

Installation Manual

Product

**Silicone Radiator
Hose Kit**



Fitment

2008+ STI
2008-2014 WRX
2009-2013 Forester XT

BEFORE YOU START

What's Included

- 1x Silicone Upper Radiator Hose
- 1x Silicone Lower Radiator Hose
- 4x Hose Clamps

Suggested Tools

- Floor Jack
- Jack Stands
- 8 Quart or Larger Drain Pan
- Funnel
- Ratchet
- 7mm Socket
- 10mm Socket
- 12mm Socket
- 6" Extension
- 12" Extension
- #2 Phillips Head Screw Driver
- Flathead Screw Driver
- Hose Clamp Pliers
(Needle Nose as alternative)



CAUTION

Make sure you have all necessary tools before beginning installation.
Your experience may differ slightly depending on year and model.

This document uses a 2020 STI for the installation process.

Please reference your **Factory Service Manual** for specific part removal instructions on your specific vehicle.

Factory Service Manuals can be purchased at:

<https://techinfo.subaru.com/>

SAFETY CHECK

Always make sure the vehicle is adequately supported on ramps, jack stands, or a lift.

Warning: Never work under a vehicle supported only by a floor jack!

Draining the Coolant

PREPARATION

1. Before you begin to disassemble and remove the existing radiator hoses you must drain the coolant.
2. Make sure the vehicle cooling system (engine, radiator, and hoses) are cool to the touch.

Warning: Opening a hot coolant system will release pressure resulting in a potential burn hazard!

UNDERCARRIAGE TRAY REMOVAL (Reference 01)

1. Using a 12mm socket, remove the two bolts toward the front, and one bolt in the back center.
2. Using a flathead screwdriver, remove 3 plastic clips (per side). One is located on the bottom of the tray and 2 up in the wheel well.
3. Remove tray and place aside.

