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Repairing Your Outdoor Power Equipment (Trade)

By Jay Webster



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Repairing Your Outdoor Power Equipment (Trade) By Jay Webster

Introducing a new resource which will show you how to successfully service and repair your favorite outdoor power equipment, including: lawnmowers and garden tractors, snow throwers, leaf blowers, chain saws, portable pumps, and more! Complete with step-by-step photo sequences, Repairing Your Outdoor Power Equipment will introduce you to the professional failure analysis and servicing techniques you need to keep your equipment in top condition, while highlighting the operation of basic two-stroke and four-stroke engines. Safety precautions and troubleshooting skills are emphasized in every chapter to ensure your success. There's even a full section in Repairing Your Outdoor Power Equipment which allows you to conduct a failure analysis and learn to rebuild a failed engine!



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Editorial Review

Review

Part 1 SHOP INFORMATION AND SKILLS 1. Safety and Certification: Terms to Know, Introduction, Small Engines, Safe Work Area, Fire Safety, Personal Protective Equipment, Hand Tool Safety, Power Tool Safety, Cleaning Chemical Safety, Case Study, Engine Operation Safety, Hazard Communication, Small Engine Careers and Certification, Review Questions, Discussion Topics and Activities. 2. Tools: Terms to Know, Introduction, Wrenches, Torque Indicating Wrenches, Case Study, Power Wrenches, Pliers, Screwdrivers, Hammers, Punches, Chisels, Twist Drills, Reamers, Hacksaws, Files, Threading Tools, Pullers, Special Tool Sets, Review Questions, Discussion Topics and Activities. 3. Measuring Tools: Terms to Know, Inch Measuring System, Metric Measuring System, Converting Between Measuring systems, Rule, Feeler Gauge, Outside Micrometer, Case Study, Inside Micrometer, Telescoping Gauge, Small Hole Gauge, Dial Indicator, Review Questions, Discussion Topics and Activities. 4. Measuring Electricity, Pressure, and Vacuum: Terms to Know, Measuring Electricity, Case Study, Measuring Pressure, Measuring Vacuum, Review Questions, Discussion Topics and Activities. 5. Threaded Fasteners: Introduction, Threaded Fasteners, Thread Size and Designation, Fasteners Grade Markings, Case Study, Thread Identification, Thread Repair, Thread Compounds, Review Questions, Discussion Topics and Activities. PHOTO SEQUENCE P1- Using a Tap to Repair a Thread. 6. Non Threaded Fasteners: Terms to Know, Introduction, Keys, Pins, Snap rings, Case Study, Electrical Wire and Electrical Fasteners, Review Questions, Discussion Topics and Activities. 7. Service Information: Terms to Know, Engine Identification, Service Information, Customer Care, Case Study, Review Questions, Discussion Topics and Activities. PART 2 ENGINE OPERATION 8. Four Stroke Engine Operation and Cylinder Block Parts: Terms to Know, Basic Engine Principles, Four Stroke Cycle, Case Study, Multiple Cylinder Four Stroke Engines, Crankcase and Main Bearings, Cylinder and Block, Cylinder Head and Cylinder Head Gasket, Crankshaft, piston, Piston Rings, Connecting Rod, Connecting Rod Bearing, Piston pin, Review Questions, Discussion Topics and Activities. 9. Four Stroke Engine Valve System Parts: Terms to Know, Valve Systems, Valves, Valve Spring and Retainor, Valve Rotator, Valve Seat, Valve Guide, Camshaft, Valve Timing, Case Study, Valve Lifter (Tappet), Push Rod, and Rocker Arm, Valve Clearance, Review Questions, Discussion Topics and Activities. 10. Two Stroke Engine: Terms to Know, Introduction, Basic Parts and Operation, Two Stroke Cycle Engine Port Control, Case Study, Engine Parts, Review Questions, Discussion Topics and Activities. 11. Engine Specifications and Selection: Terms to Know, Internal Engine Size Specifications, Horsepower and Torque, Measuring Horsepower, Engine Efficiency, Engine Selection, Case Study, Review Questions, Discussion Topics and Activities. PART 3 ENGINE SYSTEMS 12. Ignition Systems/Magneto: Terms to Know, Introduction, Electricity, Magnetism, Induction, Armature and Coil, Magnet and Coil Operation, Breaker Point Triggered Magneto Systems, Case Study, Electronically Triggered Magneto Systems, Transistor Triggered Magneto Systems, Battery Ignition, Review Questions, Discussion Topics and Activities. 13. Ignition Systems/High Voltage Components: Terms To know, Spark Plug Wires, Spark Plug, Case Study, Kill (stop) Switch, Safety Interlocks, Review Questions, Discussion Topics and Activities. 14. Fuel System/Fuels, Tanks, and Pumps: Terms to Know, Introduction, Fuels, Case Study, Clean Air Standards, Fuel Tanks, Lines, and Fittings, Fuel Filters, Fuel Pumps, Review Questions, Discussion Topics and Activities. 15. Fuel System/Carburetors and Air Cleaners: Terms to Know, The Carburetor, Vacuum Carburetor, Float Carburetor, Case Study, Diaphragm Carburetor, Suction Feed Diaphragm Carburetor, Automatic Choke, Air Cleaner, Review Questions, Discussion Topics and Activities. 16. Governor and Throttle Control Systems: Terms to Know, Introduction, Manual Throttle Control, Case Study, Governor Throttle Control, Air Vane Governor, Centrifugal governor, Flywheel Brake, Review Questions, Discussion Topics and Activities. 17. Lubrication Systems: Terms to Know, Introduction, Reducing Friction, Engine Oil, Four Stroke Lubricating Systems, Low Oil Level Alert Systems, Crankcase Breather, Case Study,

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