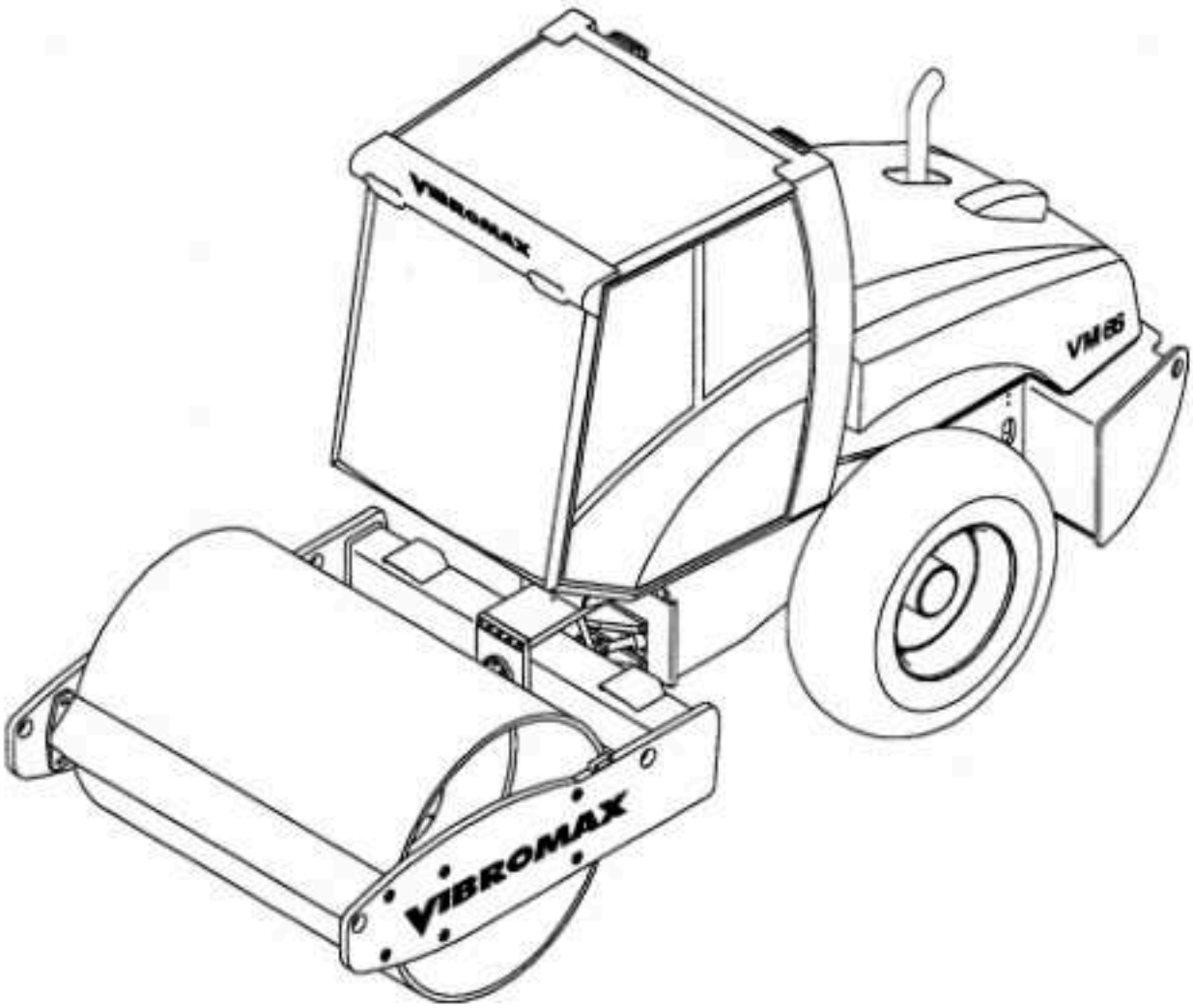
VIBROMAX

SINGLE DRUM ROLLER

SERVICE MANUAL SM86066

June 2004

Model VM 66



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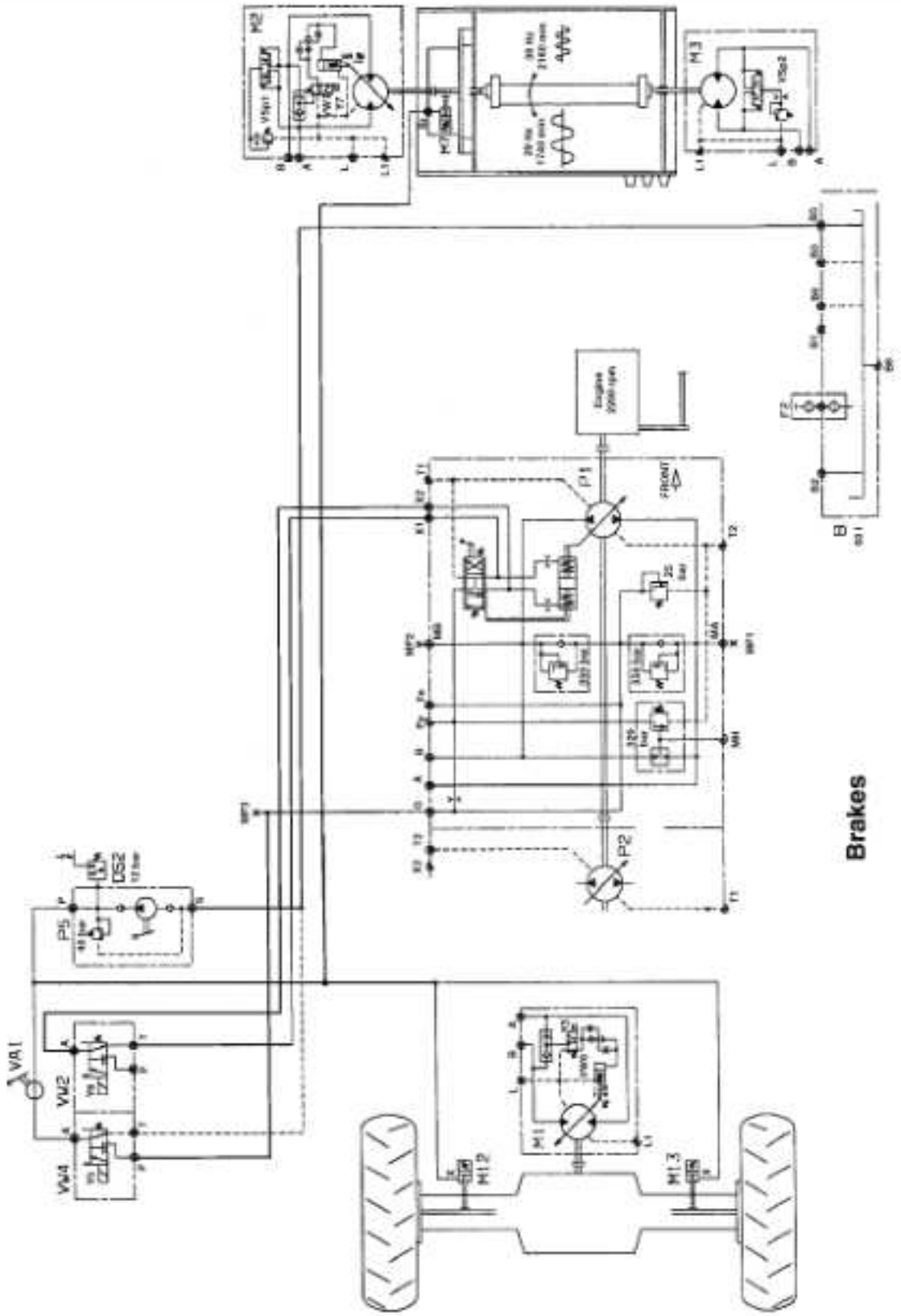
