



400X, 450X, 500X

**PREVENTIVE
MAINTENANCE
SCHEDULE**



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4 Service

4.1 Preventive Maintenance Schedule

This schedule is intended to provide a general view of the preventive maintenance activities that needs to be carried out during different time intervals.

Note!

The maintenance of MJP Products is tightly connected to the warranty of the products.

4.1.1 Daily inspections

Daily inspections		
Task description	Task number	Skill level
Inspect the cylinders and hoses in the hydraulic system.	4.4.1 <i>Hydraulic Cylinders and Hoses, Inspect</i>	Crew
Inspect oil level in the hydraulic system.	See Operation Manual	Crew
Inspect oil temperature in the hydraulic system.	See Operation Manual	Crew
Inspect the working pressure.	See Operation Manual	Crew
Check the condition of the thrust bearing and shaft seal by inspection of leakage and oil level on the bearing housing assembly.	See Operation Manual	Crew

4.1.2 Running Hours Replacements

Running hours replacements			
Task interval	Task description	Task number	Skill level
Every 500 operating hours *	Replace the oil in the thrust bearing system.	4.4.17 <i>Thrust Bearing, Replace Oil</i>	Chief Engineer

* Replace the oil after the first 50 hours. After that every 500 hours as per maintenance schedule.

4.1.3 Yearly Inspections, Adjustments and Replacements

Yearly inspections, adjustments and replacements		
Task description	Task number	Skill level
Inspect the control system components.	4.5.1 <i>Control System Components, inspect for wear and damages</i>	Chief Engineer
Inspect the waterjet intake for mechanical damages and debris.	4.3.2 <i>Intake and pump, Inspect</i>	Chief Engineer
Measure the impeller tip clearance.	4.3.3 <i>Pump Unit, Inspect Impeller Blade Tip Clearance</i>	Authorized Service Technician
Inspect water lubricated bearing and the bearing sleeve.	4.3.5 <i>Water Lubricated Bearing, Inspect</i>	Chief Engineer or Authorized Service Technician
Inspect the waterjet (pump unit, pin shafts and anodes) for damages and corrosion.	4.3.12 <i>Waterjet Unit, Inspect</i>	Chief Engineer
Inspect the oil level alarm sensor on the hydraulic tank.	4.4.11 <i>Hydraulic Tank, Inspect Oil Level Alarm Sensor</i>	Chief Engineer
Replace the air filters on the hydraulic and lubrication systems.	4.4.9 <i>Hydraulic and Lubrication System, Replace Breather Filter</i>	Chief Engineer
Inspect the hydraulic pump.	4.4.25 <i>Hydraulic Pump, Inspect</i>	Chief Engineer
Inspect the hydraulic oil quality on the hydraulic system.	4.4.13 <i>Hydraulic System, Inspect Oil Quality</i>	Crew
Inspect the hydraulic pressure limit.	4.4.19 <i>Hydraulic System, Inspect Pressure Limit</i>	Authorized Service Technician and Crew
Adjust the hydraulic pressure limit.	4.4.20 <i>Hydraulic System, Adjust Pressure Limit</i>	Authorized Service Technician and Crew
Replace the oil filter.	4.4.22 <i>Hydraulic Tank, Replace Pressure Oil Filter Cartridge</i>	Chief Engineer
Inspect bushings and pin shafts on the waterjet.	4.3.14 <i>Waterjet Unit, Inspect Bushings and Pin Shafts</i>	Chief Engineer
Test that all control system components and waterjets works trouble-free in operation	4.5.19 <i>Control System Components and Waterjet operation test</i>	Authorized Service Technician and Crew

4.1.4 Inspections, Replacements and Overhaul based on Years or Running Hours

Years or running hours - inspections, replacements and overhaul			
Task interval	Task description	Task number	Skill level
Every 2 years or every 4000 hours*	Replace seals on the hydraulic reversing cylinder.	4.4.5 <i>Hydraulic Reversing Cylinder, Replace Seals</i>	Authorized Service Technician
Every 2 years or every 4000 hours*	Replace seals on the hydraulic steering cylinder.	4.4.6 <i>Hydraulic Steering Cylinder, Replace Seals</i>	Authorized Service Technician
Every 2 years*	Replace oil on the hydraulic tank.	4.4.15 <i>Hydraulic Tank, Replace Oil</i>	Chief Engineer
Every 5 years or every 8000 operating hours*	Replace thrust bearing and radial seals on the thrust bearing unit.	4.3.10 <i>Thrust Bearing Unit, Replace Thrust Bearing and Radial Seals</i>	Authorized Service Technician
Every 5 years or every 8000 operating hours*	Replace the shaft seal on the thrust bearing unit.	4.3.11 <i>Thrust Bearing Unit, Replace Shaft Seal</i>	Authorized Service Technician
Every 5 years*	Replace hydraulic hoses	4.4.2 <i>Hydraulic Hoses, Replace</i>	Chief Engineer
Every 5 year*	Inspect pressure gauge on the hydraulic system.	4.4.21 <i>Hydraulic System, Inspect Pressure Gauge, Replace Defect Pressure Gauge</i>	Chief Engineer
Every 5 years or every 8000 operating hours*	Replace water lubricated bearing	4.3.6 <i>Water Lubricated Bearing, Replace</i>	Authorized Service Technician

*Maximum deviation from interval time / hours is +3 months / +500 h



MARINE JET POWER
Hansellsgatan 6
754 50 Uppsala
SWEDEN
+46 (0) 10 165 10 00

SOUTH KOREA
Gamcheonhang-ro 165-4, Saha-gu
49454 Busan
KOREA
+82 (51) 746 6428

AMERICAS
6740 Commerce Ct. Drive
Blacklick, OH 43004
USA
+1 614-759-9000