

MAINTENANCE SCHEDULE

NOTE: Use the engine hour meter gauge to log your engine hours or record your engine hours by running time.

SCHEDULED MAINTENANCE	CHECK EACH DAY	HOURS OF OPERATION							EXPLANATION OF SCHEDULED MAINTENANCE
		50	100	250	500	750	1000	1250	
Engine Hoses		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hose should be hard & tight. Replace if soft or spongy. Check & tighten all hose clamps.
Heat Exchanger Zinc Anode		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Clean or replace anode. Open heat exchanger end cap and clean out debris. Remove every 1000 hours for professional cleaning and pressure testing.
Electric Fuel Lift Pump Filter (if applicable)		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Clean at 50 hours, then clean every 250 hours.
Raw Water Pump				<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	Remove pump cover and inspect impeller for wear; replace if needed. Also replace gasket. Lubricate both when reassembled. Inspect pump for internal wear, cover plate wear and cam wear.
Coolant System					<input type="checkbox"/>			<input type="checkbox"/>	Drain, flush, and refill cooling system with appropriate antifreeze mix.
*Fuel Injectors						<input type="checkbox"/>			Check and adjust injection opening pressure and spray condition (see <i>Engine Adjustments</i>).
*Starter Motor					<input type="checkbox"/>			<input type="checkbox"/>	Check solenoid and motor for corrosion. Remove and lubricate. Clean and lubricate the Starter motor pinion drive.
*Preheat Circuit					<input type="checkbox"/>			<input type="checkbox"/>	Check operation of preheat solenoid. Remove and clean glow plugs; check resistance (1.1-1.2 ohms).
*Engine Cylinder Compression and Valve Clearance					<input type="checkbox"/>			<input type="checkbox"/>	Incorrect valve clearance will result in poor engine performance; check compression pressure and timing, and adjust valve clearances.
DC Alternator				<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	Check DC charge from alternator. Check mounting bracket; tighten electrical connections.
Heat Exchanger							<input type="checkbox"/>		Remove, have professionally cleaned and pressure tested.
*Engine Transmission Damper Plate							<input type="checkbox"/>		Chattering at idle and low rpms is an indication of damper plate wear. Remove and replace.

*UNIVERSAL recommends this service be performed by an authorized mechanic.