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Woodinville, WA 98027  
Technical Support (425) 482-6773 ext. 107 or 109



## Service Bulletin

### RevMaster Pro – Bottom Bracket Rework

#### **Reason for service:**

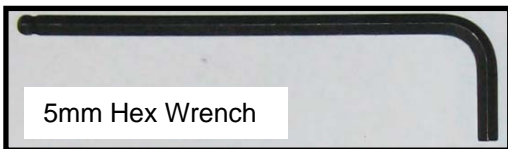
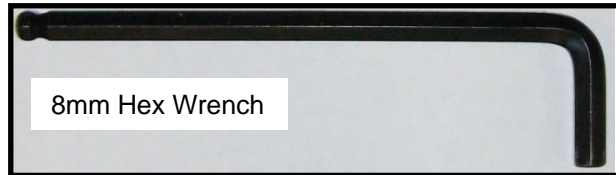
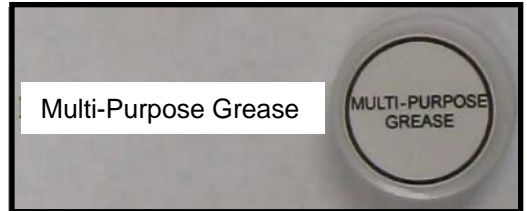
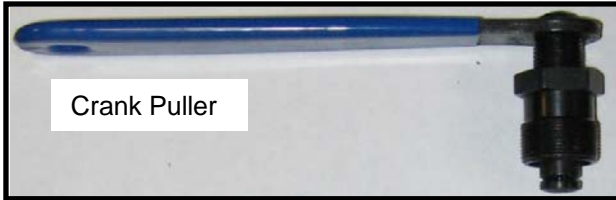
There has been cases where the bottom bracket has come loose and the cranks can potentially shift over to rub the belt cover.

#### **Action Steps:**

- Disassemble – Belt cover, belt, cranks, bottom bracket
- Wipe parts clean
- Add Loctite to bottom bracket cups
- Reassemble

Doc. 300603 Rev 02  
Dev-02-2008

# Tools / Parts List



# Disassembly Steps

## (1) Remove Belt Cover



Tool – 3mm Hex Wrench  
Remove screws (3x).

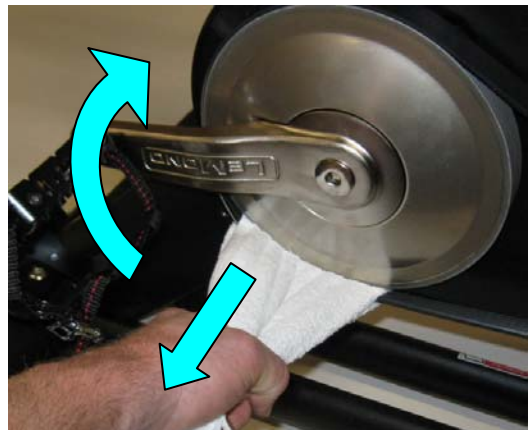


Tool – 5mm Hex Wrench  
Remove bolts (4x).

## (2) Remove Belt



Wrap towel around belt and  
pull away from pulley.



Rotate crank clockwise as  
you continue to pull towel  
away from pulley.

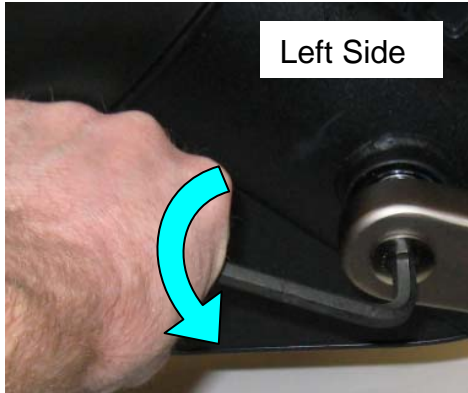


Rotate crank until belt  
comes free.

