



EXHAUST SYSTEM FOR MULTIPLE
PART# 2025 INDIAN SCOUT 2-INTO-1
SHORTY/TURNOUT

Congratulations, you have acquired the finest aftermarket performance exhaust system available for your motorcycle. Your FREEDOM PERFORMANCE exhaust system was designed to perform fit and give the optimum sound and style at a very affordable price.

WARNING: DUE TO THIS DESIGN SOME ACCESSORIES MAY INTERFERE WITH THIS EXHAUST SYSTEM SUCH AS SADDLE BAGS OR PASSENGER FOOT PEGS IN ORDER TO FIT PROPERLY IN SOME MODELS THEY HAVE TO BE RELOCATED.

Part Number	Description	QTY	Part Number	Description	QTY
MSC185-F6	COLLECTOR HEAD PIPE	1	A122-F3	SCOUT MEGAPHONE ELBOW (TURNOUT ONLY)	1
I86-F12	READ HEAD PIPE	1		4.5 END CAP	1
I185-F3	FRONT HEAT SHIELD	1	A154-LCB-F8	SYSTEM BAFFLE	1
I186-F3	REAR HEAT SHIELD	1	MBK-SC115-F4	MOUNTING BRACKET	1
I187-F3	COLLECTOR HEAT SHIELD	1	MBK-M150-F7	BACK PLATE	1
HS130-F3	SCOUT MEGAPHONE HEAT SHIELD	1	IN00971-HW	HARDWARE BOX	1

Please follow the installation instructions and please do not hesitate to call us for any technical questions at (310) 324-0415

REMOVING THE STOCK EXHAUST SYSTEM

- If equipped remove saddle bags, refer to owner's manual.
- Using a 10mm socket or wrench, remove two screw holding muffler together. They are located behind the muffles. (Fig. 1.1)
- Loosen muffler clamps (x1) using a 15mm hex socket or key wrench loosen the clamps holding muffler to header assembly. (Fig. 1.2)
- Remove muffler some lube may ease the removal.
- Remove seat, locate and disconnect rear Oxygen sensor harness(Fig. 1.3), now, using a 16mm wrench remove sensor from head pipe. **NOTE:** make sure to rotate cable as you loosen sensor from sensor bung to prevent twisting the cables otherwise the cable may rupture. Do not pull the sensor out leave it hanging.
- Using a 6mm socket or wrench, remove two screws holding radiator cover located at the bottom. (Fig. 1.6)
- Using a T25 Torx socket or wrench, remove one screw holding radiator cover located at the top, pay attention at the screw assembly, you will need it to reinstall it back in place the same way. (Fig. 1.5)
- Remove plastic cover and set it aside
- Using an 15mm hex key wrench, remove both (right/ foot controls and let them hang. (Fig. 1.7)
- Using a 10mm socket, remove two screws holding radiator bracket located on each side. (Fig. 1.8)
- Softly pull radiator forward towards the front fender to have access to remove front Oxygen sensor. Do not overdue it.
- Remove rear flange nuts holding rear header using a 13mm socket or wrench. (Fig. 1.9)
- Using a 13mm socket remove flange nuts holding front header assembly, remove headers and set it aside. (Fig. 1.9)
- Now remove the stock mounting bracket using an 8mm hex key wrench and remove two lower screws, now, using a 24mm socket remove axle nut. (Fig. 1.10)



Note: use good and safe practices when removing and installing your new exhaust system to prevent injuries that includes but is not limited to such safety glasses and gloves. When installing make sure gloves are not abrasive or damage may occur like scratching parts. Always secure motorcycle before any work is done.

