



# Performance Intercooler Piping Kit Part Number: 17-104

**Ford 2016-2018 Ford Focus RS 2.3T**

## Installation Instructions

For technical inquiries please email us at [tech@hpsperformanceproducts.com](mailto:tech@hpsperformanceproducts.com)

In the email, please include the following information for faster response:

- Year / Make / Model / Engine of your vehicle.
- If it is a fitment issue, please include pictures showing the fitment problem.
- If there are missing parts, please list the part number(s) from the bill of materials on the 2nd page.
- Optional but recommended – Your contact phone number and preferred call back time.

You can also give us a call via 626-747-9200 for tech support Monday-Friday, 9:00am-5:00pm Pacific Time.

# Bill of Materials

## Part Number: 17-104

Description	Prep	Part Number	Qty	Check
Hot Pipe	1	529-375	1	
Cold Pipe	1	529-376	1	
Intercooler Bracket	2	530-368	1	
T-Bolt Clamp for 2" Hose	3	SSTC-54-62	1	
T-Bolt Clamp for 2.5" Hose	3	SSTC-67-75	5	
T-Bolt Clamp for 2.75" Hose	3	SSTC-73-81	2	
2" - 2.5" Reducer x 3" Long	3	HTSR-200-250	1	
2.5" - 2.75" 45 Deg. Reducer Elbow	3	17104-45	1	
2.5" Offset Coupler x 3" Long	3	HTSOC-250	1	
2.5" – 2.75" 90 Deg. Reducer Elbow	3	17104-90	1	
6mm x 16mm OD Flat Washer	3	HW-FW6L	2	
6mm Flange Nut	3	HW-N6	1	
6mm Bolt x 12mm long	3	HW-B6-12	1	

- Before installing any parts of this intercooler piping kit, please read the instructions thoroughly.
- Verify the contents of this intercooler piping kit before disassembling your vehicle.
- DO NOT INSTALL IF ANY PARTS ARE MISSING OR DAMAGED. CONTACT [tech@hpsperformanceproducts.com](mailto:tech@hpsperformanceproducts.com) IMMEDIATELY. WE ARE NOT RESPONSIBLE FOR ANY DAMAGE CAUSED DUE TO IMPROPER INSTALLATION.
- Installation requires moderate mechanical skills. A qualified mechanic is highly recommended.
- Do not attempt to install the intercooler piping kit while the engine is hot.
- This installation may require removal of coolant lines that may be hot.
- For technical inquiries, please e-mail us at [tech@hpsperformanceproducts.com](mailto:tech@hpsperformanceproducts.com)

## **PLEASE READ CAREFULLY BEFORE INSTALLATION!**

This installation is not for the novice customer. Install this product with EXTREME caution! Misuse of this product can destroy your engine! If you are not mechanically inclined, please have a professional automotive mechanic install this kit.

**NOTE: HPS holds no responsibility for any engine damage that results from misuse of this product.**

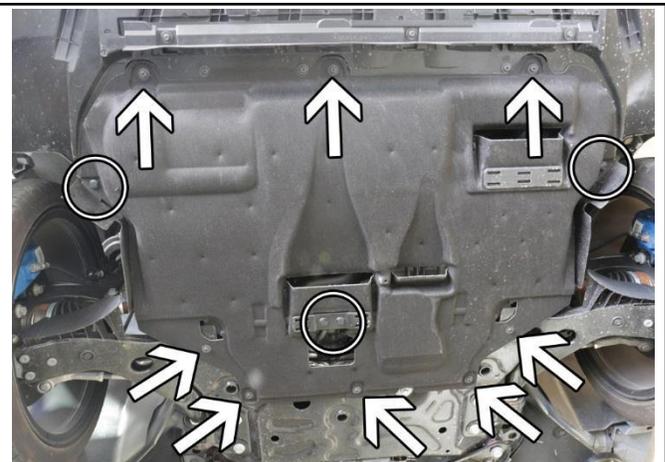
## **GETTING STARTED**

1. Turn the ignition OFF and disconnect the vehicle's negative battery cable. If the engine has run within the past two hours, let it cool down.

