

Technical Bulletin M/L – 714

Installation Instructions for VSC-XVH4 Spring Isolators



Introduction

Thank you for using Vibro/Dynamics Isolators. We recommend that you completely study this information before you start the installation.

Leveling Instructions

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

1. Ideally, the Vibro/Dynamics Isolators should be set on a dry, flat and level concrete surface with a trowel or brushed finish. The surface does not have to be smooth, ground or polished, but there should not be any holes, joints, cracks, or bumps in the floor surface directly under the isolator. Remove all loose concrete, chips, oil, grease and water from the foundation surface that will support the isolator.
2. The Vibro/Dynamics 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 recommendations and drawings.
3. The bottom of the machine feet should be clean and flat in the area in contact with the top of the isolator to obtain a uniform bearing surface. In some cases, it may be necessary to scrape, file or grind the bottoms of the machine feet. After cleaning, inspect the machine legs and feet, and repair or replace them if they are broken or cracked.
4. After the Vibro/Dynamics Isolators are in position, the machine base should be rough leveled and aligned using jacks or steel blocks and shims at an elevation just above the top of the isolator. (See Figure 1)

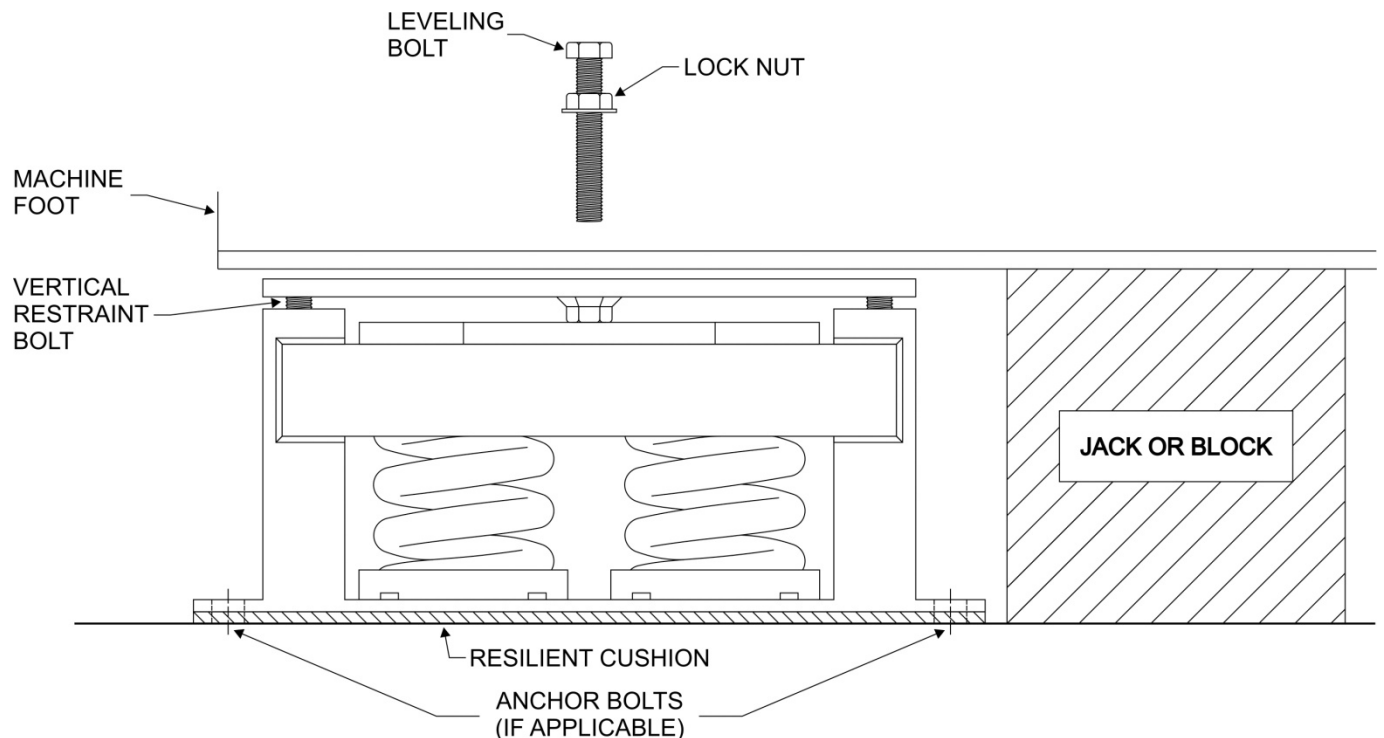


Figure 1

5. Spacer plates 1/4 - 3/8 inch thick (supplied with the isolators) should be inserted in between the Isolator's top and side plates. This will make it easier to adjust the spring height to the desired height and provide more stability when the machine's weight is transferred from the jacks/blocks to the Isolator. (See Figures 2 and 3)
6. At this stage, isolator anchor bolts can be loosely fitted to maintain isolator positions during final lowering of the machine base, but it is important these do not strain the isolator in any direction. (Anchor bolts supplied by customer).
7. The isolator leveling bolt should be inserted through the foot and into the isolator. Thread the bolt into the isolator by hand until it touches the top of the bearing plate.

