



## Maintenance Service Schedule

The purpose of this technical document is to provide a recommended service maintenance schedule for the HTXD6i and STXD6i. This is an expanded list from the operator's manual. Following this recommended maintenance schedule will help ensure long and reliable service of your HTXD6i and STXD6i Whiteman Ride-On power trowel.

*\*\*\*\*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 or Before Use	
Service Item	Notes
Add Clean Fuel	Use clean fresh diesel fuel, ULSD #D2.
Fuel-Water Separator	Visually inspect separator for signs of water.
Check Engine Oil	SAE 15-40 above 15 degrees F (-10 C). Oil Specs. USA: API CD or Higher. EU: ACEA E-3, E-4 or E-5
Check Engine Air filter	Inspect filter for dust build up. Clean the filter canister. Do not use pressurized air to clean the filter.
Check Engine Coolant Level	Use LLC or ELC Coolant/Antifreeze. Alternate use an ethylene glycol (green) coolant.
Check Seat Switch	Test for proper operation of the seat safety switch. Drive Bypass.
Check Guards/Lift points	Check safety guards and that lifting points are in place and secure.
Check Hydraulic oil	Use the oil condition window to check. Oil should be completely covering the window without a level line. Check when oil is cold.
Key-On function Test	Perform Key-On function test of fans, operator / lofa panel lamps and warning and stop lamps.
Hydraulic Cooler/Fan	Inspect cooler for damage and ensure the fan is operational prior to use.
Check Engine RPM -	Start and run engine, check for engine RPM and any faults displayed on the operators display.
Grease Trowel arm bushings, thrust collar.	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. Do not over grease. 1-2 pumps with a hand grease gun all that is needed.
Lubricate Pivots/Linkage	Lubricate Foot pedal and other moving parts.



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Lift eyelets and lift strap.	Inspect lift points and lifting strap for any damage prior to transport.
Trowel blades	Replace worn trowel blades.

<b>Initial 50 Hours Service</b>	
<i>Service Item</i>	<i>Notes</i>
Change engine oil & filter	This will remove the oil contaminants from engine break-in. <b>Filter P/N 12915035153</b>
Cooling Fan Belt	Check and adjust as needed for proper belt tension
Hydraulic filter	Replace hydraulic filter first time at 50 hours 22371
Hydraulic Pressure	Verify after breaking that all pressures meet specification.
Blade Speed Check	Check for proper blade speed setting. New units will have a break-in of the system that increases blade speed. If reset is needed, recalibrate the stroke cylinder.
Check Fasteners	Tighten any loose hardware motor housing bolts Torque: 41ft-lbs(55.59 Nm) and spiders retaining bolts Torque: 350 ft-lbs (474.54Nm)

<b>Every 100 Hours or Annually</b>	
<i>Service Item</i>	<i>Notes</i>
Fuel-Water Separator	Drain the fuel-water separator to purge any water in the bow
Spider retaining bolt Torque	See Notes in specification chart.
Blade Speed Check	Check rotor blade speed and reset as needed. If reset is needed, recalibrate the stroke cylinder.
WST Connection and Calibrations	Check for any fault codes and recalibrate sensors. Refer to MQ Service and Support webpage or visit: <a href="http://service.multiquip.com/whiteman-service-tool.html">http://service.multiquip.com/whiteman-service-tool.html</a>
Electrical – Battery, Grounds, wiring, 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.
Hydraulic Motor Housing Hardware	Check and tighten hydraulic motor housing bolts and trunnions for loose fasteners.
Check Thrust Plate	Inspect the wear of the thrust bushing and thrust bearing
Cooling System	Inspect radiator hoses and cooling fins
Engine Isolator Mount	Inspect quality of the engine vibration isolator mounts.
Cooling System	Inspect radiator hoses and cooling fins



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Check Fasteners	Tighten any loose hardware motor housing bolts Torque: 41ft-lbs(55.59 Nm) and spiders retaining bolts Torque: 350 ft-lbs (474.54Nm)
Hydraulic Cooler	Check for fan operation and cooler fins are clean

<b>Every 250 Hours or 2 Years</b>	
<i>Service Item</i>	<i>Notes</i>
Change Engine Oil & Oil Filter	SAE 15W-40 above 15 degrees F (-10 C ). P/N 12915035153 Oil Specs. USA: API CD or higher. EU: ACEA E-3, E-4 or E-5.
Drain Fuel Tank – Check Strainer	Drain the tank and clean, inspect in-tank filter.
Air filter	Clean filter or replace as needed. <b>P/N</b> PMAF25436.
Cooling Fan Belt	Check and adjust as needed for proper belt tension
Clean/check Radiator	Inspect fins for dirt collection, clean with low pressure air or water. <b>DO NOT USE A HIGH PRESSURE WASHER TO CLEAN.</b>
Muffler	Inspect muffler and mounting hardware
Replace Hydraulic Filter and oil	Replace filter and oil. Filter <b>P/N</b> 22371 AW/MV/ISO68 or Parker DuraClean.

<b>Every 500 Hours or 2 Years</b>	
<i>Service Item</i>	<i>Notes</i>
Fuel Lines	Replace fuel lines with approved OEM fuel line.
Fuel filters	Replace main fuel filter at MAX interval of 500 hours. On units with a filter in the water separator, replace filter as well
Air filter	Replace Air filter, P/N PMAF25436

<b>Every 1000 Hours</b>	
<i>Service Item</i>	<i>Notes</i>
Check Valves	Check and adjust valves. Spec 0.006 - 0.010 “ (.15mm - .25mm)
Coolant	Drain, flush and refill the cooling system with new coolant

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## Every 1500 Hours

Service Item	Notes
Clean EGR Cooler	Consult Yanmar service dealer.

## Service Parts

MQ P/N'S	Description
<b>60082 (5 gallon container)</b>	Parker DuraClean Hydraulic Oil – ISO46
<b>12915035153</b>	Engine oil filter
<b>12924255730</b>	Fuel filter, Water separator
<b>PMAF25436</b>	Air filter
<b>11980255801</b>	Main fuel filter
<b>29677</b>	Fuel Strainer, in-Tank
<b>22371</b>	Hydraulic filter - 10 micron absolute rating.

## Specifications

Spider Retaining Bolt torque	A keyless tapered spider (new style) will be torqued to 350 ft-lb (475 N. m) and will be marked on the backside of the spider as "TQ350" (See Figure 6).
Motor Housing bolts	Tighten to 41 ft-lb (56 N-m) Refer to parts manual for tightening sequence.
Blade speed Max	HTXD6i 140 RPM – STXD6i is 130 RPM. Test on dry concrete, unit at operating temperature
Charge pressure	300 PSI +/- 25, Both models, test at high engine speed and at normal temperature
Steering Pressure	HTXD6i – 240 psi STXD6i – 290PSI +/- 10PSI
Pitch Pressure	1850 psi ( 125 bar )
Drive Motor Relief Valves	4350 psi - Each relieve valve is stamped at its rating, 300 bar.
Engine Oil specs	SAE 15W-40 above 15 degrees F (-10C ). Oil Specs. USA: API CD or higher. EU: ACEA E-3, E-4 or E-5

