



MP-25 vibrator force limiting instructions and spacer kit

Applicable to

20000077 VIBRATOR CONTROL BOX

20000078 VIBRATOR CONTROL BOX-RETRO FIT

Supplied prior to July 2010

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Section 1 - General Safety information

Danger

Follow these instructions very carefully, in order to avoid injury to yourself or others.

Electrically powered machine.

Always ensure that all power to the machine has been turned off and isolated before ANY maintenance / repair work is carried out on the machine.

Ensure that all guards are correctly fitted before starting or attempting to operate the machine.

Ensure that all fasteners are present and correctly fitted before attempting to start or operate the machine.

Ensure that the pump unit is correctly fastened to the front of the hopper unit of the machine, and free of damage before attempting to start or operate the machine.

The MP-25 pump unit can produce high pressures, high torques and can uses high voltages.

Authorized persons **ONLY** can use this machine, and must take care at all times.

Section 2 - Component Description

Function

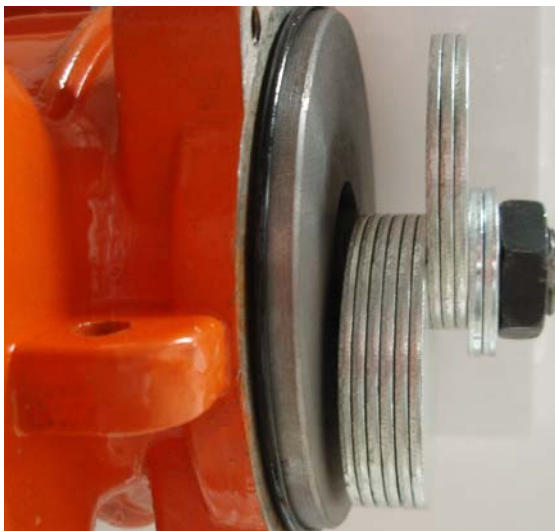
The vibrator is supplied already set to 33% of the maximum capable force setting, but is capable of being adjusted to produce more force, which if applied to the machine under varying conditions, can cause damage.

It has been noted that some users, in an attempt to increase feed rates, re-calibrate the vibrator to exert more force than originally supplied, causing, in some instances damage to the hopper and vibrator mounting plate.

This document and the two spacers provide the means to limit the force of the vibrator to a level that will not damage or harm the machine under normal operation conditions, and must be fitted to vibrator units, in either the factory supplied setting, or to units that may have been adjusted.

Unit illustrations

Vibrator as supplied in the original fitting or retro-fitting kit. (Both covers removed)

