



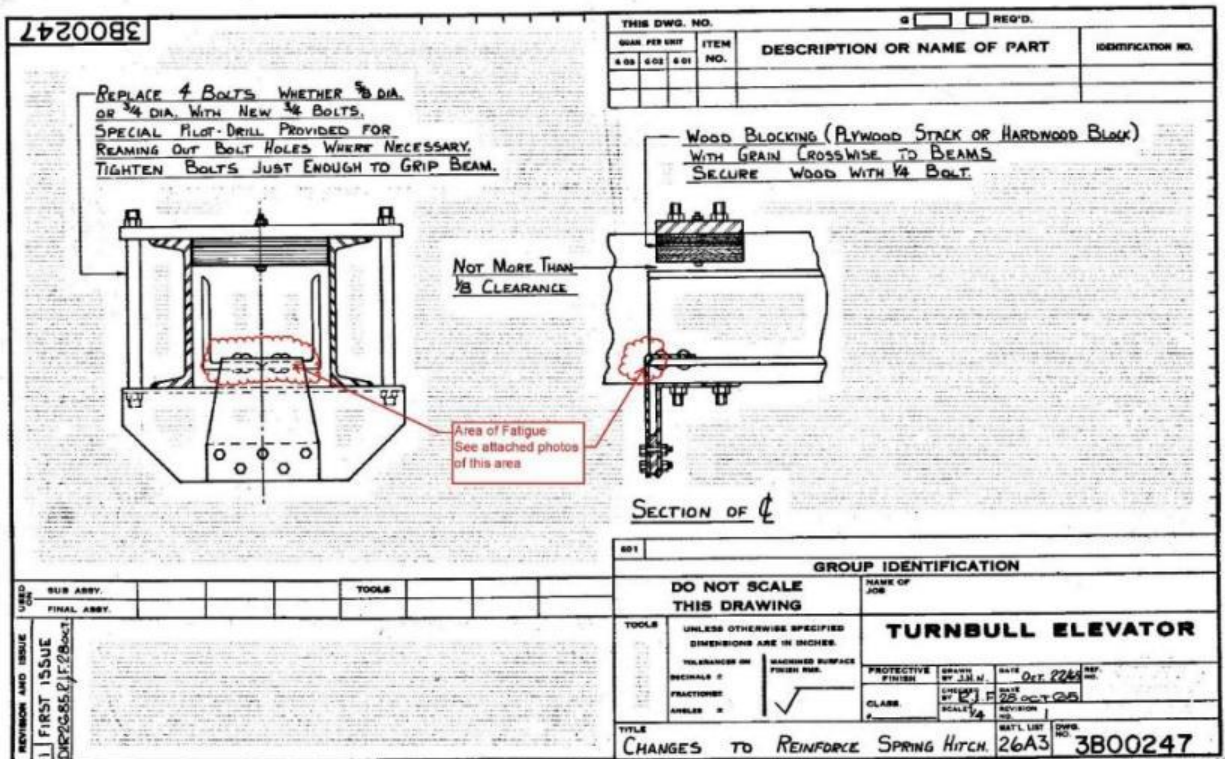
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| <b>Elevating and Amusement Devices<br/>Safety Program</b> | Ref. No.:<br>281 / 19      |
| <b>ADVISORY</b>   | Date:<br>September 5, 2019 |

**Subject:** Turnbull Spring Hitch  
**Distribution:** TSSA website

This advisory is intended to bring awareness to a method of connecting hoist ropes to the crosshead of an elevator, in the form of a "Turnbull Elevator Spring Hitch" arrangement.

An area of fatigue is identified in the drawing below, and its integrity should be routinely assessed.

This failure was recently observed during a period inspection, and contractors and mechanics should be aware of this issue.



In a 1965 Turnbull letter to the then Department of Labour, Turnbull advised about replacing bolts and adding wood blocking as shown in drawing 3B00247 above.

Photo 1  
Showing  
intact spring hitch [A] and  
wood blocking [B]

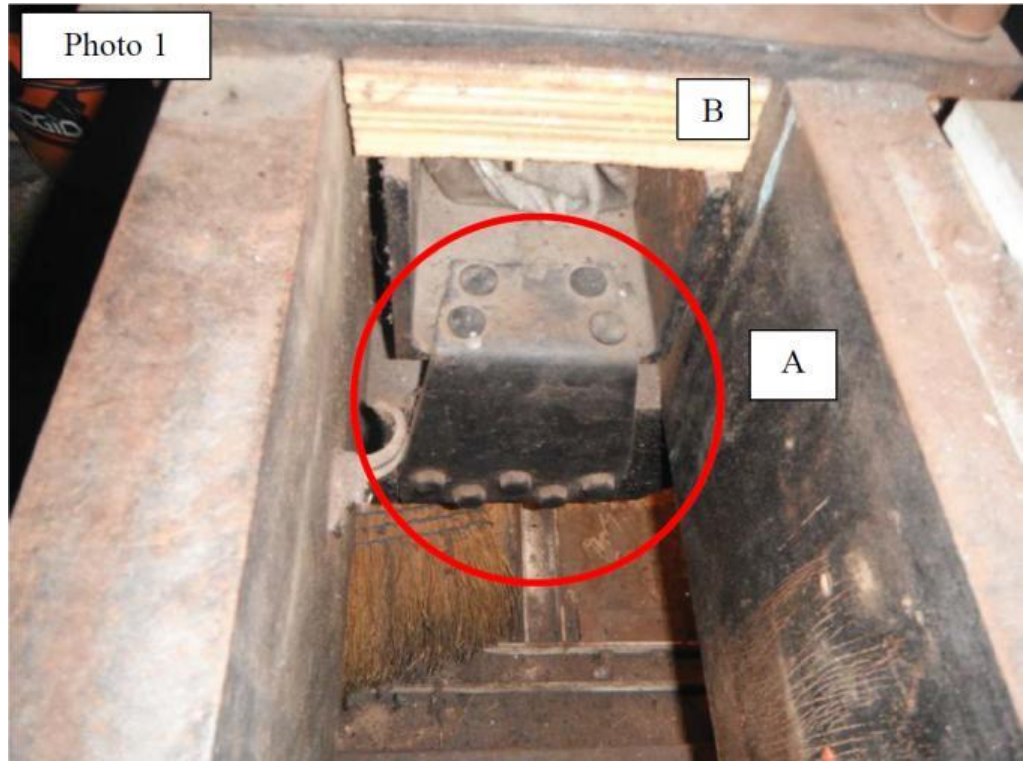


Photo 2  
Overview of spring hitch arrangement

[C] Area where spring hitch is located - between crosshead members (not visible in photo)

Photo 3

[D] Showing failed spring hitch

[E] Inverted 'C' Channel has embedded itself in the wood blocking (added per Turnbull drawing 3B00247)

