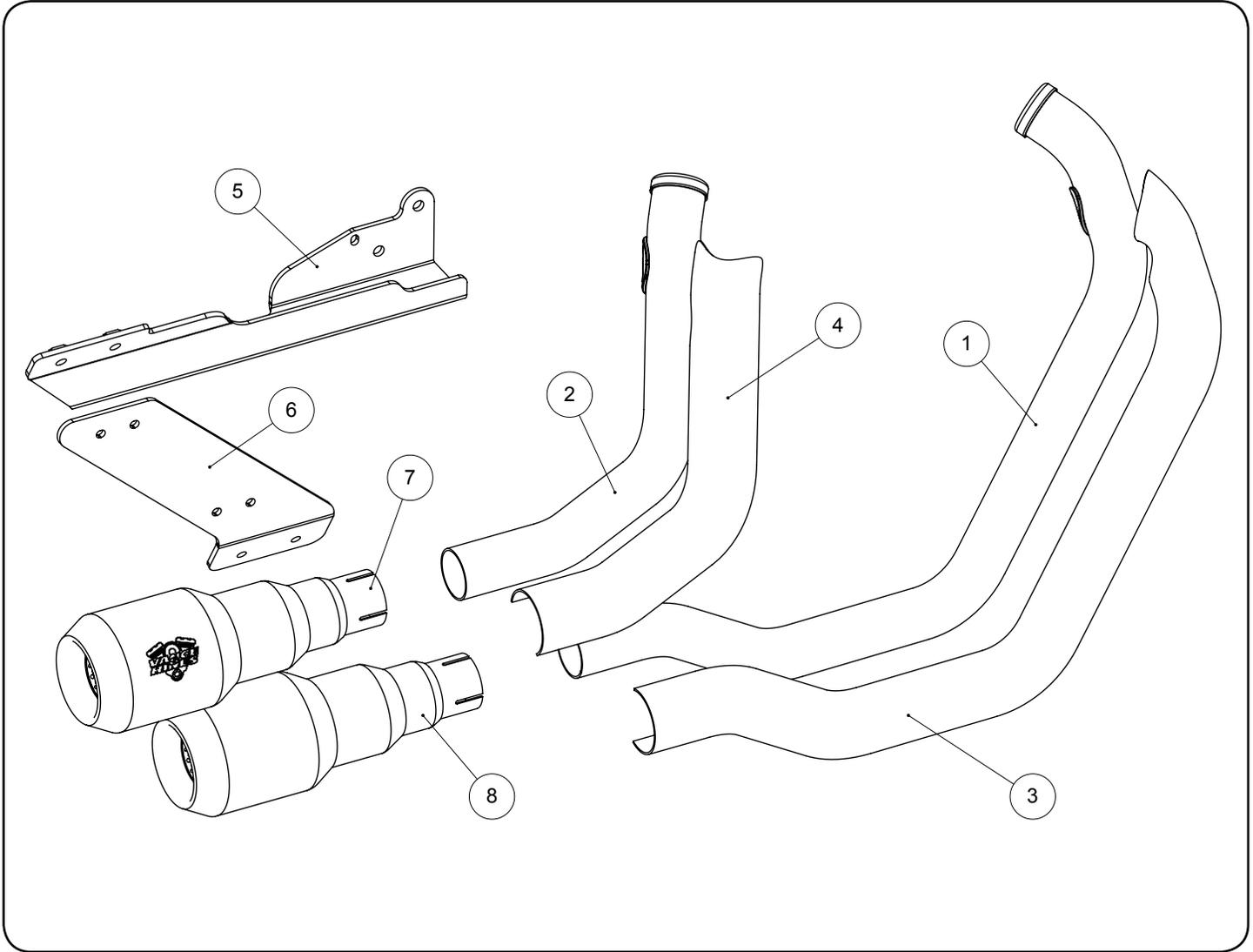


Congratulations, you have purchased the finest exhaust system available for your motorcycle. Your Vance & Hines exhaust is designed and crafted for performance, quality, and style. Please follow the instructions below, check exhaust system for missing or damaged parts and if you need any assistance please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

