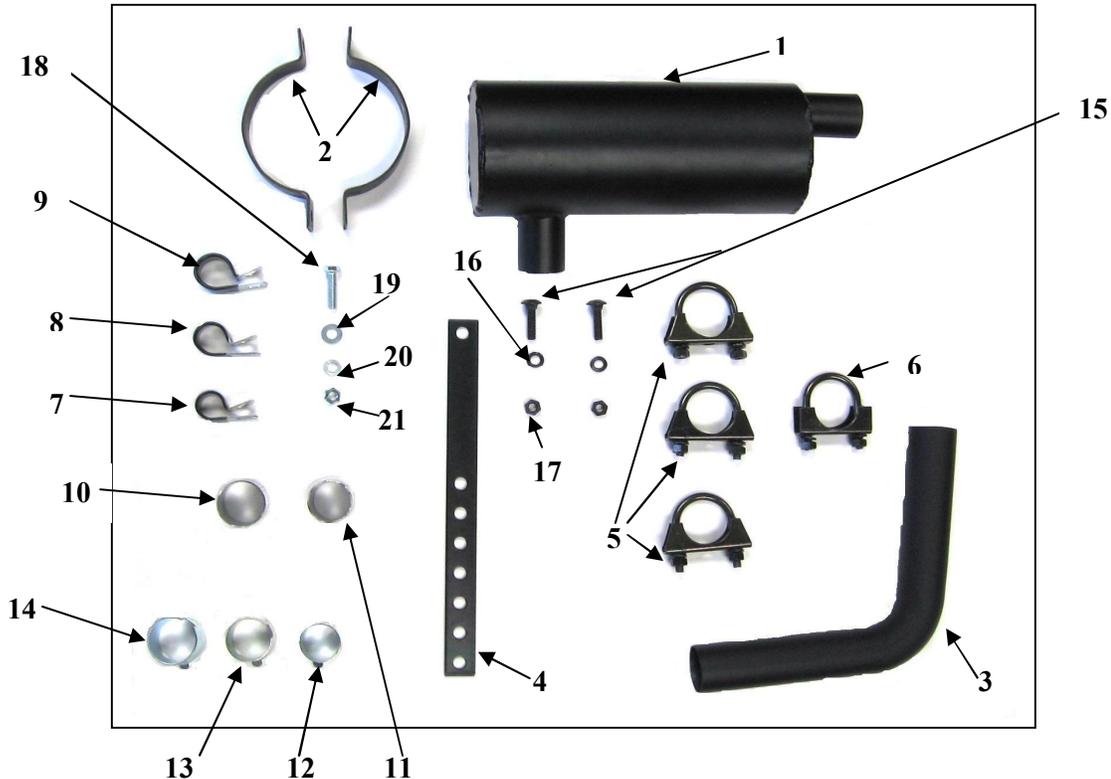




53570 - Stealth Exhaust 2.0 & Heat Shield



Safety Considerations:

1. Wear gloves during installations and be careful when handling the metal pieces as some may have sharp edges that can cause very bad cuts very easily.
2. Do not block the visibility of the taillight on your machine with the Stealth Exhaust.
3. **CAUTION – BURN HAZARD!!!** Although the Stealth exhaust does not get as hot as your OEM muffler, be aware that under some conditions it can cause severe burns. Like any other exposed exhaust on an ATV, your Stealth Exhaust can get hot enough to burn exposed skin.

General Installation Instructions – For Universal Exhaust Kit

There are four basic mounting positions for the system. Direct mount to the rear of existing muffler, mid mount (such as Polaris example), him mount tor rear of the ATV rack or Frame, and high mount to extended rear rack/basket. These instructions are general for all mounts, and are to be used with the attached pictures of the different applications. Depending on your riding style and uses, the higher mounts are generally more desirable for more extreme riding (dips, creek bottoms, etc.) to keep from dragging the Kolpin Stealth Exhaust system. Leave at least 2 to 3 inches between the muffler and any plastic components, to keep from melting or distorting the plastic.

NO.	DESCRIPTION	QTY.
1	Kolpin Stealth Exhaust	1
2	Mounting Bands	4
3	90° Shaped Tube	1
4	Mounting Strap (8 Holes)	1
5	1.50" Muffler Clamp	3
6	1.375" Muffler Clamp	1
7	25mm R Shaped Mounting Strap	1
8	28mm R Shaped Mounting Strap	1
9	31mm R Shaped Mounting Strap	1
10	Large Weld on Adapter	1
11	Small Weld on Adapter	1
12	Split Adapter Bushing 57 (1.125+to 1.25+)	1
13	Split Adapter Bushing 58 (1.25+to 1.375+)	1
14	Split Adapter Bushing 59 (1.375+to 1.50+)	1
15	Carriage Bolt (5/16+)	4
16	Lock Washer Muffler Clamp	8
17	Nut Muffler Clamp	8
18	Hex Head Bolt (5/16+x 1 1/4+)	1
19	Flat Washer (5/16+)	1
20	Lock Washer (5/16)	5
21	Nut (5/16+)	5

The Number in parentheses () indicates corresponding number in the BOM (Bill of Materials). Heat Shield mounting instructions are at the end of this manual.