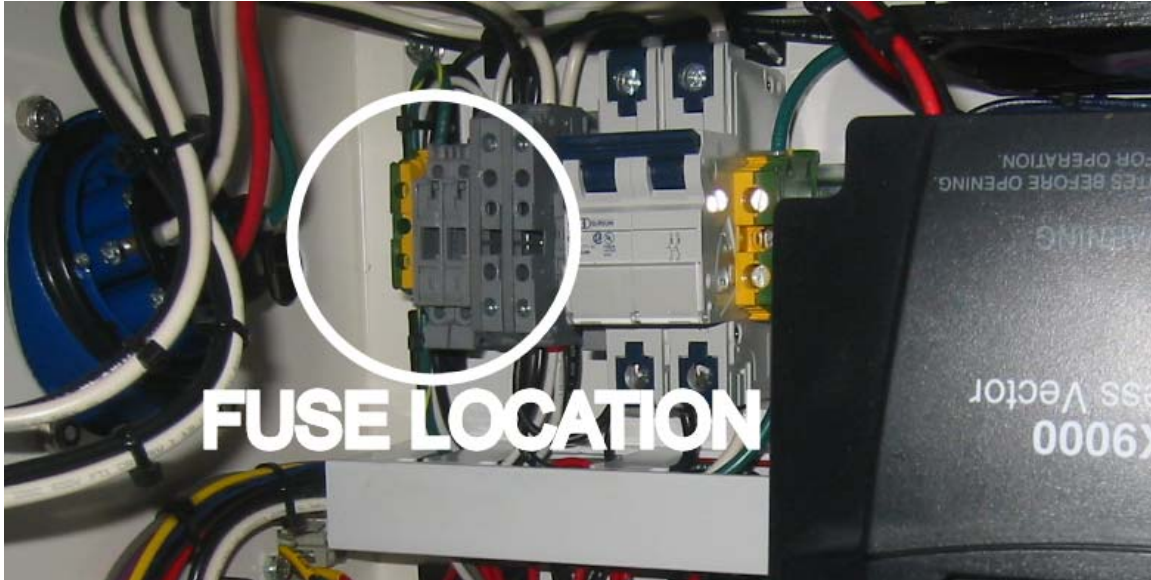


Section 3 –Force limitation

It is suggested that the vibrator be removed from the vibrator mounting plate, for ease of conversion, however the force limitation can be carried out while on the machine.

Safety.

Ensure that the power has been disconnected from the machine, and that the fuses have been removed from the holders inside the control box.



The exact location may vary, however the vibrator cable can be traced from its entry point into the control panel, then the individual cores to the two fuse locations. The fuses must be removed, by lifting the gray plastic tab, and hinging the flap upwards, to withdraw the fuses from the contacts, then to remove them from the plastic flap to prevent accidental re-connection.

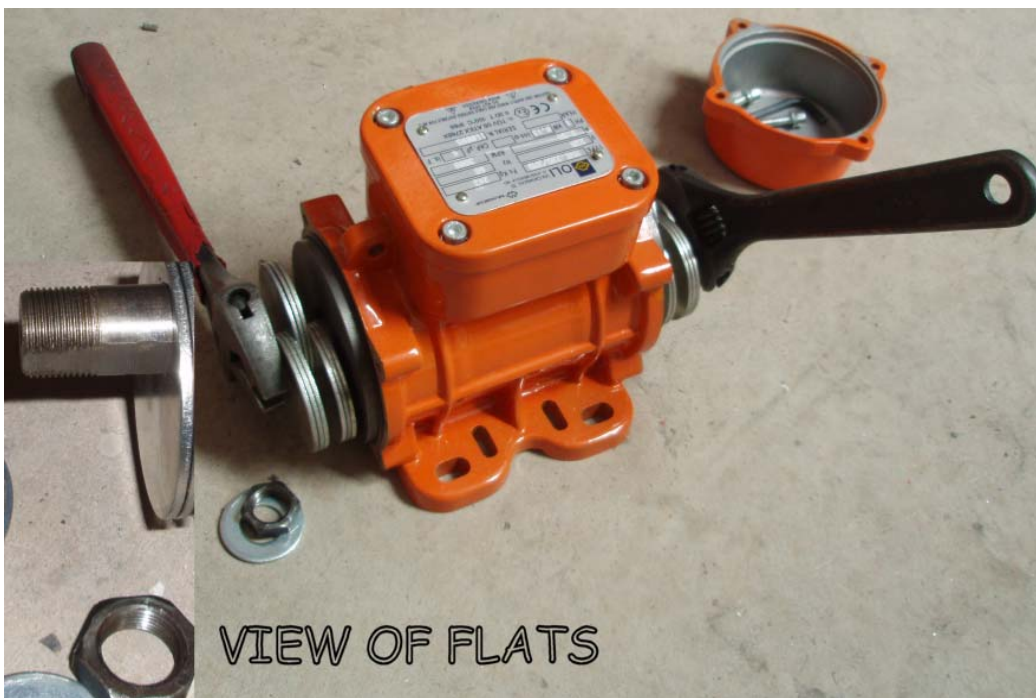
Weight removal

Using a suitable hex key, remove the two end covers and place the screws inside them for reuse later.

