



## Lloydz Precision Timing System

**VICTORY/INDIAN® WARRANTY POLICY:** Lloydz Indian Air Filter is intended for competition use only. Purchase and installation of a Lloydz Indian Air Filter voids portions of the Victory/Indian Standard Limited Warranty. Dealers must call Victory for prior authorization before initiating any warranty repair.

**REGULATORY NOTIFICATION:** Not legal for sale or use on non-competition pollution controller vehicles in the U.S. and California. Tampering with emission-related parts can lead to substantial regulatory penalties. Non-competition street use may violate federal noise limits.

### DISCLAIMER:

Lloydz parts are designed for high performance, off-road, and racing applications and are intended for the very experienced rider only. The installation of Lloydz parts may void or adversely affect your factory warranty. In addition such installation and use may violate certain federal, state and local laws, rules and ordinances as well as other laws when used on motor vehicles used on public highways, especially in states where pollution laws may apply. Always check federal, state, and local laws before modifying your motorcycle. It is the sole and exclusive responsibility of the user to determine the suitability of the product for his or her use, and the user shall assume all legal, personal injury risk and liability and all other obligations, duties, and risks associated therewith.

### IMPORTANT NOTICE:

Statements in this instruction sheet preceded by the following words are of special significance.

#### ▲ WARNING

Means there is the possibility of injury to yourself or others.

#### ▲ CAUTION

Means there is the possibility of damage to the part or motorcycle

#### NOTE

*Other information of particular importance has been placed in italic type.*

**Lloydz strongly recommends you take note of these items.**

### SAFE INSTALLATION AND OPERATION RULES:

Before installing your new Lloydz part, it is your responsibility to read and follow the installation and maintenance procedures in these instructions and follow the basic rules below for your personal safety.

- Gasoline is extremely flammable and explosive under certain conditions and is toxic when inhaled. Perform installation in a well ventilated area away from open flames or sparks.
- If motorcycle has been running, wait until engine and exhaust pipes have cooled down before performing any installation steps.
- Before performing any installation steps, disconnect battery to eliminate potential sparks and inadvertent engagement of starter while working on electrical components.
- Read instructions thoroughly and carefully so all procedures are completely understood before performing and installation steps. Contact Lloydz with any questions you may have if any steps are unclear or any abnormalities occur during the installation or operation of a motorcycle with Lloydz parts on it.
- Consult an appropriate authorized Victory Service Manual for correct disassembly and reassembly procedures for any parts that need to be removed to facilitate installation.
- Use good judgement when performing installation on and operating your motorcycle. Don't let Alcohol, drugs or fatigue impair your judgement.
- Be sure all federal, state, and local laws are obeyed regarding installation.
- For optimum performance and safety and to minimize damage to parts and components, use all mounting hardware that is provided and follow all installation instructions.
- Motorcycle exhaust fumes are toxic and must not be inhaled. Run motorcycle in a well-ventilated area where fumes can dissipate

### LIMITED WARRANTY:

Lloydz Motor Workz, Inc has always been a leader in the manufacture and sale of the highest quality performance parts for Victory/Indian® based motorcycles. We continually strive to provide services and products in support of racing and high performance, which reflect our reputation and ongoing efforts at improving the sport of motorcycling.

Lloydz Motor Workz warrants all parts and accessories produced for and by Lloydz Motor Workz to be free from defects in design and workmanship. Should the parts be found to be, or become, defective during any stated warranty period, Lloydz will, at its option upon physical inspection, repair or replace any, or all, defective parts. Lloydz Motor Workz will maintain no obligation under the terms of this warranty in the event the parts become defective as a result of improper assembly, installation, break-in, maintenance or use, or any other misuse or mistreatment of the parts including, without limitation, operation of the parts with fuels, oils or lubricants not conforming to specifications published by Lloydz or continued operation of the parts after a defect or malfunction occurs, is identified or suspected.

All items not manufactured by Lloydz Motor Workz are warranted to be free from defects under the terms outlined by the specific manufacturer. Any parts determined to be defective will be repaired or replaced, at the option of the manufacturer, in a prompt and just manner.

Parts identified or intended as racing components carry no warranty, regardless of installation.

