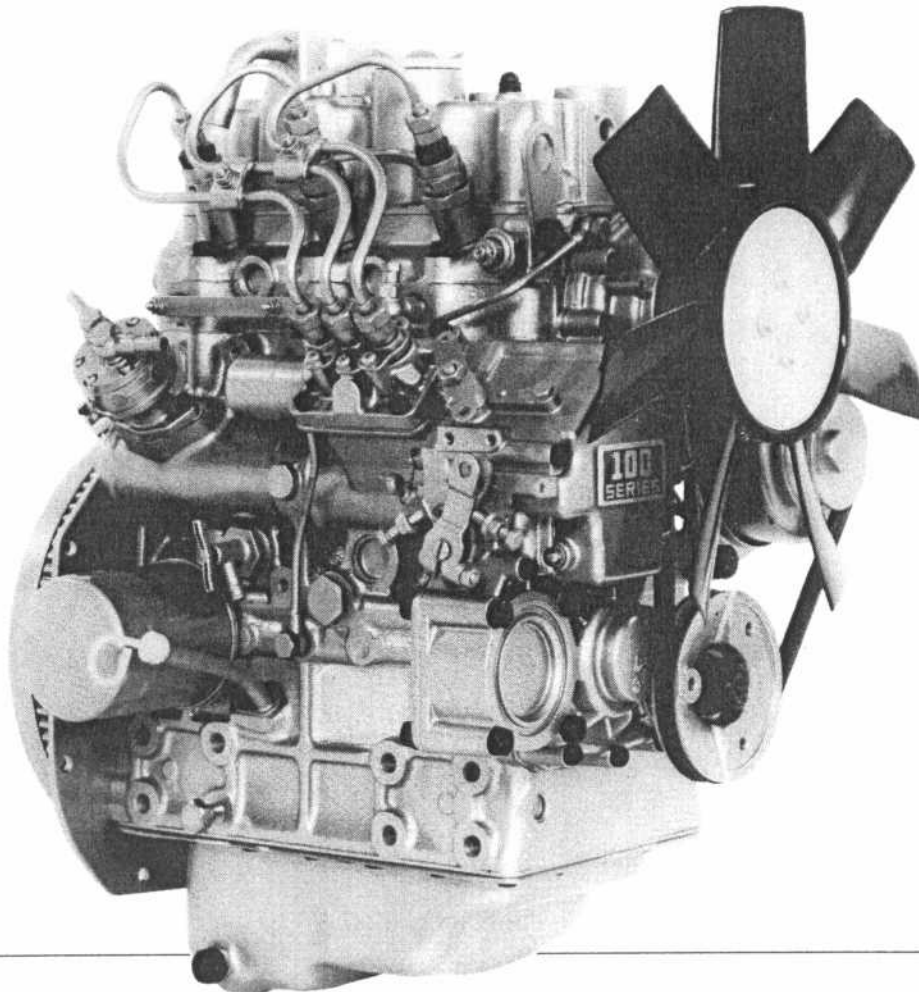


 **Perkins**

**100**  
**SERIES**

 **Perkins**  
**Engines**

## WORKSHOP MANUAL



**Perkins 100 Series: 103-06/103-09/103-10**

**Perama: M25/M30**

# CONTENTS

	PAGE
ABBREVIATIONS and CODES .....	4
FOREWORD .....	5
SAFETY PRECAUTIONS .....	6
ENGINE PHOTOGRAPHS .....	7
SECTION I	
Description .....	1-1
SECTION 11	
General Engine Data .....	2-1
SECTION III	
Dismantling Sequence .....	3-1
SECTION IV	
Disassembly, inspection, fits and clearances of component assemblies .....	4-1
Rocker Arm and Lever .....	4-1
Cylinder Head and Valves .....	4-2
Valve Guide and Seats .....	4-3
Piston .....	4-6
Piston Ring .....	4-6
Piston Rod .....	4-9
Oil Running Clearance .....	4-9
Main Bearing .....	4-11
Crankshaft .....	4-12
Crankshaft Rectification .....	4-13
Flywheel and Ring Gear .....	4-15
Camshaft .....	4-15
Timing Gear .....	4-16
Oil Pump .....	4-16
Oil Filter .....	4-17
.....	
Water Pump .....	4-17
Thermostat .....	4-17
Radiator .....	4-18
Fuel Filter .....	4-18
Fuel Lift Pump .....	4-18
Governor .....	4-19
Atomizers .....	4-20
Air Cleaner .....	4-21
SECTION V	
Reassembly .....	5-1
Timing .....	5-4
SECTION VI	
Electrical Systems .....	6-1
Alternator .....	6-1
Starter .....	6-5
Troubleshooting .....	6-8
Glow Plug .....	6-9
Thermoswitch .....	6-9
Oil Pressure Switch .....	6-9
Wiring Diagrams .....	6-11
SECTION VII	
Troubleshooting .....	7-1
SECTION VIII	
Service Standards .....	8-1
SECTION IX	
Recommended Torque Settings .....	9-1
SECTION X	
Perama Supplement .....	10-1
SECTION XI	
Conversion Formulas .....	11-1