



**Installation  
Instructions**

Harley-Davidson Touring Model 2009-current  
Xtreme True Dual  
RINEHART Exhaust System

**REV. 1-16-2015**

**ITEMS SUPPLIED**

Description	Part #	Qty
Front Header (Chr/Blk)	100-0119/100-0123	1
Rear Header (Chr/Blk)	100-0120/100-0124	1
Front Heat Shield (Chr/Blk)	100-0121/100-0125	1
Rear Heat Shield (Chr/Blk)	100-0122/100-0126	1
Muffler (right)		1
Muffler (Left)		1
2-1/8" Barrel Clamp	16-006S	2
2-1/4" Stainless Clamp	16-0028S	10
Header P- Clamp	17-0022C	1
Transmission Support Clamp	17-0022D	1
Exhaust Gaskets	20-00003	1pr
5/16-18 x 5/8" Hex bolt	35-00002	4
5/16-18 Locking Nut	35-00005	4
5/16" Flat Washer	35-00007	4
5/16-18 x 1-1/4 Flange Bolt	35-00010	1
18mm O2 Bung Plug	35-00083BA	2
12mm O2 Bung Plug	35-00085BA	1pr
1/2" Front Floorboard Spacer	29-00028B	1
1/2" Front Floorboard Peg Spacer	29-00300B	1
3/8"-16 x 3.25" SHCS	35-00308	1
3/8"-16 x 1.75" SHCS	35-00306	1
Instructions & Warranty Sheets		

Thank you for buying a RINEHART exhaust system. We are committed to providing you a quality product that with the proper installation and care will last you for many years to come.

**Please be sure to read the instructions fully and inspect all components of your new system before installation.** If you need help removing your stock mufflers and/or head pipes, or how to install the Rinehart Racing exhaust system, please consult our factory or a professional mechanic. Please keep all OEM parts as some may be used for the installation of the RINEHART exhaust system. If you are installing the system and are not the owner, please return these instructions to the owner as they contain important information that may be required at a later date.

If you have questions pertaining to the installation, please contact our technical service department: 1.877.264.8282 or [www.rineharracing.com](http://www.rineharracing.com).

**Exhaust systems manufactured by Rinehart Racing are non-catalyst. A stock catalyst exhaust system cannot be replaced with a non catalyst exhaust system. Please verify the application with your dealer before purchase.**

**INSTALLATION INSTRUCTIONS**

1. Remove left and right saddlebags.
2. Remove right side front floorboard.
3. Remove OEM mufflers. (Do not discard the OEM muffler bracket bars, they will be reused.)
4. Loosen the exhaust clamp and remove the support clamp for the left exhaust pipe. The support clamp is located under the transmission pan.
5. Remove the left exhaust pipe.
6. Remove the transmission support clamp located on the right side of the motorcycle.
7. Carefully remove the O2 sensors from the OEM exhaust.
8. Loosen and remove the exhaust flange nuts and remove the OEM exhaust.
9. Carefully remove OEM exhaust flanges and retaining rings. Do not damage or distort the retaining rings. If possible use snap ring pliers. Replace damaged retaining rings.
10. Slide the exhaust flange on first, followed by retainer rings onto the RINEHART exhaust headers. The machined recess should face the retainer ring.
11. Remove the OEM exhaust gaskets from the cylinder heads. It may be necessary to pry the exhaust gaskets from the head using a scribe or a small screwdriver. Do not damage the cylinder head!
12. Replace OEM exhaust gaskets with the supplied gaskets, make sure to seat the new gaskets into the cylinder head.
13. The rear cylinder exhaust header must be installed first. Install the rear header pipe, but leave the exhaust flange nuts loose at this time.
14. Slide the supplied transmission support clamp onto the rear header. Secure it using the 5/16"-18 x 1 1/4" bolt (supplied) Fig 1. Leave loose.
15. Finger tighten the rear cylinder exhaust flange nuts.

**PLEASE NOTE**

Our warranty applies only when the system is installed correctly and used for its intended purpose. Warranty does not apply when damage is the result of normal wear and tear, improper use, neglect or incorrect engine configuration. See warranty notice in box for more information.

## DISCOLORATION AND TUNING

Discoloration of exhaust is generally a result of fuel calibration tuning. In addition, discoloration can be the result of electrical issues or engine malfunction.