There is absolutely no warranty on the following:

- Any parts used in a racing application
- Any part that has been physically altered, improperly installed or maintained
- Any product used in improper applications, abused or not used in conjunction with proper related parts

All items sold for installation by the end user, are considered by law to be customer assembled items and carry no liability to the distributor or maker.

This warranty does not cover any consequential, incidental, or special damages arising out of the use of, or inability to use, parts, components or vehicle to which the parts or components are installed. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you.

### DISCLAIMER:

The words Victory, Indian and others that are registered trademarks of Polaris Ind. Corp. are used for reference only and are not intended to imply that these parts are manufactured or endorsed in any way by Indian, Victory Motorcycles.

## IMPORTANT INFORMATION REGARDING TIMING CHANGES:

The **HOH-PTS-08** is an item that allows you to adjust the injector and ignition timing by 5 degrees Retard to 7 degrees Advance. Common sense must be used when making any timing changes to your bike. If in doubt, make small changes or contact us for suggestions. Excessive timing can damage an engine and we will not be responsible for improper use of this part.

- For motors with stock compression and VM1 cams, start with a 2-4 degree advance only when using high-test gasoline. Some bikes can go as high as 8 degrees. However, if you have detonation (or pinging), you must retard the timing until it is no longer present.
- Some bikes (rare) will have detonation and you can use the retard side of the adjustment to cure that. Only use enough retard to eliminate pinging or detonation.
- This item can also be used to compensate for variations in production tolerances. However, an experienced Dyno tuner with skillful knowledge needs to perform this
- The **HOH-PTS-08** can be used in conjunction with a PCV. Even though the PCV has the ability to change timing, it can only do it above 2500 RPM. On bikes with wide open exhausts you will see an increase of power made under 2500RPM by having the ability to add timing with the **HOH-PTS-08**

**⚠ CAUTION!** When used with the PCV you must be aware that there will be a total timing change. For example; if you advance the **HOH-PTS-08** by 4 degrees and have 4 degrees advance on the PCV map then there will be a total of 8 degrees advanced. **THIS IS NOT GOOD AND CAN CAUSE ENGINE DAMAGE!**

- When used with higher compression ratios over stock and in conjunction with a PCV you can add no more than 4 degrees timing. You must the retard the timing maps in the 20-40-60-80 percent columns from 2500-4250 RPMS by the number of advance degrees. For example; if you add 3 degrees advance timing you must retard 3 degrees from the columns listed. The reason this is done on is stock PCM timing maps under light to moderate throttle there is a lot of timing and this must be compensated for so we don't cause engine damage.

### Kit Contents:

- 1x Lloydz Precision Timing System
- 1x Small tube of Loctite

### Estimated Install Time:

- 20-45 minutes depending on model and foot controls being used

### Tools Needed:

- 5mm Allen Wrench, 10mm socket, 13mm socket, Small Pry bar

## Lloydz Precision Timing System



### STEP 1:

- Remove cam chain cover at the bottom right side of the engine

- ⚠ **Using care when removing the Cam Cover can help save the Cam Cover gasket, however be prepared to replace the gasket if necessary**

### STEP 4:

- Replace and tighten 13mm bolt on center of crank timing wheel

### STEP 2:

- Remove 13mm bolt on the center of the crank timing wheel

### STEP 5:

- Set timing to desired area, apply Loctite, and **torque** the two adjusting bolts to **6-8 ft/lbs**. The **HOH-PTS-08** has marks that are used like a veneer. When the first two marks in the radius are lined up, that is 1 degree. When the second two are lined up, that is 2 degrees and so on. Advance is on the right side (+), and Retard is to on the left side (-). Our timing wheels are sent out **snug** at Advanced 4 Degrees only as a representation of where Advanced 4 Degrees lies on the item, It is up to the customer to apply Loctite and torque to correct specification.

- ⚠ **DO NOT OVERTIGHTEN THE TWO ADJUSTING BOLTS, UNDER NO CIRCUMSTANCES WILL ANY STRIPPED HARDWARE FALL UNDER WARRENTY!!!**

### STEP 3:

- Remove stock timing wheel and replace with Lloydz **HOH-PTS-08**

### STEP 6:

- Reinstall Cam cover and test motorcycle
- Congratulations on installing your newly purchased Lloydz Precision Timing System, Be safe and go ride!