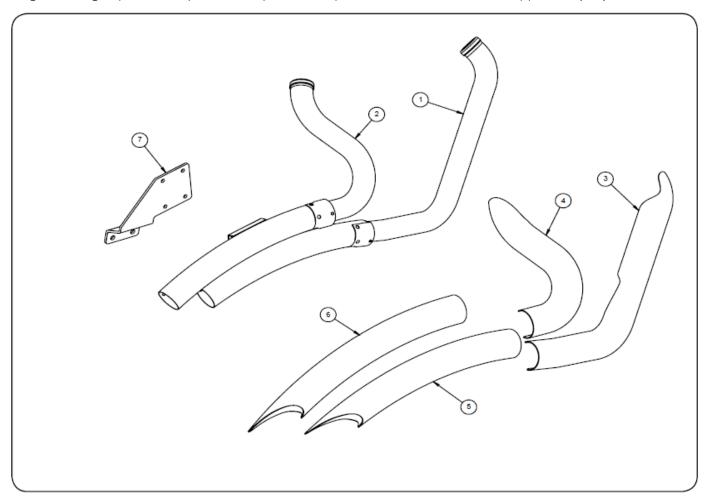


INSTALLATION INSTRUCTIONS: HARLEY-DAVIDSON SOFTAIL 2010-2017 BIG RADIUS 2-INTO-2 PART# 26369

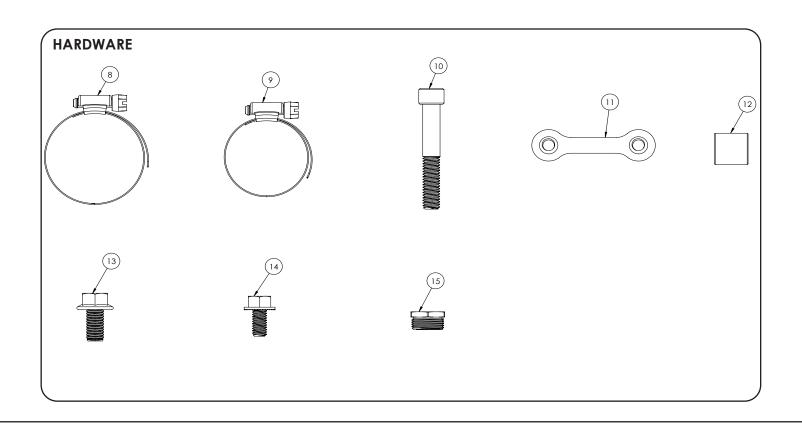
Congratulations, you have purchased the finest exhaust system available for your motorcycle. Your Vance & Hines exhaust is designed and crafted for performance, quality, and style. Please follow the instructions below, check exhaust system for missing or damaged parts and if you need any assistance please contact our technical support line (562) 921-7461.

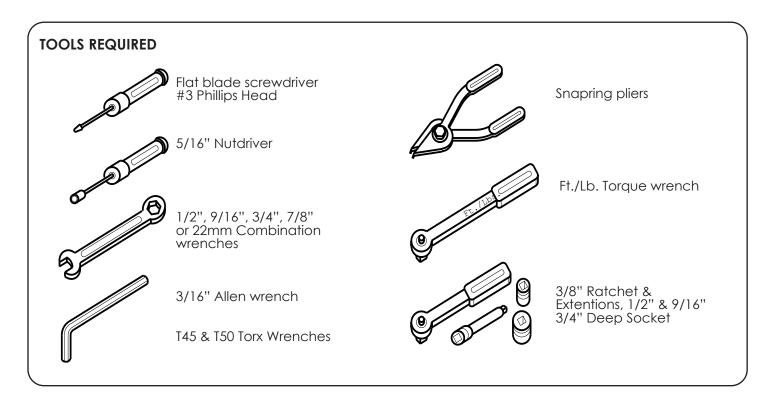


PARTS LIST			
NO.	Part NO.	Description	Qty.
1	D132FC	Front Head Pipe	1
2	D133FC	Rear Head Pipe	1
3	D132HC	Front Heat Shield	1
4	D456HC	Rear Heat Shield	1
5	D308HC	Front Muffler Heat Shield	1
6	D309HC	Rear Muffler Heat Shield	1
7	352-P	Mount Bracket	1
8	A272HW	1.31-2.25 In. Hose Clamp	4
9	A270HW	.81-1.75 In. Hose Clamp	5

10	A101HW	3/8-16 x 2.5 In. SHCS	1
11	A195HW	Dog Bone Nut Plate	2
12	D110ST-P	Spacer	1
13	A290HW	3/8-16 x 3/4 Flange Screw	2
14	A240HW	5/16-18 x 5/8 Flange Screw	4
15	A644ST	18-12mm O2 Adaptor	2

