



# Pressure Booster Startup Form

PROJECT NAME	
SERVICING COMPANY	
SERVICING TECHNICIAN	
JOB LOCATION	

TAG		VOLTAGE	
PB MODEL		PHASE	
GPM		DUPLEX, TRIPLEX, OR QUAD	
PSI		BOOSTER or TANK FILL	
MOTOR HP			

## SERVICES RENDERED:

## TECHNICAL REMARKS:

## WORK TO BE COMPLETED:

Startup is defined as one (1x) site visit by an authorized Wales Darby technician to set up the product(s) for operation. For more information regarding what the startup services are per product, see the Startup Report Forms at <https://walesdarby.com/startupforms/>. Wales Darby is not responsible for any services not listed on the applicable Startup Report Forms, including owner's training and commissioning. Should other services not listed on the Startup Report Forms be needed, please inquire with your salesperson.

Prior to Wales Darby Inc. scheduling a Startup, Customer MUST fill out the applicable Pre-Startup Checklists and return to Wales Darby. Pre-Start Up Checklists can be found at <https://walesdarby.com/checklists/>. Once Pre-Start Up Checklists are received by Wales Darby, please allow up to ten (10) business days for Startup scheduling.

Additional charges may apply for (1) additional visits if the product(s) are not ready for Startup when technician is onsite, (2) cancellations for Startup within 24 hours of the scheduled time, (3) expedited scheduling requiring Startup to be performed within three (3) business days of the request (4) work performed during the visit that is not included in the applicable Startup Report Forms, or (5) other site visits to perform work not covered under the scope of Startup.

Utilizing Startup does not preclude the Customer from following the products' IOM(s).

# Pressure Booster Startup Form

<b>STEPS</b>	<p><b>BEFORE TURNING ON MAIN DISCONNECT - MAKE CERTAIN VOLTAGE APPLIED TO THE INPUT OF THE DISCONNECT MATCHES THE DOOR TAG. CONTINUE ONLY IF CORRECT - WITH THE MAIN DISCONNECT STILL OFF!</b> Flip all internal miniature breaker levers up (on). Breaker status indicators will change from green to red.</p> <p style="text-align: center;"><b>ONLY AFTER COMPLETION OF THIS STEP MAY YOU PROCEED TO STEP 2</b></p>
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Steps 2-27

2	Measurement	L1/L2	L2/L3	L3/L1	460-480V SYSTEMS - VOLTAGE MUST BE UNDER 495VAC
	AVG SYSTEM VOLTAGE:				208-230V SYSTEMS - VOLTAGE MUST BE UNDER 254VAC
<b>IF ABOVE, CONTACT FACTORY - DO NOT PROCEED</b>					

3	CLOSE PANEL DOOR AND TURN ON MAIN DISCONNECT HANDLE - THIS WILL ENERGIZE THE PANEL. VERIFY TOUCH SCREEN (HMI) POWERS UP AND SHOWS COMMISSION SCREEN. ENTER PROPER COMMISSION CODE (CONTACT THE FACTORY IF YOU DO NOT KNOW IT) AND VERIFY MAIN SCREEN DISPLAYS.
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4	Check system for water and/or construction damage	OK	PROBLEM
5	Verify actual Suction Pressure at site to paperwork design.	OK	PROBLEM
6	Verify mech. discharge gauge and digital PV pressure equal (within 1 PSI)	OK	PROBLEM
7	Verify Low Suction Cut-Off Pressure operation and reset	OK	PROBLEM
8	Verify pumps show off and no VFD fault or errors indicate	OK	PROBLEM
9	Push factory setting button on bottom left and enter pass code	OK	PROBLEM

**HMI FACTORY SETTINGS - RECORD IF CHANGED FROM FACTORY SETTING - IF NOT, LEAVE BLANK**

STEP	PARAMETER	VALUE CHANGE
10	HIGH SYSTEM - PSI > SV	
11	PSI SET (SV)	
12	CALL ON PSI - PV < SV	
13	DIFF TEMP (WHISPERFLO)	
14	SENSOR FAIL HZ	
15	HIGH SYSTEM OFF DLY	
16	HIGH SYSTEM RESET	
17	PIPE BREAK PSI	
18	LOW SUCTION TIME DELAY	
19	MAX LEAD MINUTES	
20	MOTOR FLA	
21	LOW PRESSURE RESET DELAY	
22	PID MIN SPEED (ON PID SCREEN)	
23	FRICITION COMPENSATION (ON PID SCREEN) V28+	

**STARTING SYSTEM FOR FIRST TIME**

STEP	PROCEDURE
24	PUT PUMP 1 IN AUTO AND PUSH START BUTTON ON P1 SCREEN
25	PUT PUMP 2 IN AUTO AND PUSH START BUTTON ON P2 SCREEN (DUPLEX)
26	PUT PUMP 3 IN AUTO AND PUSH START BUTTON ON P3 SCREEN (TRIPLEX)
27	PUT PUMP 4 IN AUTO AND PUSH START BUTTON ON P4 SCREEN (QUAD)

*TANK FILL Check When Complete*

Tank fill controls confirmed installed	
On board safeties confirmed installed	
Redundant safeties confirmed installed	
System has been filled with water and there is a potential load on the system	
Overflow connection installed and piped to drain	
Remote panel wired and powered	
Floats installed properly and untangled	
Wires from remote panel to main control panel are inspected for damage	

*PRESSURE BOOSTER Check When Complete*

Pressure booster has been installed according to the manufacturer's IOM	
Fixtures are installed and operating	
BMS communication wiring complete	
The pressure booster has been checked for deficiencies and leaks	
Condition of all electric connections and harnesses have been checked	
Control panel enclosure has been cleared of dust and debris	
All domestic water piping is completed	
Gaskets properly installed on flange connections	
Control panel has been programmed to job-site conditions	
Internal control panel air filter has been inspected	
Internal fan has been inspected for proper function	
Neoprene pad has been inspected, if applicable	
Control settings are properly adjusted for optimal unit operation	
Operation of all on-board safeties are functioning correctly	
System has been filled with water and there is a load on the system	

Tech Name (Print)	Signature
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