- 1. 1 3/8" or 1 1/2" Outlet** – The first step is to determine what is necessary to make the outlet on your ATV exhaust have the 1 3/8" O.D. or 1 1/2" O.D. male outlet needed to adapt to the Stealth Exhaust 2.0. For ATV's that have a male outlet, use the Adapter Bushings (12, 13, or 14 in BOM) in the kit (see instruction supplement) to bush it up to the 1 1/2" size. If your OEM outlet points down, you may need to cut it so it points more directly out the rear of the machine. Be sure to leave the outlet long enough (at least 1 1/2") to slide the bushings on it and attach the Stealth Exhaust 2.0. If you are mounting the Stealth Exhaust 2.0 directly to the existing outlet on your ATV (as in the pictures of the Yamaha Grizzly), use the smaller 1 3/8" muffler clamp for this connection. Also, use the high temp silicone (not included) for this type of attachment.

For ATV's (such as Honda) with no male outlet – Use the weld on adapters (10, or 11) See the instruction supplement, or use our optional Bolt-On Adaptor, part number 53520

DIRECT MOUNT: Weld on the 1 3/8" O.D. adapter, and install the Stealth Exhaust directly over the adapter, and clamp it with 1 3/8" Muffler Clamp.

HIGH MOUNT USING ELBOW ADAPTER. Weld on 1 1/2" O.D. adapter; then the adapter elbow will slide over the weld on adapter. Now clamp that using the 1 1/2" muffler clamp. Hold the proper adapter centered over the outlet and weld it in place. Wire feed or any type of light metal welding works well for this. If your OEM muffler is stainless steel, generally Type 309 wire or rod works best. If you do not have welding capabilities, most welding shops will do it for a minimal fee. It is suggested you disconnect the battery and ignition system, and put the welding ground as close as possible to the weld area to prevent any damage to the ATV's electrical system. You can also remove your muffler to weld on the adapter. Weld on adapters can be used to adapt most any ATV to the Stealth Exhaust 2.0.

BOLT ON ADAPTER 53520: A universal bolt on adapter is available for many applications, such as the Honda Rancher 300, the Forman 400 and 450, or any ATV with a flat or concave outlet on the OEM muffler. There is also a bolt on adapter available specifically for the Honda Rubicon (53530) while supplies last.

- 2. Mount Muffler** – Determine how and where you want to mount your Stealth Exhaust 2.0 and install it using the rubber coated mounting clamps and the Mounting Bands (2)) in the kit. Select the proper rubber coated clamps, (there are three sizes, 8, 9, or 10 depending on your rack Diameter), for the frame or rear rack on your ATV and slide the clamp over the over that. Then install the Mounting Bands (4) over the muffler using the supplied Bolts and Nuts (15, 16, and 17) and hang it in place, using the 8 holed Mounting Strap (4), which you can bend, cut or drill to better accommodate your needs for your application. Hang the Stealth Exhaust 2.0 in place, but do not tighten at this point.

- 2. 80 Degree Adapter Elbow Connection(3)** – Hold the special adapter elbow in place, between the ATV's muffler outlet and the Stealth Exhaust inlet. Determine where to cut the adapter elbow to fit. **BE CAREFUL NOT TO CUT THE ADAPTER TOO SHORT!** Cut the adapter to fit with a hack saw. **WARNING:** Do not distort the tube by clamping it too tight in a vice! Be sure to clean the burs from the cut end with a file or some sandpaper. This will also allow the pipe to slide on easily. To assemble the elbow into place, you will have to loosen the muffler hanger or take the muffler back off. The next step is to put the adapter in place and make sure it fits correctly. Attach it using the 1 1/2" clamps from the kit. Again, you can use some orange hi-temp sealant on this connection. Now, reassemble your muffler and hangers into place and tighten all mounts and clamps. Cutting 4 small slices in the pipe will allow the pipe to tighten more securely.

Direct Mount – If your ATV already has a male outlet, simply slide the supplied bushings on your ATV outlet and install the Stealth Exhaust directly on it using the smaller 1 3/8" muffler clamp. (See Grizzly Pictures). For a direct mount to the rear of the ATV's muffler with the installed 1 3/8" weld on outlet, use the 1 3/8" muffler clamp. You can use some high temp silicone on this connection and on the bushings.

Supplemental Instructions for the Weld on Adapter and the Adapter Bushings.

SPLIT TYPE ADAPTER BUSHINGS – The three (3) split type adapter bushings are designed to be used together in steps to bush the existing outlet on your ATV's muffler to the proper size, to accommodate the Kolpin Stealth Exhaust 2.0. The bushings can be gently expanded or squeezed together to make installation easier. The bushings are identified by part numbers as follows:

1. 57 6 1 1/8" to 1 1/4"
2. 58 6 1 1/4" to 1 3/8"
3. 59 6 1 3/8" to 1 1/2"

To achieve the proper installation and seal without damaging the stealth muffler inlet, the bushings must be used in these steps, per the above example.

Models with 1 1/8" O.D. male outlet, such as Yamaha Grizzly.

