



SOFTAIL FIFTYTWO52 PART # 12-1011 & 12-1012 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

2010 AND NEWER INSTRUCTIONS

1. Remove the motorcycle seat to access and unplug the rear O2 sensor from the wiring harness. Unplug front O2 sensor located behind the rectifier. Feed the end of the wires through the frame so they are free from the motorcycle. NOTE: Pay attention to wire routing for re-installation.
2. On models equipped with floorboards, loosen the right hand floorboard mounting bolts to gain clearance for exhaust removal and installation.
3. If equipped, unbolt the carriage bolt and clamp attached to the bracket under the right side transmission cover.
4. Loosen the heat shield clamps on both the front and rear exhaust pipes to allow access to the head pipe mounting nuts.
5. Remove the two head pipe mounting nuts from each flange located at the cylinder head.
6. Remove the nuts attaching the exhaust mount bracket to the frame.
7. Remove the entire exhaust system and set it aside.
8. Remove the two mounting studs from the frame below and aft of the transmission.
9. Using a 9/16" or 14mm wrench, carefully remove the O2 sensors from the stock head pipes and save for re-use with the new system.
10. Carefully remove exhaust port 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. Install and tighten supplied mounting bracket using supplied button head bolts. NOTE: The bracket mount to the chassis at the swingarm pivot with the welded on washers up against the chassis.
12. Remove header pipes 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.
13. 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.
14. Apply a small amount of anti-seize compound to the threads of the O2 sensors and supplied adaptors. Install them into the new head pipe. NOTE: Be careful not to get anti-seize on sensor tip, it may affect sensor function.
15. Using snapping pliers install circlips and flanges from the stock system onto new head pipe.
16. Using stock flange nuts, carefully install head pipe into exhaust ports (Assistance may be required). NOTE: Do not tighten at this time.
17. Slide carriage bolts (supplied) inside bracket welded to backside of muffler body.
18. 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.
19. Tighten cylinder port exhaust flange nuts on front and rear cylinders.
20. 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.
21. Plug O2 sensors back into wiring harness and route wires away from hot areas of motorcycle.
22. On models with floorboards use the six supplied washers to space out the the floorboard mount (2 per each bolt) sandwiched between the mount plate and the chassis.
23. Check for adequate clearance of all exhaust system components and motorcycle accessories prone to heat damage.
24. We highly recommend the use of thread locking compound on all hardware during installation. Be sure to tighten all hardware before starting motorcycle.
25. Replace motorcycle seat.
26. Now get out there and RIDE!

12-1011 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.

12-1012 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.

1986 - 2009 INSTRUCTIONS

NOTE: These instructions are written for late model motorcycles equipped with O2 sensors. If you are installing these pipes on a bike which is not equipped with O2 sensors, ignore all instructions which reference them. Additionally you will need to purchase O2 sensor block off kits P/N 99-1002 (sold individually). This kit does contain all necessary hardware to install the right side passenger footpeg on 1999-2009 model softails.

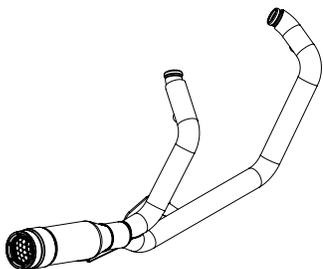
1. Under the oil tank on the right hand side access and unplug the rear O2 sensor from the wiring harness. Unplug front O2 sensor located behind the rectifier. Feed the end of the wires through the frame so they are free from the motorcycle. **NOTE:** Pay attention to wire routing for re-installation.
2. On models equipped with floorboards, loosen the right hand floorboard mounting bolts to gain clearance for exhaust removal and installation.
3. If equipped, unbolt the carriage bolt and clamp attached to the bracket under the right side transmission cover.
4. Loosen the heat shield clamps on both the front and rear exhaust pipes to allow access to the head pipe mounting nuts.
5. Remove the two head pipe mounting nuts from each flange located at the cylinder head.
6. Remove the nuts attaching the exhaust mount bracket to the frame.
7. Remove the entire exhaust system and set it aside.
8. Remove the two mounting studs from the frame below and aft of the transmission.
9. Using a 7/8" or 22mm wrench, carefully remove the O2 sensors from the stock head pipes and save for re-use with the new system.
10. Carefully remove exhaust port 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. Install and tighten supplied mounting bracket using supplied button head bolts. **NOTE:** The bracket mount to the chassis at the swingarm pivot with the welded on washers up against the chassis.
12. Remove header pipes 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.
13. 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.
14. Apply a small amount of anti-seize compound to the threads of the O2 sensors install them into the new head pipe. **NOTE:** Be careful not to get anti-seize on sensor tip, it may affect sensor function.
15. Using snapping pliers install circlips and flanges from the stock system new head pipe.
16. Using stock flange nuts, carefully install head pipe into exhaust ports (Assistance may be required). **NOTE:** Do not tighten at this time.
17. Slide carriage bolts (supplied) inside bracket welded to backside of muffler body.
18. 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. Tighten cylinder port exhaust flange nuts on front and rear cylinders.
19. 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.
20. Plug O2 sensors back into wiring harness and route wires away from hot areas of motorcycle.
21. Check for adequate clearance of all exhaust system components and motorcycle accessories prone to heat damage.
22. We highly recommend the use of thread locking compound on all hardware during installation. Be sure to tighten all hardware before starting motorcycle.
23. Replace motorcycle seat.
24. Now get out there and RIDE!

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DISCLAIMER

Firebrand exhaust systems are warranted 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.

TOOLS REQUIRED

- FLATBLADE SCREWDRIVER OR 5/16" NUTDRIVER
- 1/2", 9/16" & 7/8" COMBINATION WRENCHES
- RATCHET & EXTENSIONS, 1/2", 9/16" & 3/4" SOCKETS
- 3/16", 7/32" & 5/16" ALLEN & T45 & T50 TORX WRENCHES
- EXTERNAL SNAPPING & NEEDLE NOSE PLIERS
- TORQUE WRENCHES
- MASKING TAPE

firebrand[™]
ANYTHING BUT NEUTRAL

