



To be completed by STINGRAY Field Service Representative or Company Authorized Individual. This completed form must be returned to initiate Owner Warranty

Machine Serial No. _____ Model _____ Pump Size _____
 Customer _____
 Contact _____
 Address _____
 City _____ State _____ Zip _____
 Phone _____ Fax _____
 E-Mail _____

PRELIMINARY INSPECTION:

Inspect Parts Washer for shipping or installation damage. Note damages, if any

Is machine leveled properly so that when the door is open 45° the door does not move? [] Yes [] No
 Is machine properly anchored to floor? [] Yes [] No
 Are shims placed under the frame to support the machine? [] Yes [] No

Service and Connections:

Inputs:

Heat System Source: [] Natural Gas [] Propane [] Electric [] Steam (Fill out Applicable Section:

Natural Gas and Propane System

Gas Line

Diameter _____ in/mm (Note: Supply pipe size affects maximum burner firing rate)
 Material _____
 Approximate distance to next larger size line or fuel tank _____ ft/m
 Number & type of elbows _____
 Gas Pressure _____ water column inches (wci)/bar

Gas Flue Pipe

Material _____
 Diameter _____ in/mm
 Number & type of elbows _____
 Vertical length _____ ft/m
 Horizontal length _____ ft/m
 Is rain cap installed? [] Yes [] No
 Is flue vent above highest point of roofline? [] Yes [] No
 If no, explain _____



Make a sketch of the flue pipe run in the space to the right. >>>>

Gas Burner Electrical Connection:

Is burner connected per the operating manual? [] Yes [] No
 Is connection made via conduit provided? [] Yes [] No



Steam Heat System

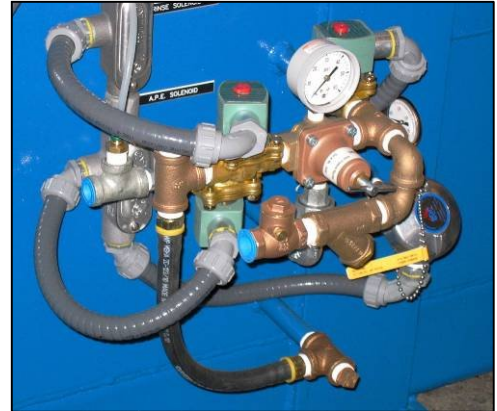
Steam Pressure _____ psi/bar
 Supply pipe Diameter _____ in/mm
 Pipe Material _____
 Is supply pipe insulated? [] Yes [] No
 Approximate distance to next larger size line _____ feet/m
 Is there a strainer in front of the steam valve? [] Yes [] No
 Is there a steam pressure gage near the supply line [] Yes [] No
 Does condensate return line drain via gravity [] Yes [] No
 Is condensate drain line lower than steam trap? [] Yes [] No

Water Supply:

Is water strainer inline with system [] Yes [] No
 Incoming Water pressure _____ psi/bar
 Is a shut off valve installed [] Yes [] No

Compressed Air Supply (If applicable)

Diameter _____ in/mm
 Material type _____
 Any quick disconnects [] Yes [] No
 Pressure _____ psi/bar
 Distance to next larger supply line _____ ft/m
 Is an inline filter installed? [] Yes [] No
 Is a regulator installed [] Yes [] No



Electrical

Tightness verified on ALL electrical connections? [] Yes [] No
 Feeder wire size of incoming supply _____
 Is washer electrically ground? [] Yes [] No To where/what? _____
 Is ground wire the same size as the supply feeder wires? [] Yes [] No
 Incoming 3 phase voltage _____
 Is a Master disconnect installed? [] Yes [] No
 Supply fuse or circuit breaker size: _____ amps
 Supply run length _____ feet/m
 Is supply properly installed in conduit and with sealed electrical connections to electrical panel? [] Yes [] No
 Does supply enter the top of the electrical panel? [] Yes [] No

Water Makeup

Supply pipe diameter _____ in/mm
 Line pressure _____ psi/bar
 Distance to next larger supply line _____ ft/m

Steam Exhaust

Does machine have a Hot Air Blow Off [] Yes [] No
 Stack Material _____
 Diameter _____ in/mm
 Number & type of elbows _____
 Vertical length _____ ft/m
 Horizontal length _____ ft/m
 Is a rain cap installed? [] Yes [] No
 ASE unit installed _____ ft from Parts Washer.
 ASE unit Mounted: Vertical _____ Horizontal _____
 Is ASE exhaust point above highest point of roofline [] Yes [] No
 If no, explain _____



