



For exploded diagram and part number information, refer to the Spare Parts Catalog available on our website at www.rockshox.com.

Contact your local distributor or visit the RockShox website at www.rockshox.com for ordering information.

Information contained in this publication is subject to change at anytime without prior notice.

For the latest technical information, visit our website at www.rockshox.com.

Names used in this manual may be trademarks or registered trademarks of others.

TOOLS NEEDED

Tools needed (in addition to the tools listed in the 2003-2004 Boxxer Service Guide):

- Electric Hand drill
- Workbench Vice (with soft jaws)
- .110" - .125" or 3mm drill bit
- Small Metal File

NOTES:

Right side of the fork equals rider's right, if on the bike. Left side equals rider's left.

This service is best performed with fork removed from bike.

Thoroughly read this guide BEFORE performing service on your RockShox fork.

All spare parts needed, are listed in the Spare Parts Catalog. www.rockshox.com or www.sram.com

The following HydraCoil 2 damping system modifications will improve the performance of the 2003 Boxxer Race, Team and World Cup forks. This guide is a supplement to the 2003-2004 Boxxer Service Guide.

COMPRESSION DAMPER UPGRADE: 2003 BOXXER TEAM AND WORLD CUP

BLACKBOX PROCEDURES:

TO BEGIN: FOLLOW THE 2003-2004 BOXXER SERVICE GUIDE, STEPS 1 THROUGH 10.

1. Insert vice 'soft-jaws' onto vice clamps.
2. Lightly clamp the compression damper shaft in the vice 'soft-jaws', parallel to the ground with the refill port facing up.
3. Insert .110" - .125" or 3mm drill-bit tip into refill port, perpendicular to the damper shaft. Drill 3mm hole completely through only one side of shaft wall (fig. 3)
4. Use a small metal file to de-bur the new 3mm-refill port. Make sure the damper rod is free of all debris before you assemble in fork. It is best to remove the threaded shaft end and clean the inside of damper shaft before re-assembling the fork (fig. 4)
5. Follow standard re-assembly procedures in the 2003-2004 Boxxer Service Guide.

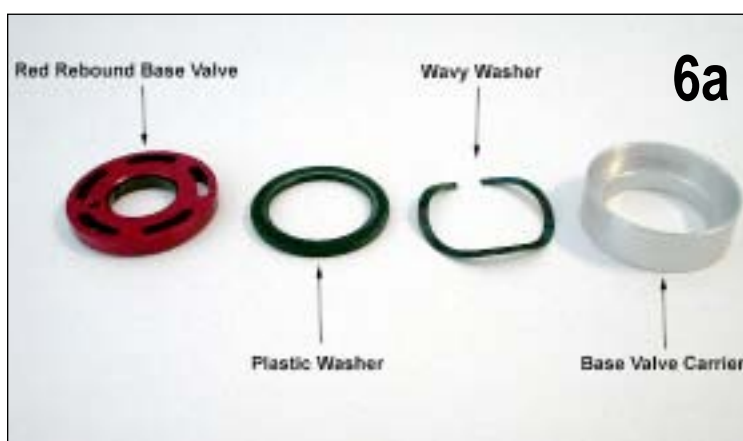


REBOUND DAMPER BASE VALVE UPGRADE: ALL 2003 BOXXER MODELS

BLACKBOX PROCEDURES:

NOTE: THIS REPLACES STEP 19 OF 2003-2004 BOXXER SERVICE GUIDE

6. Slide the 2004 Boxxer BlackBox Base Valve Assembly (part # 11.4308.596.000) over the HC2 Boxxer rebound damper shaft in the following configuration (fig. 6a and 6b):
 - Silver carrier
 - Wavy washer
 - Black plastic washer
 - Red Base Valve Plate.
7. Insert the narrow end of the black 2004 damper dome/spring perch (part # 11.4308.594.000) into the rebound damper piston hole. Do not re-install the white spring perch (fig. 7).



8. Insert the HC2 rebound damper assembly into the upper tube, damper dome first, followed by the base valve assembly. Fit the base valve assembly snug into the upper tube base valve step (fig. 8).
 9. Using snap ring pliers, insert the snap ring into upper tube snap ring groove; sharp edge away from the Red valve body. Fig 9
- NOTE: CHECK FOR CORRECT SNAP RING INSTALLATION/FIT BY ROTATING THE SNAP RING IN THE GROOVE USING ONE END OF THE SNAP RING TOOL. IT SHOULD ROTATE WITHIN THE GROOVE EASILY.
10. Follow standard re-assembly procedures in the 2003-2004 Boxxer Service Guide. Pick up at step 20.



OIL FILL: 2003 BOXXER RACE, TEAM AND WORLD CUP

BLACKBOX PROCEDURES:

BEGIN THIS PROCEDURE AFTER COMPLETING STEPS 21 THROUGH 25, LISTED IN THE 2003-2004 BOXXER SERVICE GUIDE.

11. Pull up and extend upper tubes to full extension.
 12. Pour approximately 200cc/ml of 10wt suspension oil into the left upper tube (compression damper side). See fig. 12.
 13. Pour approximately 200cc/ml of 5wt-suspension oil into the right upper tube (rebound damper side). See fig. 12.
- NOTE: FOR LIGHTER REBOUND PERFORMANCE, USE 2.5WT-SUSPENSION OIL IN THE REBOUND LEG (RIGHT).
14. By hand, slowly cycle each leg up and down to allow air bubbles to escape from the oil. Cycle slowly at first, until oil has cycled through the damper (see fig. 14)
- NOTE: KEEP AN EYE ON THE OIL HEIGHT, RELATIVE TO THE TOP OF THE UPPER TUBE SO OIL DOES NOT SPILL.
15. After the oil has completely cycled through the damper, and air bubbles have escaped from the oil, fully compress the upper tubes (push upper tube down into the lower leg assembly).



16. Using an oil-height tool, set the oil height to 115mm from the top of the upper tube to the top of the oil. If you do not have an oil height tool, use a ruler and pour oil from the upper tube until the oil height level is 115mm from the top of the upper tube, to the top of the oil (fig. 16a and 16b). Oil height tools may be purchased at motorcycle shops.

NOTE: USE THE TOP CAP TO COVER THE UPPER TUBE THAT YOU ARE NOT MEASURING SO TO AVOID OIL-SPILL FROM THE OTHER UPPER TUBE!

17. Pull up and extend upper tubes to full extension.

18. Follow standard spring and lower leg assembly procedures as listed in the 2003-2004 Boxxer Service Guide.