1. First install the number 57 bushing that goes from 1 1/8" to 1 1/4" on the OEM muffler outlet.
2. Next, over the number 57 bushing install the number 58 bushing. This will take it from 1 1/4" to 1 3/8".
3. If you are direct mounting the stealth muffler, you now have the proper 1 3/8" O.D. outlet needed on your ATV to install the Kolpin Stealth Exhaust 2.0. Simply clamp it down using the muffler clamp provided. For a maximum seal, use orange hi-temp silicone on the bushings and any connection points.
4. If you are using the adapter elbow to connect the Stealth Exhaust 2.0 to your ATV's muffler such as for a mid or high mount, you will have to use the third bushing, number 59. This bushing goes from 1 3/8" to 1 1/2". You will now have the proper size, 1 1/2" O.D., to use the elbow adapter and clamp it down over the bushing assembly and connect it to the Stealth Exhaust 2.0

Models with 1 1/4" O.D. male outlet, such as the Sportsman series.

1. First, install the number 58 bushing that goes from 1 1/4" to 1 3/8" on stock muffler outlet.
2. If you are direct mounting the Stealth Exhaust 2.0, you now have the proper 1 3/8" O.D. outlet on you ATV to correctly install the Stealth Exhaust 2.0. Clamp it down with the 1 3/8" muffler clamp. For the best seal, use orange hi-temp silicone on the bushing and connections.
3. If you are using the adapter elbow to connect the Stealth Exhaust 2.0 to your ATV's muffler (such as mid or high mount), you will have to use a second bushing. Use the number 59 bushing that goes from 1 3/8" to 1 1/2", and slide it over the other bushing. You will then have the proper size, 1 1/2" O.D., to use the elbow adapter and clamp it down over the bushing assembly and connect it to the Stealth Exhaust 2.0

WELD ON ADAPTERS (10, or 11) – There are two weld on adapters in this kit, they should be used as follows.

1. If you are direct mounting the Stealth Exhaust 2.0 use the smaller 1 3/8" O.D. x 2" Long Adapter. After welding this adapter on, you will have the proper 1 3/8" O.D. size to direct mount the Stealth Exhaust 2.0. If you decide later to use the elbow adapter to connect your muffler, you can slide the number 59 bushing on to the weld on adapter, and this will give you the 1 1/2" O.D. size to use the elbow adapter.
2. If you are using the elbow adapter to connect your Stealth Exhaust 2.0, (such as mid or high mount), use the larger 1 1/2" size to use the elbow adapter. Again, for the best seal, use hi-temp orange silicone on connections for the best result.

WELDING SUGGESTIONS: If your ATV's stock muffler is stainless steel (Such as most Hondas), type 309 welding wire or rod for dissimilar metals is recommended and may produce a better weld. This is a common welding material at welding shops. **DO NOT WELD without first disconnecting the battery, CDI System and any other electrical components or severe damage could occur!!**

UNIVERSAL BOLT ON ADAPTER – 1 3/8" O.D.

Fits Honda 300, 350, 400, 450 and other makes/models with flat or concave outlet.

INSTALLATION INSTRUCTIONS:

This adapter is designed for use on most all ATV applications where the original equipment muffler outlet has a flat or concave surface, and no male pipe outlet.

1. Hold the adapter centered over the exhaust outlet and mark the four mounting holes with scribe or marking pen, and the center punch holes.
2. Drill the four holes with a 1/8" bit.
3. Using a 3/16" pin punch or awl, like that shown in the picture, hammer the punch into each hole to enlarge it to the size that will accept the 1/4" self tapping screws. This rolls some of the metal into the hole, and will make the self-tapping screws grip better. Be very careful not to enlarge the holes past the maximum of 3/16", or the self-tapping screw may not tighten properly.
4. If your application has a concave surface on the muffler outlet, it is probably a good idea to use the supplied gasket with some orange high temp silicone. Hold the gasket in place for a short time until the sealer gets tacky. After the silicone has dried enough to hold the gasket in place, apply the high-temp silicone liberally to both mounting surfaces and the bolt holes. Now go to step 6.
5. If your application has a flat surface on the muffler outlet, you probably don't need the gasket, just apply the high-temp silicone liberally to both surfaces and the mounting holes.
6. Hold the adapter in place. Using a ratchet and socket start the self tapping screws by pushing on them and turning them at the same time. You may have to tap the screw lightly with a hammer to get them started. Tighten the screws securely, but use care not to over tighten to the point of stripping the threads.
7. This adapter has a 1 3/8" O.D. so the Stealth Exhaust 2.0 can now slide over it and be installed direct, using the 1 3/8" muffler clamp in your kit.
8. **IMPORTANT:** If you are using the 80 degree adapter elbow pipe for the connection between the bolt on adapter and the Stealth Exhaust 2.0, you must slide the #59 Split Bushing, from your Exhaust kit, onto the bolt on adapter outlet before installing the elbow. This sleeves the outlet to the proper 1 1/2" size needed to install the elbow. **HI-TEMP SILICONE** can be used on connections for maximum sealing, but this is **NOT** mandatory!

