



Advanced Innovative Machinery

AIM Corp. PERFORMANCE PRODUCTS VP-VRSC

Installation Instructions

Parts#VP010-001 VP-VRSC for '02 to '07 V-Rod

Read and become familiar with these installation instructions before starting.

1. Remove Right side neck cover. Remove the main fuse.
2. Remove exhaust system, clutch actuator, and clutch cover. See service manual.
3. Remove the big snap ring. Remove five bolts (6mm) to release clutch spring retainer from clutch hub. Loosen each bolt gradually and in a star sequence around the hub. Remove the bearing from retainer. See **Picture 1**.
4. Place the base plate into the bottom of clutch hub. See **Picture 2**.
5. For stock motor size or up to 120ft.lbs of torque, there is not shim needed.

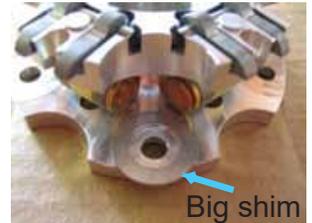
Picture.1



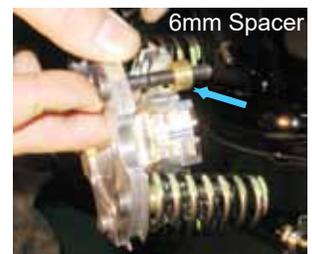
Picture.2



Picture.3



Picture.4



Picture.5



Picture.6



For High performance Motor

See **Picture 3**. Place the shim underneath each coil spring to increase initial spring pressure for high performance motor. maximum 3 shims. (More than 3 shims will cause to bind spring) See **Chart A**.

Chart A

Max.Engine Torque		Number of shim	Initial Pressure
@6000rpm	@7000rpm		
110ft-lbs	120ft-lbs	0	250lbs
120ft-lbs	130ft-lbs	1	275lbs
135ft-lbs	145ft-lbs	2	325lbs
152ft-lbs	163t-lbs	3	375lbs

(3 shims Maximum)

6. Place five provided bolts into the holes on VP Clutch. Place five 6mm spacers on five bolts. See **Picture 4**. Alternately tighten the five bolts to 85in.lbs (9.7Nm).
7. Install the bearing which you have removed at **Section 3** into the VP Clutch. Watch for bearing direction. See **Picture 5**.
8. Install the big snap ring. See **Picture 6**. There is about 0.040" (0.1mm) clearance between the big snap ring and the VP-Clutch. Check the clutch friction disc, if there is no clearance or very little. The friction discs may be wear out.
9. Install the clutch cover, clutch actuator and exhaust system with new gaskets. See service manual.
10. Install main fuse and then install the right side neck cover.
11. Check engine oil level. Add engine oil, if it is necessary.

12.

Important !!

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



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