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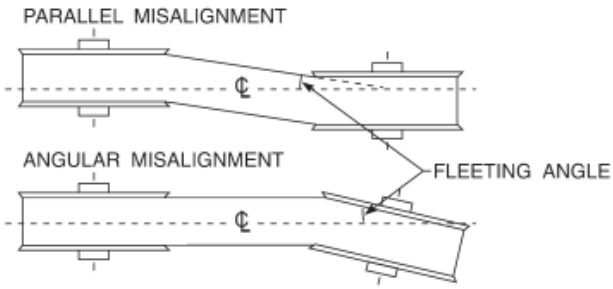
(ALLSAW 170)

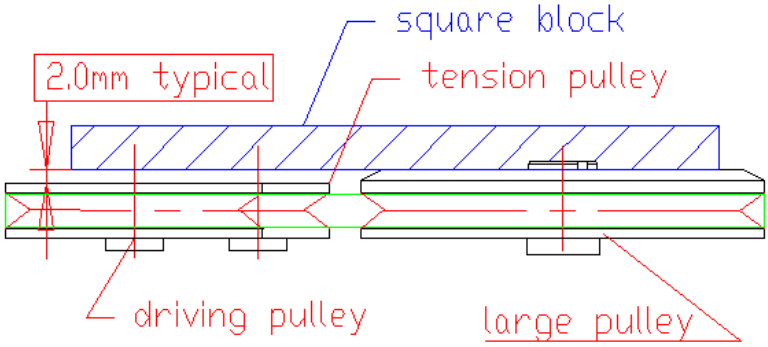
ALLSAW AS170 BELT ALIGNMENT LEADING TO PREMATURE FAILURE

R&D Approval & Date:	
Production Approval & Date:	
Director Approval & Date:	

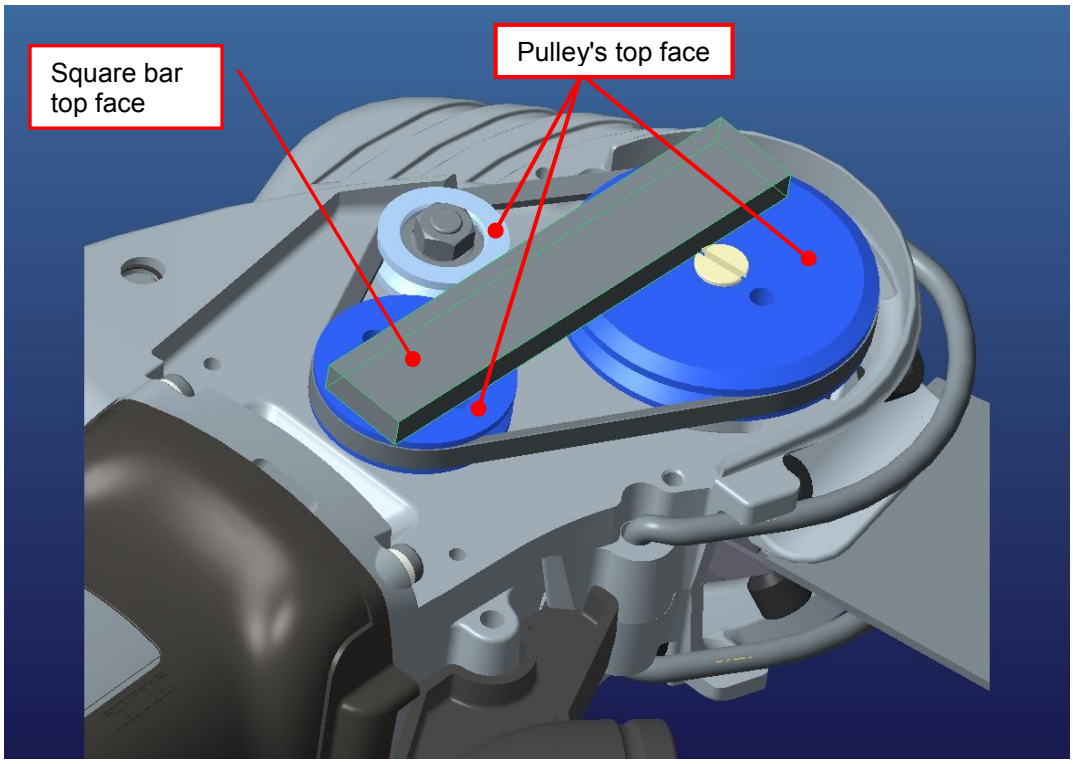
Premature wear of the drive belt may be caused by a misaligned belt. For correct belt alignment, the total pulley's misalignment should not exceed 1/4° fleeting angle (as shown below).



