

How to Change an Idler Wheel on a W39 Carousel

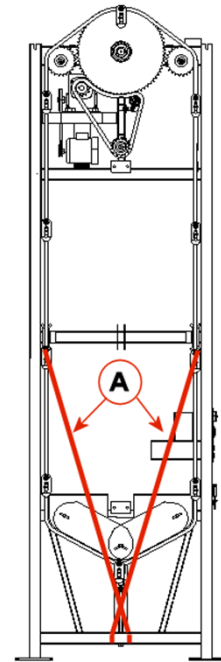
Step Description and Diagrams

- 1 Unload the carousel
- 2 Remove the Top Inside Cover.
- 3 Rotate the Carousel to the point where the Master Link on the Drive Chain is located between the Large Sprocket and the Idler Wheel.

TURN MASTER POWER and CIRCUIT BREAKERS OFF!

- 4 **Attach a set of Ratchet Straps to the load chain as indicated in the diagram (Item A)**

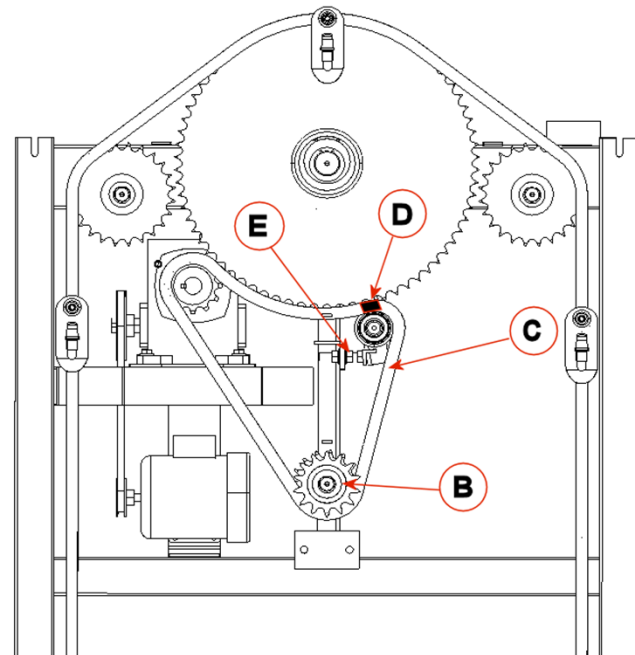
Ensure the Bottom of the Ratchet straps are attached to the bottom Rail of the Carousel as indicated in the diagram and the top of the strap should be attached to the chain around where the hook is as shown in the diagram.



- 5 **Suspend the Drive shaft from falling by using a Strap tied off to a convenient point such as a Rafter and remove the Drive Shaft coupler Chain (B) to separate the Drive shaft from this side of the Carousel.**

- 6 Using the ratchet straps and turning the Drive Belt, adjust the **Load Chain** to align the Drive Chain's Master Link (D) to just where this Link (D) meets the large Sprocket to the **RIGHT** of the Idler Wheel.

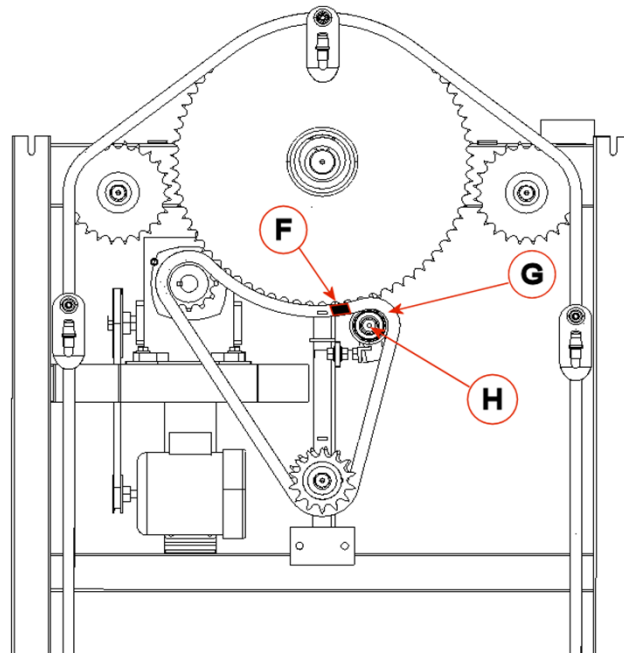
- 7 Loosen off the Drive Chain Tensioner (E) and if necessary, use a C-Clamp to squeeze the tensioner together enough to provide sufficient slack in the Drive Chain (C).



- 8 Remove the Master Link (D) from the Drive chain and if positioned correctly, the Drive chain (C) will want to fall away from the Idler wheel on the right. Carefully remove this part of the Drive chain from the Idler wheel and let it rest on the Drive Shaft Coupler Sprocket.

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9 Using the ratchet straps, move the load chain to align the end of the Drive Chain (F) (which is between the Idler Wheel and the Large Sprocket) to the left of the Idler wheel. This will allow the Drive Chain to fall away from the Large Sprocket, gently lower the Drive Chain



10 Remove the Snap Ring from the Idler Wheel allowing the Wheel to be replaced. Remove the Idler Wheel.

11 **Once the new Idler wheel has been installed, REVERSE the procedures to re-attach the Drive Chain**

12 Once the Drive Chain has been Re-Attached and Tensioned, on the OPPOSITE Carousel Tower Measure the distance from the Chain Hook (K) to the floor.

13 **REMOVE THE RATCHET STRAPS (J) FROM THE CAROUSEL.**

14 On the Tower being repaired, Move the Load Chain by turning the Motor Pulley to adjust the height of the Chain Hook (K) to Match the height of the one measured in Step 12.

15 Once the Hook Height is the same, **RE-ATTACH** the Drive Shaft using the Coupler Chain that was removed in Step 5 and Remove any Straps which were used to secure the Drive Shaft.

16 Re-install the Top Inside Cover

17 **Visually Inspect to CONFIRM that all Straps have been removed from the Drive Shaft and from the Load Chain.**

18 **TURN CIRCUIT BREAKERS AND MASTER POWER SWITCH ON**

19 Test operation of carousel in both directions.