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STOCK EXHAUST REMOVAL

- 1. Rear O2 sensor, locate the O2 sensor connector, unplug the connector from the main harnessand feed the wire through the frame to free it from the motorcycle. Pay attention to the wirerouting for reinstallation. NOTE: For 2010 to 2011 models the connector is located under theoil tank, on the right side. For 2012 & Later models the connector is located under the seat, remove both the seat and the battery for access.
- 2. Front O2 sensor, Locate the O2 sensor connector at the front of the motorcycle, unplugconnector from harness, and free the sensor lead from the motorcycle. NOTE: For 2010 to 2011 Models, open the plastic cover above the rectifier to gain access to the sensor plug. Cut thecable ties holding the sensor wire to frame.
- 3. On models with floor boards, loosen the right hand floor board mounting bolts to gainclearance for exhaust removal and installation.
- 4. On FLSTF, FXS and FLSTN and FXSTD, you will need to remove the right side passenger footpegand hanger, as this is attached to the exhaust mount bracket. Leave the footpeg and hangeroff, additional reinstallation instructions to follow.
- 5. Unbolt the carriage bolt and clamp attached to the bracket located under the right sidetransmission cover.
- 6. Loosen the heat shield clamps on both front and rear exhaust pipes.
- 7. Remove the two mounting nuts from each head pipe.
- 8. Remove the nuts attaching the exhaust mounting bracket to the frame.
- 9. Remove the exhaust system and set it aside. Assistance may be required.
- 10. Carefully remove the O2 sensors from the stock head pipes.
- 11. Remove the stock mounting bars, brackets and/or studs
 - 2010 & Later Models: Using a T50 Torx driver, remove the three mounting bolts and mountingbar. Two of the T50 bolts are visible, the third also attaches the right hand passenger peg andis accessed by removing the foot peg. Re-install the foot peg using the 3/8"x2 1/2" capscrewwith the 3/4" spacer.
- 12. Carefully remove exhaust port flanges and circlips from the stock exhaust system using snapringpliers. NOTE: Replace bent or damaged circlips.
- 13. Check condition of exhaust gaskets and replace if worn or damaged.

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VANCE & HINES EXHAUST INSTALLATION

- 1. Install bracket (stamped 352-P) (supplied) using the two lower holes in the frame below theright passenger footpeg, using two 3/8" x 3/4" flange bolts (supplied) (**Figure 1**).
- 2. Remove head pipes and heat shields from protective packaging. Place each heat shield on anon-abrasive surface such as a blanket or carpet. Using a pencil only, mark the outside edgeof each heat shield to show the location of the hose clamp mounting clips (**Figure 3**).
- 3. Lay head pipes into head pipe heat shields (**Figure 2**) and loosely install the #20 hose clamps(supplied) into mounting clips (**Figure 3**). **NOTE:** Screw head should be accessible when systemis installed on motorcycle for adjustment purposes (**Figure 4**). Do not tighten at this time.
- 4. Apply a small amount of anti-seize compound to the threads of the O2 sensors removedfrom the stock head pipes and install them into the new pipes. NOTE: 2010 to 2011 models ormodels using 18mm wideband oxygen senors install sensor directly into the head pipe. 2012 to 2014 models install supplied 18mm to 12mm oxygen sensor adapter then install 12mm oxygensensors (Grey connector into front head pipe, Black connector into rear head pipe.) All modelsnot using oxygen sensors install 18mm plug with the copper crush washer.
- 5. Install circlips and flanges from stock system onto both new head pipes (**Figure 5**).
- 6. Using stock flange nuts, carefully install head pipes onto motorcycle. Do not tighten at this time.
- 7. Use the nut plates and 5/16" x 5/8" flange bolts (supplied) to attach the pipes to the bracket (**Figure 6**). Do not tighten at this time.
- 8. Align pipes on motorcycle so the gap between the two muffler bodies is consistent from frontto rear (**Figure 7**). Tighten the exhaust port flange nuts, 5/16" x 5/8" flange head bolts (supplied) and the 3/8"x 3/4" flange head bolts (supplied) attaching the bracket to the frame.
- 9. Using the #28 hose clamps (supplied) install the muffler heat shields beginning with the D322HPon the front head pipe followed by the D323HP (Chrome badge) on the rear head pipe. Screwheads should be accessible for adjusment purposes (**Figure 4**). Do not tighten at this time.
- 10. Adjust all heat shields for the best alignment at the seam where they meet (**Figure 8**) and tighten all the hose clamps.
- 11. Route O2 senor wires away from hot areas of the motorcycle. Plug the O2 sensor wires backinto the wiring harness: For 2012 & Later, feed wire for the rear O2 sensor (Black) aroundthe frame and under the seat. Re-install the battery, plug the sensor into the stock wiringconnector. Feed connector for the front oxygen sensor (Gray) around the frame and into theholder on the frame behind the rectifier. Plug the sensor into the stock wiring connector. For 2010 to 2011 models, feed the wire for the front oxygen sensor around and into the plasticholder on the frame. Plug the sensor into the stock wiring connector. Snap the plastic holderclosed to hold the connector in place. Install a new nylon cable tie to hold the wires onto theframe in the original location. Feed connector for the rear oxygen sensor around the frameunder the oil tank on the right hand side. Plug the sensor into the stock wiring connector.
- 12. Re-tighten floor board mounting bolts on models equipped.
- 13. Be sure to tighten all hardware before starting motorcycle.
- 14. After installation and before starting the motorcycle, completely clean pipes and mufflers withwarm soapy water and a clean soft cloth that will not leave a residue. **NOTE:** Any residue, oil, orfingerprints will stain the chrome when the metal heats up.

