

TECHNICAL DATA SHEET

DS 095

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QCF 56 Issue 3

PAGE

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ISSUE

1

DATE

3 August 2011

APPROVED

G.E.K

TITLE.

Installation Instructions for Open Spring Isolators and Vertical Stop Units.

Details of Open Spring Isolators as Leaflet no. PL006 and PL024.
Each size of isolator is identified by the colour coded spring.

The isolators and vertical stop units (VSU) should be installed generally in accordance with the following procedure:

1. The structure beneath the machine should be constructed to form a rigid level seating either smooth floated or preferably levelled steel supports. We would recommend a supporting structure finish of at least ± 3 mm under a one metre straight edge.
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 and vertical stop unit bases are in position, the machine base should be levelled and supported just clear of the Open Spring adjusting screw fixed nut, (See Figure 1), using jacks or blocks ensuring alignment between isolator / VSU screws and machine base fixing holes.
4. At this stage isolator / VSU H.D. bolts can be loosely fitted to maintain positioning 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).

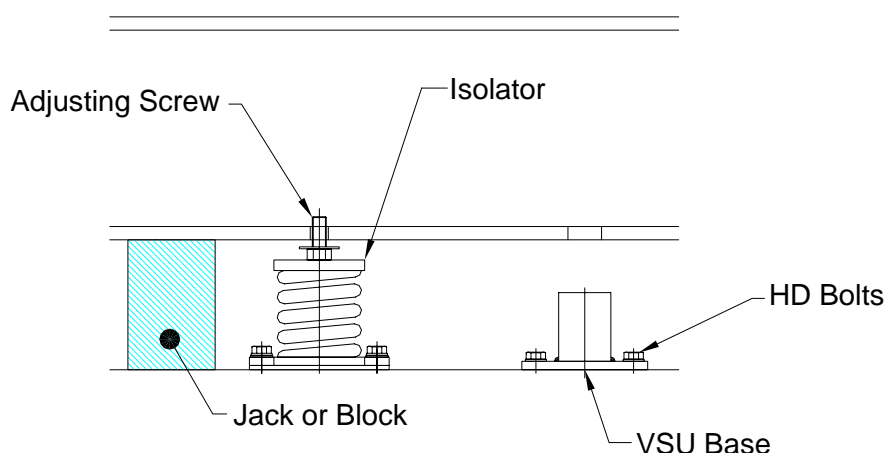


Figure 1

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- 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.

Please note that the maximum adjustment available is related to the height of the VSU with all shims in place. Please refer to Christie & Grey drawings relating to the installation to calculate the adjustment available.

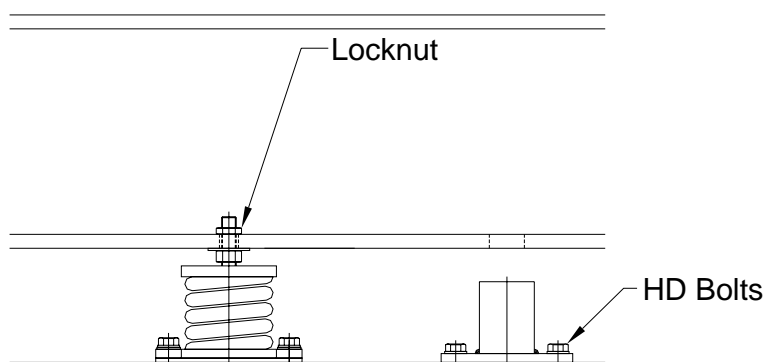


Figure 2

- Fully tighten VSU H.D bolts and position lower shock washer on to VSU base, utilising the shims provided (10 mm maximum adjustment) to raise the washer and produce a 4 mm gap between washer and machine base. Insert supplied upper fixing through upper shock washer, distance tube and rubber sleeve. Insert upper fixing, tube and sleeve through machine base and torque to 300 NM (See Figure 3). The upper 4 mm gap is set by the length of the distance tube and therefore will be correct.
- Note isolators are not designed to accommodate angular misalignment.

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Finished Installation

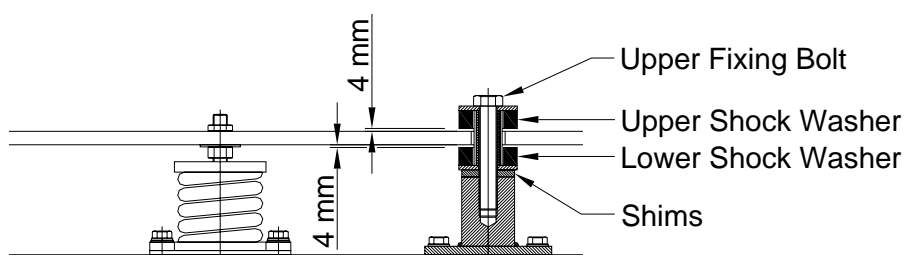


Figure 3

8. 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 at the address below if you have any problems relating to installation or selection.



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