Easyflex™

Installation Instructions for Open Spring Isolators

KANWAL

Each size of isolator is identified by the colour coded spring.

Although these isolators have excellent finishes, they are not usually suitable for prolonged use in adverse outdoor locations or corrosive atmospheres without further protection. (Please consult our applications engineers about problem installation areas).

The isolators should be installed generally in accordance with the following procedure:

1. The structure beneath the machine should be constructed to form a rigid and reasonably level seating for each group of isolators.
2. The isolators should be examined to ensure they are of the correct size, and if appropriate, the positions for different sizes should be located in accordance with our recommendations or drawings.
3. After the isolators are in position the machine base should be levelled and supported just clear of the adjusting screw fixed nut, (See Figure 1), using jacks or blocks ensuring alignment between isolator screw and machine base fixing holes.

   At this stage isolator H.D. bolts can be loosely fitted to maintain isolator positions during final lowering of machine base, but it is important these do not strain the isolator in any direction. (H.D. bolts supplied by others).

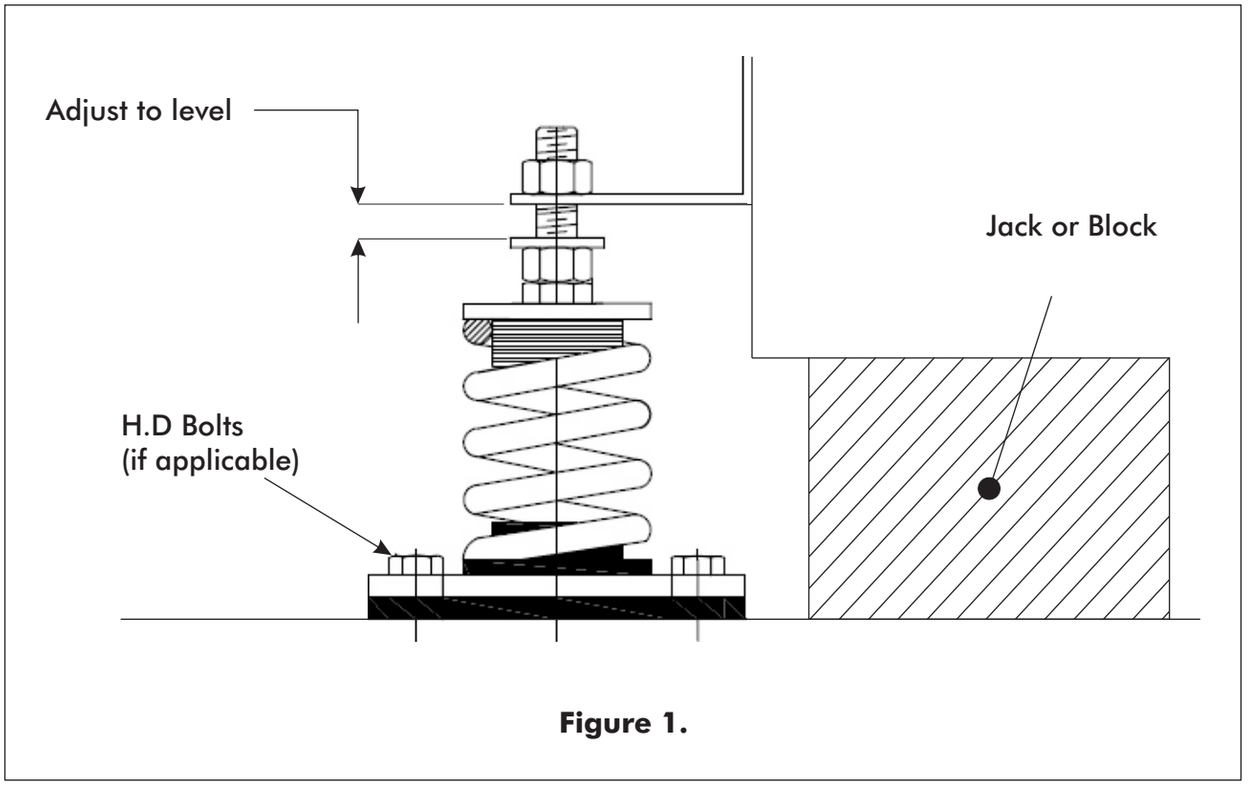

Figure 1.

