



# TAK'S PERFORMANCE PARTS

## VP Clutch Installation Instructions



ZPN 712114

### Variable Pressure Series

Read and become familiar with these installation instructions before starting. The steps are straightforward.

**Thank you very much for purchasing VP clutch. The VP clutch installation is very simple.**

(Motorcycle leaning on Jiffy stand to reduce losing engine oil.)

1. Remove right side neck cover. Disconnect the main fuse.
2. Remove exhaust system, clutch actuator, clutch cover.  
See Harley-Davidson 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 the retainer. **See Picture.1**
4. Place the base plate into the bottom of clutch hub. **See Picture.2**  
For stock motor size or up to 85ft.lbs of torque, There is not shim needed.

**\* For High Power Motor**

Place the shim underneath each coil spring to increase initial spring pressure for Higher power motor.  
Maximum 3 shims.(More than 3 shims will cause to bind spring.) **See Chart -A.**

**Chart -A**

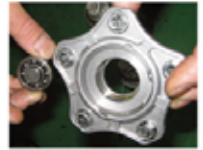
Max.Engine Torque @6000rpm	Torque @7000rpm	Number of shim	Initial Pressure
110ft-lbs	120ft-lbs	0	250lbs
120ft-lbs	130ft-lbs	1	275lbs
135ft-lbs	145ft-lbs	2	325lbs
145ft-lbs	155ft-lbs	3	350lbs

(Maximum 3 shims)

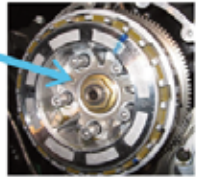
5. Place five supplied bolts into the holes on VP clutch.  
Place five 6mm spacers on five bolts. **See Picture.3**  
Alternately tighten the five bolts to 85 in.lbs (9.7 Nm).
6. Install the bearing which you have removed at sec.5 into the VP clutch.  
**\* Watch for bearing direction. See Picture.4**  
Install the big snap ring. **See Picture.5**  
**\* There is about 0.040" clearance between the big snap ring and the VP-VRSC.**  
**Check the clutch friction disc, if there is no clearance or very little. The friction discs may be wear out.**
7. Install the clutch cover, clutch actuator and exhaust system with new gaskets.  
See Harley-Davidson service manual.
8. Install the main fuse.  
Install the right side neck cover.
9. Check engine oil level. Add engine oil, if it is necessary.
10. **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 clutch system are not operating properly, it will cause to loss of control, which could result in death or serious injury.

\*Caution---- Keep the stock retainer which you have removed from clutch for future servicing clutch.

**We hope you enjoy riding V-Rod with easy and smooth VP clutch!**



Picture. 1



Picture. 2



Picture. 3



Picture. 4



Picture. 5



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For product updates and information go to

[www.bluepanther.jp](http://www.bluepanther.jp)

Installation video is also available.

## Installation Notice for VPC-VRSC

There are five 1.0mm washers. Those are coil spring anti-wear seat washer between coil spring and VPC body. One washer on each coil spring. It prevents wearing VPC aluminum body from coil springs. It should be hard to install VPC with those washers so we recommend to fasten with Glue. Those washers must be properly seated in the groove. See picture below.

