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MAINTENANCE SERVICE SCHEDULE

The purpose of this technical document is to provide pre and post operation inspections that are required to keep the trowel maintained. Performing pre and post inspections will help ensure trowel performance and reduce repairs and down time. Following this recommended maintenance schedule will help ensure long and reliable service of your STXDF Whiteman Ride-on power trowel.

Please Note:

- *When using LPG fuel source; please refer to the Operator's and Engine Manuals for LPG system recommended service and maintenance.*
- *When operating in hotter and dustier condition it's required to increase oil and air clean service intervals to achieve expected engine performance and life.*



Do not operate or service the equipment before reading the entire manual. Safety precautions should be followed at all times. Failure to read and understand the safety messages and operating instructions could result in injury to yourself and others.

Daily Inspections – Pre-operation Checklist

User must report any items that fail pre-operation checklist and should avoid using until corrected

✓	#	Pre-operation Service List	Notes
	1	Read Operation Manual	Review Operation Manual prior to use and maintenance
	2	Check engine oil	SAE 30W above 40°F // 10W-30 for colder climates
	3	Check engine coolant	Check and refill as needed
	4	Check engine air filter	Do not use pressurized air to clean filter.
	5	Check hydraulic oil	Check in operator's display, level should be 20~75% when oil is cold
	6	Check seat safety switch	Test for proper operation of the seat safety switch
	7	Diagnostic display	Turn the ign. Key to ON position, check for display operation
	8	Check engine RPM – display	Start and run engine, check for engine RPM and any faults displayed on the operator's display
	9	Check safety guards & decals	Check that safety guards and decals are in place and secure
	10	Operation of spray and lights	Test function of water spray system and trowel lighting
	11	Lubricate pivot points	Lubricate all moving parts that are not greased, steering cylinder, heim joints, motor housing pivots, etc.
	12	Grease trowel arm bushings, thrust collars	Using EP2 type grease, grease all locations prior to use. If the unit is washed/pressure washed off all grease points should be greased after to push out any remaining water. 1~2 pumps with hand grease gun is all that is needed at least twice a day.



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Daily Inspections – Pre-operation Checklist

User must report any items that fail pre-operation checklist and should avoid using until corrected

✓	#	Pre-operation Service List	Notes
	13	Check operation of pitch switches / drive bypass	Prior to use, check all switches for proper operation
	14	Check panning mode operation	Press and hold for 3 seconds to disengage pitch systems for float pan operation. NEVER pitch blades when pans are installed
	15	Blade condition and pitch	Check blades for excessive wear, loose hardware. Check for smooth operation of blade pitch
	16	Hydraulic cooling	Verify the fans cycle to ON for about 10 seconds when the key is turned on
	17	Check steering	Test steering controls to ensure smooth movement and that linkage is secure
	18	Lift eyelets and lift strap	Inspect lift points and lift strap for any damage prior to lifting for transport
	19	Spider retaining screws	Check for loose hardware and tighten if needed. Contact Multiquip Technical Support for proper torque
	20	Add clean fuel	Use clean fresh fuel, 87 or 89 octane / less than 10% ethanol
	21	Wash and clean	Wash and clean trowel after use to remove concrete buildup. Grease fitting and lubricate pivot points after washing

First 50 Hours Service – Checklist

User must report any items that fail pre-operation checklist and should avoid using until corrected

✓	#	Service Items	Notes
	22	Change engine oil and filter	This will remove the oil contaminants from engine break-in
	23	Check fasteners	Check for loose hardware and retighten

Every 100 Hours Service – Checklist

User must report any items that fail pre-operation checklist and should avoid using until corrected

✓	#	Service Items	Notes
	24	Air cleaner	Inspect air cleaner. Replace as needed in dusty areas
	25	Check fasteners	Check for loose hardware and retighten
	26	Electrical – battery, grounds, wiring and fuses	Clean/service battery and cables, check that ground cables at the engine block are clean and tight. Inspect wires for any chaffing or otherwise loose connections at fuse block
	27	Exhaust	Inspect muffler, flex joint and mounting hardware, check wiring is secured away
	28	Engine cooling	Inspect radiator hoses, clamps and cooling fins



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Every 100 Hours Service – Checklist

User must report any items that fail pre-operation checklist and should avoid using until corrected

✓	#	Service Items	Notes
	29	Check thrust plate	Inspect for wear on thrust bushing and bearing
	30	Spider retainer hardware	Check/replace – torque all 5 retaining bolts. Use specification chart for proper torque.
	31	Hydraulic coolers	Check fan operation and that cooler fins are clean
	32	Drive belt	Inspect tension, inspect for cracks, breaks and wear

Every 400 Hours or Annually Service – Checklist

User must report any items that fail pre-operation checklist and should avoid using until corrected

✓	#	Service Items	Notes
	33	Change engine oil and oil filter	API Classification SJ SAE 30W above 40°F // 10W-30 for colder climates
	34	Change air filters	Replace air filters
	35	Change fuel filters	Replace with OEM filters
	36	Fuel hose and lines	Check for wear points, cracks and wear. Replace with correct hoses only
	37	PCV	Inspect hose, fitting and PCV
	38	Fuel tank	Check for water in tank, drain as required
	39	Battery	Service battery, clean

Every 800 Hours Service – Checklist

User must report any items that fail pre-operation checklist and should avoid using until corrected

✓	#	Service Items	Notes
	40	Replace spark plugs	Adjust spark plug gap to: 0.049 ~ 0.053 in (1.25 ~ 1.35 mm)
	41	PCV	Inspect hose, fitting and PCV

Every 1,500 Hours or 2 Years Service – Checklist

User must report any items that fail pre-operation checklist and should avoid using until corrected

✓	#	Service Items	Notes
	42	Change engine coolant	Drain and replace
	43	Change hydraulic oil and filter	Drain and replace



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Quick Reference Service Items List

60082 (5 gallon container)	Parker DuraClean Hydraulic Oil – ISO46
FKITSTXDF	STXDF Service Filter Kit - Contains: Engine Oil, Air Filter, Fuel Filter, LPF Filter and Hydraulic Filter
48358	Ride-on Trowel – Safety Decals

Specifications

Fuel Type – Gasoline	87 or 89 octane unleaded / capacity (14.5 gallons)
Fuel Type – LPG	HD-5 (33.5 lb. / 15.2 kg / 36.3 liters)
Coolant	Havoline conventional green antifreeze coolant - 50% mix with 50% distilled water
Hydraulic Oil	Parker DuraClean Hydraulic Oil – ISO46
Engine Oil	API SJ, SAE 10W-30 or 10W-40
Spark Plug Gap	0.049~0.053” / Torque to 11 ft-lbs / 15 Nm
Blade Speed Spec	Max speed of 150 RPM
Spider Retaining Bolts Torque	14M Torque: 113 ft-lbs 12M Torque: 90 ft-lbs
Drive Motor Relief Pressure	4,700 PSI (325 bar)
Steering Pressure	290 PSI (20 bar) +/- 10 PSI
Charge Pressure	320 PSI +/- 25 PSI (20.6 bar)



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