

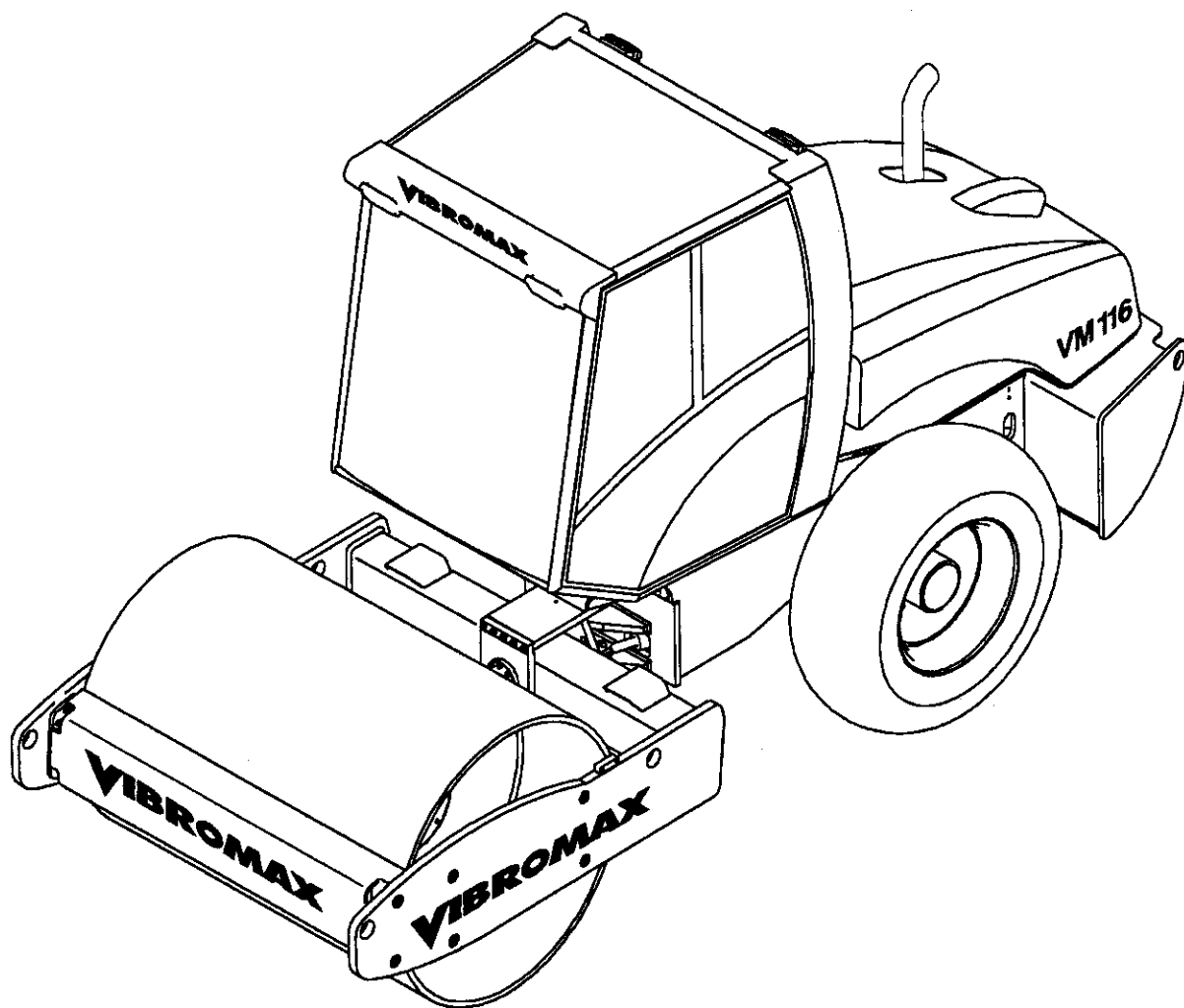


SINGLE DRUM ROLLER

SERVICE MANUAL SM96116

May 2004

Models VM 116 - 146 - 166 - 186





CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

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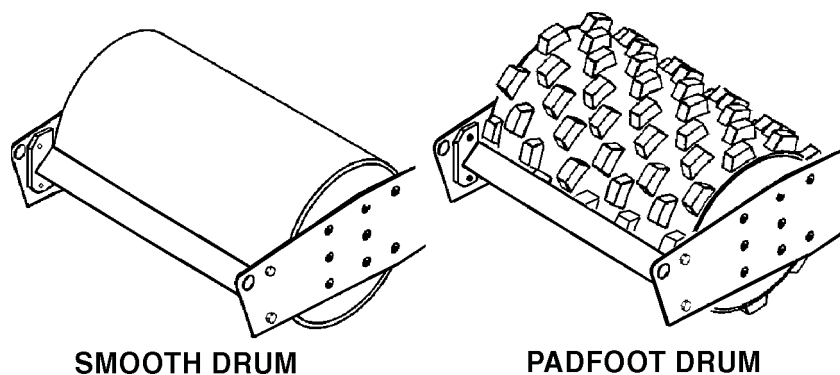
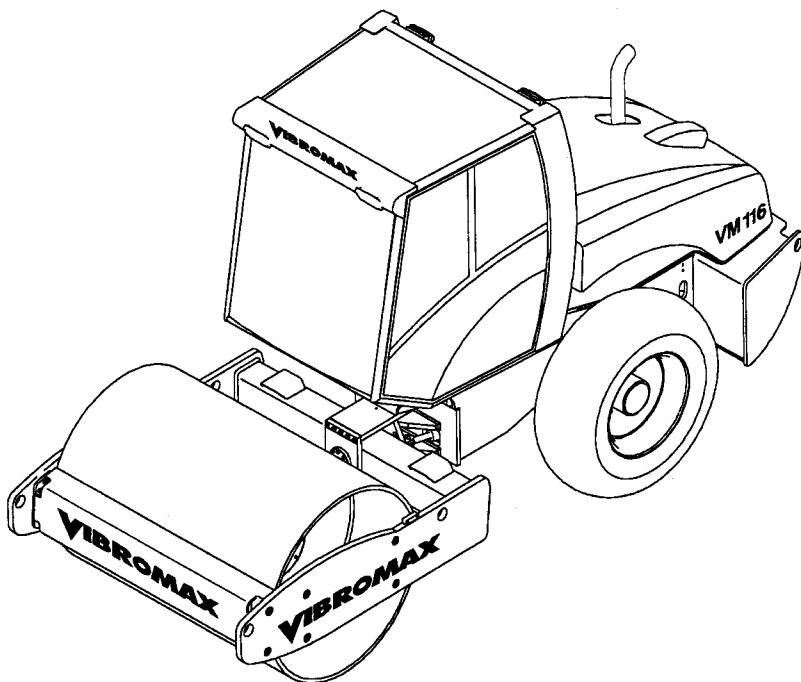
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SECTION ONE

GENERAL INFORMATION

MACHINE DESCRIPTION



SMOOTH DRUM

PADFOOT DRUM

This book introduces the new Vibromax 6 series single drum rollers. Included within the pages of the book are materials covering the Models VM116, VM146, VM166, and VM186.

The new rollers all use the Cummins 5.9 liter 6 cylinder engine. The engines are turbocharged with charge air cooling. All of the new engines are tuned to meet the latest EPA emissions standards.

A Sauer Sundstrand Series 90 variable displacement, axial piston hydrostatic pump, used for machine propulsion, is mounted to the flywheel end of the engine. It provides oil to a 2 speed drum drive motor and a 2 speed axle drive motor in a parallel path. The drum motor is mounted on the left side of the drum and drives through a planetary gearbox and is isolated from the drum by rubber buffers. The axle drive motor is attached directly to the rear axle which is a no-spin design.

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