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EXAUST CARE

- 1. When installing a new set of chrome pipes, make sure your hands are clean and free of oil. After installation, thoroughly clean pipes with warm soapy water and a soft cloth. Dry with clean towel to remove any residue before starting the motorcycle. Do NOT use anything abrasive to clean pipes.
- 2. Avoid long periods of idling as this can cause discoloration.
- 3. Intake leaks can cause the engine to run lean and overheat, this could lead to discoloration.
- **4.** Make sure there are no exhaust leaks at the junction of the exhaust pipes and cylinder head. We recommend replacing gaskets if they are worn.

FIGURE 1

Install 352-P Bracket

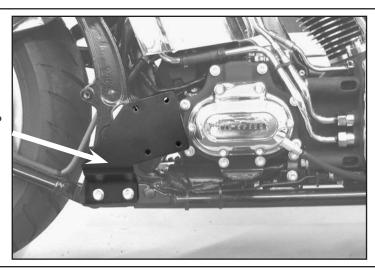


FIGURE 2

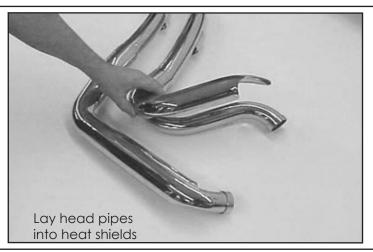
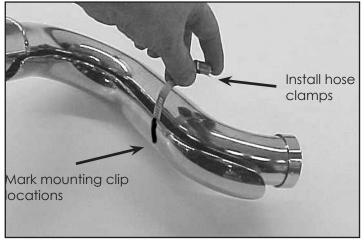


FIGURE 3



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FIGURE 4

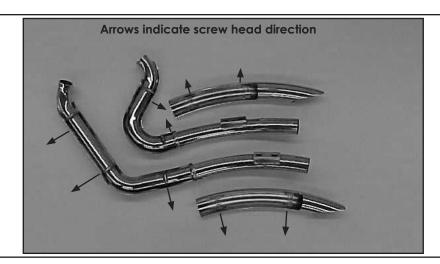
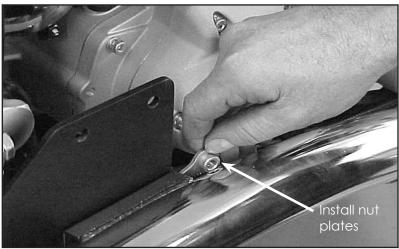


FIGURE 5

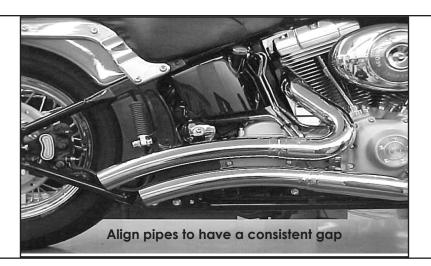


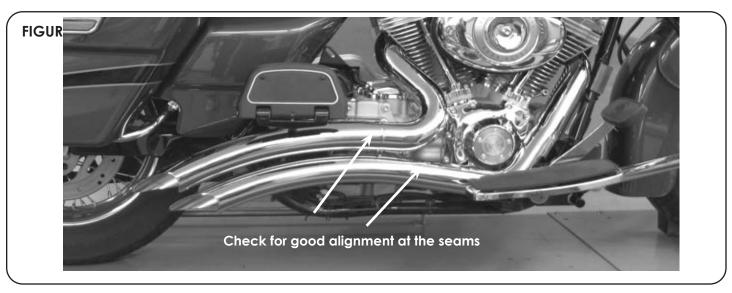
FIGURE 6



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FIGURE 7





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