NOTE: Additional Mounting Instructions and Applications can be found on the Kolpin website, at www.kolpin.com

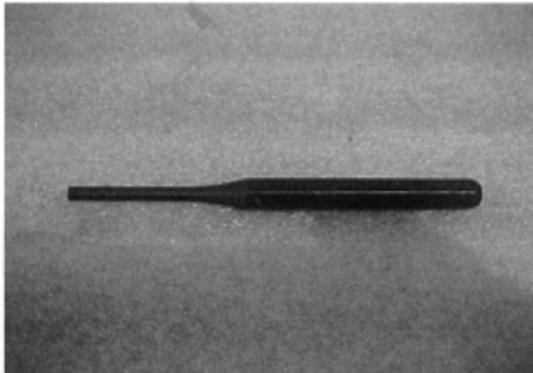
INSTALLATION



Mark Holes



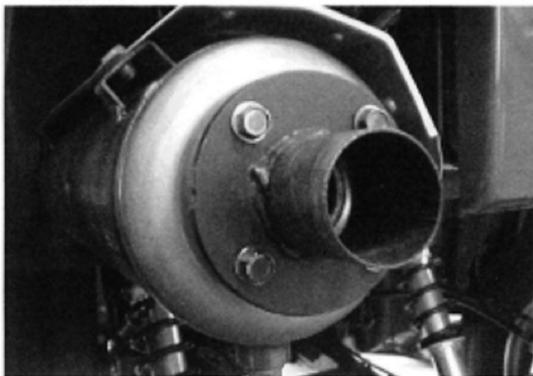
Drill 1/8" Holes



Enlarge holes with 3/16" pin punch such as one shown. This rolls metal inside to make screws grip better.



Glue gasket in place with HI-TEMP silicone and apply silicone to all surfaces and screw holes



Bolt adapter in place. For direct installation of muffler will slide directly over this adapter. Use 1 3/8" muffler clamp.



To use elbow adapter, slide #59 bushing onto the outlet as shown. This make it 1 1/2" O.D. needed for use with elbow. Use sealant.

HONDA RUBICON BOLT ON ADAPTER WITH 1 3/8" O.D. OUTLET

INSTALLATION INSTRUCTIONS:

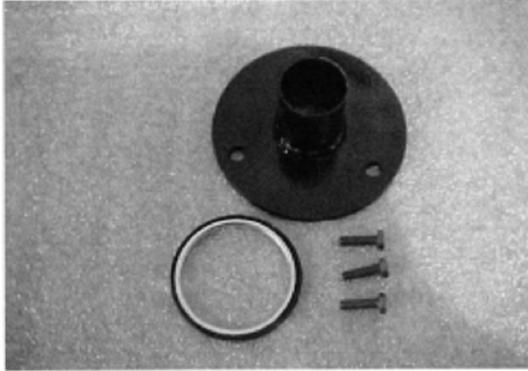
1. Carefully remove the original equipment spark arrester bolts. These bolts may try to seize and break off as you try to remove them. Use penetrating oil and work the bolts back and forth till they will come out without breaking. It is not necessary to remove the spark arrester, but make sure the gasket behind it stays in place.
2. Apply Orange Hi-Temp Silicon liberally to the rear of the spark arrester, where the adapter and gasket will contact it. Apply silicone sealant to both sides of the gasket and install in place on the muffler.
3. Apply anti-seize compound to the threads of the 6 x 20mm replacement bolts supplied in the kit.
4. Again, make sure gasket behind the spark arrester is in place and make sure the new gasket for the adapter is in place. Then hold the adapter in place being careful to get it exactly in place the first time. Start all 6 x 20mm replacement bolts and turn them in and tighten them evenly. It is important that these bolts be tightened evenly so the adapter seals properly all the way around.
5. Let the silicone dry while you finish the installation of the Stealth Exhaust 2.0. It is important that the silicone has adequate time to dry before starting the machine. Check the tightness of the mounting bolts again, both before and after starting the machine.
6. This adapter has a 1 3/8" O.D. so the Stealth Exhaust 2.0 can now slide over it and be installed direct, using the 1 3/8" muffler clamp in your kit.
7. **IMPORTANT:** If you are using the 80 degree adapter elbow pipe for the connection between the bolt on adapter and the Stealth Exhaust 2.0, you must slide the #59 Split Bushing, from your Exhaust kit, onto the bolt on adapter outlet before installing the elbow. This bushes the outlet up to the proper 1 1/2" size needed to install the elbow. **ALWAYS USE HI-TEMP SILICONE ON ALL CONNECTIONS FOR MAXIMUM NOISE REDUCTION.**

Suzuki King Quad

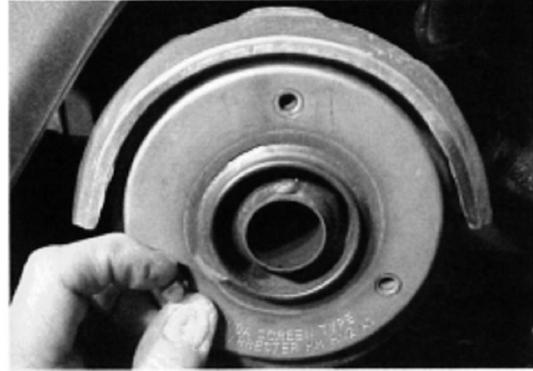
1. Remove the Heat Shield and Spark Arrester from the muffler by removing the three screws at the outlet.
2. Using the smaller WELD-ON ADAPTOR supplied with the Stealth kit, place this over the stock outlet as shown in the picture and weld in place.
3. Install the modified Spark Arrester back into the muffler canister on the machine, install the heat shield and secure with the three screws. The Stealth muffler can now be clamped directly to the outlet with no adaptors required. Secure the muffler body to the chassis using the band clamps, strap and vinyl coated band clamp of your choice and go riding!



