

**Test Stand PAI-003-TS**

**\*Please refer to all safety regulations and guidelines designated in the Test Stand 3 Manual before performing any maintenance or adjustments to stand\***

	Description of Maintenance	Condition	Date	Initial
1	Inspect operating area			
a.	Check/Clean control panel and remove excess dirt or oil from operating areas			
b.	Check/Clean oil splash guards and sliding doors, remove extra fluid and dirt from area			
c.	Lubricate sliding doors as needed			
d.	Lubricate hinges for Vari Drive cover as needed			
e.	Check control valves are in correct position			
f.	Check for any structural damages to test stand			
g.	Check all labels are clear and legible			
2	Inspect Filter Elements (5)			
a.	Check/Replace Pump 1 filter (111a)			
b.	Check/Replace Pump 2 filter (111b)			
c.	Check/Replace Main Return filter (118)			
d.	Check/Replace Sump Pump filter (126a)			
e.	Check/Replace Hand Pump inline filter (129a)			
3	Check fluid level of Reservoir Tanks			
a.	Check/Replace seals on reservoir tanks			
b.	Main Tank reservoir level half minimum (101)			
i.	Verify reservoir sensor and level indicator (101a)			
c.	Sump Tank reservoir level half minimum (181)			
i.	Verify reservoir sensor and level indicator (112)			
d.	Replace fluid in tanks. Check for any debris or issues with tank			
4	Check for hose leaks, loose connections, or damage			
a.	Pump 1 System			
i.	6 Soft line hose connections			
b.	Pump 2 System			
i.	6 Soft line hose connections			
c.	Boost supply System			
i.	3 Soft line hose connections			
d.	Sump Tank System			
i.	7 Soft line hose connections			
e.	Control Valve connections			
i.	5 Soft line hose connections			
f.	Main return connections			

**\*NOTE: If soft line hosing is damaged, show signs of bulging, or hose is past life expectancy the hose must be replaced**

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	Description of Maintenance	Condition	Date	Initial
5	Check control panel			
a.	Check control lights			
b.	Check control buttons and switches			
c.	Check flow meter displays			
d.	Check/Record power hobbs meter (Panel 2)			
e.	Check temperature meter display (155)			
i.	Toggle 1 Reservoir			
ii.	Toggle 2 T/P Case Drain			
iii.	Toggle 3 Main System Press			
iv.	Toggle 4 T/P Discharge			
v.	Toggle 5 Main System Return			

**\*NOTE:** Record any cracked or damaged sections for the control panel. This includes bulbs, press switches, toggle switches, and bulb covers.

**\*\*WARNING\*\*** Always operate stand using proper start up and shut down procedures for test stand. Improper operation of stand could result in damage to system.

6	Verify operation of stand			
a.	Run Main Pump 1 Start/Stop			
i.	Max-Min levels of PSI and RPM for motor			
ii.	Check flow rate and measure with component			
iii.	Run system for 10 minutes and note any issues			
iv.	Check for vibration abnormal sounds from motor			
v.	Pump operates from 0-30GPM			
vi.	Check/Record power hobbs meter (Panel 2)			
b.	Run Main Pump 2 Start/Stop			
i.	Max-Min levels of PSI and RPM for motor			
ii.	Check flow rate and measure with component			
iii.	Run system for 10 minutes and note any issues			
iv.	Check for vibration abnormal sounds from motor			
v.	Pump operates from 0-30GPM			
vi.	Check/Record power hobbs meter (Panel 2)			
c.	Verify combination valve with pump 1			
i.	Max-Min levels of PSI and RPM for motor			
ii.	Check flow rate and measure with component			
iii.	Run system for 10 minutes and note any issues			
iv.	Check for vibration abnormal sounds from motor			
d.	Verify Hand Pump system operation			

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	Description of Maintenance	Condition	Date	Initial
6	Verify operation of stand			
	e. Verify 4-Way Valve system operation			
	i. Check Max PSI for both directions			
	f. Verfiy Dynamic Pump system operation			
	i. Check Max PSI for system			
	g. Verify Variable Drive system operation			
	i. Run and check for any issues (Tested w/Boost)			
	h. Verify Boost Pump system operation			
	i. Tested with Vari Drive			
7	Acidity test of Skydrol Fluids			
	a. *Use Skytest Kit. Mark good if already completed			
8	Check Gauges for proper calibration			
	a. Check all pressure gauge calibration dates			
	i. T/P Boost Press Gauge (175)			
	ii. T/P Caser Drain Press Gauge (176)			
	iii. T/P Discharge Press Gauge (171E)			
	iv. 60 GPM System Press Gauge (171A)			
	v. 30 GPM System Press Gauge (171B)			
	vi. Cycle Press PA Gauge (171C)			
	vii. Cycle Press PB Gauge (171D)			
	viii. Static Press Gauge (177)			
	b. Check temperature sensor calibration date			
	i. Temperature Display (155)			
	c. Checked flow meter sensor calibration dates			
	i. Flow meter T/P Case Drain (151A)			
	ii. 3.0 to 30.0 GPM (153A)			
	iii. Flow Meter 6.0 to 60.0 GPM (152A)			
	d. Check Vari Drive RPM Display (329)			
9	Verify Electrical Components			
	a. Panel 1			
	i. Check for any loose wiring or bad connections			
	ii. Verify breaker operation M2			
	iii. Verify breaker operation M3			
	iv. Verify E-stop operation power shut off			
	b. Panel 2			
	i. Check for any loose wiring or bad connections			
	ii. Verify E-stop operation power shut off			

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Notes

\*Record any known discrepancies here\*

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