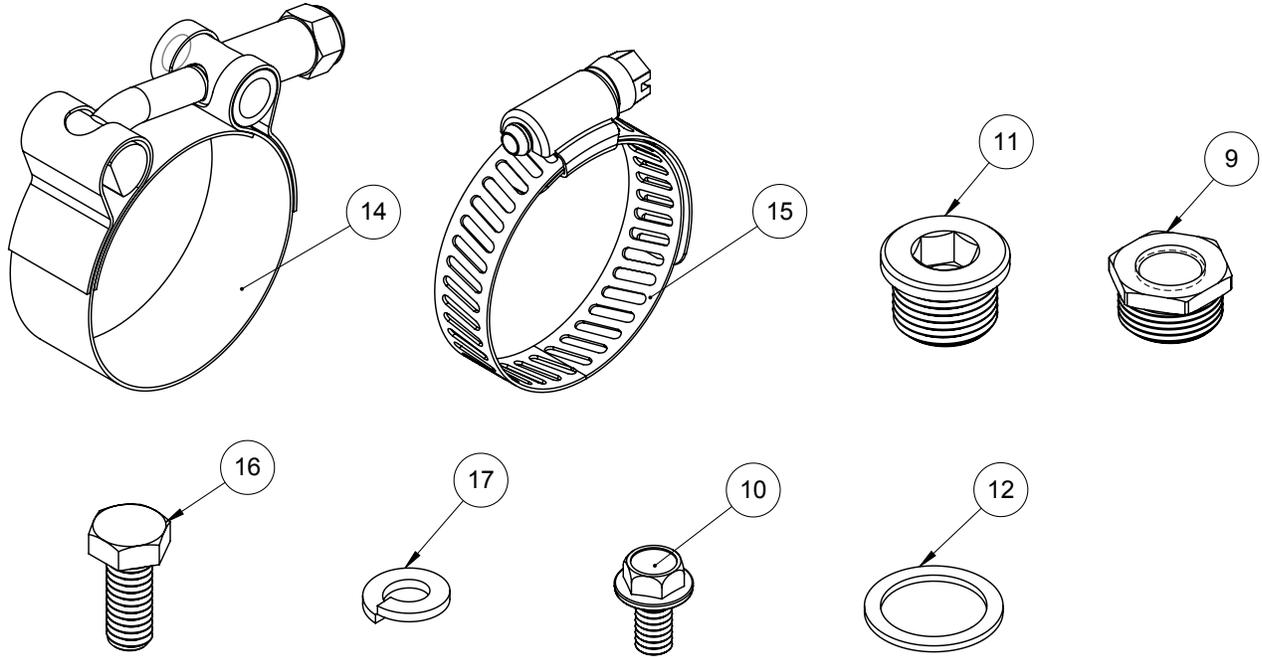


PARTS LIST

NO.	Description	Qty.
1	Front Head Pipe	1
2	Rear Head Pipe	1
3	Front Heat Shield	1
4	Rear Heat Shield	1
5	Lower Mount Bracket	1
6	Upper Mount Bracket	1
7	Grenade Muffler Logo	1
8	Grenade Muffler	1

9	18-12mm O2 Adaptor	2
10	1/4-20 x 1/2 Flange Bolts	4
11	18mm x 1.5mm x 10mm Plug -Zinc	2
12	18mm Copper Washer	2
13	Nylon Cable Tie	1
14	T-Bolt Clamp	2
15	Hose Clamp	6
16	5/16-18 x 3/4 Hex Head Bolt	2
17	5/16 Lock Washer Zinc	2

