

## WI – MINREP 9 – BELT TENSION GUIDE

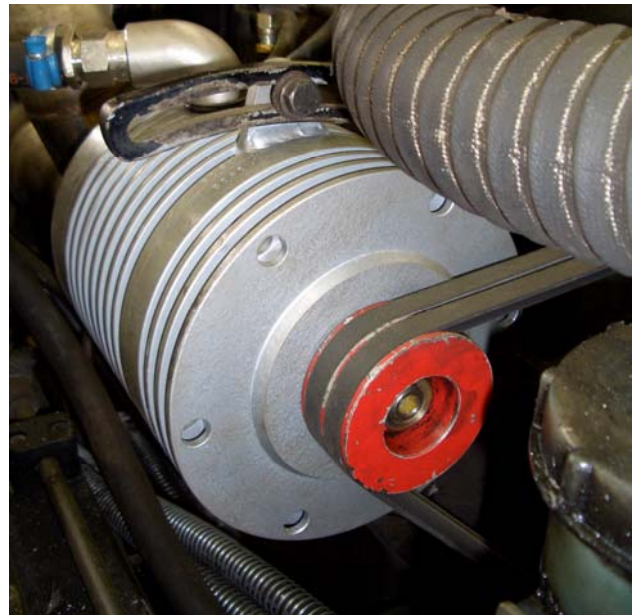
**WARNING:** THIS PROCEDURE ONLY TO BE CARRIED OUT BY PERSONNEL WHO HAVE READ AND UNDERSTOOD THIS PROCEDURE.

Firstly ensure that the pulley has been correctly fitted to the alternator in accordance with WI-MINREP 5 – Pulley Change Out With Flameproof Gland instruction.

When fitting an alternator to a machine which requires the use of a belt drive, the following steps shall be followed to ensure correct belt tension.

- Ensure the alternator is correctly in position where it is to be located.
- Place the belt around the drive on the alternator and the appropriate drive pulleys.
- Align the pulley with a small amount of tension to ensure the belt runs in a true concentric way.
- Using the top adjuster on the top of the alternator ensure that the correct tension is placed on the belt. This should only allow a small amount of play in the belt approx 10mm deflection and the user should be able to twist the belt in its longest centre approximately 90° to itself.
- Dual pulley systems usually require less tension than single pulley drives.
- Following this, ensure correct alignment and tighten. If not follow the steps above again and realign.
- Maximum tension on the pulley should never exceed 2400 Newton Force or 250kg load.

Most importantly ensure that the belt is not over tightened and is not misaligned as this places extra stresses on the front bearing, gland and bush and causes premature failure. This in turn will void any warranty.



**CAUTION:- EXCESSIVE TENSION CAN PHYSICALLY DEFLECT THE ROTOR SHAFT ENOUGH TO ALLOW THE GLAND TO PICKUP ON THE BUSH.**

Following these simple steps will help increase life cycles and reduce failure rates.

For further information on correct fitting please contact Mining Repairs.

Note: Mining Repairs accepts no responsibility for loose, over tightened or incorrectly aligned belts. It is the tradesman's duty to ensure correct fitment and alignment. Mining Repairs reserves the right to deny warranty claims unless all parts of its Warranty agreement is adhered to.

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