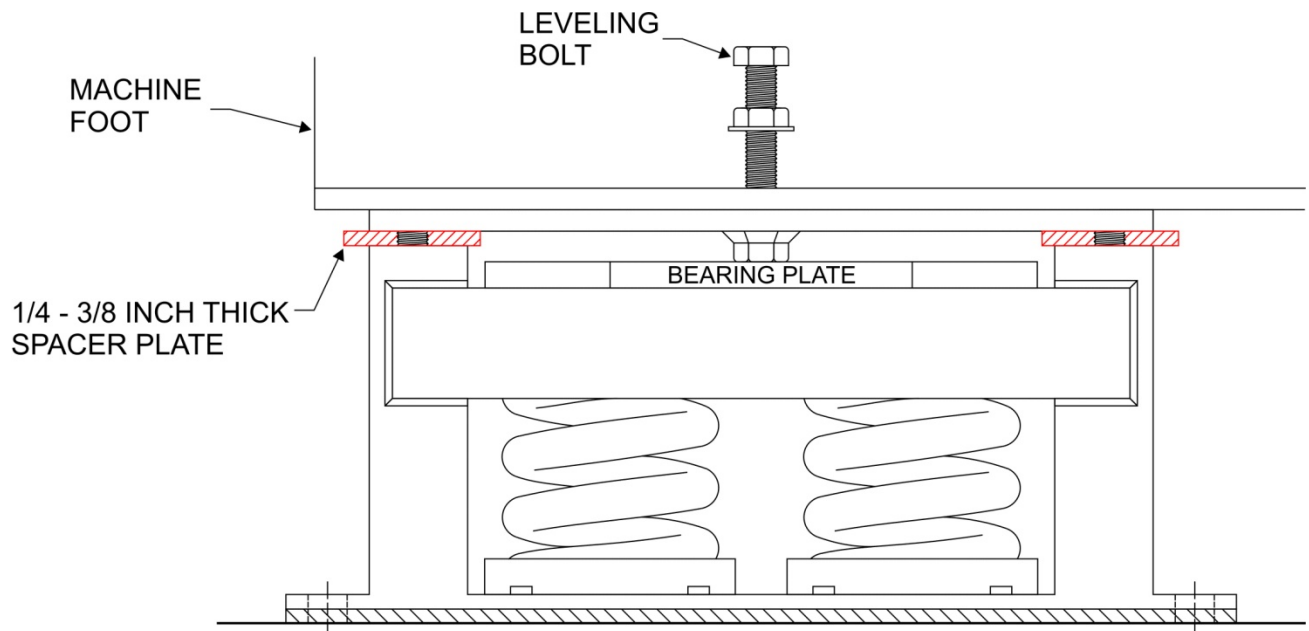


Figure 2

8. Remove jacks/blocks.

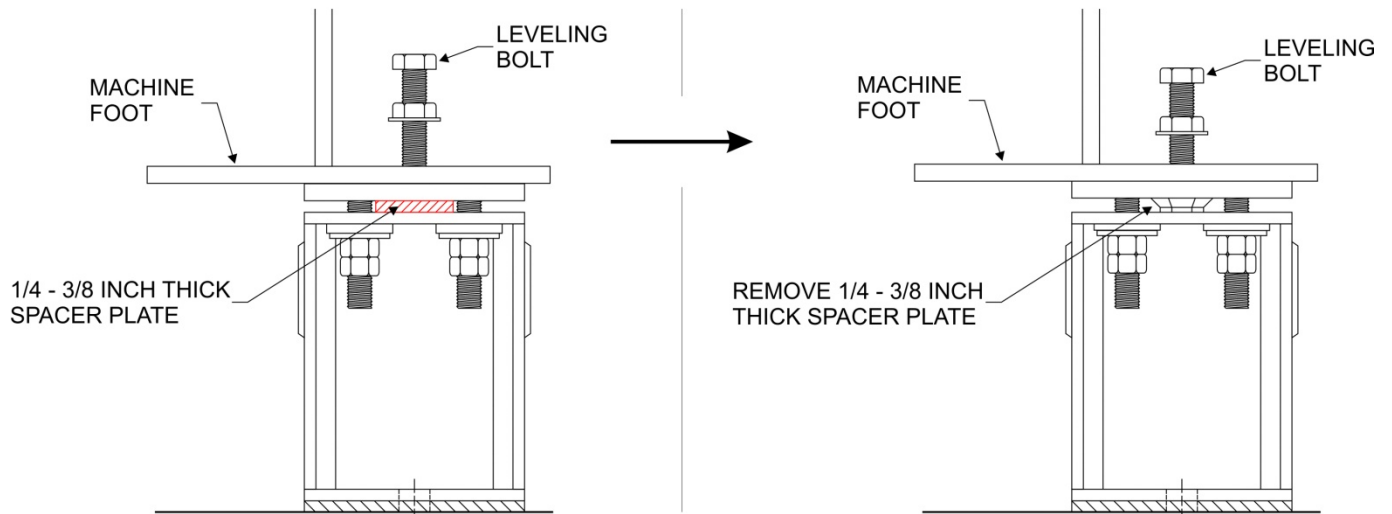


Figure 3

9. Continue adjusting the isolator upward until it lifts the machine high enough to remove the spacer plates. A jack may be required. (See Figure 3)
10. Adjust all restraint nuts to the "Ready for Loading" location. This allows the spring to deflect freely under the weight of the machine. (Review Figure 4 for clarification)
11. Additional leveling and elevation adjustments will likely be needed. Raise machine as evenly as possible and make adjustments using the leveling bolt.