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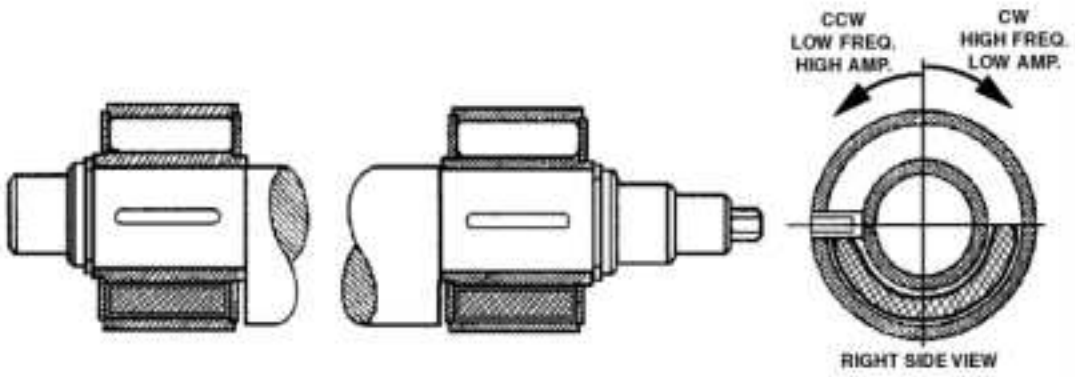
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PARKING BRAKE SCHEMATIC



