

FIRSTRYKE

BOLT-ON COMPRESSION RELEASE

INSTALLATION INSTRUCTIONS

1. Remove existing spark plugs.
2. Verify current spark plugs used are 14mm X 3/4.
3. Remove Firstryke assembly from package.
4. Unscrew bottom compression washer from major manifold. Remove shim stack – Do not discard.
5. Leave top compression washer in place. Do not remove anti-seize compound from major manifold adapter.
6. Remove minor manifold and poppet valve from major manifold. Note that poppet valve is 13mm nut and minor manifold is broached internally for a 3/16" allen wrench. Do not remove anti-seize compound from minor manifold.
7. The major manifold, gland nut and high thread plug are pre-installed (torqued and sealed) at factory. Spark plugs are pre-gapped at 0.040. Do not disassemble these units.
8. Install major manifold, gland nut and high thread plug together by hand into motorcycle head until seated.
9. To tighten major assembly, Spyke recommends a 9/16" spark plug socket and torque wrench be used to establish the final torque of the major manifold assembly. Recommended torque range 14-18 lb.-ft. of torque. Do not exceed 18 lb.-ft. of torque or damage to cylinder head or adapter may result. **SEE "CLOCKING" AT RIGHT**
10. Methods to tighten minor assembly: Spyke recommends a 13mm deep-well socket and torque wrench be used to establish the final range of 5-7 lb.-ft. of torque. Do not exceed 7 lb.-ft. of torque or damage to Firstryke may result.
11. Re-install spark plug wires.
12. To release compression and ease in starting, press the poppet buttons before starting engine. Poppet valves will automatically close once cranking pressure has been achieved.

Under no circumstances should the unit be disassembled other than during the major and minor indexing/installation processes. Disassembling the unit can cause extensive damage to the engine and will void the warranty.

WARNING:

This Bolt-On Compression Release should be installed by a professional mechanic to ensure proper torquing and installation. In the event any damage occurs to the Bolt-On Compression Release during installation, the warranty will be void. The Firstryke should only be installed on engines with 14mm spark plug holes that have no prior modifications to the area around the spark plug.

CLOCKING:

When installing the major manifold, make sure one compression washer (2 provided with each unit) is in place on the threaded shaft with the flat side up. Install the unit finger-tight into the plug hole, making sure that the compression washer seats. With reference to a traditional clock face, observe the position of the hole for the minor manifold to determine further tightening requirements. As an example, if the opening is positioned between 11 and 1, you would then remove the unit from the plug hole, apply a red and yellow shim beneath the compression washer and re-install the unit. Then simply tighten the unit to the 6 o'clock position to reach 14 to 18 ft.-lbs. of torque. For other clock reference positions and the appropriate color shim to use, see the chart below.

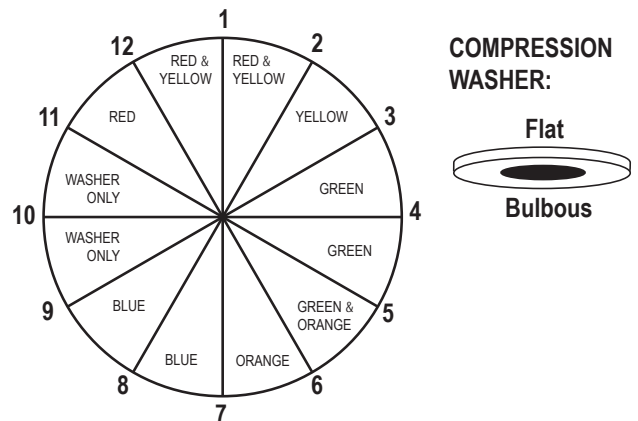
NOTE:

MECHANISMS HAVE BEEN 100% INSPECTED AND TESTED PRIOR TO PACKAGING.

ONLY COILS WITH 40,000 VOLTS OR MORE WILL FUNCTION PROPERLY WITH THIS COMPRESSION RELEASE.

SUGGESTED SHIM FITMENT:

The condition of the spark plug hole may affect seating. The specified torque value is 14 to 18 ft.-lbs. of torque at the correctly installed position.