HARDWARE



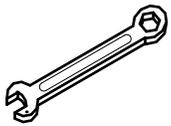
TOOLS REQUIRED



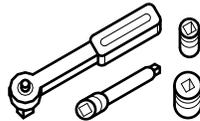
Flat Head Screwdriver



5/16 Nut Driver



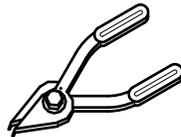
**Combination Wrench:
1/2", 9/16"**



**3/8" Drive Ratchet w/ 4"
extension 1/2", 9/16" Deep
Socket, 7/16" Deep Socket**



**Allen Wrenches: 3/16",
5/16", 10mm**



Snap Ring Pliers

STOCK EXHAUST SYSTEM REMOVAL

1. Find and unplug the O2 sensor wires from the wiring harness. Feed the end of the wires through the frame so they are free from the motorcycle. Pay attention to the wire routing for re-installation.
2. Loosen the heat shield clamps on both the front and rear head pipes. This allows for easier access to the head pipe mounting nuts.
3. Remove the two head pipe mounting nuts from each flange, located at the cylinder head.
4. Remove the clamp bolts which mounts the rear head pipe to the belt drive cover bracket.
5. Remove the two bolts from each muffler body where they attach to the mounting bar. Carefully remove exhaust pipes from the motorcycle and set aside.
6. Remove the belt drive cover and take the bracket off the rear cover bolt, this bracket will not be reused.
7. Remove the e-clip from the brake rod lynch pin. Remove the right side rider foot controls.
8. Carefully remove the O2 sensors from the stock head pipes and save them for reuse with the new system.
9. Remove the three mounting bolts and washers attaching the exhaust mounting bar and save the hardware for reuse.
10. Carefully remove exhaust port flanges and circlips from the stock exhaust system using snapping pliers. Replace bent or damaged circlips.
11. Check exhaust port gasket condition and replace if necessary. Harley-Davidson part number: 65324-83B.

VANCE & HINES EXHAUST INSTALLATION

1. Install and tighten the supplied lower mounting bracket using the stock washers and bolts. Torque to 30-33 Ft./Lbs.
2. Attach the upper mounting bracket to the lower mounting bracket using the supplied 5/16-18 hex head bolt and lock washer. **Figure 1**
3. Reinstall the drive belt cover. Torque the 3/8" bolt to 30-33 FT./Lbs. and the 1/4" bolts to 80-120 In./Lbs.
4. Reinstall the brake rod, brake rod lynch pin and e-clip. Reinstall the foot controls.
5. Remove head pipes and heat shields from their protective packaging. Place each heat shield on a non-abrasive surface such as a blanket or carpet. Using a pencil, lightly mark outside edge of each heat shield to show location of mounting clips where hose clamps will loop through. NOTE: Pencil marks can be erased if care is taken not to harm coating.
6. Lay the head pipes into heat shields and loosely install hose clamps by feeding tail end of clamp into heat shield clips. Take note of screw head direction. **Figure 2.** Screw heads should be accessible when system is installed on motorcycle for adjustment purposes.
7. Apply a small amount of anti-seize compound to the threads of the O2 sensors and install them into the new head pipes. If applicable install the 18-12mm O2 adaptor into the head pipes. If O2 sensors are not being used plug the port with the supplied 18mm plug and washer.
8. Install the exhaust port flanges and circlip from the stock system onto the new head pipes.
9. Using stock flange nuts, carefully install the head pipes into exhaust ports. Do not tighten the nuts at this time.
10. Slide the mufflers on at this time. The muffler with the logo goes on the upper rear head pipe. Attach the muffler bodies to the bracket using the four 1/4-20 x 1/2 flange head bolts.
11. Tighten the cylinder port exhaust flange nuts on front and rear cylinders.
12. Tighten the muffler mounting bolts.
13. Reconnect O2 sensors to the wire harness.
14. Be sure to tighten all hardware before starting the motorcycle.