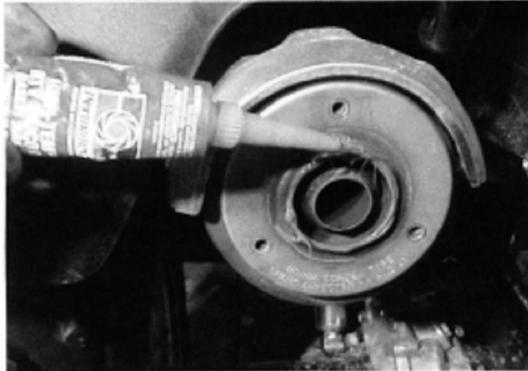
INSTALLATION



Honda Rubicon Bolt on Adapter Kit



Remove Original Bolts



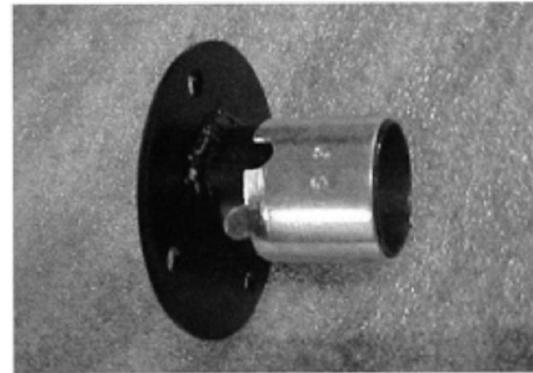
Apply HI-TEMP Silicone



Apply HI-TEMP Silicone to Both Side of Gasket and Install in Place



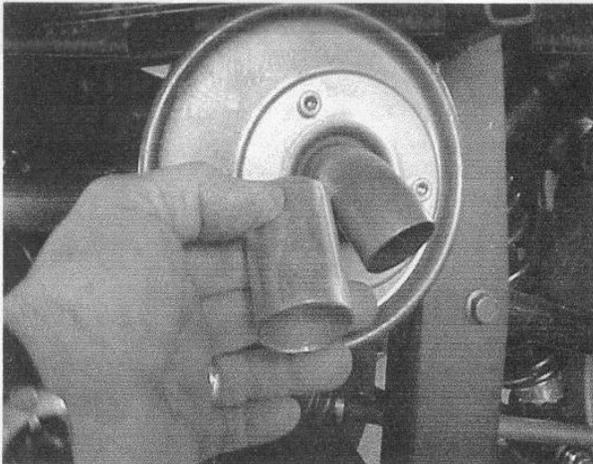
Install Adapter-Tighten Bolts Evenly- Let Silicone Dry- Recheck Bolts After Running



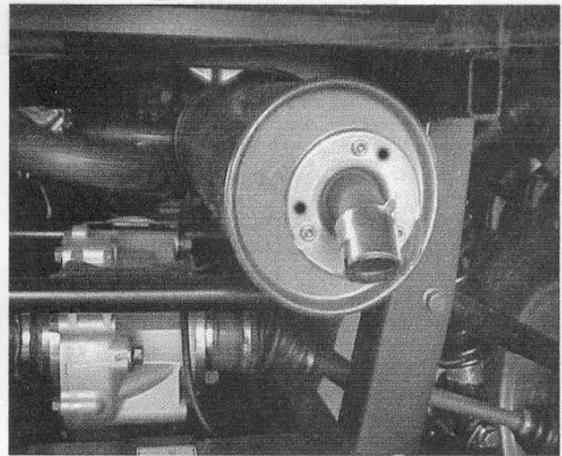
To use elbow adapter, slide #59 split bushing adapter on to outlet as shown. This makes 1 1/2" O.D. needed for elbow. Use sealant