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4. Isolator screws should then be wound up until contact with machine under base is made. After removal of blocks the machine base can be carefully lowered evenly across supported area, transferring full weight to the isolators. Further machine height adjustment can be achieved by relieving load on isolators and winding adjusting screw up or down, isolator H.D. bolts and top lock nuts should now be fully tightened. (See Figure 2) Ensure at least 3 full threads are left protruding below the upper plate.

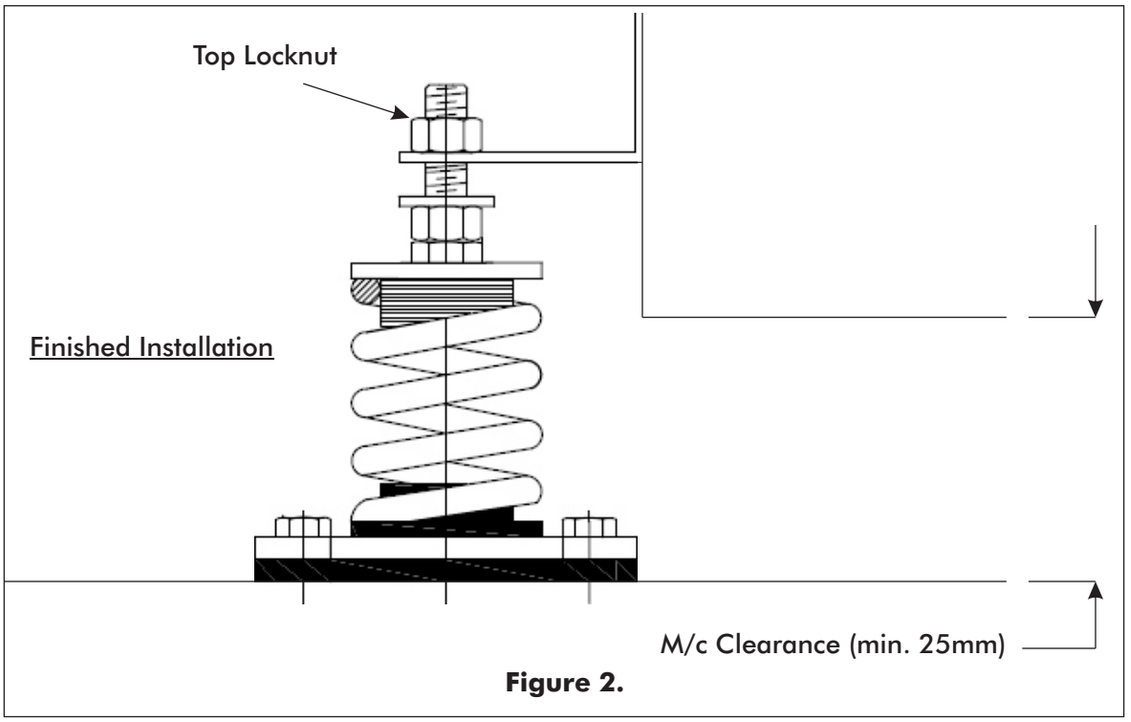

Figure 2.

5. Do not use open spring mounts for external applications without independent restraints.
6. For applications where control of transient motion is required, e.g. during start up and run down of large machines, additional mass and or viscous dampers may be necessary.
7. Ribbed rubber seating pads should always be used when the mounting is seated on concrete or other rough surfaces.
8. Note isolators are not designed to accommodate angular misalignment, excessive horizontal or tensile forces, and must not be used for tensile or shear loading applications.
9. No adjustment is possible when using Type OSB isolators but small variations e.g. 2-3 mm can be resolved with the use of thin steel or other rigid packing pieces between machine base and spring top washer.
10. The efficiency of an isolator system can be seriously impaired if the system is connected to rigid pipes, electrical conduits, ducts or shafts. It is essential that such external connections be as flexible as possible, not only to prevent transmission of vibration through the connections and allow the system freedom of movement, but also to avoid possible failure of the connections.

Please contact our Technical Department if you have any problems relating to installation or selection.