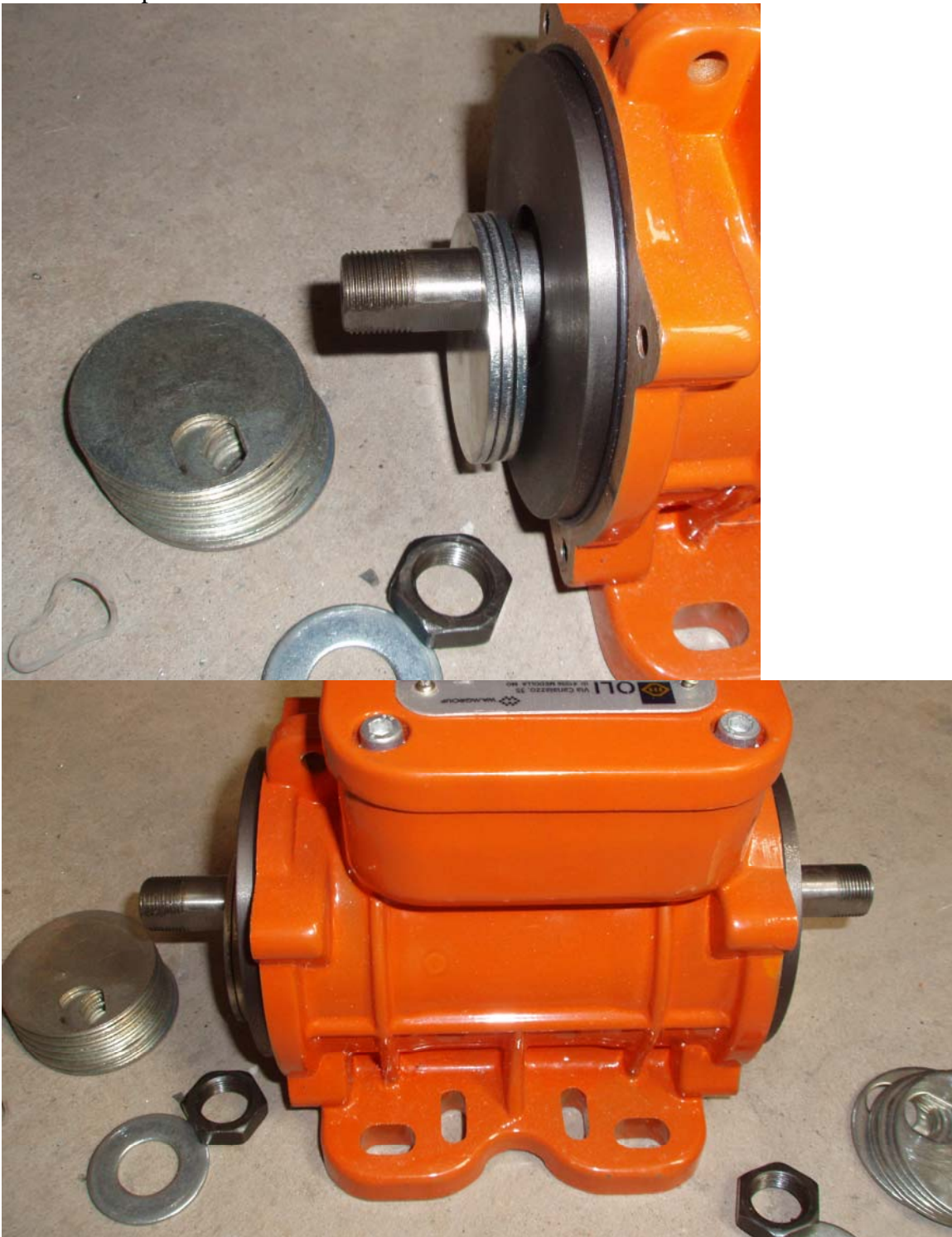
Using two suitable wrenches, apply sufficient force to loosen the nuts on the ends of the vibrator spindle.