FIGURE 1

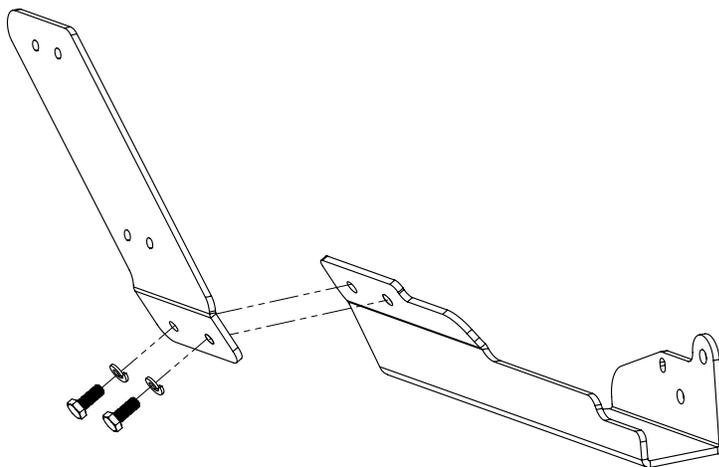
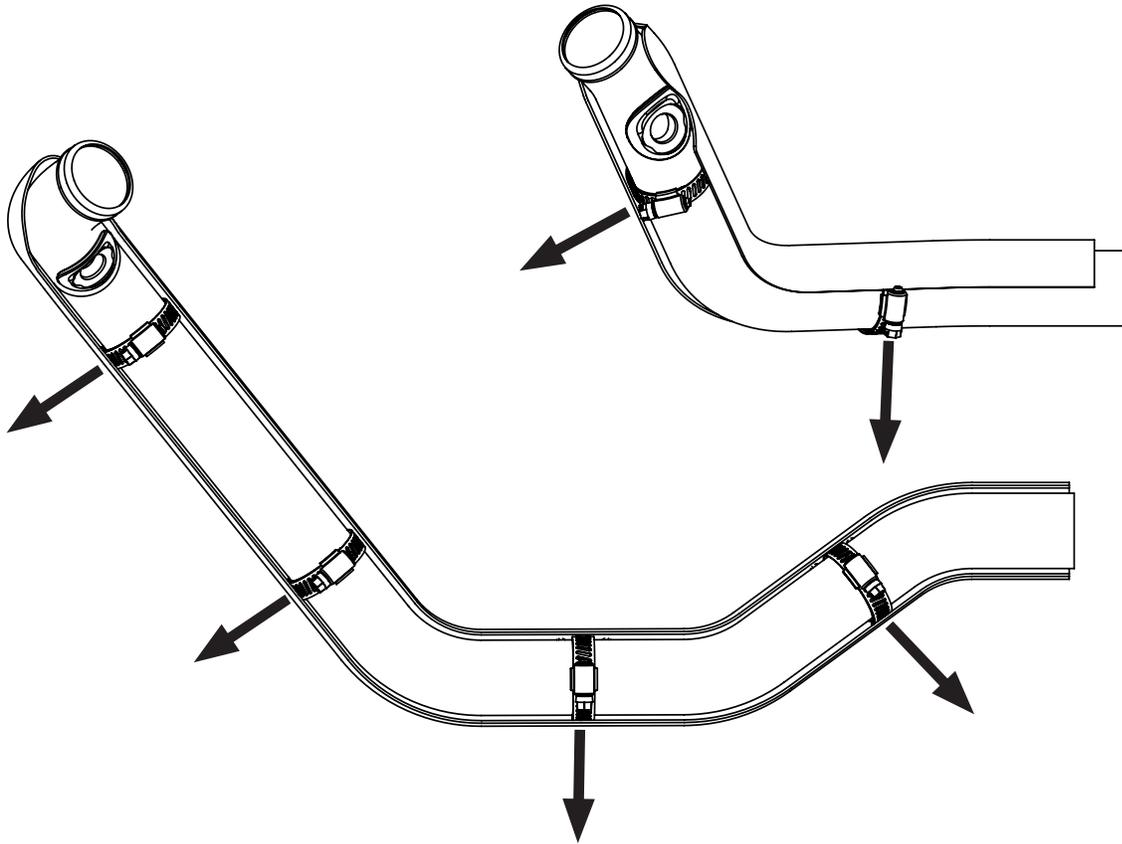


FIGURE 2



Emissions Notice:

In California, in order to meet Air Resources Board emissions requirements, certain aftermarket part applications have been identified as replacements, and others have received ARB Executive Orders. All other emissions related aftermarket parts are for competition use only. A list of replacement parts and EO parts, and corresponding fitment is provided at vanceandhines.com/california.

Warranty:

All Vance & Hines products are warranted against defects in material and workmanship for a period of 90 days. This warranty does not cover discoloration or rust. This warranty shall be limited to the repair or replacement of the product, which may be proven defective under normal use. Vance & Hines will not warranty any system that has been abused, misused, improperly installed or modified.

Dealers or distributors are not authorized to make dispositions binding upon Vance & Hines. Vance & Hines will not be responsible for any labor charges incurred in removing or replacing any system under warranty. A return authorization number and a copy of the original purchase invoice must accompany all returns. Parts returned without a return authorization may be refused.

13861 ROSECRANS AVENUE / SANTA FE SPRINGS, CA 90670
SALES: (562) 921-5388
TECHNICAL: (562) 926-5291
FAX: (562) 802-0110

vanceandhines
.com