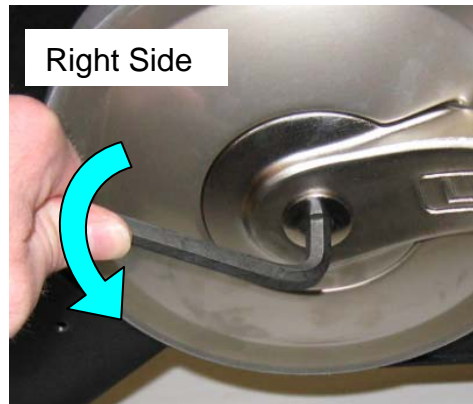
**\* Special Note: Using the towel to help pull the belt off will keep fingers away from pinch points. *The high tension of the belt and the sharp pulley teeth may cause serious injury.***

# Disassembly Steps

## (3) Remove Crank Bolts



Tool – 8mm Hex Wrench  
Counter-Clockwise to  
loosen bolts.



Tool – 8mm Hex Wrench  
Counter-Clockwise to  
loosen bolts.

## (4) Remove Cranks



Tool – Crank Puller  
Thread puller all the way  
into crank.



Turn puller clockwise to  
remove crank.

**\* Special Note: Be sure to thread puller tool all the way into the crank threads. More thread engagement will improve the life of the puller tool and help prevent stripping the threads in the cranks.**

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# Disassembly Steps



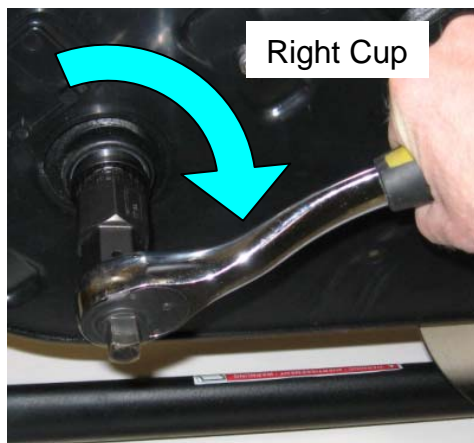
Remove crank form bike.



Repeat steps on other side.

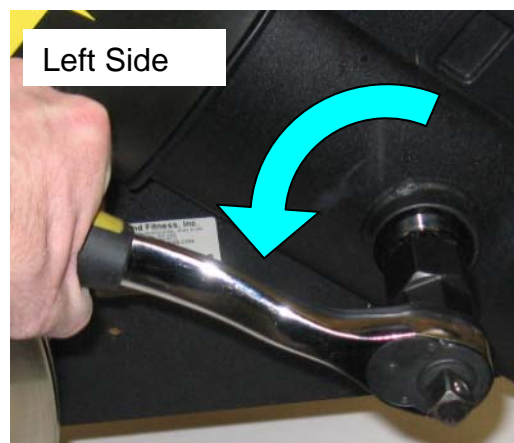
**\* Special Note: Pay attention to the wear on the puller tool. If the teeth start to wear it is best to throw away and use a new puller. This will help avoid stripping the threads on the cranks.**

## (5) Remove Bottom Bracket



Tool – Bottom Bracket Tool  
Rotate Clockwise to remove  
right side cartridge.

*\* right cup is reverse threaded*



Tool – Bottom Bracket Tool  
Rotate Counter-Clockwise  
to remove left side cup.

# Cleaning Steps

## (1) Clean Bottom Bracket Cups and Frame Shell



Wipe Bottom Bracket Cartridge with towel to remove any oil.



Repeat for left cup.

## (2) Clean Frame Shell



Wipe Shell threads with towel to remove any oil.



Repeat for left side.

# Re-installing Bottom Bracket Steps

## (1) Start threading in cups



Install Right Side Cartridge  
1-2 threads.



Install Left Side Cup 1-2  
threads.

## (2) Add Loctite and finish installing Bottom Bracket



Apply a solid bead of Loctite 242  
3-5 threads in width all around  
cup.

*\* Apply closer to the frame so as  
you install the cup the Loctite will  
spread across all threads.*

*\* Loctite will drip so it is best to  
place paper towels below to  
catch falling drops.*



Thread in right side completely  
(counter-clockwise) and torque to  
175 in\*lbs.

**\* Special Note: Always install  
right side all the way to the  
shoulder before installing left  
side.**

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# Re-installing Bottom Bracket Steps



Wipe away excess Loctite.



Apply Loctite 242 to Left Cup.  
*\* Again, apply closer to the frame so as you install the cup the Loctite will spread across all threads.*

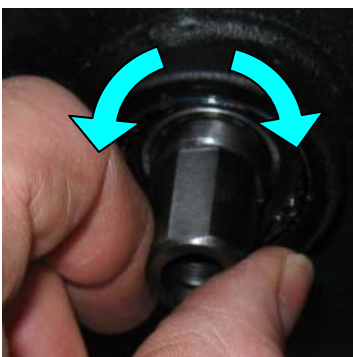


Thread in left cup completely.  
(clockwise) and torque to 175 in\*lbs



Wipe away excess Loctite.

