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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 HHNG5 Whiteman Ride-on power trowel.

Please Note: *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	Operator's required to read manual before use
	2	Check engine oil	SAE30W above 40°F, 10W-30 for colder climates
	3	Check engine air filter	Do not use pressurized air to clean filter. Do not oil the foam pre-filter
	4	Add clean fuel	Use clean fresh fuel, minimum of 87 octane / less than 10% ethanol
	5	Check seat safety switch	Test for proper operation of the seat safety switch
	6	Check safety decals & guards	All safety guards must be installed and secure
	7	Check operation of spray and lights	Test function of water spray and trowel lights
	8	Check gearbox oil	Use the sight glass to check the gearbox level. Refill as needed with P/N 20445 (24oz. bottle). Chevron ISO 220 industrial synthetic gear oil.
	9	Grease trowel arm bushings, thrust collar, pitch tower, crank handles and steering linkage.	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 hand grease gun is all that is needed at least twice a day.
	10	Check steering	Test steering controls to ensure smooth movement
	11	Lubricate Pivots/Linkage	Lubricate steering rod end joints, throttle and choke cable linkage & levers



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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
	12	Grease Drive Cross Shaft Pillow Block Bearings	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 is all that is needed at least twice a day or every four hours when operating.
	13	Driveline	Visually inspect driveline, belt and CV boots for wear and tear
	14	Lift eyelets and lift strap	Inspect lift points and lifting strap for any damage prior to lifting for transport

Daily or Before Use 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
	15	Blades condition & pitch	Check blades for excessive wear, loose hardware. Check for smooth operation of blade pitch and twin pitch setting
	16	Spider retaining screw/hardware	Check for loose hardware and check/tighten spider retaining screw to 32.5 ft. lbs. (44.06 Nm)
	17	Check engine RPM	Correct engine RPM will ensure correct blade's speed and engine cooling. Check and adjust as needed to 3,800 RPM
	18	Wash & clean	Wash and clean trowel after use to remove concrete buildup. Grease fittings and lubricate pivot points after wash

First 5 Hours Service – Checklist

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

✓	#	Service Items	Notes
	19	Change engine oil & filter	This will remove the oil contaminants from engine break-in

Every 100 Hours or Annually Service – Checklist

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

✓	#	Service Items	Notes
	20	Change engine oil & oil filter	SAE30W above 40°F / 10W-30 for colder climates
	21	Change both in-line fuel filters	Replace with OEM filter Qty. 1 each part# 845125 & 691035
	22	Change air filter	Primary & foam pre filters, DO NOT oil foam pre filter
	23	Replace spark plugs	Gap: 0.020" (0.51mm) torque: 180 in-lbs. (20.3 Nm)



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Every 100 Hours or Annually Service – Checklist

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

✓	#	Service Items	Notes
	24	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
	25	Muffler	Inspect muffler, flex joint and hardware
	26	Cooling system	Inspect cool air intake through the flywheel. Rotating screen should be removed
	27	Engine isolator mount	Inspect quality of the engine vibration isolator mounts
	28	EVAP system	Inspect EVAP system hoses for correct routing and cracks
	29	Gearbox oil	Replace gearbox oil first time at 100 hrs. Refill with 1 gallon bottle. Chevron ISO 220 industrial synthetic gear oil. Uses 144 oz. per box
	30	MultiClutch – CVT system	Remove clutch/belt guard, inspect drive belt for wear and cleanliness, using shop compressed air, blow out the upper clutch of any dirt and clutch dust

Every 200 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
	31	Engine valves adjustment	Check and adjust valves, Intake & Exhaust (.004"~.006") (.10mm~.15mm)
	32	Fuel lines	Replace fuel lines with approved EPA hose
	33	Fuel tank filter	Remove and clean fuel valve with in tank screen. Reinstall with thread sealant
	34	Driveline	Renew grease in CV joint, inspect lower pulley retaining screw. Check belt wear

Quick Reference Service Items List

MQ Part Numbers	Description
20445 (24 oz.)	Gearbox oil (Chevron ISO 220 Industrial synthetic gear oil)
23992 (1 gallon)	Gearbox oil (Chevron ISO 220 Industrial synthetic gear oil)
491055S	Spark plugs (RC12YC) Gap: 0.020" (.5mm) Torque: 180 in-lbs. (20.3 Nm)
FKITHHNG5	HHNG5 Service Filter Kit (Contains engine oil, fuel and air filter)
48358	Ride-on Trowel – Safety Decals