REFERENCE 01



○ Bolt ○ Plastic Clip

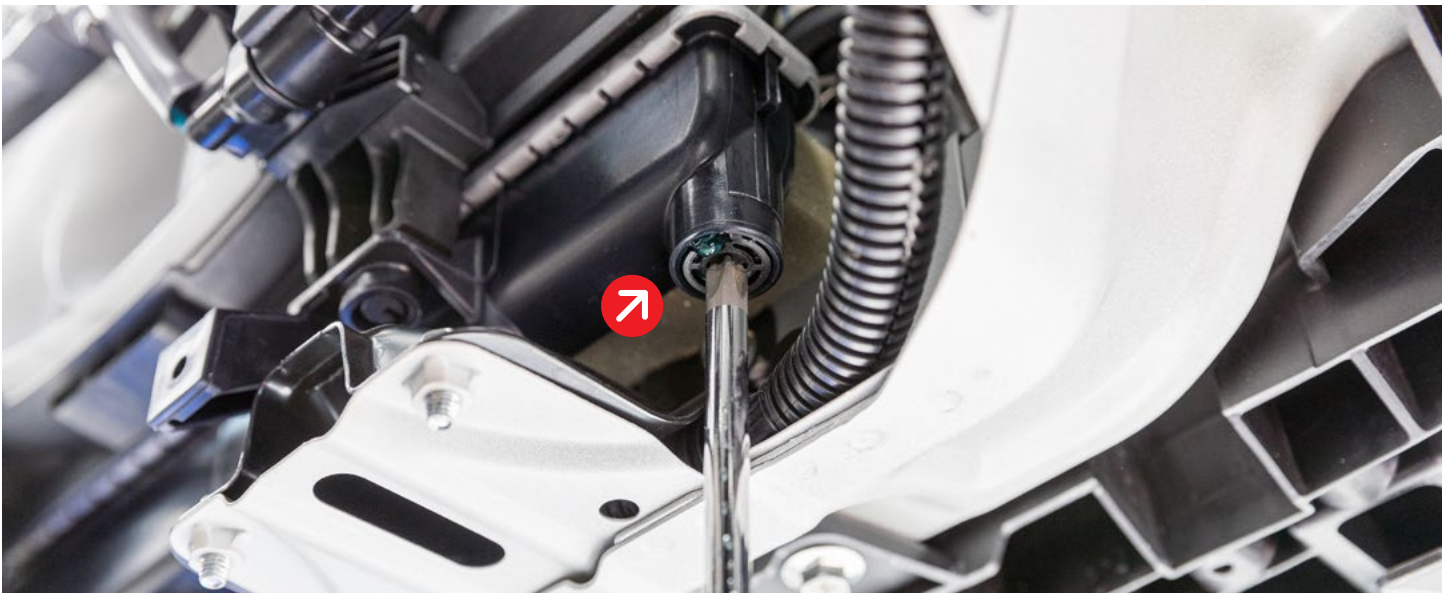
Draining the Coolant

DRAIN PLUG REMOVAL

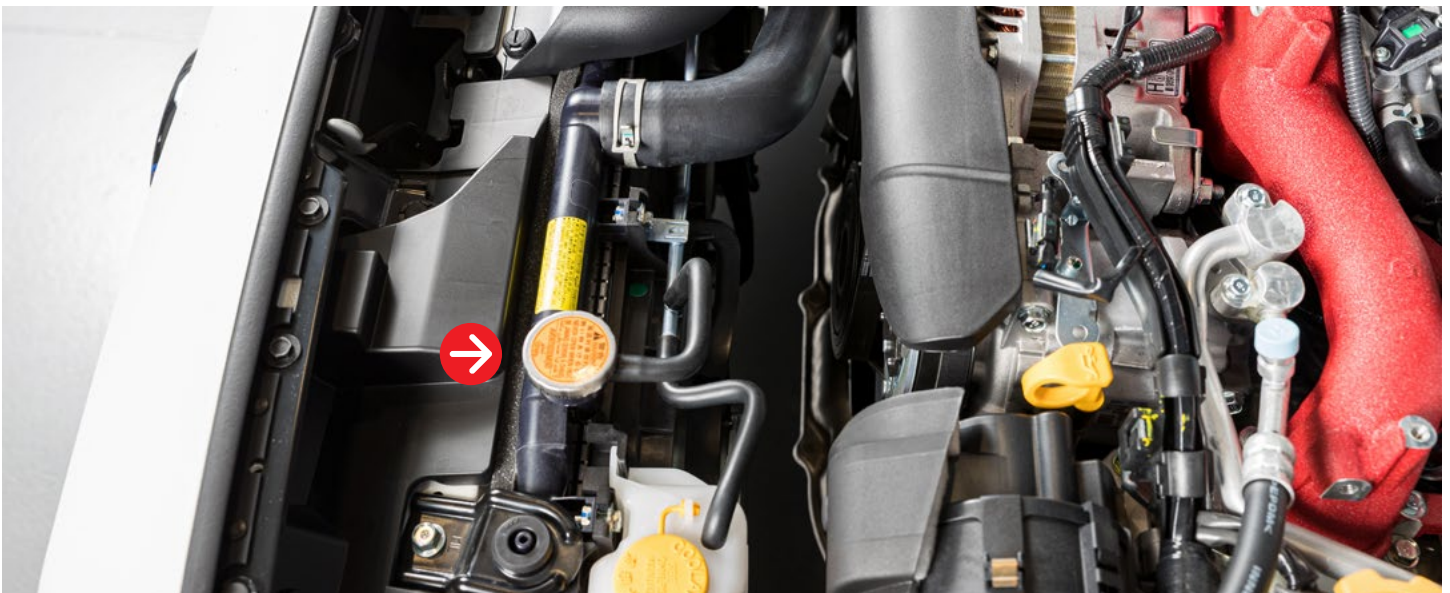
1. The drain valve is located on the lower right corner of the radiator.
2. Place drain pan underneath the drain plug to catch the coolant.
3. Use a Phillips screwdriver to remove the radiator drain plug. [\(Reference 02\)](#)
4. Remove the radiator cap to relieve the vacuum and speed the flow of coolant. [\(Reference 03\)](#)

Note: Please dispose of used coolant at a recycling center, service station, or auto parts store.

