

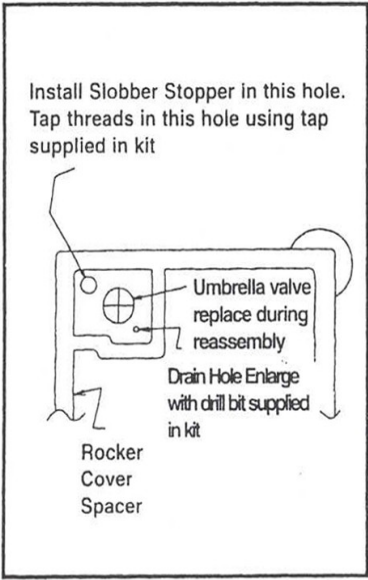
V-Twin Mfg.
SIFTON ROCKER BOX BREATHER KIT
FOR 1992-2003 XL Models
VT Part No. 16-0916

This is a custom application and rider safety depends on proper installation. This product should only be installed by a knowledgeable and trained motorcycle technician. V-Twin Mfg. accepts no responsibility for improper installation.

Note: Your SIFTON ROCKER BOX BREATHER KIT is for 1992-03 XL EVO engines equipped with umbrella valves in stock style rocker boxes (head breather models).

Installation Instructions:

1. Remove the outer rocker cover(s) and rocker box spacer(s) according to the OEM service manual.
2. Identify which location in each rocker box spacer is to receive its SIFTON ROCKER BOX BREATHER KIT. The SIFTON ROCKER BOX BREATHER KIT is to be installed in the vent (breather) hole adjacent to the umbrella valve. See Fig. 1.
3. Using the supplied tap, cut threads in the selected vent hole(s). Be very careful to start the tap at 90° to the rocker box spacer surface.
4. Apply a small amount of WD-40 to lubricate the tap. Turn the tap into the spacer the full depth of the threads - **NO FURTHER.**
5. Using the supplied drill bit, enlarge the oil drain hole(s) in the umbrella valve pocket. See Fig. 1.
6. Clean the tapped and drilled holes and perform a trial fit of the SIFTON ROCKER BOX BREATHER KIT by screwing the threaded end tightly into the tapped hole using your fingers only - **NO TOOLS.**
7. Perform a trial fit of the upper rocker cover to the rocker box spacer, without gaskets, using two of the four Allen screws to position and hold these pieces to the rocker arm carrier. Inspect to ensure that the edges of the rocker box spacer and upper cover are in correct alignment and that the SIFTON ROCKER BOX BREATHER KIT has at least 0.015" clearance from the upper cover. This is easier to check if the umbrella valve is removed. If there is less than 0.015" clearance, remove material from the chamfered the SIFTON ROCKER BOX BREATHER KIT to achieve this.
8. If the alignment is not satisfactory, remove enough material in the outer rocker box cover at the SIFTON ROCKER BOX BREATHER KIT location so that satisfactory alignment can be achieved. Be very careful not to damage the gasket sealing surface while performing this operation. See Fig. 2.
9. When these conditions are met, remove the SIFTON ROCKER BOX BREATHER KIT, clean and dry it and the tapped hole. Put two drops of Loctite242 on the threads of the SIFTON ROCKER BOX BREATHER KIT and screw it tightly into the tapped hole using your fingers only - **NO TOOLS** as set forth in paragraph 6.
10. Install new umbrella valves in the rocker box spacers and reassemble the rocker boxes according to the OEM service manual.

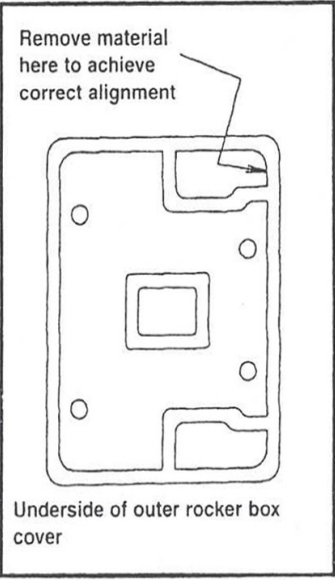


Install Slobber Stopper in this hole. Tap threads in this hole using tap supplied in kit

Umbrella valve replace during reassembly

Drain Hole Enlarge with drill bit supplied in kit

Rocker Cover Spacer



Remove material here to achieve correct alignment

Underside of outer rocker box cover



Items supplied in kit