

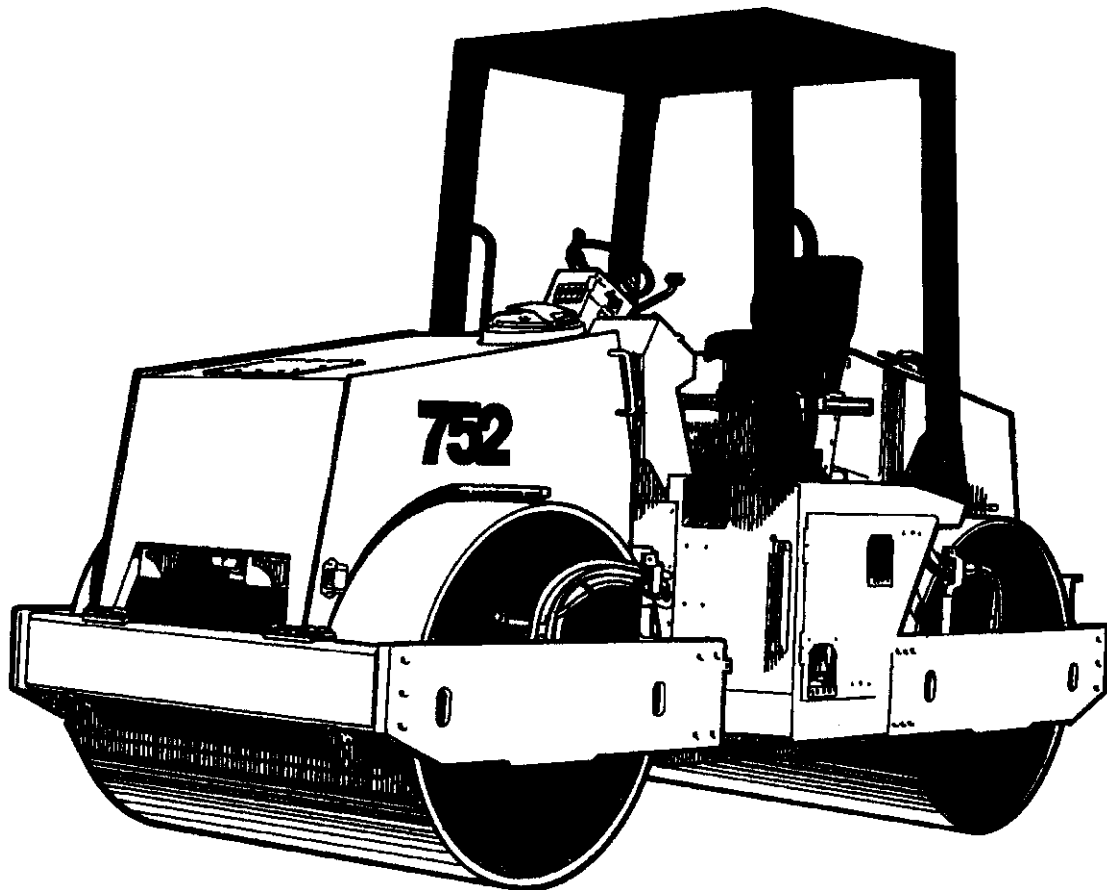


TANDEM DRUM ROLLER

SERVICE MANUAL SM70501

November 2000

Model 752



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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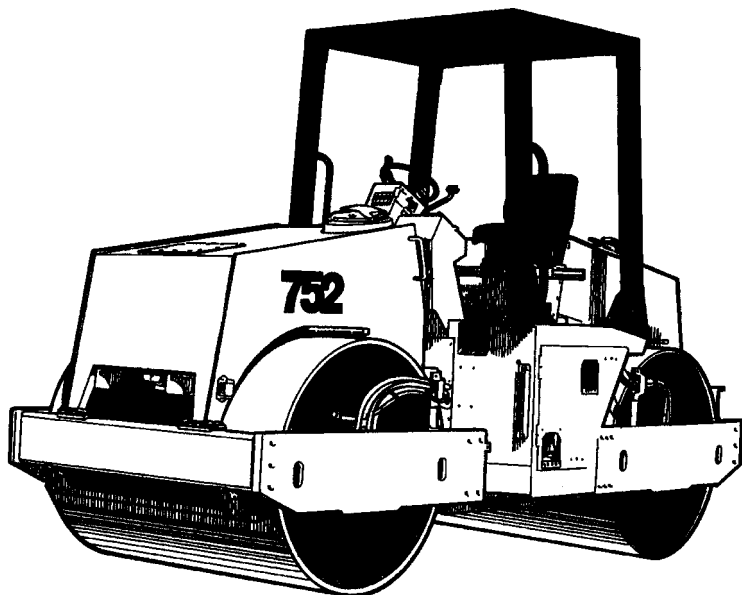
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SECTION ONE

GENERAL INFORMATION

MACHINE DESCRIPTION



In the fall of 1999 Vibromax introduced the new 752 series tandem drum vibratory roller. The 752 has a significant improvement in drive system. The operating weight is 18,728 lbs. (8,495 kg) while keeping the same 66 inch (1675mm) drum size.

The roller uses the Cummins 3.9 liter 4 cylinder engine. The new engine is tuned to meet the latest emissions standards.

A Mannesman Rexroth variable displacement, axial piston hydrostatic pump, used for machine propulsion, is mounted to the flywheel end of the engine. It provides oil to the front and rear drum drive motors in a parallel path. The Rexroth 2 speed drum drive motors are mounted on the left side of the drums, drive through L&S planetary gearboxes, and are isolated from the drum by rubber buffers. This arrangement is used in the heavy roller models with a great deal of success. These machines come standard with parking brakes at both the front drum and the rear drum. A spring applied-hydraulically released multi disc brake is part of the drum drive gearbox.

The vibration system on the 752 uses a Rexroth hydrostatic pump mounted directly behind the propulsion pump. It is similar in design to the propulsion pump. The vibratory pump supplies oil to a Rexroth hydrostatic motor mounted at the right side of the drum. The new model 752 operates at frequencies of 2000 or 3000 vibrations per minute. Vibratory operations can be done with front drum only, both drums together, or rear drum only.

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