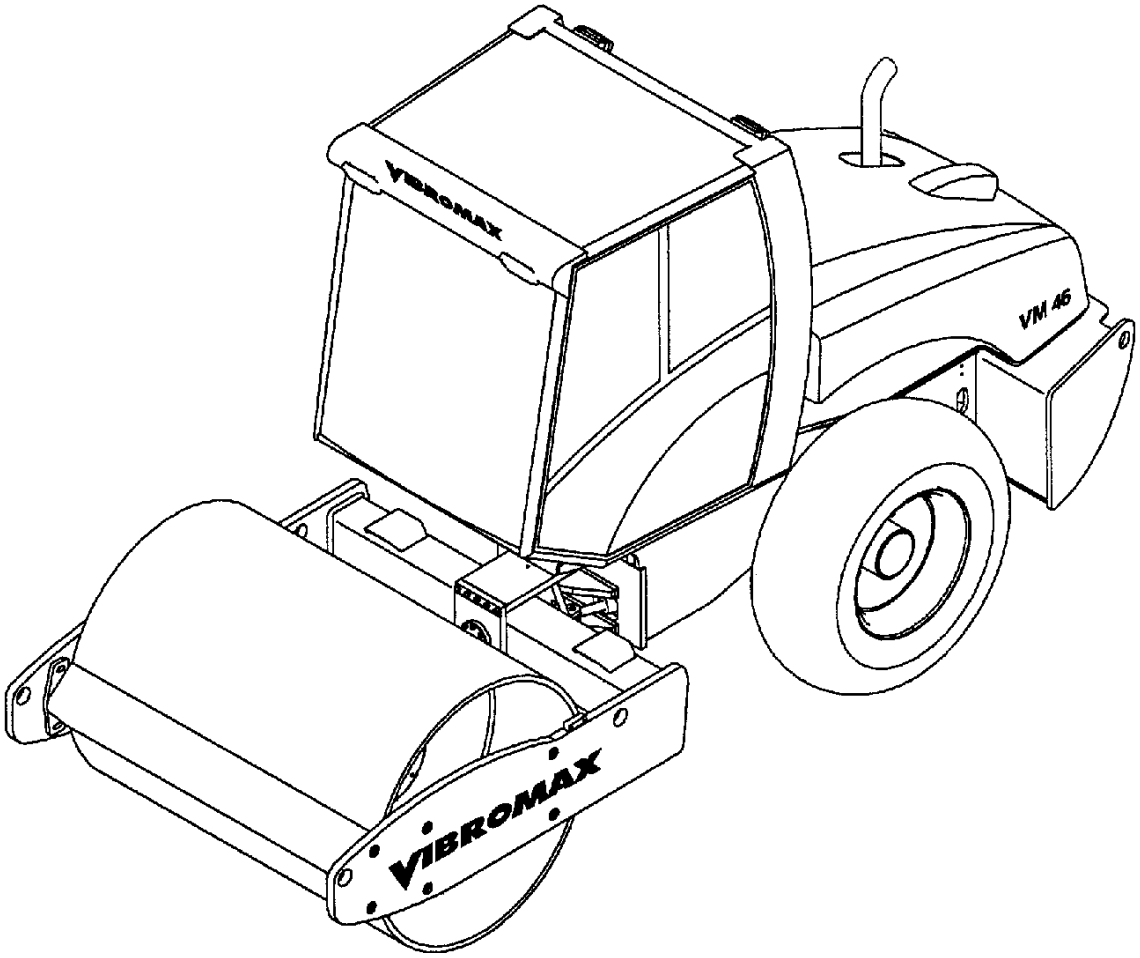
VIBROMAX

SINGLE DRUM ROLLER

SERVICE MANUAL SM86046

August 2004

Model VM 46



SECTION ONE

GENERAL INFORMATION

SECTION TWO

ENGINE

SECTION THREE

ELECTRICAL

SECTION FOUR

HYDRAULIC

SECTION FIVE

POWER TRAIN

SECTION SIX

PARKING BRAKE SYSTEM

SECTION SEVEN

VIBRATION SYSTEM

SECTION EIGHT

STEERING SYSTEM

SECTION NINE

CHASSIS

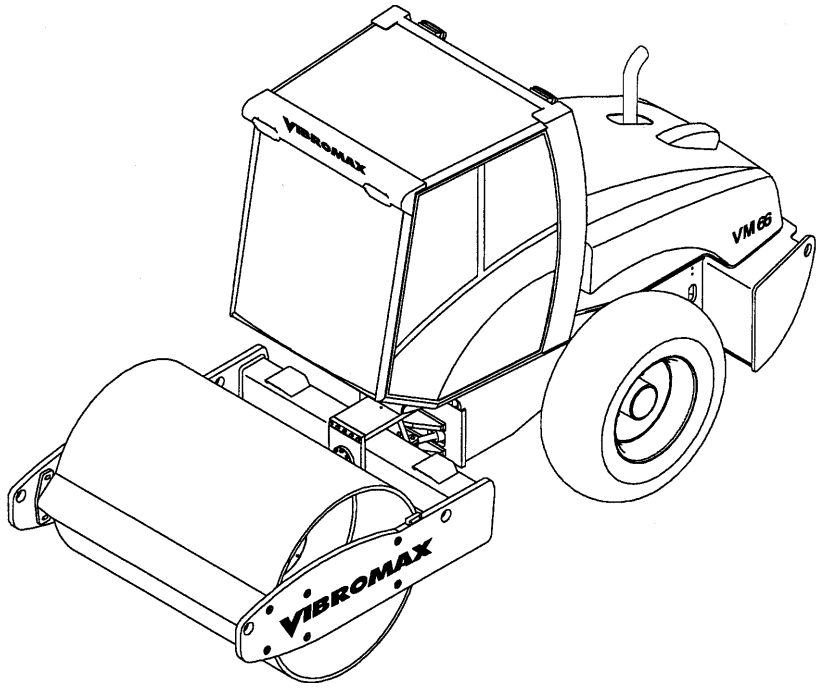
SECTION TEN

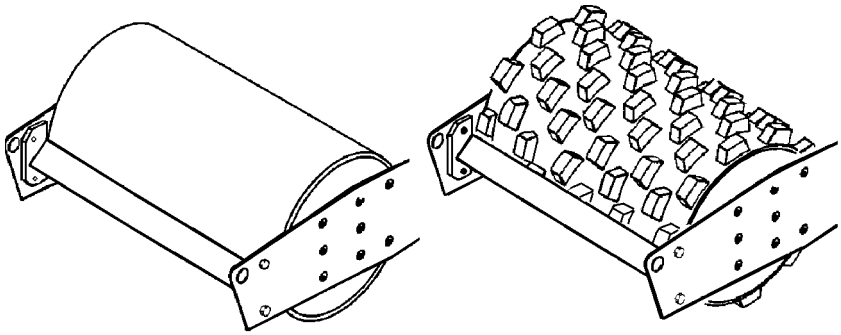
ATTACHMENTS

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 Model VM46.

The new roller uses the Cummins 3.3 liter 4 cylinder engine. The engine is tuned to meet the latest EPA 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 a Rexroth 2 speed drum drive motor and a 2 speed axle drive motor in a parallel path. The Rexroth drum motor is mounted on the left side of the drum, drives through a L&S planetary gearbox and is isolated from the drum by rubber buffers. This arrangement is used in the heavy roller models with a great deal of success. The axle drive motor is attached directly to the gearbox incorporated into the rear axle.

