

STOCK EXHAUST SYSTEM REMOVAL

1. Remove both left and right saddlebags and set them aside. Remove the right side panel.
2. Loosen the Torca band clamp on the front end of muffler(s).
3. Remove the two bolts and washers that mount the muffler(s) to the saddlebag supports. Save these for re-use.
4. Remove the muffler(s) and set aside. **NOTE:** Two 5/16" bolts and one hanger will be re-used. It may be necessary to use a penetrating lubricant to loosen muffler(s) from the head pipe.
5. Locate and unplug the O2 sensor wires from the wiring harness (Grey and Black connectors located behind right side panel) and remove cable ties holding wires to frame. 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.
6. Remove the right side floor board.
7. Remove the right side passenger floor board. (If equipped)
8. Loosen head pipe clamp connecting the left side muffler to the rear crossover header and the mount bracket on the backside of the oil pan. Remove the crossover section from the head pipe and the head pipe clamp.
9. Remove the mount clamp located behind the oil pan.
10. Remove nut from front headpipe mounting bracket and stud located to the right of the transmission cover. The hardware will not be reused.
11. Loosen the heat shield clamps on both front and rear exhaust pipes.
12. Remove the two flange mounting nuts from each head pipe, located at the cylinder head. Carefully remove the head pipes and set aside.
13. Remove stud that was mentioned in step 10.
14. Carefully remove the O2 sensors from the stock head pipes and save for re-use with the new system.
15. Carefully remove the exhaust port flanges and circlips from the stock exhaust system using snapping pliers. **NOTE:** If circlips look bent or twisted, replace them.

VANCE & HINES EXHAUST INSTALLATION

1. Check the exhaust gaskets for damage, and replace if necessary. Part# 65324-83B.
2. Remove transmission side cover. Remove two lower transmission housing bolts.
3. Install the mounting bracket to the transmission housing using the supplied 5/16 x 1-1/2 Hex Head bolts and 5/16 flat washer. Torque to 13-16 ft-lbs. (**Figure 1**)
4. Re-install transmission cover.
5. Remove header assembly and heat shields from protective packaging. Place each heat shield on a non-abrasive surface such as blanket or carpet. Using a felt tip pen, mark outside edge of each heat shield to show location of mounting clips that hose clamps will loop through (**Figure 5**).
6. Lay header assembly into heat shields and loosely install the #20 and #24 hose clamps (supplied) into mounting clips. Screw heads should be accessible when the system is installed on motorcycle for adjustment purposes (**Figure 5**).

VANCE & HINES EXHAUST INSTALLATION CONTINUED

7. Apply a small amount of anti-sieze compound to the threads of the oxygen sensors and install them into the new head pipe. Install supplied 18mm to 12mm oxygen sensor adapter then install the 12mm oxygen sensors (Grey connector into the front head pipe, Black connector into the rear head pipe.) Models using 18mm wideband oxygen sensors install the sensor directly into the head pipe. **NOTE:** Be careful not to get anti-sieze on sensor tip, it may affect sensor function.
8. Install flanges and circlips from stock system onto the new header pipes.
9. Using stock flange nuts, carefully install the header assembly onto the motorcycle. Finger tighten only at this time.
10. Install the nut plate and the 5/16 x 5/8 flange bolts (supplied) to attach the head pipes to the transmission bracket. Do not tighten at this time.
11. Install Torca band clamp with bolts facing down (supplied) onto end of collector (**Figure 4**).
12. Install muffler assembly onto collector of header assembly (**Figure 4**). Attach muffler assembly to OEM sliding hanger and secure with 5/16" OEM bolts removed earlier.
13. Install collector heat shield onto header by sliding it on from the rear (**Figure 3**). **NOTE:** Do not force collector heat shield directly onto header from the side, damage to collector heat shield will result. Attach collector heat shield with two #24 hose clamps (supplied). **NOTE:** Do not tighten at this time.
14. Slip the muffler body heat shield (stamped D734HC or D739HP) from front to back onto the muffler body (stamped D730RC or D732RP) and secure with a #44 hose clamp in the front and a #56 hose clamp in the rear. (**Figure 5**). **NOTE:** Use a low tack tape (painters tape or equivalent) to protect the transition on the muffler body (D730RC or D732RP) between tapered section and 4.5" round end section during installation. Do not tighten the hose clamps at this time.
15. Tighten the exhaust port flange nuts, nut plate bolts, Torca band clamp, and 5/16" flange head bolts at the bracket.
16. Tighten hose clamps securing header heat shields and collector heat shield making sure that they are flush (**Figure 3**).
17. Tighten muffler body heat shield and leave about 1/16" even gap on the rear between heat shield and muffler body. Make sure top edge of heat shield is aligned with centerline of muffler body to maintain acceptable clearance.
18. Route the front (Grey) and rear (Black) O2 sensor wire along OEM path and plug the grey sensor wire into the grey connector and the black sensor connector into the black connector. Secure wires to the frame using supplied nylon cable ties.
19. Install 3/8" lock washers (supplied) on both 3/8"-16 (2.25" & 3.5" long) socket cap screws (supplied). Using these bolts re-install the floor board with two machined spacers (supplied) on the forward mount (A902HW) and back mount (A667HW). (**Figure 2**) **NOTE:** Machined spacers are located between the floor board supports and floor board mount plate.
20. Re-install the right side passenger floorboard, right side panel, then saddlebags.
21. Be sure to tighten all hardware before starting your motorcycle.
22. After installation and before starting the motorcycle, completely clean pipes and mufflers with a cleaning solvent and a clean soft cloth that will not leave residue. **NOTE:** Any residue, oil, or fingerprints will stain the finish when the metal heats up.