## (3) Check Spindle for smooth rotation



Turn spindle back and forth to make sure spindle rotates freely. If rough feeling then the bearings are damaged and a new bottom bracket is needed.



# Re-assembling the bike

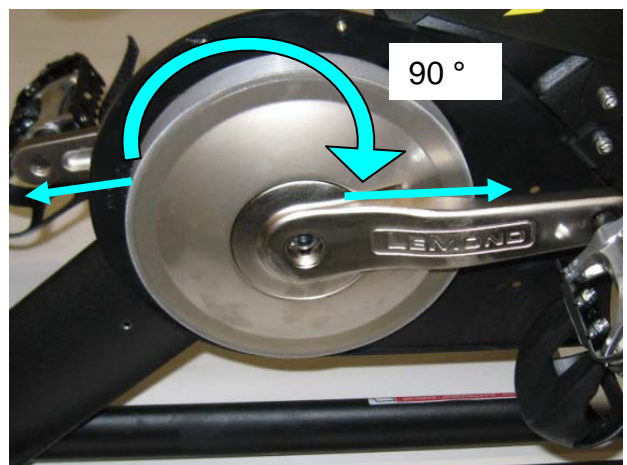
## (1) Install the cranks



Grease both sides of the spindle to help the cranks go on completely.



Put the cranks on the spindle.



Be sure the cranks are 90° from each other.

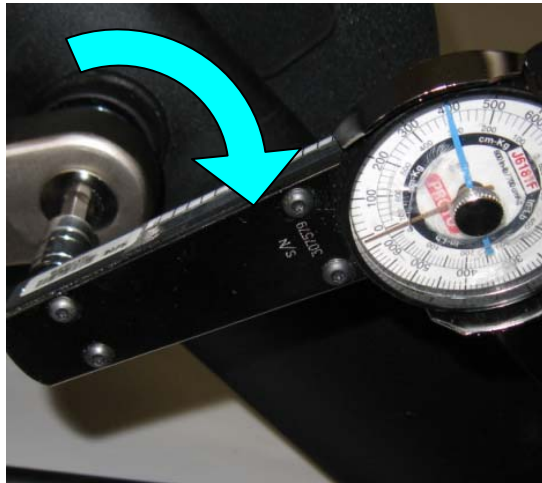
# Re-assembling the bike

## (2) Install the crank bolts

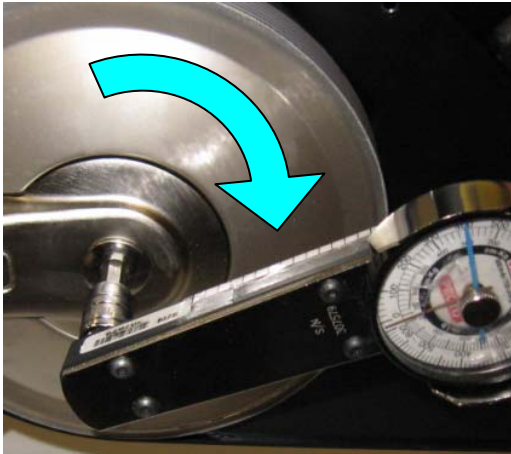


Insert crank bolts.

*\* Check that the blue nylok patch is present. If the patch is missing, either use a new crank bolt or add a drop of liquid Loctite 242.*



Install crank bolt (clockwise).  
Torque to minimum 410 in\*lbs.



Repeat on other crank.  
Torque to 410 in\*lbs.

# Re-assembling the bike

## (3) Install belt



Wrap belt around flywheel pulley and idler. Start belt on upper part of crank pulley.



Rotate crank pulley (counter-clockwise) to walk belt onto crank pulley.



Continue until belt is completely on the pulley.

**\* Special Note: Keep fingers clear of belt and pulley. The high tension of the belt and the sharp pulley teeth may cause serious injury.**

## (4) Re-install belt cover



Tool – 5mm Hex Wrench  
Install screws (4x).



Tool – 3mm Hex Wrench  
Install screws (3x).