Discoloration is not a warrantable item. CATALYST EQUIPPED MOTORCYCLES: Adjusting the fuel calibration and/or timing of an engine that is equipped with a catalyst equipped exhaust is likely to result in discoloration of Rinehart Racing slip on mufflers and will not be warrantied. As such, Rinehart Racing discourages altering or adjusting the OEM stock fuel calibration and/or timing of an engine that is equipped with a catalyst equipped exhaust.

Also, adjustment of fuel injection is REQUIRED to optimize performance and minimize chrome discoloration. We recommend that adjustment of fuel injection be performed by QUALIFIED technicians on a dynamometer utilizing an Exhaust Gas Analyzer.

## EMISSIONS NOTICE

The State of California does not permit the use of aftermarket exhaust systems that remove original equipment catalysts unless a California Air Resources Board (CARB) Executive Order has been issued. Exhaust systems that remove original equipment catalysts are legal in California for racing use only.

## CLEANING

Never use harsh chemicals or any type of abrasive material to clean the chrome or ceramic coating on this exhaust system. We recommend using a soft non-abrasive cloth with a mild detergent.

## CONTACT US

Rinehart Racing  
1-877-264-8282  
www.rinehartracing.com

16. Install a 2 1/8" barrel clamp (supplied) onto inlet end of the left muffler. Note: It is recommended a bead of Permatex Ultra Copper High Temp Silicone Sealer applied to muffler inlet. Now slide the muffler body onto the left rear header pipe, with the canister dimple toward the rear tire of the motorcycle. Install the 5/16"-18 x 5/8"L hex bolts (supplied) into the muffler mounting bracket with threads facing up and install through the OEM bracket assembly. Install 5/16"-18 locking nuts (supplied) and tighten. Torque 8-10lb-ft.
17. Tighten the rear cylinder exhaust flange nuts. Torque to 10-12lbs-ft.
18. Torque the transmission pan support bracket to 13-15 lbs-ft
19. Tighten the 2 1/8" barrel clamp on the left muffler inlet. Torque to 8-10lbs-ft.
20. Install the rear heat shields. See Fig 2 correct clamp orientation and tighten.
21. Install the front exhaust header, leave the exhaust flange nuts loose.
22. Install the supplied "P" clamp onto the front header pipe. Secure it to the support bracket located on the right side of the motorcycle just below the transmission cover with the OEM carriage bolt & nut. See Fig 3. Leave loose.
23. Install a 2 1/8" barrel clamp (supplied) onto inlet end of the right muffler. Note: It is recommended a bead of Permatex Ultra Copper High Temp Silicone Sealer applied to muffler inlet. Now slide the muffler body onto the right rear header pipe, with the canister dimple toward the rear tire of the motorcycle. Install the 5/16"-18 x 5/8"L hex bolts (supplied) into the muffler mounting bracket with threads facing up and install through the OEM bracket assembly. Install 5/16"-18 locking nuts (supplied) and tighten. Torque 8-10lb-ft.
24. Hand tighten the front cylinder exhaust flange nuts.
25. Hand tighten the side transmission support bracket.
26. After checking for proper alignment, torque the exhaust flange nuts to 10-12 lbs.-ft.
27. Torque the side transmission support clamp to 13-15lbs-ft.
28. Torque the 2 1/8" barrel clamp on the right muffler to 8-10lbs-ft.
29. Install the two O2 sensors into the threaded bungs located where the front and rear header cross each other, see Fig 4. Torque to manufacturers specifications.
30. Install the front heat shield. See Fig 5 for the correct clamp orientation and tighten.
31. Install right hand floor board using 3/8"-16x 3.25" bolt, OEM nut, and 1/2" round spacer for the front (place between frame and floorboard) 3/8 – 16 x 1.75" and peg spacer for the rear bolt.
32. **Important!** Wipe down complete system **before** starting bike to remove any finger prints or dirt. **Note: Finger prints that are not removed before running will become permanently etched in the pipes.**

Enjoy your new Rinehart System.