YAMAHA RHINO INSTALLATION

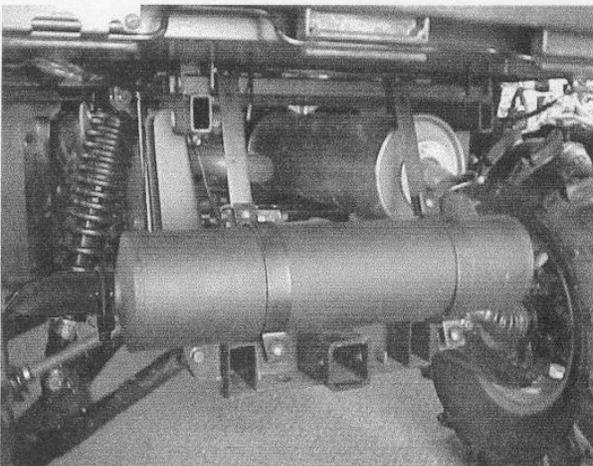
1. To install the Stealth Exhaust 2.0 correctly on the Rhino the outlet must be changed to point down instead of angled to the right. This can be done by welding on the 1 3/8" weld on adapter as shown in the first picture or by removing the spark arrester and drill new holes so it can be rotated to point down. This is shown in the top right picture. Redrilling is the simplest solution.
2. Apply HI-TEMP Silicone sealant and install the middle sized #58 split adapter bushing as shown.
3. Assemble the hangers to the exhaust and install by bending hangers as shown. Drill holes for hanger bolts in the cross member and attach using the bolt and nut supplied.
4. Push muffler as far on outlet as possible, then tilt the dump box to check for clearance. Also, be sure to check the tire clearance. Adjust the angle of the exhaust as needed and install and tighten the 1 3/8" muffler clamp. Run engine and retighten the muffler clamp securely.
5. Check to make sure your clearances are still there. FYI-you may need an extension for the hitch.
6. NOTE some pictures are from our original Stealth Exhaust system that utilized a longer canister. Also, the new shorter Stealth 2.0 only utilizes one hanger strap instead of the two in the picture.



Cut outlet at angle to allow 1 3/8" weld on adapter to be welded on at downward angle.



Or remove spark arrester and drill new holes so it points down instead of to the right.



Assemble hangers to muffler and mount as shown by drilling holes in crossmember.

YAMAHA GRIZZLY INSTALLATION



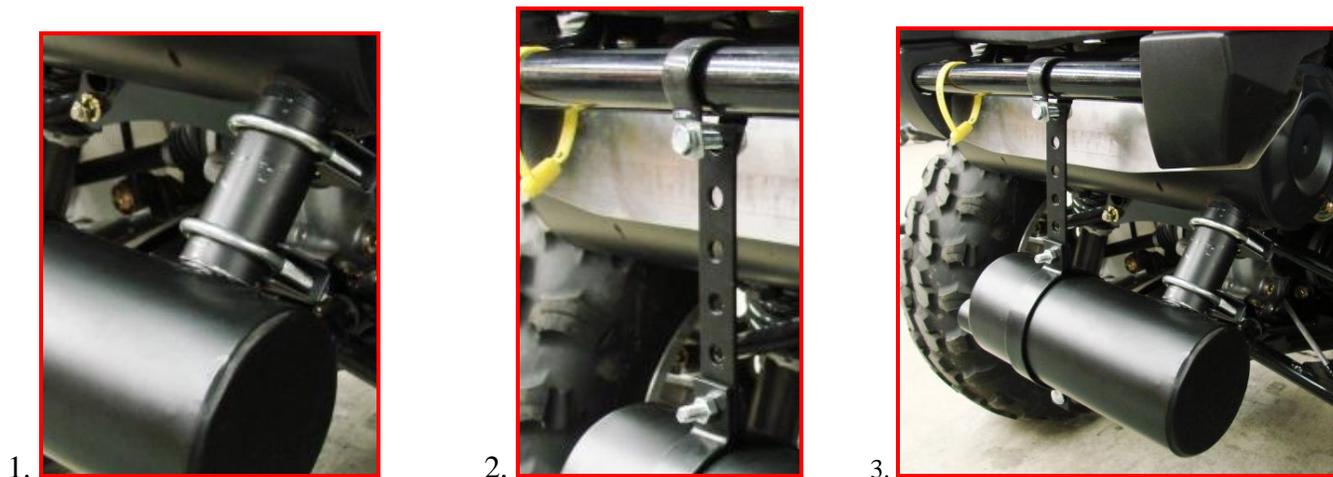
1. Place the number 58 bushing onto the OEM outlet.
2. Slide the Stealth Exhaust inlet onto the Number 58 bushing. Tighten using the 1 3/8" Muffer clamp. Use orange hi-temp silicone on all connections for maximum noise reductions.
3. The mounting strap will need to be custom bent for supporting the muffer. Here we place the mount on the back side of the muffer. We leave the attachment method open to the consumer so you can custom fit your machine based on how you use it.
4. The Kolpin Heat Shield (53560) has been attached to prevent anyone from touching the hot exhaust.

POLARIS RANGER 6 x 6 INSTALLATION

1. Install the number 58 and 59 bushings on the outlet of the OEM muffer.
2. Cut the elbow adapter to fit from the OEM outlet to the Stealth Exhaust 2.0.
3. Clamp using two 1 1/2" Muffer Clamps connecting the OEM muffer to the Stealth Exhaust 2.0. Use orange hi-temp silicone on all connections for maximum noise reductions.
4. The Mounting Strap will need to be attached to the frames cross members under the dump bed.
5. Be sure to leave adequate room from any wires running under your bed.

