

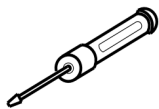
SAWICKI SPEED

HIGH PERFORMANCE EXHAUST

99-2018 Twin cam Softail/Heritage

Installation Instructions

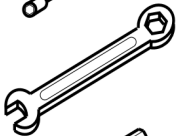
TOOLS REQUIRED



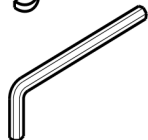
Flat blade screwdriver



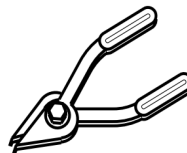
5/16" Nutdriver



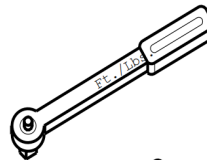
1/2", 9/16", & 14mm
Combination Wrenches



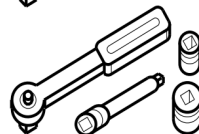
5/32", 3/16", & 5/16"
Allen Wrench



Snap ring Pliers



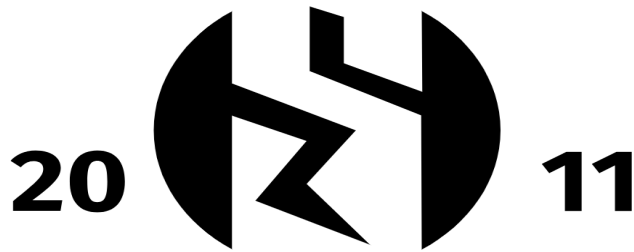
Ft.Lb. Torque Wrench



Ratchet & Extensions

1/2", 19mm or 3/4"
Sockets

9/16" & 15mm deep
sockets

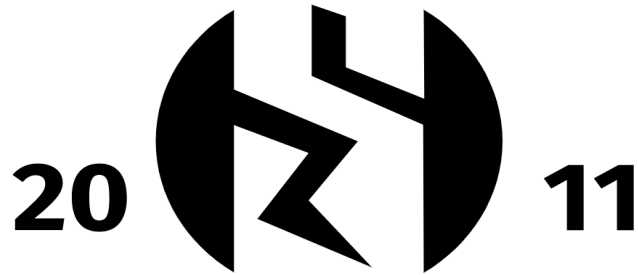


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HIGH PERFORMANCE EXHAUST

STOCK EXHAUST SYSTEM REMOVAL

1. Locate the rear O2 sensor connector. Remove the two bolts holding the right side cover in place and gently pull the cover off the bike. *NOTE: Pay attention to the wire routing for re-installation.*
2. Locate the front O2 sensor connector. Unplug the sensor and feed the end of the wire through the frame, freeing it from the motorcycle.
3. On Floor board models, loosen the right-hand floorboard mounting bolts to gain clearance for the exhaust removal and installation.
4. On Mid Mount models remove the forward brake rod bolt and remove the mid mount foot peg bracket.
5. Loosen the heat shield clamps on both the front and rear exhaust pipes.
6. Remove the bolts attaching the mufflers to the mounting bracket and loosen the muffler bolts and remove the mufflers.
7. Remove the two mounting nuts from each head pipe, located at the cylinder head.
8. Remove the entire exhaust system and set it aside.
9. Remove the stock mounting bracket.
10. Carefully remove the exhaust port flanges and circlips from the stock exhaust system using the snap ring pliers. *NOTE: Replace bent or damaged circlips.*
11. Carefully remove the O2 sensors from the stock head pipes and save for reuse with the new system.
12. make sure and remove the Stock OE tapered exhaust gaskets, they can't be used with the Sawicki exhaust.



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SAWICKI EXHAUST SYSTEM INSTALL

***NOTE:** Use appropriate Harley-Davidson service manual procedures and torque specs when referring to exhaust installation.*

1. Install the supplied hanger bracket to your bike at the location you removed the OEM bracket from. Use the two $\frac{3}{8}$ $\frac{5}{8}$ serrated bolts and washers to secure the bracket to the rear portion of the frame. You may also need to raise your passenger peg up to the higher position
2. Install circlips and flanges from the stock system onto both the new head pipes. This is very important to make sure you have the clips installed the correct way and that they get seated all the way down into your OE flanges. This will cause improper fitment if not done correctly.

(Fig1) is the clip and flange. (Fig2) clip installed in the right direction and seated. (Fig3) NOT seated and clip in the wrong direction



Fig1



Fig2



Fig3

3. Apply a small amount of anti-seize compound to the threads of the O2 sensors and install them into the new head pipe. Install supplied 18mm to 12mm oxygen sensor adapter then install 12mm oxygen sensors.
4. Install the supplied exhaust gaskets
5. Install the front header first and then the rear header assembly into the exhaust port first using the supplied exhaust gaskets. Use the stock flange nuts, do not tighten at this time the pipes need to be able to have movement.
6. Install the muffler onto the primary's be sure to make sure the primary's are seated all the way into the collector. Install the muffler pipe springs using the supplied pipe spring puller. Use the supplied 5/16 bolts and the dogbone tab to bolt to the muffler bracket. don't tighten all the way.
7. Make sure the pipes are oriented in a proper angle with the hanger bracket and not in a bind. Now tighten down the head pipe flange bolts to around 99 in lb . Tightening them down evenly Now you can tighten the two muffler bolts.
8. Route O2 sensor wires away from hot areas of the motorcycle. Plug the O2 sensor wires back into the wiring.
9. On floorboard models or bikes with pegs re-install. Install needed spacers. and tighten the mounting bolts.

10. On systems with billet end caps it's always good to go back after the first heat cycle and recheck the 3 Allen bolts that hold the tip to the muffler to make sure they are tight.

11. Be sure to tighten all hardware before starting the motorcycle. After installation and before starting the motorcycle, completely clean pipes with alcohol or brake cleaner. ***NOTE: Any residue, oil, or fingerprints will stain the brushed stainless when the metal heats up.***

Supplied parts

- Two 5 1/16 serrated bolts
- One DogboneTab/w welded nuts
- Two 5 1/16 flat washers

- Two $\frac{3}{8}$ x 5 $\frac{1}{8}$ serrated bolts
- Two $\frac{3}{8}$ washers
- Two stainless Exhaust springs
- One exhaust pipe spring puller
- Two Exhaust Gaskets
- Two M8 Reducers
- One Exhaust hanger bracket

Checked by _____

***NOTE:** If you have coated pipes it is advised to make sure the inside of the collector muffler is free and clear of excess coating not allowing the primary pipes to slide together freely. A barrel sander or similar or sandpaper should do the job.*