IMPORTANT VACUUM LEAK CHECK: After final installation, brush or spray a small amount of soapy water on the compression release. Start engine. If bubbling occurs, uninstall and call Spyke at (562) 869-9333 for corrective action.

1 YEAR LIMITED WARRANTY

Spyke, Inc. warrants the Firstryke Bolt-On Compression Release to the original purchaser to be free of manufacturing defects in materials and workmanship for a period of 1 year from the date of purchase.

This limited warranty is subject to the disclaimers and limitations described in the following:

DISCLAIMERS & LIMITATIONS:

This limited warranty for the Spyke Firstryke Bolt-On Compression Release is warranted for a period of 1 year and that in the event that the Firstryke Bolt-On Compression Release fails, said item will be repaired or replaced at Spyke's option. All returns must be returned to Spyke, Inc. 11258 Regentview Ave., Downey, California 90241 and are shipped freight pre-paid.

Under no circumstances will Spyke be liable for any labor claims resulting from the failure of said merchandise unless prior arrangements are made in writing and signed by Spyke, Inc. Spyke, Inc. will not be liable for consequential or incidental damages resulting from the failure of a Spyke part, breach of any warranties, the failure to deliver, delay in delivery, delivery on unconforming condition or any other breach between Spyke, Inc. and its customers.

LIMITED USE:

Spyke Firstryke Bolt-On Compression Releases are designed for use exclusively in Harley Davidson motorcycles with EVO Big Twin engines with 14mm spark plugs or short-reach Shovelhead engines when used with adapter #454131.

For use on engines with no prior modifications to spark plug area. Spyke shall not have any warranty obligation if the Bolt-On Compression Release is used on any other motorcycle or used for any other application.

WARRANTY IS VOID:

The Warranty is void if the Bolt-On Compression Release has been disassembled by the purchaser, his or her mechanic, agents or employees. Further, the warranty is void if the Bolt-On Compression Release is utilized on any other engine than EVO Big Twin engines with 14mm spark plugs or short-reach Shovelhead engines with adapter #454131, which is a part that is separate and apart from the Bolt-On Compression Release.

The Bolt-On Compression Release is not intended for use on any other engine than those specified above. Further, the warranty is void in the event that the Bolt-On Compression Release is utilized on either of the two engines that have had modifications made to either the engines or their threaded spark plug receptor using an insert. Further, the warranty will be void in the event that the installation of the Bolt-On Compression Release is done with other than a properly calibrated torque wrench and/or the failure to install the Bolt-On Compression Release pursuant to the directions submitted as a part of the installation process.

Exclusive Remedies and Claims Procedure

The exclusive remedy for a product that does not perform as warranted is repair or replacement. A Spyke representative shall inspect the product in question and shall determine whether repair or replacement will be authorized. Labor costs associated with the removal and reinstallation of any component or section is solely the responsibility of the purchaser. Spyke, Inc. is not liable for consequential damages or the recovery of any other direct or indirect cause (shipping, handling, installation, removal, reinstallation, or damage to any engine component part or individual). No warranty item will/may be returned without prior authorization from Spyke, Inc. Contact is to be made with Spyke, Inc. and Spyke must be notified of any warranty claim. At that time, Spyke will give directions as to how the item is to be returned. It will be shipper/end user's responsibility to clearly mark any and all returning shipments on the outside of the box with the authorization number provided by Spyke, Inc. Failure to do so may result in the shipment being unprocessed. All items returned will be tested by Spyke, Inc. If the product is found to have a manufacturing defect, it will be repaired or replaced at Spyke's option. All returns must be shipped prepaid. No C.O.D. or freight collect shipments will be accepted.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED AND SHALL BE VOID IF DAMAGE WAS DUE TO IMPROPER INSTALLATION, MAINTENANCE OR USE. THIS LIMITED WARRANTY GIVES YOU SPECIFIC RIGHTS AND YOU MAY ALSO HAVE RIGHTS WHICH VARY FROM STATE TO STATE.

ALL CLAIMS OR QUESTIONS REGARDING THIS LIMITED WARRANTY SHALL BE ADDRESSED TO: SPYKE, INC., 11258 REGENTVIEW AVENUE, DOWNEY, CALIFORNIA 90241 PHONE: (562) 869-9333, WEB: www.spykeinc.com.

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