EXHAUST 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 a soft cloth and cleaning solvent that will leave no residue before starting the motorcycle.
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.

EXHAUST CARE (BLACK)

1. When installing a new set of black pipes, make sure your hands are clean and free of oil. After installation, thoroughly clean pipes with a warm soapy water and a soft cloth. Dry with a clean towel to remove any residue before starting the motorcycle. Do NOT use anything abrasive to clean the 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

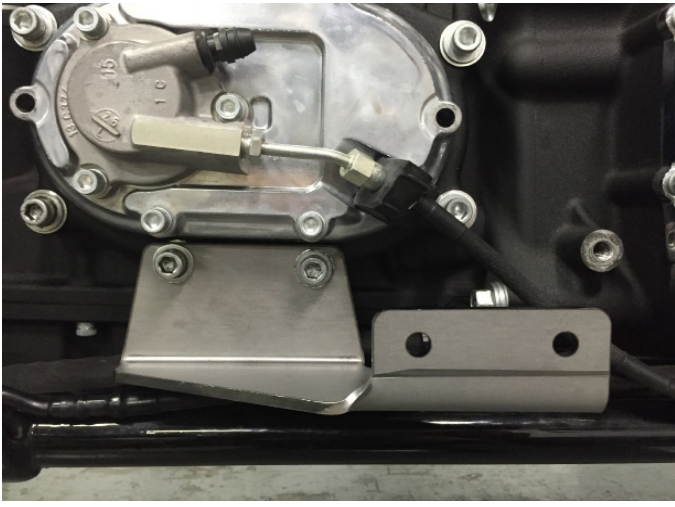


FIGURE 2

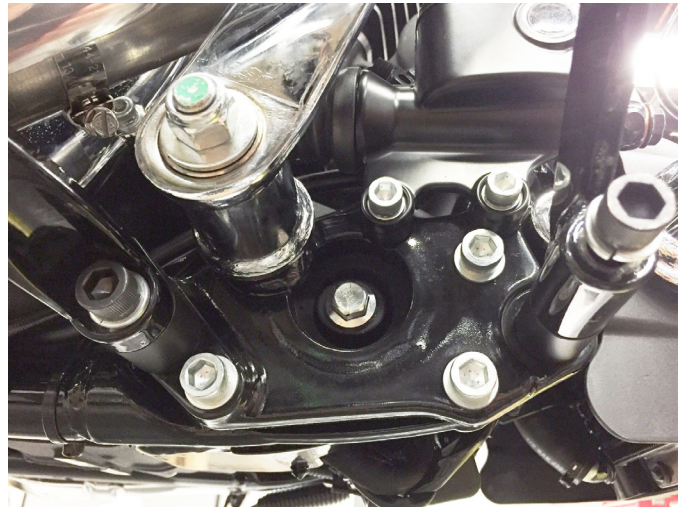


FIGURE 3

POSITION FRONT EDGE OF COLLECTOR HEAT SHIELD AT REAR EDGE OF COLLECTOR COLLAR WELD AND SLIDE FORWARD

HEAT SHIELDS SHOULD BE FLUSH

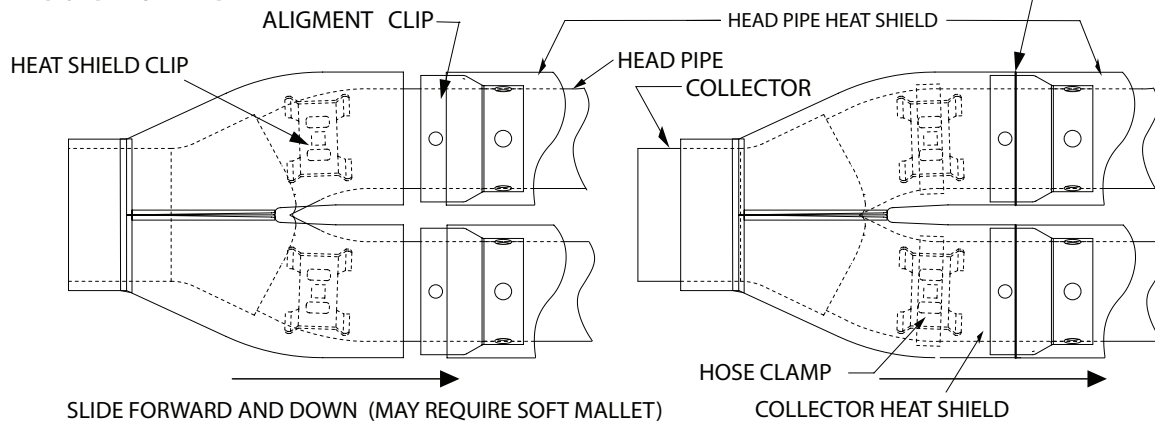


FIGURE 4

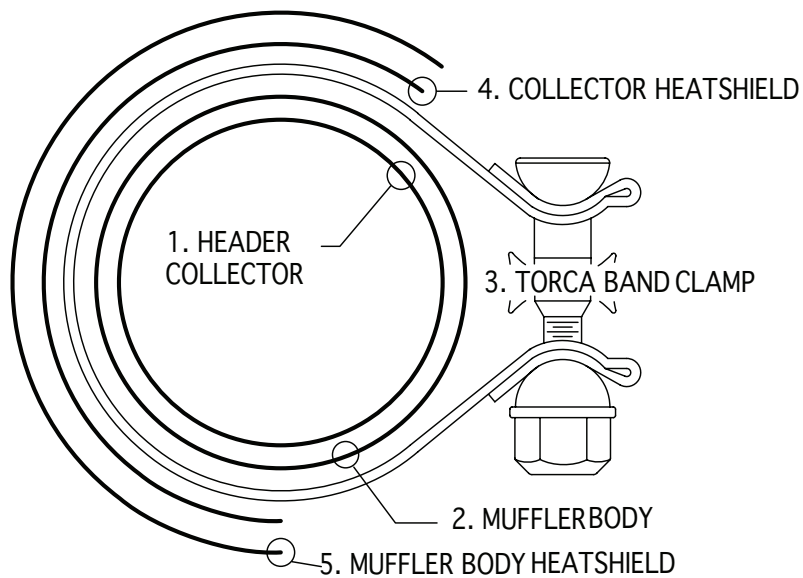
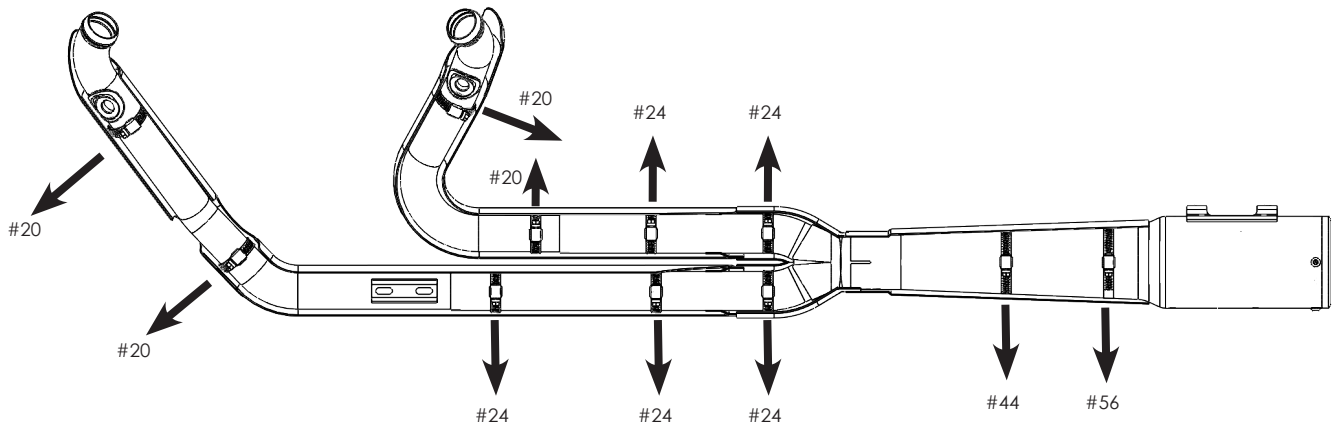


FIGURE 5



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.

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