

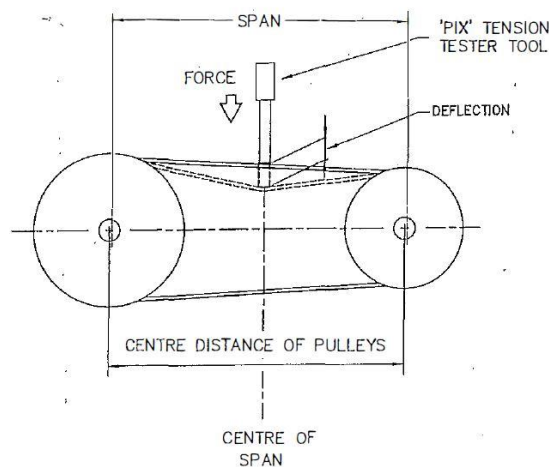
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APPLIC. NOTICE GENERAL LIST

Issue No.: 01/03  
Date: 26<sup>th</sup> Feb 2003  
From: T King/K Edwards

Subject: SPA & XPA Belt Tensioning  
Units: ISD480-920, OPA500-920, IJD, CC, PA

It has been drawn to our attention that a number of contractors are not familiar with the correct method of drive belt tensioning. The following procedure is a simplified version of the recommendations made to us by our belt supplier.

1. Measure the span length of the belt in mm (refer sketch).
2. Measure and mark the centre of the span on the belt.
3. Calculate the required deflection at the rate of 1.5mm per 100mm of span.
4. Adjust the belt tension until correct deflection is reached at the centre of the belt span using 25kN (2.5 kg) force applied perpendicular to the belt. A belt tension Tester Tool such as "PIX" is recommended for this purpose, alternatively a spring scale.



Belt tension should be checked and adjusted after 20-30 minutes run time at start up. Belt tension should be checked regularly at 3 to 6 month intervals as part of a maintenance schedule.

Note: The centre distance between the pulley shafts could be substituted in lieu of the span, the difference would be negligible.

The main causes of short belt life and extreme wear are : incorrect alignment of pulleys and belts (refer Application Notice 04/02), fan and motor shafts out of parallel, and incorrect belt tensioning.