



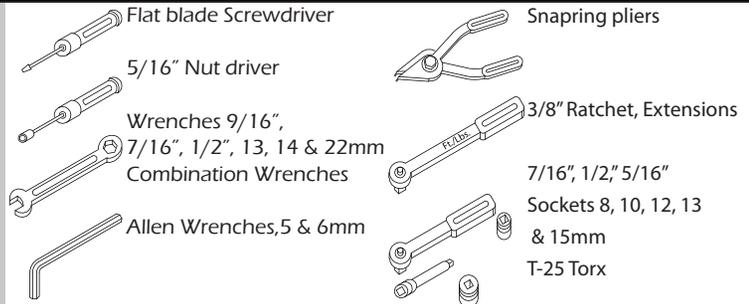
MORE POWER : LESS NOISE



Congratulations, you have purchased the finest exhaust system available for your motorcycle. Your Vance & Hines exhaust is designed and crafted for maximum performance, a great sound and unbeatable 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.

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.

**TOOLS
REQUIRED**



READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

Note: (Make sure key switch and handlebar run switch is in off position)

IDENTIFY PASSENGER FOOTPEG MOUNTING LOCATION

Footpeg mount on swingarm - refer to early model removal instructions.
Footpeg mount on frame - refer to late model removal instructions.

STOCK EXHAUST SYSTEM REMOVAL (EARLY MODELS)

1. Locate the O2 sensor connectors, the front one is behind the radiator valance and the rear one under the seat. Unplug sensors and feed the end of wire through the frame freeing it from motorcycle. NOTE: Pay attention to wire routing for re-installation.
2. Loosen nose slip clamp at front of muffler section using 12mm socket.
3. On '08 and previous models , remove two 6mm Allen bolts connecting lower muffler to mounting bracket (Figure 1).
4. On '08 and previous models, remove and discard the original mounting bracket.
5. Remove the entire muffler section from the headers as a single unit.
6. Remove front sprocket cover (on left side of bike) to gain access to rear cylinder flange nuts.
7. Loosen the head pipe heat shields. Remove the exhaust port flange nuts at both cylinders and remove both head pipes.
8. 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.

9. Remove exhaust flanges and circlips for re-use.

STOCK EXHAUST SYSTEM REMOVAL (LATER MODELS)

10. Loosen nose slip clamp at the front of the muffler section using a 13mm socket.
Note: WD-40 at the joint may assist in removal.
11. Remove the three 6mm allen bolts holding the muffler assembly to the bike. Their locations are: rear footpeg mount, muffler to mounting bar and center of the muffler mounting bracket.
12. Remove the passenger footpeg from the frame to facilitate removal of muffler assembly.
13. Carefully remove muffler and collector assembly from motorcycle.
14. On models with O² sensors it will be necessary to disconnect the sensor wires from the wire harness.
15. Remove nuts from both front and rear exhaust cylinder head flanges using a 13mm socket or wrench.
16. Carefully remove head pipes from motorcycle.
17. Using a 7/8" or 22mm wrench (on 2012 models use a 14mm wrench), carefully remove the O² sensor from the stock head pipes and save for re-use with the new system.
18. Remove the stock exhaust flanges and circlips from both the front and rear head pipes.
19. Remove the stock mounting bar.

STOCK EXHAUST REMOVAL



If the circlips are bent or twisted they should be replaced, Harley-Davidson part number #65045-01.

We also recommend replacing the stock exhaust gaskets, Harley-Davidson part number #65109-01

COMPETITION SERIES EXHAUST SYSTEM INSTALLATION

Refer to (Table 1) for model identification.