REFERENCE 02



REFERENCE 03



Removing the Original Hoses

AIRBOX INLET REMOVAL

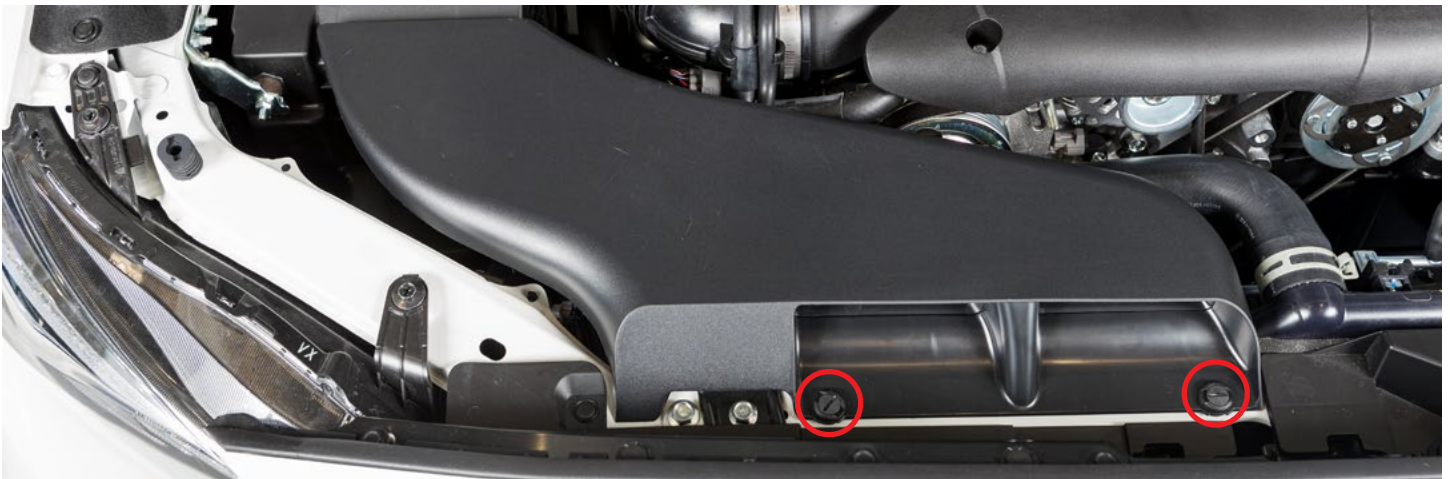
1. While the coolant is draining, using a flat head screwdriver, remove the inlet for the airbox where it attaches to the radiator support. There are two plastic clips securing the airbox, pull up and forward gently to release the clips. (Reference 04)

HOSE REMOVAL

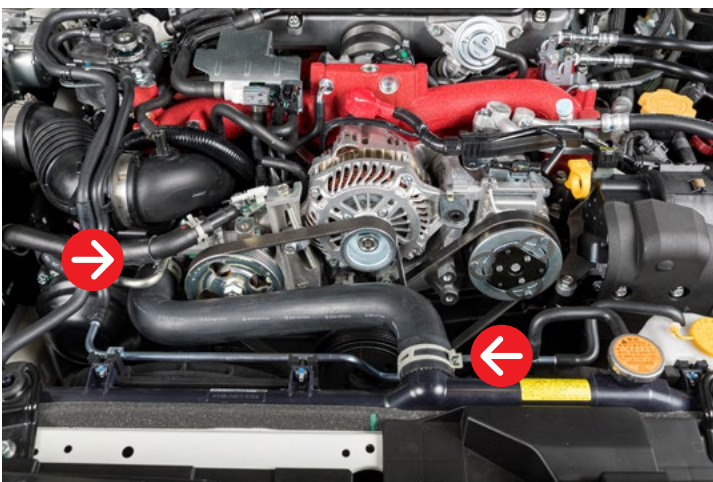
1. After the coolant is totally drained remove the factory spring type clamps by pinching the ends together with a sturdy pair of pliers. Loosen the clamps and move to the middle of the hose. Remove the factory hose using a pulling twisting motion. (Reference 05)
2. Move under the vehicle and locate the lower radiator hose and clamps. Using pliers, pinch the lower clamps and move to center of the hose. Remove the factory hose using pulling twisting motion. (Reference 06)

Note: Pay attention to the bend orientation of the stock hoses, this will be important when installing the new hoses.