If the Steam Exhaust Venturi is installed horizontal is the FAN mounted so that it is 45 from the vertical as shown in the manual? [] Yes [] No
 Is power supply to ASE unit in conduit? [] Yes [] No
 Have connections to the ASE unit been made per the operating manual? [] Yes [] No

STARTUP PROCEDURE

Read Safety Instructions and Warnings Section in STINGRAY Operating Manual Before Proceeding

Follow the detail instruction in the STINGRAY Operating Manual under Start-Up Procedure

Outline of Procedure:

- Lubricate machine if it is more than 6 months after shipment.
- Power-up
- Fill machine with water, verify operation of water management system.
- Check and verify operation of 7-day clock and other control settings.
- Measure control voltage: Transformer Secondary Voltage: _____
- Start heating system, record start time and initial water temperature.
 Start Time: _____ Water temperature: _____
- Gas Burner Start-up (if applicable)

To be performed by qualified gas burner/boiler technician

Measure and record incoming gas pressure (burner unfired) _____ w.c.i./bar
 Measure and record incoming gas pressure (burner fired) _____ w.c.i./bar
 Measure and record manifold gas pressure (burner fired) _____ w.c.i./bar
 Measure and record exhaust stack temperature with burner fired and water at high temperature _____ ° F/C.
 Measure and record exhaust emissions
 CO _____ ppm Oxygen _____ % CO₂ _____ % excess air _____.
 Test measurements taken by _____
 Company _____ - Phone # _____

- Bump start pumps to verify direction of rotation to arrow on pumps. Check rotation direction on each of the pumps and the sludge scraper if the machine is so equipped. Swap phases if required. Do all the pumps run in the correct direction? [] Yes [] No
- Check Pumps. Do pumps start, run, and stop smoothly with no vibrations? [] Yes [] No
- Start pumps and record voltage and amp readings between each power leg (phase to phase).

		Leg 1	Leg 2	Leg 3
Boost pump:	Voltage running	volts	volts	volts
	Amp Draw	amps	amps	amps
Main pump:	Voltage running	volts	volts	volts
	Amp Draw	amps	amps	amps

• **Cycle Test**

APE / Wash Delay Adjustment to prevent Water hammer (if applicable): Do not stand in front of Power Washer when performing this test. With washer at full operating temperature, after allowing ambient air to enter cabinet for at least 30 seconds, close the door and Start wash cycle. If water “blows” out of the front reservoir or under the door adjust APE or Wash Delay Timer per Operating Manual.

APE system (if applicable)

Air pressure (static) _____ psi/bar. Air pressure (operating) _____ psi/bar. Run time: _____ sec

APE is adjusted to prevent Water Hammer: [] Yes [] No



Operational/Safety Checks

Do pump/s and heat systems shut down when the float rod is pushed down? [] Yes [] No
 Wash cycle aborts when Door Close limit switch senses door not closed properly. [] Yes [] No
 Turntable drive system aligned with turntable: [] Yes [] No
 PBM operates smoothly, yellow flag on top of PBM shaft is moving properly: [] Yes [] No
 All operator controls function as expected & as designed: [] Yes [] No
 Rinse system Functioning properly: [] Yes [] No
 Auto Steam Exhaust (ASE) system operates and prevents steam appearing around door seals or front covers during wash cycle? Yes ____ No ____ If yes, explain

• **Chemical Charging:**

Add Detergent/chemical & titrate concentration:
 Chemical Brand/Name: _____
 Machine Reservoir volume: _____ Gal
 Total Chemical amount added: _____ [] Gal [] Lbs
 Titration Concentration _____ Oz/gallon



- Measure and record time to reach operating temperature of 185-190° F.
 Time of day: _____ Total Heat-up time _____ min.
- Program 7-Day Clock: Clock is programmed : [] Yes [] No
- Set Rinse timer (if applicable) Set time to _____ minutes

TEST WASH OF ACTUAL PARTS Test wash actual parts and record results.

Cleanliness: Excellent ____ Good ____ Fair ____ Poor ____ Wash cycle time: _____ min.
 Comments: _____

Thank you for taking time to complete this form. Should you have any questions on your STINGRAY Parts Washer during this test, or anytime in the future, please call MART Tech Services 1-888-720-7222 or visit our 24/7 User Support website at www.marttechservices.com

To begin your STINGRAY Warranty, please sign and return your start-up form to MART Tech Services.

Authorized Signature: _____

Printed Name: _____

Title: _____

Date: _____