1. Remove exhaust system from protective packaging. Place them in a non-abrasive surface such as a blanket or carpet. By doing this you can avoid scratching the parts in the in installation process. We recommend using painters tape to cover parts and accessories on areas where damage can occur during installation.
2. Refer to (Fig. 2.1) for hardware and part list to make sure you have all necessary components prior to installation.
3. Install rear Oxygen sensor on **I86-F12** header. Turn the pipe not the sensor to prevent damage to the sensor cables there is plenty of play to maneuver with the rear pipe, now with a 16mm wrench tighten sensor. Apply a small amount of anti-seize compound to the threads of the O2 sensors and install it into the new head pipe. NOTE: Be careful not to get anti-seize on sensor tip, it may affect sensor functionality. (FREEDOM PERFORMANCE recommends replacement of exhaust port gaskets if damaged or worn out. (Fig. 2.2)
4. Install rear header into rear engine port using stock flange nuts and a 13mm socket, bring all the way but do not tighten yet. (Fig. 2.2)
5. Attach mounting bracket **MBK-M150-F7** using an 10mm hex key wrench use **HWB0028** bolts provided in the kit. (Fig. 2.4)
6. Slide 1 Barrel clamp (# 60) in front of the slotted end of each header NOTE: Screw head on rear header must face up and towards the engine, front headers faces down see picture for details. this is to make it easy when tightening the clamp after shields are in place. (See figure 2.5)
7. Install muffler assembly, **MSC185-F6**, some assistance may be required. Insert rear header into muffler/header assembly first, do so as much as needed in order to line up front header, (See figure 2.5 and 2.6) now, insert front header into the engine. (See figure 2.69) Align bracket welded on the muffler to mounting bracket. Use two 5/16-18 serrated screws and a back-plate bracket **MBK-SC115-F4** provided in the hardware in the kit, engage system to mounting bracket DO NOT TIGHTEN AT THIS TIME YET. NOTE: make sure back end of welded bracket on muffler is flush with mounting bracket to ensure head pipes have gone inside muffler/header assembly inlets just enough to prevent exhaust leaks.head pipes go inside muffler inlet about 1-3/8"
8. Align entire system, tighten to mounting bracket using a 1/2" open wrench (2 screws) now tighten exhaust port flange nuts using a 1/2" socket. Do not tighten barrel clamps yet. (Fig. 2.7)
9. Tighten both front/rear header to engine ports using a 13mm socket. make sure clamps over the slotted nose of the muffler/header assembly are flash to the edge of the sleeve. If it is too far back it will not tighten the muffler/Hader assembly.
10. Install heat shields. For these steps it is imperative to use caution, space is very tight and scratches may occur. We recommend to use painters tape, cut a small piece and tape it over the heat shield where the clips are located (these are the clips welded inside the heat shield) now mark the center of the clip with a pen or marker also mark an arrow pointing the direction of hose clamp insertion as seen of the picture. (See figure 2.13)
11. Place front shield **I185-F3** over the front pipe. (See figure 2.8 and carefully align it.
12. Re-place front shield over front pipe as shown. (See figure 2.8) Now insert the worm clamps. Use clamps as follow: (#24) for all pipe shields.
13. Repeat step with the rear heat shield **I186-F3** first place it just to clear barrel clamp, remove it and tighten barrel clamp then re-place shield and secure it with hose clamps. (See figure 2.8)
14. Install mid heat shield **I187-F3** and megaphone shield **HS130-F3** the same way as the other shields for the megaphone mufflers shield use the larger hose clamp at the back #56 and #40 at the front. Mid-section shield must be flush with front and rear shields. (See figure 2.9)
15. Align heat shields and tighten clamps using a 5/16 nut driver.
16. Install end cap, use 1/4"-20x1/2" button head screws and split washers to tighten and a 5/32" hex key wrench. Note that end cap can be rotated as desired if you want. If end caps are already installed, make sure they are properly tightened.
17. Route and engage Oxygen sensor harness, install a plastic zip-tight to hold front sensor cable to where it was originally and cut-off excess tail. Make sure cables do not make contact to any part of the exhaust to prevent heat damages.
18. Install radiator retainer bracket as it was before using 2 screws from stock and a 10mm socket or wrench. (Fig. 2.12)
19. Install both right/left forward controls using stock screws and an 8mm hex key wrench. (Fig. 2.15)
20. Install radiator plastic cover refer to owner's manual for proper torque. (Fig. 2.13, 2.14)

Check for adequate clearance between all exhaust system components and motorcycle accessories prone to heat damage.
Clean exhaust system with some chrome cleaner and remove painters tape (if used during installation) before turning on engine. Failure to follow this procedure may result in damages to the chrome finish as oils burn out leaving permanent marks.

**Note: Be sure to tighten all hardware before starting your engine. Retighten after the first 100 miles.
Re-mapping is strongly recommended by FREEDOM PERFORMANCE**

Every attempt has been made to provide improved cornering Clearance. However, due to design and space boundaries on some motorcycle models, ground and cornering clearance may not be improved and in some cases may even be reduced.

**WARNING!
FREEDOM PERFORMANCE DOES NOT WARRANTY ANY CHROME OR BLACK FINISH PRODUCTS AGAINST DISCOLORATION.**

Note: use good and safe practices when removing and installing your new exhaust system to prevent injuries that includes but is not limited to such safety glasses and gloves. When installing make sure gloves are not abrasive or damage may occur like scratching parts. Always secure motorcycle before any work is done.

