

MT A 111

Outboard Engines-Portable

Overview:

Introduces troubleshooting, maintaining, and repairing four-stroke Portable (2.5-25 HP) outboard marine engines. Provides entry-level marine technicians with the knowledge to maintain the Yamaha F9.9B/T9.9B engine platform according to a maintenance schedule.

Student Learning Outcomes:

- 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