

How To Install the Rocker Arm Kit

Tools required: Phillips screwdriver, T-45 Torx wrench, 4½ mm Allen wrench, snap ring tool

Estimated time required: 1 hour (to install both rocker arms) plus Loctite curing time (30 minutes)

KIT CONTENTS

Rocker arms (2)

Metal thrust washers (2)

Oilite washers (4: 2 thick, 2 thin)

Snap rings (2)

Loctite #620 (2 tubes)

Alcohol wipe (1)

PROCEDURE

1. Remove the outer deadshaft covers.
2. Disconnect the heart rate cable.
3. Remove the user arm (see Figure 1).



Fig 1: removing the user arm

4. Remove the lower rocker arm cover (see Figure 2).
5. Separate the rocker arm from the pedal.



Fig 2: separating the pedal from the rocker arm

6. Remove the rocker arm from the deadshaft (see Figure 3). Discard all of the old hardware (Oilite washer, thrust washer, snap ring).



Fig 3: removing the snap ring from the deadshaft

7. Loosen and push the shaft collar all the way onto the deadshaft (see Figures 4 and 5).
8. Inspect the deadshaft for smoothness. A badly worn or damaged shaft may require sanding to smooth it enough for the new rocker arm to slide on.



Fig 4: loosening the shaft collar



Fig 5: slide the collar against the bullhorn bracket

9. The kit contains Oilite washers in two thicknesses. Slip one of the *thinner* Oilite washers onto the deadshaft as shown in Figure 6.
10. Wipe the deadshaft with the supplied alcohol wipe. Save the wipe; it will be used later in this procedure and during the second rocker arm installation.



Fig 6: Installing the Oilite washer

11. Apply a bead of green *Loctite* #620 thread locking compound from the supplied applicator tube all the way around the deadshaft, about an inch (3 cm) from the end (see Figure 7). Do not use more than half of the compound in the tube.



Fig 7: applying *Loctite* to the deadshaft

12. Apply the remaining *Loctite* around the inner surface of the rocker arm sleeve (see Figure 8). Keep the compound at least an inch (3 cm) from the edge of the sleeve to avoid getting any compound on the new bearings.



Fig 8: applying *Loctite* to the rocker arm

13. Rotate the rocker arm back and forth while sliding it onto the deadshaft (see Figure 9). This will spread the Loctite evenly onto the deadshaft.
14. Wipe off any excess Loctite near the snap ring groove with the alcohol wipe.

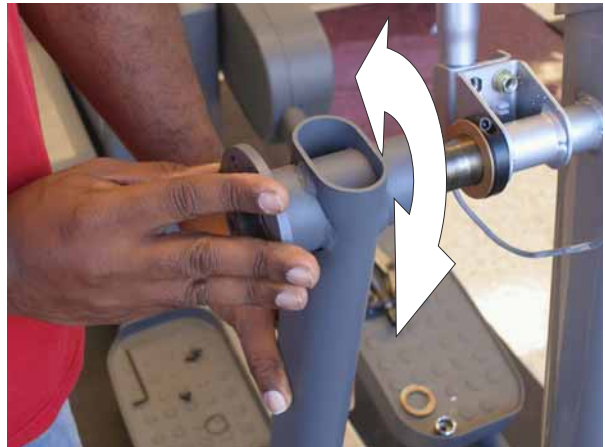


Fig 9: installing the rocker arm

15. Install one of the *thicker* Oilite washers.



Fig 10: installing the Oilite washer

16. Install the new thrust washer onto the sleeve next to the snap ring groove (see Figure 11).



Fig 11: installing the thrust washer

17. Install the new snap ring (see Figure 12)
18. Pull the rocker arm against the snap ring.



Fig 12: installing the snap ring

19. Slide the shaft collar tightly against the Oilite washer and rocker arm housing (see Figure 13).



Fig 13: pull the shaft collar in the direction of the arrow

20. Tighten the setscrew on the shaft collar (see Figure 14).
21. Swing the rocker arm to verify free movement. This will also provide assurance that the Loctite has not seized the bearing and sleeve together.
22. Reattach the user arm and pedal to the rocker arm.
23. Reattach the lower rocker arm cover.
24. Reattach the outer deadshaft cover.
25. Repeat steps 1-23 with the other rocker arm. The Loctite on the first side will be curing while the second rocker arm kit is being installed.
26. Allow the Loctite on the second rocker arm kit to cure undisturbed for at least 30 minutes.



Fig 14: tightening the shaft collar