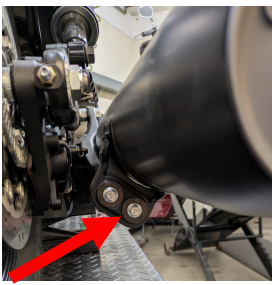


Fig. 1.1 remove muffler screws



Fig. 1.2 loosen muffler clamp



Fig. 1.3 disengage sensor harness



Fig. 1.4 let sensor hang



Fig. 1.5 remove top screw in radiator cover



Fig. 1.6 remove bottom screws in radiator



Fig. 1.7 remove foot control

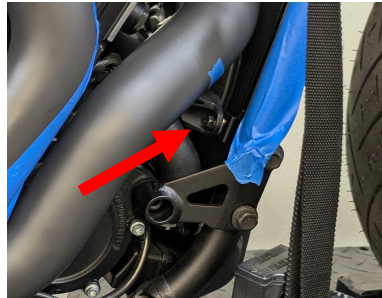


Fig. 1.8 remove radiator bracket bolts

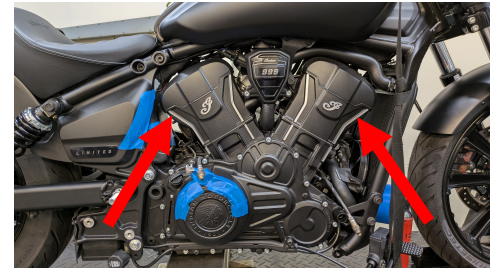


Fig. 1.9 remove header flange nuts and remove headers

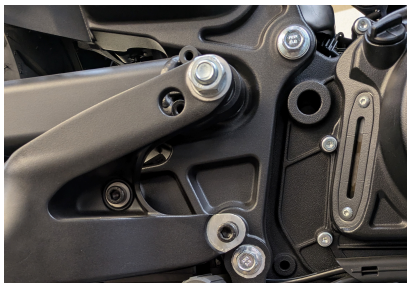


Fig. 1.10 remove stock bracket

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Fig. 2.1 hardware on kit



Fig. 2.2 install O2 sensor rear pipe



Fig. 2.3 install rear pipe



Fig. 2.4 install mounting bracket



Fig. 2.5 insert clamp over inlets

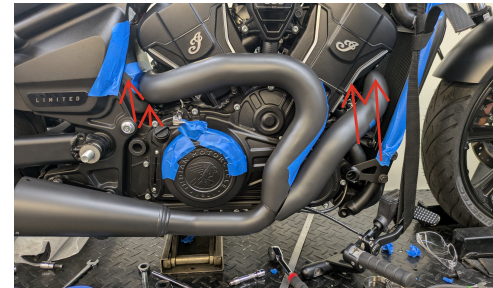


Fig. 2.6 install right header/system

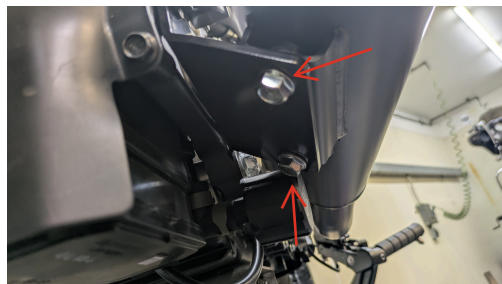


Fig. 2.7 Align system to bracket



Fig. 2.8 install left and right header heat shield

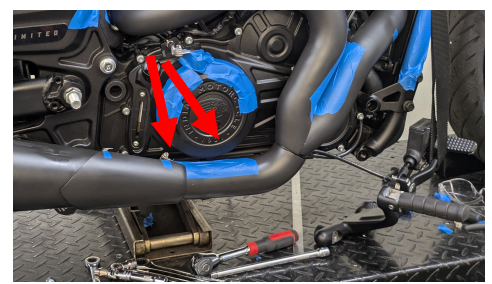


Fig. 2.9 install center heatshield and Apex heatshield



Fig. 2.10 install End cap with baffle attached



Fig. 2.11 tighten down all clamps to secure a tight fit

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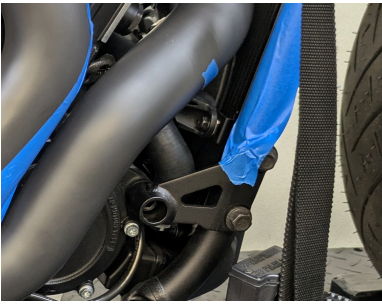
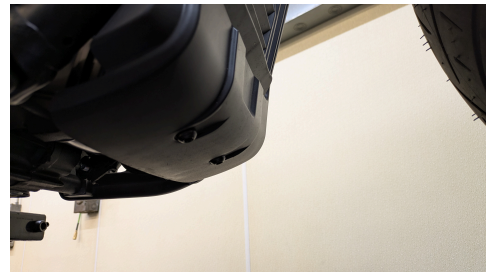


Fig. 2.12 reinstall radiator bracket



Fig. 2.13 reinstall radiator cover



**Fig. 2.14
reinstall
radiator cover**



Fig. 2.15 reinstall foot controls



Fig. 2.15 reconnect O2 sensor plug back in

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