**IMPORTANT--** Check all fasteners after first ride and again at all service intervals.

### **RETURN & REFUND POLICY**

No return of merchandise will be accepted without first securing a Return Merchandise Authorization ("RMA") number provided by Rinehart Racing. Buyer must submit, in writing, evidence of purchase date, copy of invoice indicating goods purchased, reason for return, exchange or refund, and RMA number. At its sole discretion, Rinehart Racing may accept or deny the claim for return, exchange or damage. If accepted and if the goods have not be used and are in a resalable condition, Company shall provide refund within 30 days of purchase; subject to a fifteen percent (15%) restocking fee. If the product has been installed, no refund, return or exchange shall be allowed. No refund, return or exchange is allowed after 45 days from the date of invoice. Buyer is responsible for return freight, and must include all original packaging, materials, manuals, hardware and copy of invoice. All products returned must be securely packed and delivered to Company in an undamaged condition. Rinehart Racing may refuse or reject returned product for failure to follow the conditions set forth herein.

### **LIMITED WARRANTY**

**This Limited Warranty contains the sole express warranty made by Rinehart Racing ("Company") in connection with exhaust products sold by Company ("Product"). BY PURCHASING OR ACCEPTING THE PRODUCT, THE BUYER ACKNOWLEDGES THAT THE LIMITATION OF LIABILITY IS PART OF THE TERMS OF SALE, CONSTITUTES A BINDING AGREEMENT, AND MAY BE ENFORCED AGAINST YOU BY COMPANY. Any warranties, if separately provided in writing, are extended only to the Buyer whose name is shown on Company's invoice.**

Rinehart Racing exhaust products are warranted against defects in material or workmanship for a period of 18 months from the date of the original invoice. This does not cover finishes such as plating or painted surfaces with discoloration or rust. Discoloration is not a warrantable item and is a result of improper fuel calibration. This warranty shall be limited to the repair or replacement of the defective part, which may be proven defective under normal use. Rinehart Racing will not warranty any product that has been abused, misused, improperly installed, or modified. Any part that is repaired or replaced under this warranty will, itself, be warranted only for the remainder of the warranty period of the original product being repaired or replaced. This warranty is non-transferable and is limited to the original retail purchaser.

**BUYER'S SOLE AND EXCLUSIVE REMEDY AND RINEHART RACING'S SOLE LIABILITY FOR LOSS OR DAMAGE ARISING FROM PURCHASE OR USE OF THE PRODUCT SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE DEFECTIVE PART AT COMPANY'S SOLE DISCRETION. IN NO EVENT SHALL COMPANY BE LIABLE FOR ANY LOSS OF USE, REVENUES, OR ANTICIPATORY PROFIT, OR FOR ANY DIRECT, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR CONNECTED WITH THE SALE, USE, OPERATION, OR INABILITY TO USE OF PRODUCTS PURCHASED FROM COMPANY TO THE EXTENT PERMITTED BY LAW, COMPANY MAKES NO OTHER REPRESENTATIONS OR WARRANTIES, WHETHER EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ALL SUCH WARRANTIES ARE EXPRESSLY DISCLAIMED. IN NO EVENT SHALL COMPANY'S LIABILITY EXCEED THE AMOUNT OF THE PARTICULAR DEFECTIVE PRODUCT PAID BY THE PURCHASER. THIS LIMITATION OF LIABILITY SHALL BE APPLICABLE TO ANY CLAIM PRESENTED, WHETHER THE LEGAL THEORY FORMING THE BASIS OF SUCH CLAIM INVOLVES CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, STATUTE, REGULATION, CONSUMER PROTECTION LAWS OR OTHERWISE.**



Fig 1



Arrows indicate head direction

Fig 2



Fig 3

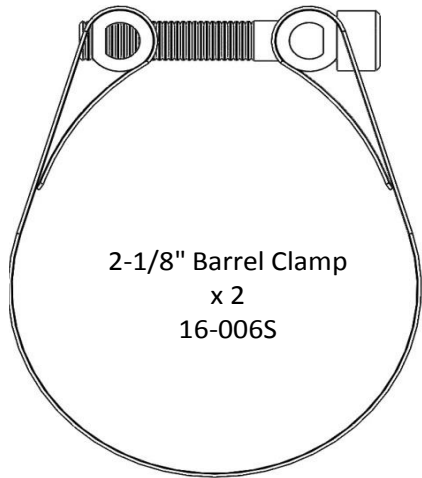


Fig 4

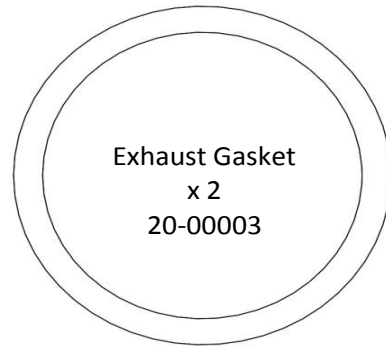


Heat shield clamps  
Arrows indicate head direction

Fig 5



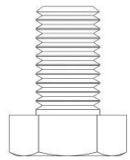
2-1/8" Barrel Clamp  
x 2  
16-006S



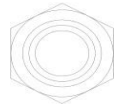
Exhaust Gasket  
x 2  
20-00003



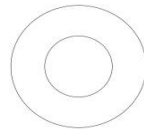
2-1/4" Stainless Steel Clamp  
x 10  
16-00285