1. Identify front head pipe D216FB. If equipped with 12mm O² sensors install at this time, record how the O² plug wires are routed, refer to (Figure 6 & 7) Install the stock flange and circlip, install head pipe leaving the flange nuts hand tight.
Note: (If equipped with 12mm O² sensors install the 18mm O² plugs. At this time, if equipped with with the 18mm O² sensors install the 18mm O² plugs.)
2. Repeat the above step for the rear head pipe D217FB.
3. For model frame code "■", go to step 6.
4. For model frame code "▶", locate adapter bracket 677-P refer to (Figure 2) for mounting location. Install the bracket using the original hardware, torque to 15-18 ft/lbs.
5. For model frame code "▶" & "●", install the megaphone mounting bracket 676-P (with grommet) to the megaphone with two 5/16" flange bolts and dog bone nut plate supplied. First slide the

dog bone nut plate inside the bracket welded to the back of the megaphone then attach and align bracket, refer to (Figure 8) leave the bolts hand tight at this time.

6. Slip the megaphone/collector assembly onto the head pipes. Align megaphone mounting bracket for model frame code "●" to the frame by using supplied M8 x 25mm socket head cap screw and a flat washer on each side of the grommet, use a medium strength loctite® and torque to 18 ft/ lbs., refer to (Figure 3). Secure the four springs supplied using the spring puller tool.
7. For model frame code "▶" align the megaphone mounting bracket to the adapter bracket attach it with the supplied M8 x 30mm socket head cap screw and locknut. Use a flat washer on each side of the grommet.
8. Rotate the exhaust so there is adequate clearance in all places. Clearance at the clutch cover should be at least 1/4".
Note: Models with mid control footpegs should check clearance between the brake pedal and the megaphone with the brake pedal fully depressed.

FIGURE 1

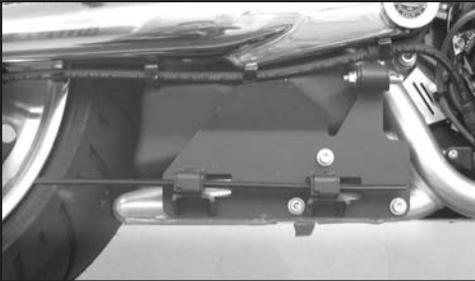


FIGURE 2



FIGURE 3

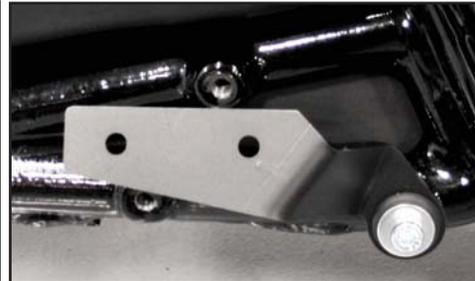


FIGURE 4



FIGURE 5



FIGURE 6



FIGURE 7



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9. Tighten the cylinder head flange nuts for both the front and rear head pipes. On Models using mounting brackets tighten all remaining hardware.
10. Models with O² sensors (18mm only) reinstall the O² sensors previously removed, refer to (Figure 4) for front cylinder and (Figure 5) for rear cylinder wire routing. On 2012 Models refer to (Figure 6 & 7)
11. Tighten the O² plugs on the front and rear head pipes.
12. Make sure the oil line is not touching the front head pipe. If necessary, loosen the ties and rotate the oil line away from head pipe, re-tie the oil line to the fan mount.
13. On later models replace the passenger foot peg removed on step 12 from the later model stock exhaust removal instructions.

14. Clean all fingerprints from the exhaust using a contact cleaner (or other non flammable cleaner). Fingerprints will leave stains on the pipe once the motorcycle is started.
15. You are now ready to start the motorcycle.

Note: After initial ride it is recommended to re-torque the baffle screw to 8-10 lb. using a 5/32" allen wrench and retighten the cylinder head flange nuts.