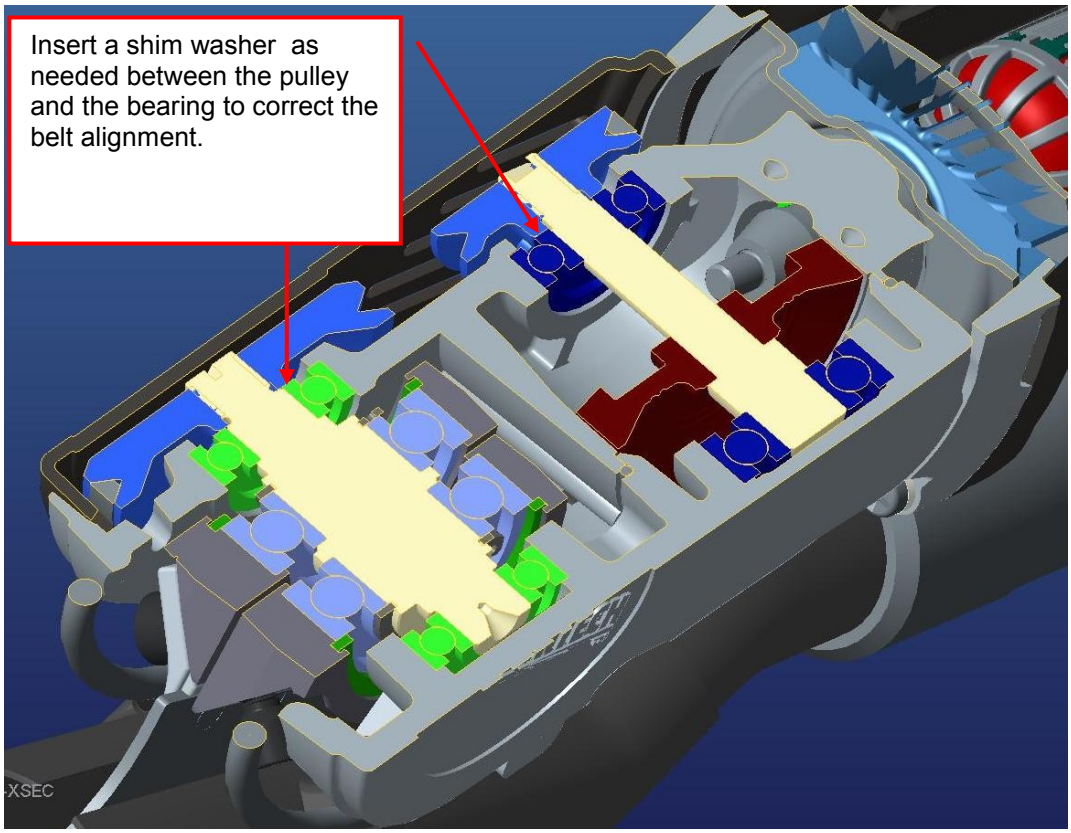
For AS170 the top faces of the pulleys can be used as a reference for belt alignment. The distance from the top face of the large (driven) pulley to the other two pulleys should be 2.0 +/- 0.2mm.



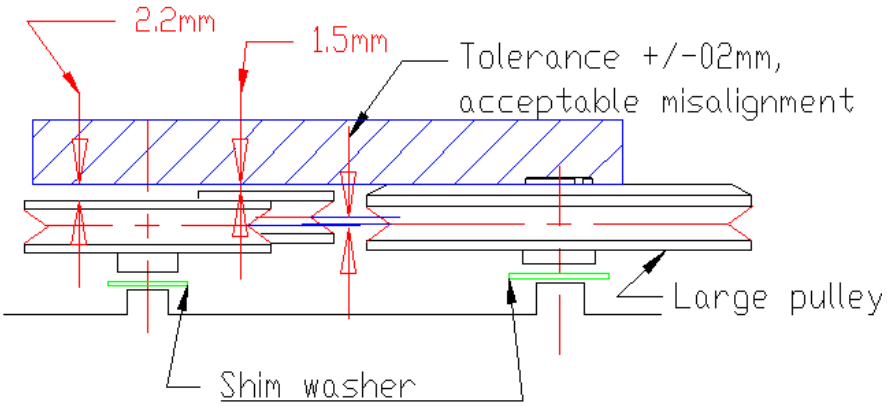
1. To check the pulley alignment first tightened the tension pulley to the housing then set an accurate square steel bar on the top face of the large pulley and secure it in the position (use clamp or a magnet).
2. Measure the distance from the top of the square bar to the driving and tension pulleys top face using digital Vernier Caliper. The distance measured should be the thickness of the bar plus 2.0mm.



In order to correct all pulleys alignment, insert a shim washers behind the driving or/and the driven pulleys as needed. Ensure correct diameter washers are used for each shaft.
When alignment is achieved check that the belt cover does not interfere with the pulleys.

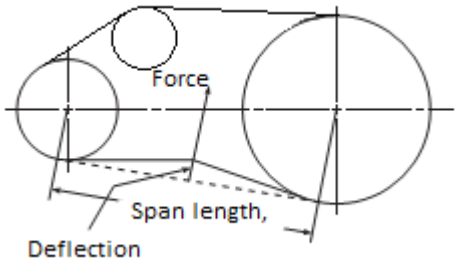


Example: *If the gap between the large pulley and the tension pulley is 1.5mm and between the large and the driving pulley is 2.2mm, insert a 0.5mm under the large and 0.7mm shim washer under the driving pulley for perfect alignment.*



Other possible causes for belt wear and breakage:

1. Loose belt or excessive belt tension - Belt tension preventing the belt slippage is required for normal operation. The belt deflection of 0.62 - 1.0mm (under force of 3.5-5.2N) on the return side is going to provide correct belt tension. As a general rule the belt should feel tight. Check and re-tension the belt if needed after first hour initial run.
2. Excessive belt slippering due to blades jammed during cutting process - Forcing the saw excessively against the material and causing the blades to stop, will make the belt slip and lead to premature wear and breakage.



This Service Bulletin not valid unless all required approval initials are recorded above.