Maintenance Training Course



PROGRAM: Yamaha Marine Maintenance Certification Program

COURSE: Maintenance Training Course – PORTABLE – F9.9B/T9.9B

PART NUMBER: LIT-99MNT-00-00 (textbook)

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COURSE SYLLABUS – MCP – PORTABLE – F9.9B/T9.9B

Student Learning Outcomes

Students will be able to:

- use F/T9.9 Service Manual and related resources/tools
- use the maintenance charts in F/T9.9 Service Manual
- check and adjust valve clearance
- spot issues while performing regular maintenance tasks
- inspect and replace spark plugs
- changing engine oil using drain plug or extraction pump
- recommend and use the correct oil and lubricants
- properly drain and refill lower gear lubricant
- inspect and replace water pumps
- remove and reinstall lower units
- check power tilt and manual tilt operation
- inspect and replace anodes
- inspect and replace fuel filters and fuel pump
- conduct a compression test
- test fuel components on and off the engine
- remove and check fuel pump assembly
- inspect and replace timing belt
- inspect tiller handle operation
- inspect and adjust throttle/shift cables
- inspect and replace propellers
- create and submit a parts pick list in YMBS
- grease points and inspect cowlings
- inspect and replace marine batteries

Students will understand:

- the importance of service literature
- when and what to perform routine service on
- the importance of service
- the basic attributes of the propeller and what moves it
- fuel problems and resolutions

COURSE SYLLABUS - MCP - PORTABLE - F9.9B/T9.9B

F9.9B/T9.9B Maintenance Chart

		Initial Every			
Item	Actions	20 hrs.	100 hrs.	300 hrs.	500 hrs.
		(3 months)	(1 year)	(3 years)	(5 years)
Anodes (external)	Inspect/replace		✓		
Anodes (cylinder head)	Inspect/replace		✓		
Battery (electrolyte level, terminal)	Inspect	✓	✓		
Battery (electrolyte level, terminal)	Fill, charging, replace		✓		
Cooling water leakage	Inspect/replace	✓	✓		
Cowling lock lever	Inspect		✓		
Engine starting condition/noise	Inspect	✓	✓		
Engine idle speed/noise	Inspect	✓	✓		
Engine Oil	Replace	✓	✓		
Engine Oil Filter	Inspect/replace		✓		
Fuel filter (disposal type)	Replace		✓		
Fuel line	Inspect	✓	✓		
Fuel pump	Inspect/replace			✓	
Fuel/engine oil leakage	Inspect	✓	✓		
Gear oil	Replace	✓	✓		
Greasing points	Greasing	✓	✓		
Impeller/water pump housing	Inspect/replace		✓		
Impeller/water pump housing	Replace			✓	
Power tile unit	Inspect	✓	✓		
Propeller/propeller nut/cotter pin	Inspect/replace	✓	✓		
Shift link/ shift cable	Inspect/adjust/replace	✓	✓		
Spark plug(s)	Inspect/replace	✓			
Spark plug caps/spark plug wires	Inspect/replace	✓	✓		
Water from the cooling water pilot hole	Inspect	✓	✓		
Throttle link / throttle cable	Inspect/adjust/replace	✓	✓		
Thermostat	Inspect/replace		✓		
Timing belt	Inspect/replace		✓		

COURSE SYLLABUS – MCP – PORTABLE – F9.9B/T9.9B

	Actions	Initial	Every		
Item		20 hrs. (3 months)	100 hrs. (1 year)	300 hrs. (3 years)	500 hrs. (5 years)
Valve clearance	Inspect/adjust				✓
Cooling water inlet	Inspect	✓	✓		
Main switch/stop switch/choke switch	Inspect/replace	✓	✓		
Wire harness connections/wire coupler connections	Inspect/cleaning if needed	✓	✓		
Fuel tank (Yamaha portable tank)	Inspect/cleaning if needed	✓			
Exhaust guide/exhaust manifold	Inspect/replace	1000 hours			
Timing belt	Replace	1000 hours			