For best results, we recommend fuel injection mapping for your new combination using a Fuelpak or Power Commander. Settings for the Fuelpak and some Power Commander maps are available on our website at www.vanceandhines.com

Table 1

Model Code	Model	Description	Year
Model "▶"			
	VRSCA	V-Rod, Original	02-06
	VRSCB	V-Rod, Standard Black Frame	04-05
	VRSCSE	CVO	05
	VRSCSE -2	CVO	06
Model "■"			
	VRSCR	Street Rod	06-07
	VRSCD	Night Rod	06-08
Model "●"			
	VRSCDX	Night Rod Special Edition	07-12
VRSC	VRSCAW	Standard V-Rod	07-12
	VRSCX	Vance & Hines Tribute	07

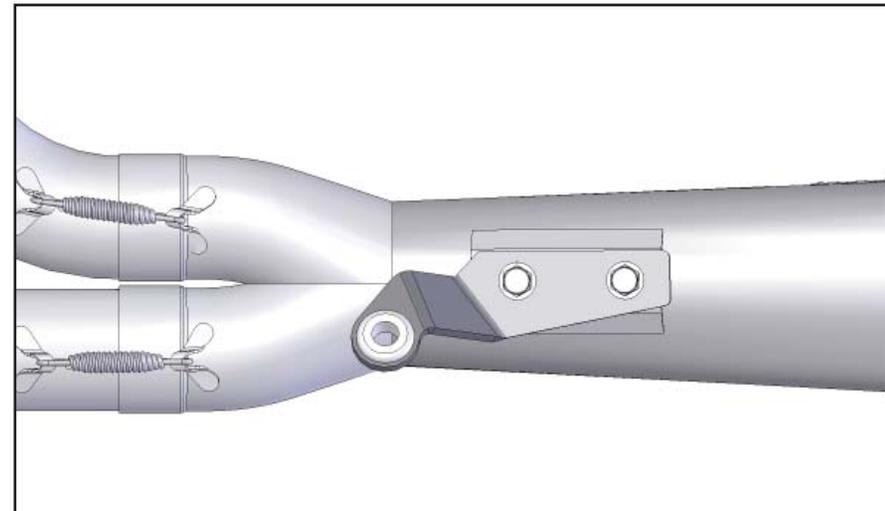


Figure 8

EXHAUST CARE - HELPFUL HINTS KEEP YOUR EXHAUST LOOKING NEW

1. When installing a new set of Stainless Steel 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.

PLEASE NOTE: Every effort is made for Vance & Hines 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. Be sure to follow proper installation instructions.