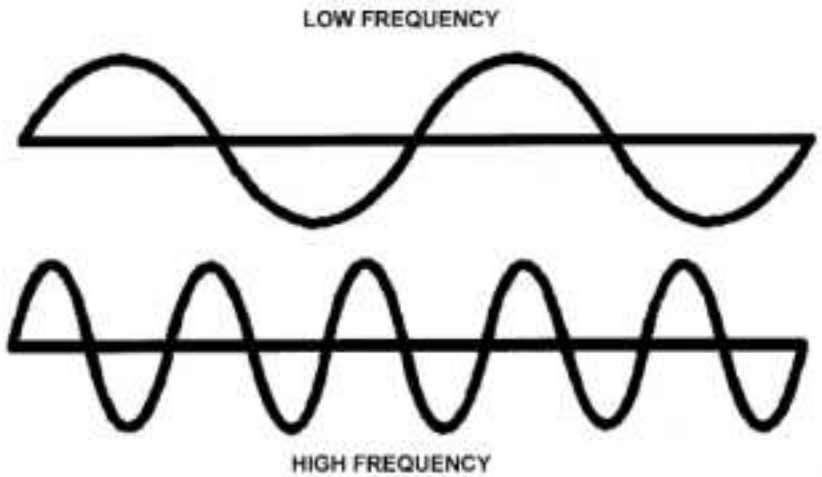
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This drawing illustrates a typical exciter shaft and the two overturning weights.

The shaft rotation can be faster in one direction and slower in the other direction. These two speeds create the two frequencies. The amplitude is changed by the use of overturning weights. In one direction the overturning weights are opposite the shaft counterweight and create a low amplitude vibration. When the shaft is rotated in the opposite direction the overturning weights are transferred to the same side as the shaft counterweight causing an increase in amplitude. This design allows for a LOW amplitude when the frequency is HIGH and a HIGH amplitude when the frequency is LOW.

The models which offer only one frequency do not reverse the direction of shaft rotation nor do they use the overturning weight design.



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EXCITER BEARING REMOVAL

1. Remove the drum from the machine and drain the exciter shaft oil.
2. Remove the drum drive motor, gearbox, and drive plate from the left side of the drum.
3. Stand the drum on its end with the vibration motor facing upward.

   Smooth drum = 3970 lbs (1800 kg) Padfoot drum = 3860 lbs (1750 kg.)
4. Remove the vibration motor and motor coupling.
5. Remove frame angle plates from buffer plate (#4).
6. Remove capscrews (#5) from the bearing flange (#8) and use two jacking screws to remove the housing from the drum. Install lifting eyes into the bolt holes in bearing flange (#3) and remove the assembly. **NOTE: The complete right side bearing cover assembly will be lifted out as a unit (note diagram). Care should be taken not to damage the exciter shaft.** The exciter bearing cone will come out with the flange.
7. Remove capscrews (#22) from bearing flange (#8) and separate the #3 bearing flange and bearings from the #8 bearing flange.
8. Remove snap ring #(11) and pull the exciter bearing cone #(10) with an internal puller out of flange (#8).
9. Remove snap ring (#14) from the bearing flange shaft (#3) and pull bearing (#15) off the shaft. Repeat these steps with snap ring (#16) and bearing (#17).
10. Remove the shaft seal (#18), ring (#19), and cover (#21) from the bearing flange shaft. If required the bearing shaft (#3) can now be unscrewed from buffer plate (#4).
11. Use the exciter shaft lifting device or a suitable lifting eye to secure and remove the exciter shaft from the drum.
12. Lay the drum back on its side and remove the exciter bearing housing from the left side of the drum.
13. Use the appropriate bearing pullers to remove the exciter bearing parts from the exciter shaft and housing.

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