Only one of the nuts will initially come loose, at which point, fully remove the nut and the washer, and select another wrench to suit the exposed “flats” on the shaft, and repeats the previous exercise of loosening the nuts, this will now loosen the remaining nut.



Once the nuts have been taken off, remove six (6) of the weighted discs from each end of the vibrator spindle

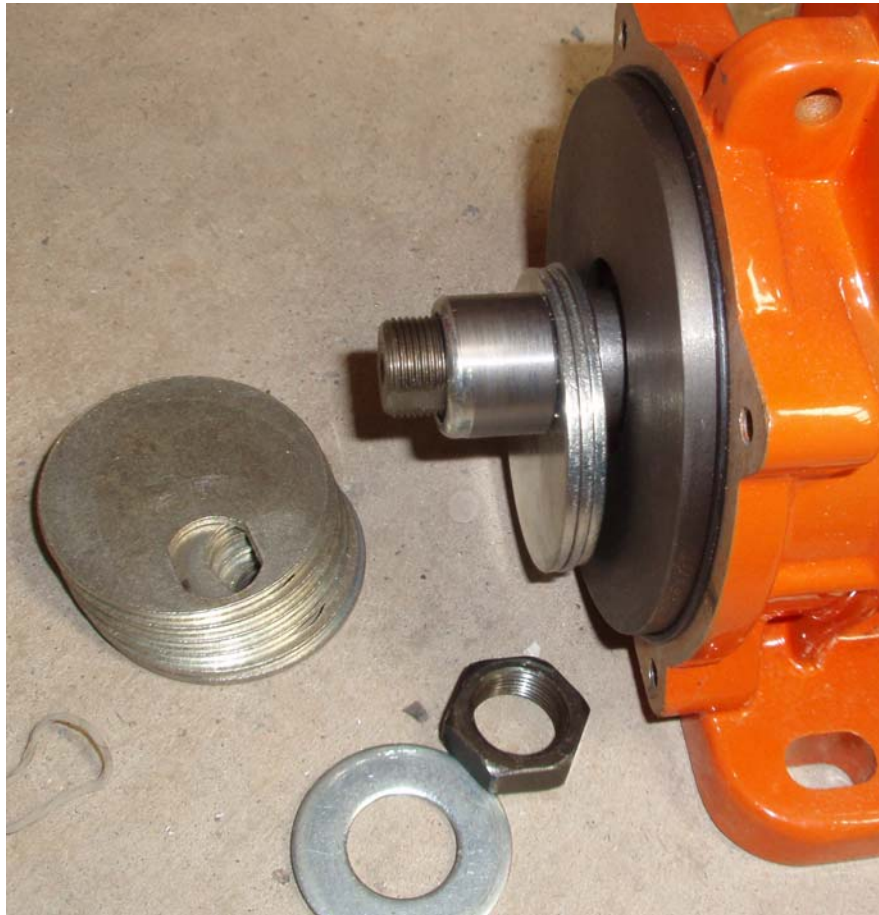


Spacer fitment

Using the two spacers provided



Fit, one of each of the tubular spacers over then of each vibrator spindle, until they push against the remaining 3 discs, at each end



Using two suitable wrenches, tighten fully the two nuts to fully retain the discs and the spacers onto the ends of the shaft



Replace the two end covers, in the correct orientation and fully retain using the socket head cap screws removed earlier.



Final checks

Check that you now have a total of twelve (12) weight discs and two (2) washers left over



Re-secure the vibrator to the vibrator mounting plate, using the original fasteners, and tighten until secure. Do not over tighten the fixing bolts or bolt shearing may occur.

Re-assemble the two fuses into the fuse holder flaps and close them back into the holders.

Ensure that the machine is safely sighted and that there are no other persons in the immediate vicinity of the machine.

Turn on the power and test run the vibrator only, by switching the vibrator control switch to “on”