POLARIS SPORTSMAN XP

1. First, cut the 6" shaped tube so that it can be used as a straight adapter pipe as shown below. (Photo 1)
2. Cut 2 slots, approximately 3/4", down the sides of the pipe you just cut, similar to the cuts on the Stealth. Be sure not to cut the slots too long as the system will not seal correctly!
2. Now, clamp the Kolpin Stealth Exhaust to the OEM Muffer using the pipe you just cut and (2) of the 1.50" U-Bolt Clamps provided. (Photo 1)
3. Next, take the largest R shaped mounting clamp and widen out to fit around the OEM Bar at the rear of the machine. (Photo 2)
4. Now, place the bands around the muffer to see how the mounting strap will need to be cut as shown below. (Photo 3)
5. Cut the mounting strap to fit.
6. Tighten all hardware securely.



POLARIS RZR (2008 Model Year) INSTALLATION



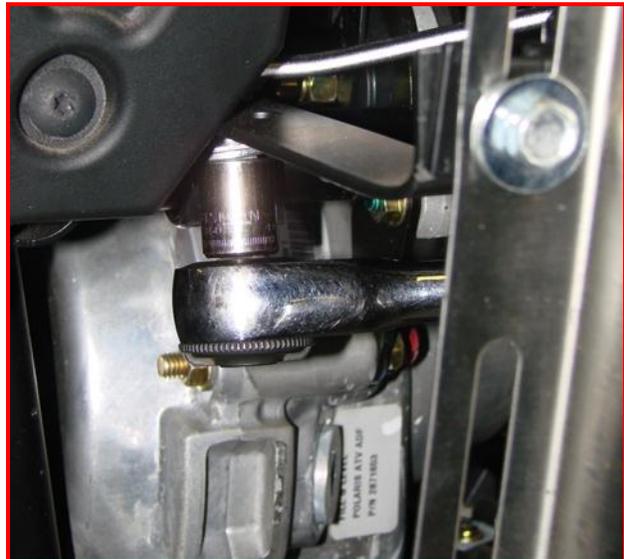
Remove the existing hex bolt from the OEM muffler as shown.



Grind the access material sticking up inside the tailpipe from where the existing bolt was threaded. This allows the Kolpin Muffler to slide in easily.



Next, drill back through the stealth and replace the self tapping OEM Bolt to secure the Stealth.



Now, place the 25mm and 28mm øRö strap around the frame tube. Attach the Mounting Strap to øRö Straps. Note: Straps will have to be bent to fit as shown. Bolt using the hardware provided.

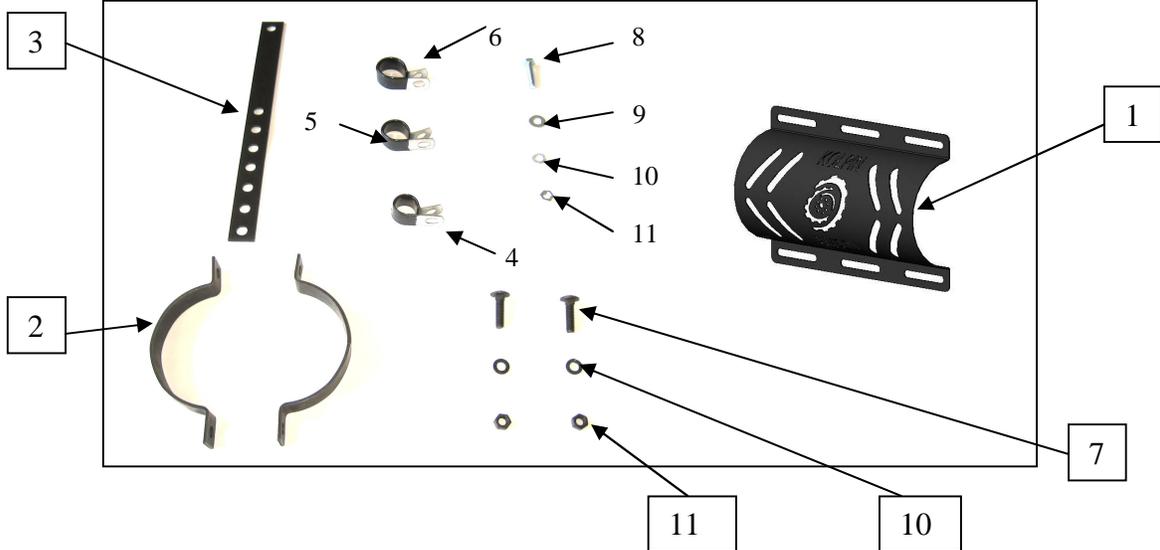


Final look using the Kolpin Stealth Exhaust with Heatshield.