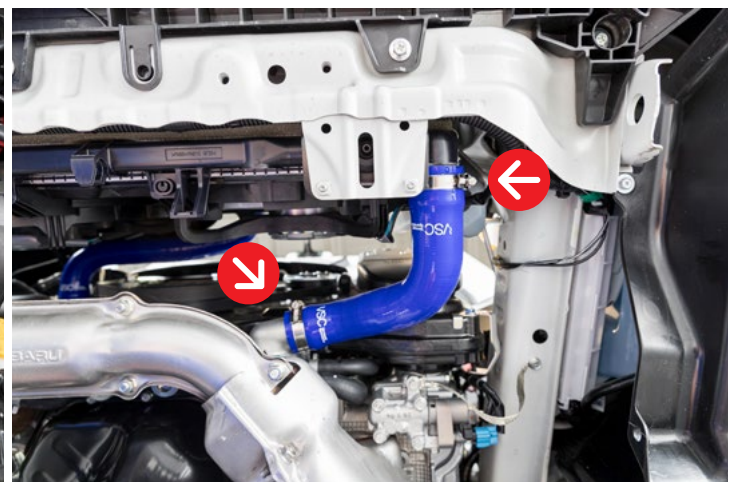
REFERENCE 04



REFERENCE 05



REFERENCE 06



Installation of Silicone Hoses

UPPER AND LOWER HOSES

1. Place the new hose clamps around the new VSC Reinforced Silicone Radiator Hose and reinstall hoses in the same orientation as the factory hoses. Check to ensure that there's adequate clearance between the upper radiator hose and the power steering belt and pulley. (Reference 07 & 08)

Note: If you do not have an OEM radiator some trimming of the hoses may be required.

Large core radiators will require trimming from the radiator side of the upper coolant hose to maintain sufficient clearance between the hose and the power steering system.

2. Align and tighten the new hose clamps. Make sure they are snug but do not over tighten.

Note: Over tightening risks damaging the hoses.

REFERENCE 07



REFERENCE 08



Refill System w/Coolant

COOLANT REFILL & TESTING

1. Double check all your fittings and begin to refill your vehicle coolant making sure to check for leaks periodically as the fluid is re-filled.
2. After re-filling the coolant, allow the car to run and warm to operating temperature. Observe the vehicle temperature to ensure it does not exceed normal range.
3. Once the car is warm, turn your heater to high and make sure the vehicle produces heat from the vents. Irregular temps or lack of heat are signs you may have air trapped in your cooling system. If this happens, allow the vehicle to cool before removing the radiator cap, make sure the coolant level is full and re-bleed the system as necessary.
4. After confirming there aren't any leaks in the system and the vehicle temperatures are normal, reinstall the air inlet and undercarriage tray.

Note: To ensure proper functioning of your cooling system, make sure to periodically check coolant level.

Finished

If you have questions or need help with your install or parts questions, please reach out to us:

Email: support@vtcar.com | **Phone:** 802.655.3533

Prior to the installation and/or use of any of products contained herein, whether purchased from or provided by Lance Smith Inc., d/b/a Vermont SportsCar (“VSC”), please read and understand both the installation instructions and these Warning and Safety Rules.

Failure to read, and strictly adhere to both the installation instructions and this Warning and Safety Rules may result in damage to personal property, serious personal injury, and/or death.

Keep all products out of the reach of children, and if children are around the products, always have an adult present.

Follow all instructions regarding the installation and use of all products.

Do not disassemble, modify, or attempt to repair any products for any reason. If damaged or in need of service, please contact VSC at the phone number or email address below.

Do not use products in any manner which has not been approved by VSC, or in connection with any third-party products, unless each has been approved by VSC prior to such use.

Do not install or use products on vehicles which have not been approved by VSC, as stated at www.vtcar.com (the “Website”).

Prior to installation, always store products in a dry and clean location.

Do not strike, hit, crush, shock, drop, pierce or otherwise physically abuse products. Make sure products are located in a place in which they will not be tripped over, damaged, cut or scratched. Do not install or use any product if it appears to be damaged or defective, instead call or email VSC at the phone number or email address below.

Immediately discontinue use of the products in the event they become damaged, deformed, destroyed, or altered in any way due to force or contact.

In the event you become injured during installation or use of products seek immediate medical attention.

If you are for any reason unable or unwilling to follow these instructions, or to comply with the terms above as applicable, please contact VSC at (802)891-6815 or at store@vtcar.com

Your installation or use of the products will constitute your acknowledgement that you have read the above. Keep this Warning and Safety Rules for your records so that you may return to them as needed.



The Undisputed Destination for Fast.

vtcar.com