



Advanced Innovative Machinery

AIM Corp. PERFORMANCE PRODUCTS VP Evo / Sport

Installation Instructions

Parts#:VP013-001 For '90 to '97 Big Twin and '91 and later Sportster Models

Read and become familiar with these installation instructions before start.

U.S. Patent No. D735, 766

WARNING: To prevent accidental vehicle start-up, which could cause serious injury, disconnect negative(-) battery cable before proceeding.

1. Two or more people should stand the bike upright using a jack or other appropriate lift or stand.
2. Back off the cable adjuster until the adjuster is fully collapsed.
3. Remove primary cover refer Harley Davidson Service Manual.

Sportster Models: You need to remove the clutch release assembly from the primary cover before removing primary cover.

4. Remove the clutch diaphragm spring using a genuine clutch compressor tool (SST H-D 3851A). The ring at the back of the snap ring is to be discarded.
5. Position new or current diaphragm spring and VP onto pressure plate.
6. Align VP and clutch hub and carefully compress diaphragm spring with compressor tool and then install snap ring (*no need to install spring seat ring*). Pay attention not to damage clutch hub while compressing the spring. It will spread if compressor tool is lightly struck by hand when it is hard to spread, even if a snap ring goes into the slot. Make sure snap ring is fully seated and spread, then remove tool.



Big Twin models and '91 to '03 Sportster Models; Skip to **Section 8**

'04 and later Sportster Models; Need to modify inner side of Primary Cover. See **Section 7.**

7. **Outer primary Cover Modification for 2004 and later Sportster Models.** Start out with cutting out the template and put it against the rib of the outer primary cover inner-side, see **Picture 1**. Then grind of a portion that is higher than the template making it flush. There are 11 ribs to grind off. See **Picture 2**.

Notice; Be careful not to grind too much of the round button part where the arrow is pointing. See **Picture 3**

8. Wash and clean primary cover. Then temporary fasten primary cover with using old gasket and few bolts. Make sure primary cover NOT contacting anywhere but being exactly closed.

Note: Adjust primary chain otherwise it hits primary cover
Press starter button momentarily, listen to the clutch area. Make sure there are no abnormal sounds.

9. Use new gasket, fasten all bolts, assemble everything referring to the Service Manual.
10. Adjust clutch adjuster nut, 1/4 turn back is preferred, then pour new oil.
VP Clutch makes clutch disengagement better (note: when using softer diaphragm than stock) so you can have more free play at clutch lever. Adjust clutch lever free play as you like.
Start engine, make sure NO abnormal sounds are heard, then grab front brake to shift into first gear to make sure clutch is disengaged. Now you can go for a ride!

Picture.1



Picture.2



Picture.3

