiring configuration between each of the three switches and the control board as shown below.</p> <p>Wire the three switches in series with the control board as shown below.</p>	Electrical Screwdrivers Wire Cutter	
Wire	From Termination 1	To Termination 2																
A	TB1-15	CSW-Screw Terminal 1																
B	CSW-1 Screw Terminal 2	CSW-2 Screw Terminal 1																
C	CSW-2 Screw Terminal 2	CSW-3 Screw Terminal 1																
D	CSW-3 Screw Terminal 2	TB1-5																
JIC-KITP2-00003 Step 11 	<p>Remove the lock and tag on any machine connected to mains power at the main breaker.</p>	Lock out tag out kit																
JIC-KITP2-00003 Step 12 	<p>Turn the machine on. Turn the fans on.</p> <p>Turn the adjustable screw counter clockwise until the green LED light turns on.</p> <p>Turn the adjustable screw clockwise until the red LED light turns on. Once red light turns on, continue turning ¼ rotation clockwise.</p>	Flat-head Screwdriver																
The Following Steps Test the Alarm Function																		
JIC-KITP2-00003 Step 13 	<p>Lock and tag out any machine connected to mains power at the main breaker.</p>	Lock out tag out kit	Throughout: Safety Shoes Safety Glasses Additional equipment as required by the site															

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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
JIC-KITP2-00003 Step 14 	<p>Open the junction box within the ECU and disconnect one of the three wires connected to a single motor.</p> <p>See below for a detailed wiring configuration.</p>		
JIC-KITP2-00003 Step 15 	<p>Remove the lock and tag on any machine connected to mains power at the main breaker.</p>	Lock out tag out kit	
JIC-KITP2-00003 Step 16	<p>Turn on the machine and fans. Confirm that one fan motor is stopped, and the fan failure alarm sounds within one minute.</p> <p>Turn off the fans and shut the machine off.</p>		
JIC-KITP2-00003 Step 17 	<p>Lock and tag out any machine connected to mains power at the main breaker.</p>	Lock out tag out kit	
JIC-KITP2-00003 Step 18	<p>Open the junction box within the ECU and reconnect the disconnected wire.</p>		
JIC-KITP2-00003 Step 19	<p>Repeat steps 13 through 18 twice, each time removing a different wire connected to the same motor.</p>		

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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
JIC-KITP2-00003 Step 20 	Remove the lock and tag on any machine connected to mains power at the main breaker.	Lock out tag out kit	



For questions or concerns, please contact www.jamesway.com, +1 (800) 203 2299, or service@jamesway.com

UMBILICAL CABLE TO BOX 1

SOURCE	TERMINATION	WIRE	DESTINATION	TERMINATION
AB7811		BLACK	TS1-1	
AB7811		RED	TS1-2	
AB7811		WHITE	TS1-3	
AB7811		GREEN	BOX1 GROUND BAR	
AB7811		ORANGE		PB3678
AB7811		BLUE		PB3678
AB7811		WHITE/BLACK		PB3678

FAN1 AND FAN 2 TO BOX 1

SOURCE	TERMINATION	WIRE	DESTINATION	STRIP JACKET 6"
FAN1		BLACK	TS1-1	STRIP .3"
FAN1		RED	TS1-2	STRIP .3"
FAN1		WHITE	TS1-3	STRIP .3"
FAN1		GREEN	BOX1 GROUND BAR	STRIP .3"
FAN2		BLACK	TS1-1	STRIP .3"
FAN2		RED	TS1-3	STRIP .3"
FAN2		WHITE	TS1-2	STRIP .3"
FAN2		GREEN	BOX1 GROUND BAR	STRIP .3"

WIRES FROM BOX 1 TO BOX 2

SOURCE	START CONDITION	WIRE	DESTINATION	END CONDITION
TS1-1	STRIP .3"	BLACK P2797	TS2-1	STRIP .3"
TS1-2	STRIP .3"	RED P3340	TS2-2	STRIP .3"
TS1-3	STRIP .3"	WHITE P2798	TS2-3	STRIP .3"
BOX1 GROUND BAR	STRIP .3"	YELO/GREEN PB4232	BOX2 GROUND BAR	STRIP .3"

FAN3 AND FAN 4 TO BOX 2

SOURCE	TERMINATION	WIRE	DESTINATION	STRIP JACKET 6"
FAN3		BLACK	TS2-1	STRIP .3"
FAN3		RED	TS2-3	STRIP .3"
FAN3		WHITE	TS2-2	STRIP .3"
FAN3		GREEN	BOX2 GROUND BAR	STRIP .3"
FAN4		BLACK	TS2-1	STRIP .3"
FAN4		RED	TS2-2	STRIP .3"
FAN4		WHITE	TS2-3	STRIP .3"
FAN4		GREEN	BOX2 GROUND BAR	STRIP .3"

