

MECHANICS HANDBOOK

8 H. P. and LARGER



LAUSON-POWER PRODUCTS PARTS DEPOT DIV.

TECUMSEH PRODUCTS CO.

GRAFTON, WISCONSIN

WHERE IMAGINATION AND INNOVATION HELP
SHAPE AN INDUSTRY

**GENERAL
INFORMATION**

**GOVERNOR
CARBURETION
AIR CLEANERS**

**STARTERS
GENERATORS**

**CYLINDER
BREATHER**

**PISTON, RINGS
CONNECTING ROD
CRANKSHAFT**

**VALVES
CAMSHAFT**

**BEARINGS
SEALS
GASKETS**

IGNITION

**TROUBLE
SHOOTING
AND ANALYSIS**

**SPECIFICATIONS
AND TOOLS**

TABLE OF CONTENTS

Chapter	Page	Chapter	Page
1	GENERAL INFORMATION	7	BEARINGS, SEALS, GASKETS
	Engine Identification		Roller Bearing Removal
	Engine Care		Roller Bearing Installation
	Lubrication		Bearing Cup Service
	Engine Preparation for the Consumer		Crankshaft End Play Adjust- ment
	Engine Break-in Procedure		Oil Seal Service
2	AIR CLEANERS - CARBURETION - GOVERNOR	8	IGNITION
	Air Cleaners		Ignition Service Checks
	Carburetor Adjustment		Point Installation and Adjust- ments
	Carburetor Repair		Flywheel Removal
	Fuel Pump Service		Magneto Ball Service
	Governor Gear Service		Magneto Tests
	Governor Rod Service		Magneto Wiring Diagram
	Governor Adjustment		Battery Ignition Wiring Diagram
3	STARTER GENERATORS		TROUBLE SHOOTING AND ANALYSIS
	Recoil Starter Service		Upon Receiving An Engine For Repair
	Motor Generator Wiring Diagrams		Trouble Shooting
	Motor Generator Service		A. Engine Fails to Start
	Battery Selection and Care		B. Engine Knocks
4	CYLINDER AND BREATHER		C. Engine Misses Underload
	Cylinder Service		D. Engine Lacks Power
	Valve Seat and Guide Service		E. Engine Overheats
	Head Bolt Installation		F. Engine Surges or Runs Unevenly
	Fuel Pump Mounting		G. Engine Vibrates Excessively
	Breather Service		H. Engine Uses Excessive Amount of Oil
5	PISTON RINGS - CONNECTING ROD AND CRANKSHAFT		I. Oil Seal Leaks
	Rings and Wrist Pin Service		J. Breather Passes Oil
	Piston Wear Checks		Engine Tune-Up Procedure
	Ring and Cylinder Wear Checks		Compression Leak Tests
	Ring Installation		
	Connecting Rod Service		
	Crankshaft Gear Service		
	Connecting Rod Journal Wear Checks		
6	VALVES AND CAMSHAFT	10	SPECIFICATIONS AND TOOLS
	Valve Guide Service		Cross Reference for Craftsman
	Valve Gap Adjustment		Table of Specifications
	Valve Spring Checks		Table of Torque Specifi- cations
	Valve Grinding Procedures		Tools
	Camshaft Service		
	Insta-Matic Ezee-Start Compression Release		
	Valve Timing		