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Stealth Heat Shield Installation



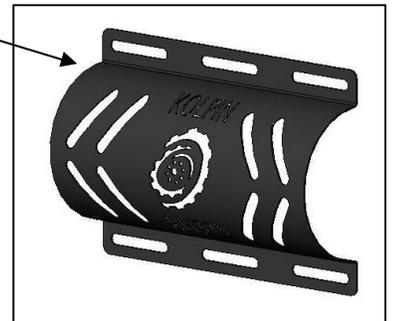
Heat Shield Mounting Instructions:

1. The heat shield attaches using the 4 Mounting Bands included with the kit. Use the 4 Carriage Bolts (7) on each side (top and bottom) of the Mounting Bands as shown in the picture, secure with 4 lock washers and nuts. (8 & 9)



2. The Kolpin Heat Shield has three slots (top and bottom) to make it easier to center the shield over the muffler, no matter what position your muffler is located. (1)

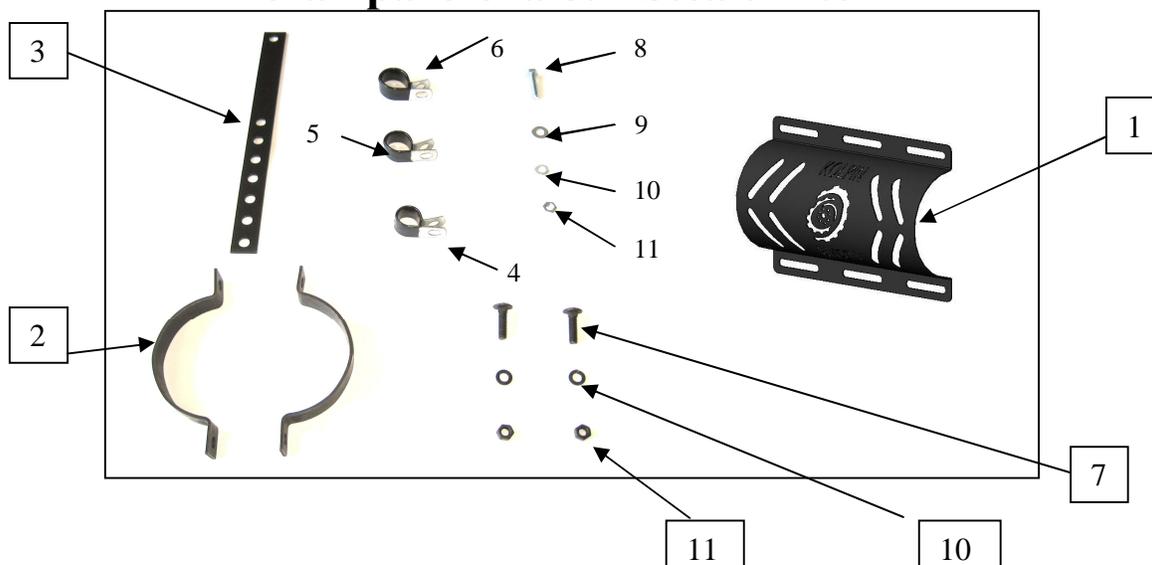
3. To complete the installation, attach the proper size vinyl-coated strap to a frame tube and attach the 8-hole mounting strap using the supplied hex bolt, washer, lock washer and nut. The other side of the strap mounts to the muffler. NOTE: this strap is designed to be cut to length if needed.



NO.	DESCRIPTION	QTY.
1	Kolpin Heat Shield	1
2	Mounting Bands	4
3	Mounting Strap (8 Holes)	1
4	25mm R Shaped Mounting Strap	1
5	28mm R Shaped Mounting Strap	1
6	31mm R Shaped Mounting Strap	1
7	Carriage Bolt (5/16 x 1 1/4+)	4
8	Hex Head Bolt (5/16+x 1 1/4+)	1
9	Flat Washer (5/16+)	1
10	Lock Washer (5/16+)	5
11	Nut (5/16+)	5



Écran pare-chaleur Stealth 2.0



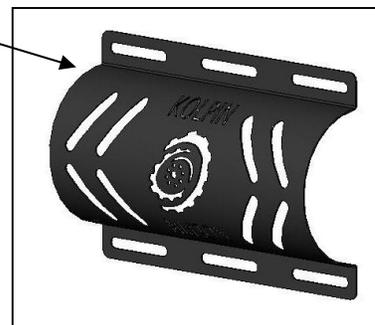
Mode de montage de l'écran pare-chaleur

1. Le pare-chaleur se fixe à l'aide des bandes de montage (2) comprises dans l'emballage et de l'autre bande de montage fournie avec le silencieux Stealth Kolpin. Utilisez les 4 boulons ordinaires (7) de chaque côté (haut et bas) des bandes de montage (voir schéma).



2. L'écran pare-chaleur Kolpin a trois fentes (en haut et en bas) pour faciliter son centrage sur le silencieux, quelle que soit la position du silencieux. (1)

3. Pour faciliter l'installation, commencez à visser (sans serrer) les 4 écrous sur les boulons ordinaires. Une fois posés, placez l'écran pare-chaleur où vous le désirez, puis serrez les 4 écrous sur les boulons.



Réf.	Désignation	Qté
1	Écran pare-chaleur Kolpin	1
2	Bande de montage	4
3	Patte de montage (8 trous)	1
4	Bride de montage en R, de 25 mm	1
5	Bride de montage en R, de 28 mm	1
6	Bride de montage en R, de 31 mm	1
7	Boulon ordinaire noir (5/16 x 1 1/4)	4
8	Boulon à 6 pans (5/16 x 1 1/4)	1
9	Rondelle plate (5/16)	1
10	Rondelle de blocage (5/16)	5
11	Écrou (5/16)	5