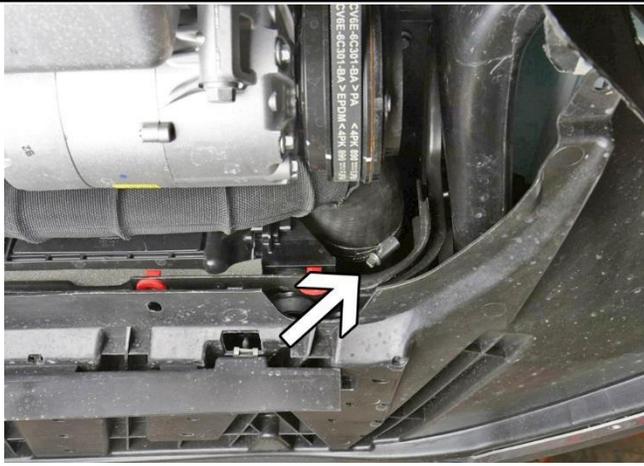
NOTE: Disconnecting the negative battery cable erases pre-programmed electronic memories. Write down all memory settings before disconnecting the negative battery cable. Some radios will require an anti-theft code to be entered after the battery is reconnected. The anti-theft code is typically supplied with your owner's manual. In the event your vehicle's anti-theft code cannot be recovered, contact an authorized dealership to obtain your vehicle's anti-theft code. We also highly recommend NOT discarding any stock parts after the installation.



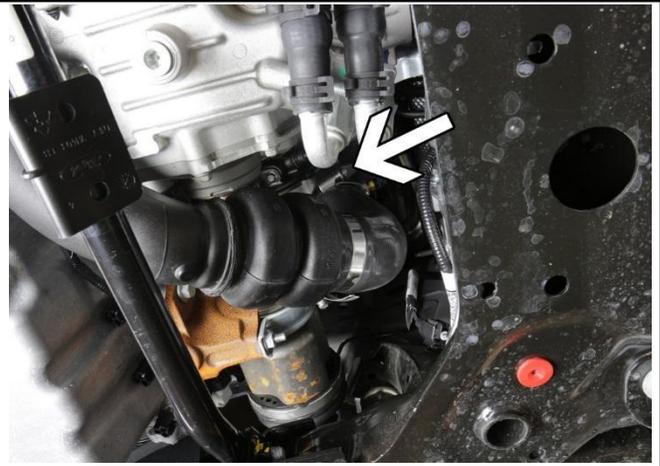
2. Loosen the hose clamp securing the throttle body.



3. Remove the undercover tray by removing the clips and the torque screws in the indicated areas shown above.



4. Loosen the cold side hose clamp and remove the hose from the intercooler.



5. Loosen the hose clamp located on the turbo outlet.



6. Loosen the hose clamp securing the hose on the hot side of the intercooler.



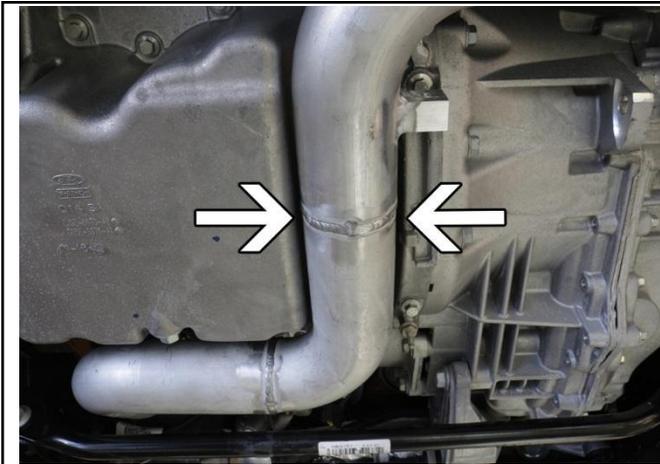
7. Remove the two 10mm bolts from the stock intercooler pipe brackets and firmly remove the hot pipe assembly from the vehicle.