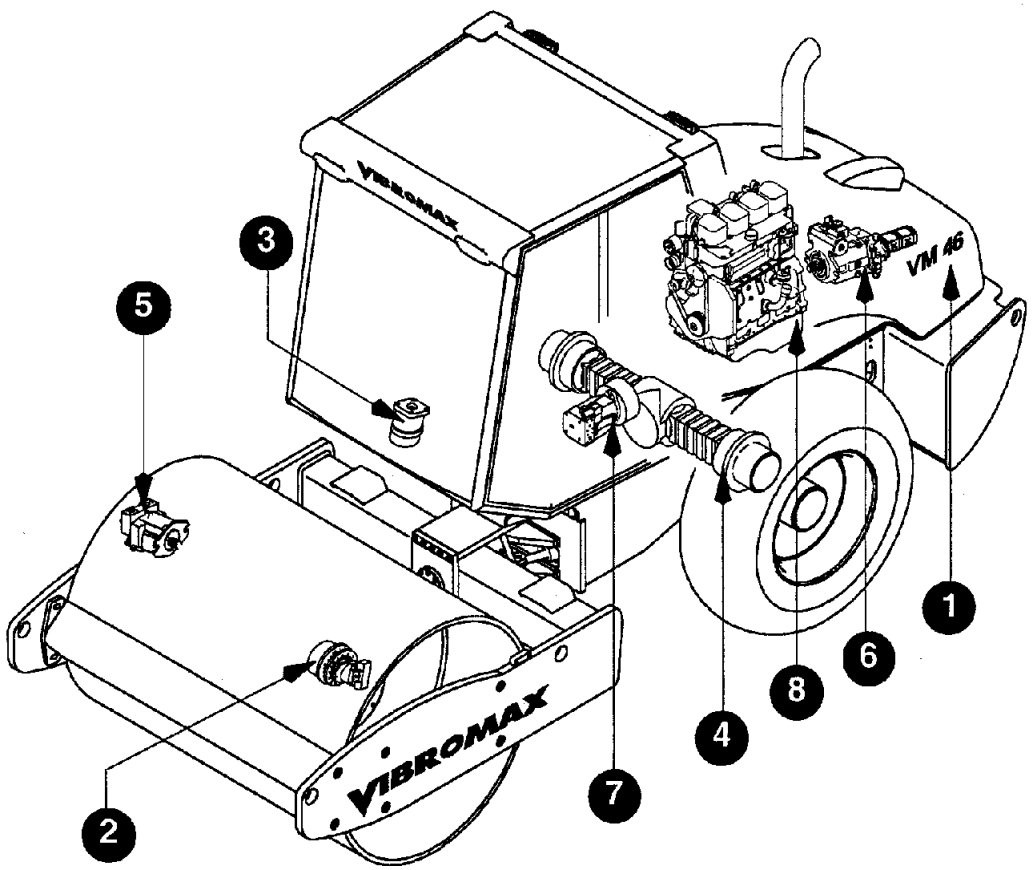
The vibration system on the VM46 uses a Rexroth gear pump mounted directly behind the propulsion pump. The vibratory pump supplies oil through the vibration control valve to a Rexroth hydrostatic motor mounted at the right side of the drum. This operates the exciter shaft at a single frequency of 32 Hz or 1920 vibrations per minute on both the smooth drum and pad foot versions.

A steering pump, mounted to the rear of the vibratory pump, provides the oil needed for steering. The steering pump also acts as the charge pump in the propulsion system. The steering pump draws oil from the reservoir, passes it through the steering control valve, through the inline hydraulic filter, and into the charge circuit.

This machine comes standard with parking brakes at both the front drum and the rear axle. A spring applied-hydraulically released multi disc brake is part of the drum drive motor gearbox. The axle uses a spring applied hydraulically released multiple disc brake at each axle shaft.

Pressure testing has been made easier by placing all the test ports at a centrally located test station under the engine hood.

The electrical system consists of a 12 volt battery, starter, alternator system, optional lighting and standard instrumentation.



SERIAL NUMBERS

1	Model / Serial Number	
2	Front Drum Drive Motor S/N	
3	Steering Unit S/N	
4	Axle S/N	
5	Vibratory Motor S/N	
6	Hydraulic Pumps S/N	
7	Axle Drive Motor S/N	
8	Engine S/N	

Our support email:

ebooklibonline@outlook.com