


Effective Date: 2/28/12	 Service Bulletin	Revision A
Warranty: Parts & Labor	Climb Mill Bearing Snap Rings and Shafts	Revised Date:
Time Required: 60 Minutes	Models Affected: All Climb Mills Produced Before 2012	Prepared by: Kevin Oeltjenbruns

DESCRIPTION

The snap rings on the Matrix Climb Mill chain bearings are coming loose / falling off.

SOLUTION

Replace all bearing shafts and chain bearing snap rings with x shaped rings provided by Matrix.

TOOLS AND PARTS REQUIRED

Shaft part # **1000229018** x 8 X Shaped Ring part # **1000229060** x 16
Flat Screwdriver or Split Ring Pliers Pliers Lithium Grease

PROCEDURE

1. Turn off power and unplug the power cord from the unit.
2. Remove the Matrix logoed side covers from each side of the Climb Mill (Figure A).
3. Release the brake by moving the brake lever to the left (Figure B).



Figure A



Figure B

4. Rotate the stairs so that a bearing is in a position to be worked on, and then re-engage the brake to prevent additional movement.
5. Remove the snap ring from the bearing using a flat screwdriver or snap ring pliers (Figure C).
6. Remove the snap ring, bearing, and flat washer from the shaft (Figure D).


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Figure C



Figure D

7. Pull the chain off of the shaft and remove the shaft spacer (Figures E & F).



Figure E

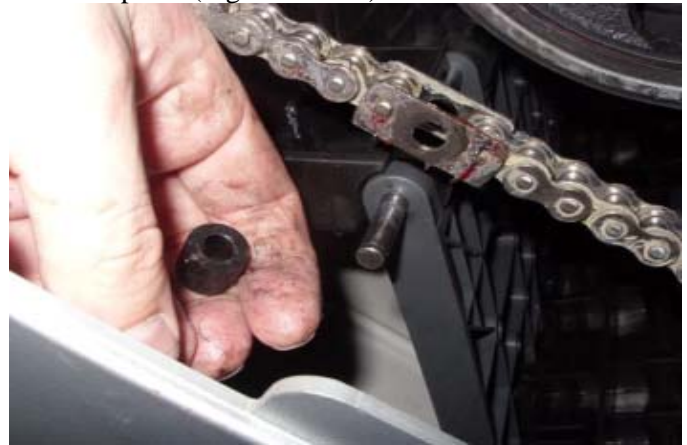


Figure F

8. Install the bearing and washer onto the new shaft and install the x shaped snap ring (Figure G).
9. Crimp the x shaped snap ring onto the shaft using pliers (Figure H). Be careful to crimp straightly so that the x shaped snap ring does not twist.




Figure G



Figure H

10. Grease the shaft with heavy lithium grease (Matrix recommends Super Lube brand grease).

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11. You should now have the new shaft with a flat washer, bearing, and x shaped snap ring installed on it (Figure I).
12. Push the new shaft in place into the stairs making sure to go through the chain and shaft spacer on both sides (Figure J). This will push the old shaft out the opposite side of the frame at the same time.



Figure I

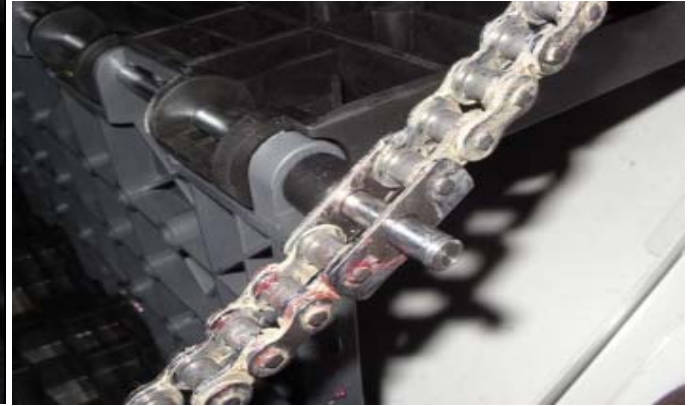


Figure J

13. Remove the flat washer and bearing from the old shaft.
14. Install the flat washer (Figure K) and bearing (Figure L) onto the new shaft.



Figure K

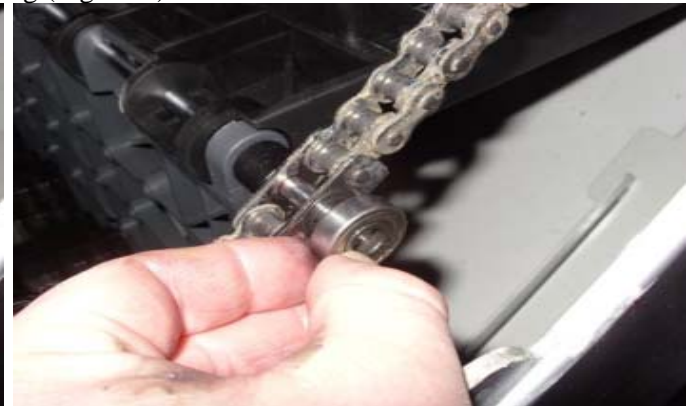


Figure L

15. Install the new x shaped snap ring onto the shaft (Figure M), and crimp with pliers (Figure N). Be careful to crimp straightly so that the x shaped snap ring does not twist.



Figure M



Figure N

16. Repeat Steps 3-14 until every bearing shaft and snap ring is replaced on the unit.
17. Release the brake and test the Climb Mill for function.