



## DYNA FIFTYTWO52 PART # 13-1009 & 13-1010 INSTALLATION INSTRUCTIONS

Congratulations, you are no longer on the beaten path. Sometimes the high road takes you to new places. You won't regret it, we never have. Our parts are expertly crafted and designed for maximum performance, deep throaty sound, perfect fit and innovative styling. Firebrand exhaust systems are the first choice for people whose passion is riding. Please follow the installation instructions below and if you have any questions, please call our technical support line Toll Free at 844-FIREONE (347-3663). Attention installer (if other than owner), please forward this instruction sheet to the owner of this product. These instructions contain valuable information to the end user.

### **THIS SYSTEM IS NOT COMPATIBLE WITH PASSENGER FOOTPEGS**

1. Remove seat to gain access to rear oxygen sensor connector. Unplug sensor and feed end of wire through frame so that it is free from motorcycle. NOTE: Pay attention to wire routing for re-installation.
2. Remove two bolts holding rectifier onto front of frame (near front tire). Open plastic cover to gain access to front oxygen sensor connector. Unplug sensor from harness.
3. Loosen heat shield clamps on both the front and rear head pipes.
4. Remove two cylinder exhaust port flange nuts from each head pipe, located at the cylinder head.
5. Remove front head pipe clamp bolt.
6. Remove the bolt that attaches mufflers to the frame mounting bar.
7. Remove the complete exhaust system and set aside. Assistance may be required.
8. Remove stock mounting bar and the studs in the transmission cover.
9. Additionally remove the left bolt below the transmission cover. Position mounting bracket over mounting location to determine which bolt to remove. Install this bolt in the top hole left vacant by the new bracket.
10. Carefully remove the flanges and circlips from the stock exhaust system using snapping pliers. NOTE: Replace bent or damaged circlips. Check exhaust port gasket condition. NOTE: We always recommended replacement of exhaust port gaskets, Harley part number: 65324-83B.
11. Remove stock oxygen sensors using the 9/16" or 14mm wrench (on 2006-2009 year models a 7/8" or 19mm wrench is required), set them aside as they will be re-used on new system.
12. Insert a supplied 5/16" x 1.75" hex bolt and washer into the top hole of bracket. Insert the 5/8" spacer between the bracket and transmission. Using the two remaining 5/16" x 1.75" hex bolts and washer combinations attach and tighten the bracket to the transmission.
13. Remove header pipe and heat shields from protective packaging. Place each heat shield on a non-abrasive surface such as a blanket or carpet. Using a felt tip pen (pencil on black systems), mark outside edge of each heat shield to show location of mounting clips where hose clamps will loop through.
14. Apply masking tape to the front edge of the muffler casing and the heat shields (including collector heat shield/ muffler clamp assembly) where they will butt up, this will help prevent scratching during installation. Lay head pipe into heat shields and loosely install hose clamps by feeding tail end of clamp into heat shield clips. Screw heads should be accessible when system is installed on motorcycle for adjustment purposes.
15. Apply a small amount of anti-seize compound to the threads of the O2 sensors and supplied adaptors (for 2010 and newer models). Install them into the new head pipes. NOTE: Be careful not to get anti-seize on sensor tip, it may affect sensor function.
16. Install circlips and flanges from the stock system onto the new head pipe.
17. Using stock flange nuts, carefully install head pipe into exhaust ports (Assistance may be required). NOTE: Do not tighten at this time.
18. Slide carriage bolts (supplied) inside bracket welded to backside of muffler body.
19. Slide collector heat shield/ muffler clamp assembly over the front of the muffler body and the muffler onto the head pipe collector. Attach muffler body to mounting bracket using flange nuts (supplied). NOTE: As you tighten the muffler to the bracket be certain that the carriage bolts are centered in the square holes and that the square portion of the shanks

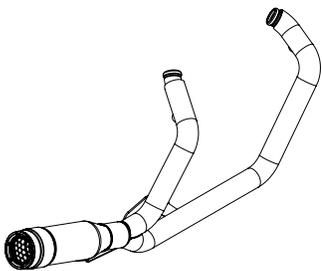
- are not hung up on the outer surface of the bracket.
20. Tighten cylinder port exhaust flange nuts on front and rear cylinders.
  21. Align and tighten collector heat shield/ muffler clamp there should be a small gap between the muffler casing and head pipe. Torque to 40-45 Ft/Lbs.
  22. Remove masking tape from muffler and heat shields and tighten all heat shield clamps. Take care to create a small even gap where the two shields nest together.
  23. Plug O2 sensors back into wiring harness and route wires away from hot areas of motorcycle.
  24. Check for adequate clearance of all exhaust system components and motorcycle accessories prone to heat damage.
  25. We highly recommend the use of thread locking compound on all hardware during installation. Be sure to tighten all hardware before starting motorcycle.
  26. Now get out there and RIDE!

### 13-1009 CHROME

After installation and before starting your motorcycle, clean pipes and mufflers with a cleaning solvent and a clean soft cloth that will not leave a residue. NOTE: Any residue, oil, or fingerprints will stain the chrome when the metal heats up.

### 13-1010 BLACK

After installation and before starting your motorcycle, completely clean mufflers with warm soapy water and a clean soft cloth. Dry with a clean towel. NOTE: any residue, oil, or fingerprints will stain the black ceramic coating. Do NOT use anything abrasive to clean the pipes as it may remove the finish.



#### DISCLAIMER

Firebrand exhaust systems are warrantied against defects in material and workmanship for a period of one year from the date of purchase from an authorized dealer. This warranty does not cover discoloration or rust of chrome finishes. This warranty is limited to the repair or replacement of a product proven to be defective from normal use. Firebrand exhaust systems are designed to fit and operate on OEM motor and chassis. This warranty does not cover any product subject to abuse, misuse, improper installation or modification. Every effort is made for Firebrand Exhaust Systems to provide improved cornering clearance. However, due to design and space limitations on some motorcycle models, ground and cornering clearance may not be improved and in some cases may be reduced. When changing out performance related components it is recommended to adjust fuel mapping to maximize performance and reliability. Be sure to follow proper installation instructions. Aftermarket products that remove OEM pollution control components are not permitted for street use in California. Please check with your local Municipality or visit the CARB website at [www.arb.ca.gov](http://www.arb.ca.gov).

#### TOOLS REQUIRED

- FLATBLADE SCREWDRIVER OR 5/16" NUTDRIVER
- 1/2", 9/16" & 7/8" COMBINATION WRENCHES
- RATCHET & EXTENSIONS, 1/2", 7/16" & 9/16" SOCKETS
- 3/16" & 1/4" ALLEN WRENCHES
- EXTERNAL SNAPRING & NEEDLE NOSE PLIERS
- TORQUE WRENCHES
- MASKING TAPE

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ANYTHING BUT NEUTRAL



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