12. Tighten isolator locknuts. Adjust the restraint nuts until a gap of 5/16"-3/8" between the steel washer and the bottom of the plate. The springs should supply all support, the restraining nuts are provided to limit motion beyond typical operating movement. (See Figure 4)

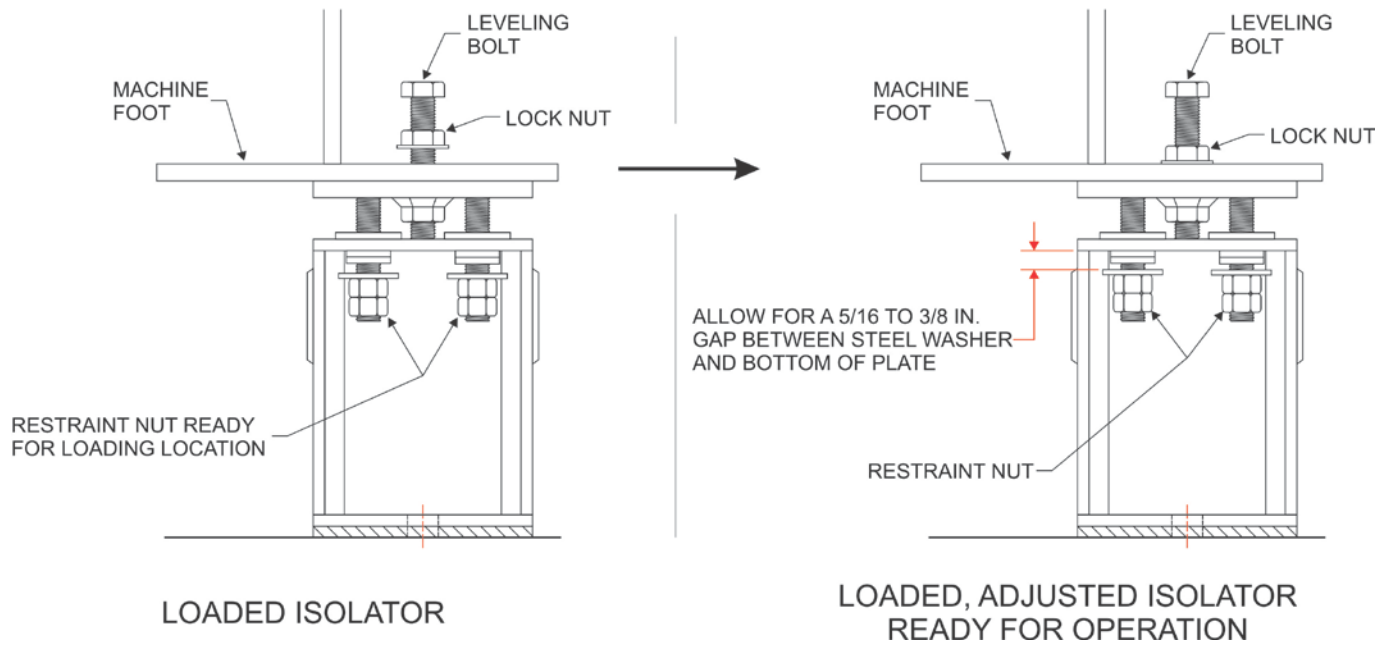


Figure 4

13. Installation and leveling is complete.

For further information, contact:

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