



Advanced Innovative Machinery

AIM Corp. PERFORMANCE PRODUCTS VP-VRSC

Installation Instructions

Parts#VP010-002 VP-VRSC for '08 and later V-Rod

Read and become familiar with these installation instructions before starting.

1. Remove Right side cover. Remove the main fuse.
2. Remove exhaust system, clutch actuator, and clutch cover. See service manual.
3. See **Picture 1**. Remove the oil retaining ring and lifter guide. Use a 10mm socket to remove the 4 bolts. Then remove the spring retainer.
4. Remove bearing and contact button from the spring retainer. Install the original bearing and the supplied contact button in the VP Clutch.
5. Check clutch-plates for wear.(You can skip this if you are working on new bike or just installed new clutch-plates.) The clutch stack height should be 23.2mm with new clutch plates.
6. See **Picture 2**. Install base-plate and align notch-tab to the clutch hub rib. Install the bend towards the motorcycle.



7. See **Picture 3**. Important: Spacers (12mm OD, 6.5mm ID and 4.0mm t x 4) are required to properly set the height of the VP to the pressure plate. They go underneath the VP plate or between the stud top and bottom of VP plate See chart. Installign the kit without any shims makes it 20% softer than stock.

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*For stock motor size or up to 120ft -lbs of torque there is no need for shims.

Max.Engine Torque		Number of shim	Initial Pressure
@6000rpm	@7000rpm		
115ft-lbs	125ft-lbs	0	240lbs
120ft-lbs	130ft-lbs	1.5mm x1	263lbs
125ft-lbs	135ft-lbs	1.5mm x 2	285lbs
135ft-lbs	145t-lbs	1.5mm x 2 1.0mm x 1	300lbs

(3 shims Maximum)

*See **Picture 4**. Please consult with chart for a high performance motor. there are two different shims in the kit. (1.5mm x 8 and 1.0mm x 4. Place the shim(s) underneath the VP plate or on top of each spring to increase initial spring pressure. A maximum of 3 shims (1.5mm x 2 and 1.0mm x 1 (4mm total)) can be used. Usign more than 3 shims will cause coil bind. Use adhesive to stick shims and spacers on the back side of the VP plate to aid the install.

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8. See **Picture 5**. Install the 4 of 10mm socket bolts and then torque to 7.1 ft-lbs.
9. See **Picture 6**. Replace clutch release pad with supplied modified pad. (More thin) Install clutch cover, clutch actuator, and exhaust system with new gaskets. See service manual.

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10. Install main fuse and then the right side cover.
11. Check engine oil level. Add engine oil, if it is necessary.

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12. Important !!

Pump the clutch lever 8 or 10 times. Then check the oil level in the master cylinder resevoir. The clutch system may contain air bubbles if oil level is low. Add clutch fluid if necessary. Test the clutch after installing the VP Clutch. If the clutch system is not operating properly it can cause to loss of control, which could result in death or serius injury.



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