

LANTEC		Service Bulletin		40070	
Mounting Procedure - LW Winches				Page 1 of 2	
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Product Scope:

LW Series Winches

Preamble:

LANTEC LW Series Winches must be mounted in such a way that the alignment of internal operating components is preserved under all load conditions. Bearing and gear components are sensitive to misalignment which can dramatically shorten the operating life of the hoist. Therefore the foundation structure must be sound and the hoist mounted such that alignment is not disturbed.

Refer to the Manual for each hoist model for additional information regarding installation of the hoist.

Qualifications:

LANTEC recommends that the mounting and installation of the hoist be carried out by a qualified tradesperson.

Foundation:

It is important to note that LANTEC machines its hoist base mounting pads so they are flat and planar (all on the same plane).

The hoist must be installed onto a foundation which is within the tolerances specified. If the foundation is not completely flat and planar then a shimming or grouting process must be used to ensure that the hoist base is not twisted during installation.

Misalignment:

Misalignment can be caused by a combination of two elements; forced misalignment by inaccurate mounting procedures, and misalignment caused by distortion or flexing of the foundation under load. Both elements must be accounted for when determining a suitable mounting for the hoist.

The total allowable operating misalignment, considering all sources, is stated as the distance that one mounting pad is out of plane with the other three mounting pads. The maximum allowable distance is dependent upon the dimension between mounting holes at the end of the hoist.

The maximum permitted misalignment is 0.001" per inch of distance from mounting hole center to mounting hole center at the end of the hoist. Example: If the distance from mounting hole center to mounting hole center at the end of the hoist is 21.00" then the maximum misalignment permitted is 0.021".

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Mounting Procedure:

1. Sling the hoist by the drum.

NOTE: The hoist base is not structurally rigid. The hoist base could twist under its own weight, thus it is important to support the weight of the hoist during installation by slinging the drum.

2. Carefully lower the hoist until three of the four hoist base pads just contact the foundation.
3. Install mounting bolts, nuts, and washers, **Grade 5 minimum**, (Grade 8 preferred) on the three pads in contact with the foundation and torque them to $\frac{1}{4}$ of their correct value.

NOTE: Hardened flat washers should be used under the bolt heads and nuts; LANTEC does NOT recommend the use of lockwashers.

4. Measure the gap between the fourth pad and the foundation with a feeler gauge and shim the gap.
5. Once the correct shims are in place, the remaining bolt(s) can be installed.
6. **Torque all of the bolts and nuts to their correct value.**

DO NOT WELD TO ANY PART OF THE HOIST

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