5/16" x 5/8"  
Hex Bolt  
x 4  
35-00002



5/16"  
Locking Nut  
x 4  
35-00005



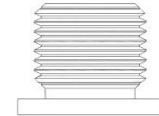
5/16"  
Flat Washer  
x 4  
35-00007



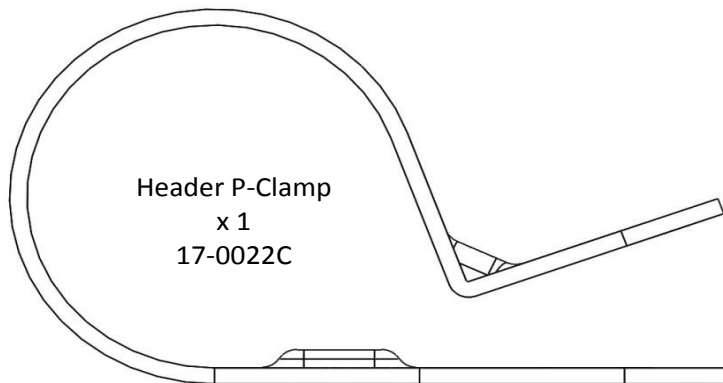
5/16" x 1-1/4"  
Flange Bolt  
x 1  
35-00010



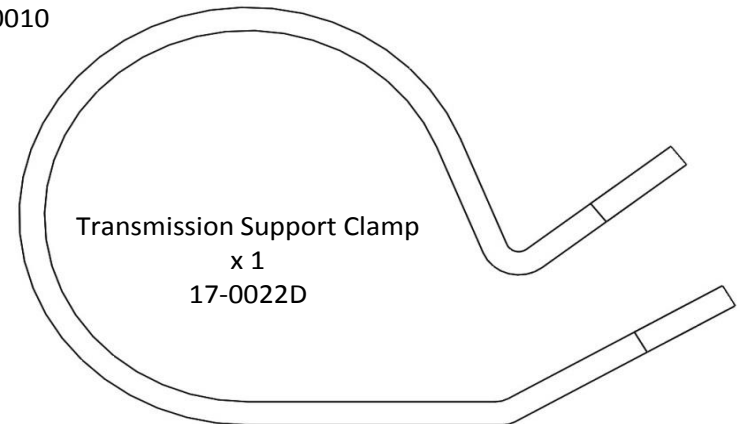
12mm  
O2 Bung Plug  
1 pair  
35-00085BA



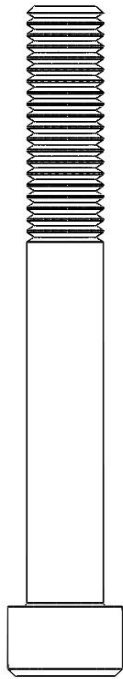
18mm  
O2 Bung Plug  
x 2  
35- 35-00083BA



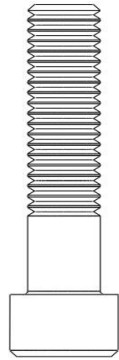
Header P-Clamp  
x 1  
17-0022C



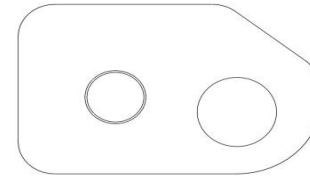
Transmission Support Clamp  
x 1  
17-0022D



3/8" x 3-1/4"  
Socket Head Cap Screw  
x 1  
35-00308



3/8" x 1-3/4"  
Socket Head Cap Screw  
x 1  
35-00306



1/2"  
Front Floorboard Peg Spacer  
x 1  
29-00300B



1/2"  
Front Floorboard Spacer  
x 1  
29-00028B