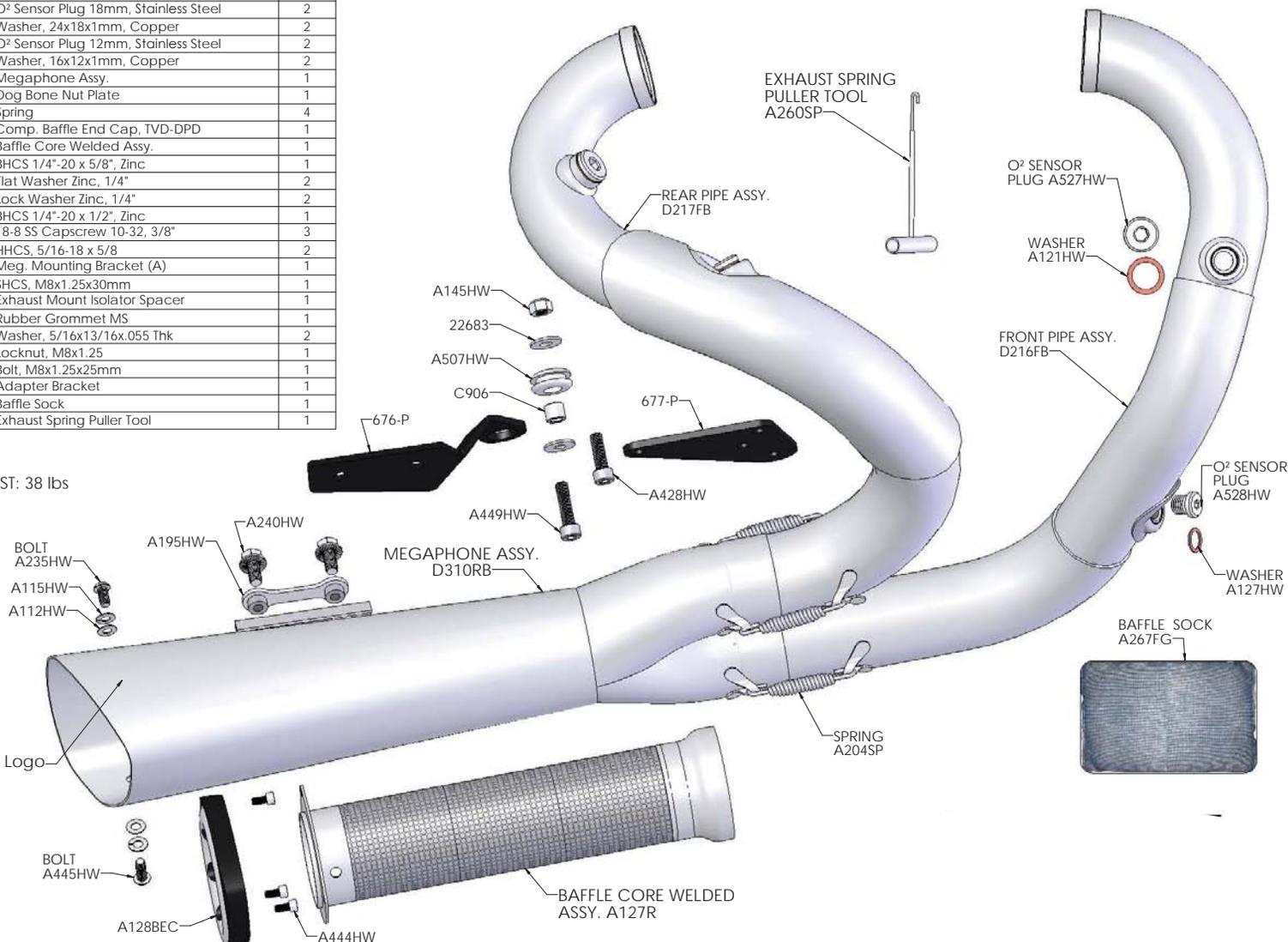
PACKING LIST

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ALL PARTS SHOWN ARE INCLUDED

75-113-4 PARTS LIST		
PART NO.	DESCRIPTION	QTY
D216FB	Front Pipe Assy.	1
D217FB	Rear Pipe Assy.	1
A527HW	O ² Sensor Plug 18mm, Stainless Steel	2
A121HW	Washer, 24x18x1mm, Copper	2
A528HW	O ² Sensor Plug 12mm, Stainless Steel	2
A127HW	Washer, 16x12x1mm, Copper	2
D310RB	Megaphone Assy.	1
A195HW	Dog Bone Nut Plate	1
A204SP	Spring	4
A128BEC	Comp. Baffle End Cap, TVD-DPD	1
A127R	Baffle Core Welded Assy.	1
A445HW	BHCS 1/4"-20 x 5/8", Zinc	1
A112HW	Flat Washer Zinc, 1/4"	2
A115HW	Lock Washer Zinc, 1/4"	2
A235HW	BHCS 1/4"-20 x 1/2", Zinc	1
A444HW	18-8 SS Capscrew 10-32, 3/8"	3
A240HW	HHCS, 5/16-18 x 5/8	2
676-P	Meg. Mounting Bracket (A)	1
A449HW	SHCS, M8x1.25x30mm	1
C906	Exhaust Mount Isolator Spacer	1
A507HW	Rubber Grommet MS	1
22683	Washer, 5/16x13/16x.055 Thk	2
A145HW	Locknut, M8x1.25	1
A428HW	Bolt, M8x1.25x25mm	1
677-P	Adapter Bracket	1
A267FG	Baffle Sock	1
A260SP	Exhaust Spring Puller Tool	1

STOCK EXHAUST: 38 lbs
75-113-4: 8 lbs



WARRANTY

Vance & Hines products are warranted against defects in material and workmanship for a period of 90 days from the date of purchase from an authorized dealer. This warranty does not cover discoloration of chrome finishes. This warranty is limited to the repair or replacement of a product proven to be defective from normal use. Vance & Hines products 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.