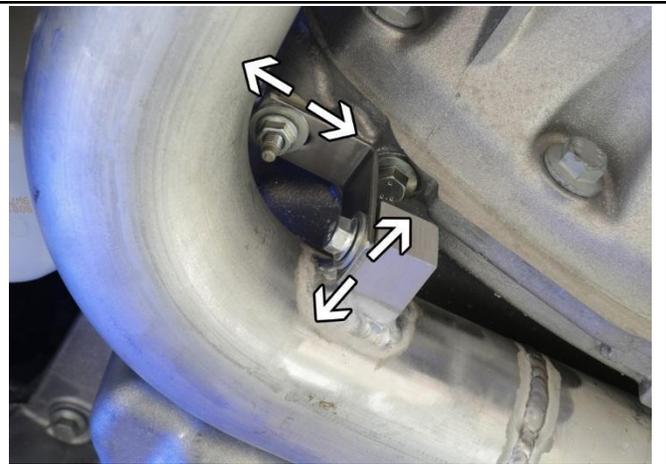
8. Install the reducer coupler onto the turbo outlet along with t-bolt clamps provided.



9. Install the 45 degree reducer coupler onto the intercooler inlet side along with provided t-bolt clamps.



10. Insert the HPS intercooler pipe into the turbo side first then into the intercooler side. **\*NOTE\*** Give yourself enough even clearance from the oil pan.



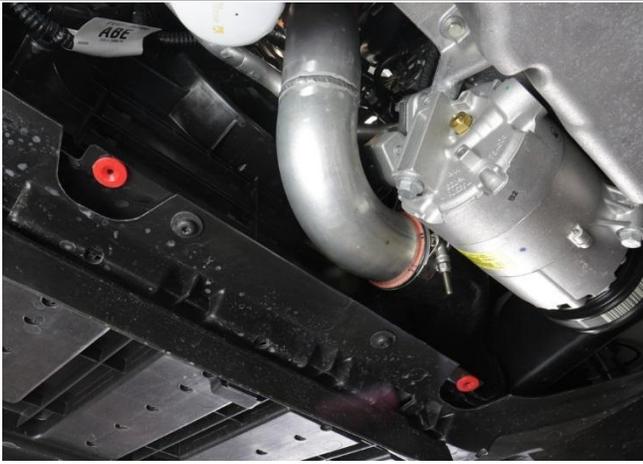
11. Install the intercooler bracket onto the pipe. Adjust the intercooler pipe to the proper clearance moving the pipe either side to side or up and down from the oil pan and secure the pipe to the bracket when positioned correctly.



12. Install the 90 degree coupler with the provided t-bolt clamps onto the intercooler outlet.



13. Install the offset coupler with the provided t-bolt clamps onto the throttle body.



14. Insert and secure the HPS cold pipe into the couplers.



15. Re-install the undercover tray back onto the vehicle.

### Final Steps

Once the pipes have been positioned, tighten all of the clamps and secure all of the parts.

Upon completion of the installation, reconnect the negative battery terminal before you start the engine. Double check to make sure everything is tight and properly positioned before starting the vehicle.

Start the engine. Let the car idle for 3 minutes. Perform a final inspection before driving. Listen carefully for any odd noises, rattles and/or air leaks prior to taking it for a test drive. If any problems arise go back and check the vacuum lines, hoses and clamps that may be causing leaks or rattles and correct the problem.

Periodically, recheck the alignment of the intake system and make sure there is proper clearance around and along the length of the intake. Failure to follow proper maintenance procedures may cause damage to the intake and will void the warranty.

