



Subaru Turbo Inlet Hose, 02-07 WRX, 02 - 05 Legacy – Liberty GT, 02-07 XT Forester

INSTALLATION GUIDE

Thank you for purchasing a Ryder Racing product. Disclaimer: installation of this product should only be undertaken by a licensed mechanic/technician who has experience with fitting aftermarket automotive parts. If the vehicle is to be raised, the technician should use appropriately rated jack stands or a hoist rated for the country or state, failure to do so may cause injury or death. Upon installing the Ryder Racing product(s) the driver should be aware that aftermarket parts can change the driving characteristics of the vehicle and should adapt to them in controlled conditions. See ryderracing.com.au/T&C for additional information. This product carries lifetime replacement warranty if installed by a licensed technician, proof of installation required for all warranty claims. See T & Cs for further information.

PARTS LIST

- 1 x Silicone Hose
- 1 x Stainless Steel T-Bolt Clamp
- 4 x Ryder Racing Aluminum Barbed Elbows
- 1 x Aluminum inlet Pipe
- 1 x Stainless Steel Worm Drive Hose Clamp
- 1 x Stainless Steel Socket Head Screw
- 1 x Ryder Racing Decal

How It's Done

- 1) disconnect the battery
- 2) disconnect the fuel lines and set aside
- 3) disconnect the intercooler hose off the throttle body and connection from the Y pipe to the turbo, only loosening the worm drive hose clamps is sufficient
- 4) Remove the 2 x 12mm bolts from the intercooler supports, you can now remove the intercooler.
- 5) Disconnect the MAF sensor from the intake pipe, loosen the worm drive hose clamp which attaches it to the factory turbo intake hose, remove this section from the vehicle.
- 6) Remove the 3 x 10mm bolt on the coolant reservoir, drain excess coolant, remove and place aside.
- 7) Disconnect the bypass hose from the intake hose
- 8) Disconnect the four vacuum hoses from the intake hose (some of these may be hard, squash the connection point with pliers, it usually breaks the intake hose and releases the vacuum hose). **Be sure not to damage the actual hose as you may require additional hose clamps (not supplied) or have to replace the hoses.**
- 9) Remove the 12mm bolt at the front of the manifold which secures the intake hose to the manifold
- 10) Remove the 3 plug connector from the throttle body, (If this breaks we have replacements in our store).
- 11) Using pliers remove the 3 coolant hoses from the throttle body by squeezing the spring clamps.

- 12) Remove the 2 small 1/8 vacuum hoses from the front of the manifold located behind the alternator, remove the 12mm bolt from under the manifold located near these vacuum hoses.
- 13) Remove the 12mm bolts from the left and right side of the manifold that attach the ground straps.
- 14) Remove all 8 x 10mm bolts and 3 x 10mm nuts which secure the manifold to the cylinder heads. Removal of the TGV separately is not required.
- 15) **At this point you should be able to pivot the righthand side of the inlet manifold to gain access to the turbo inlet hose.**
- 16) Remove the clamp which secures the inlet hose to the turbo inlet, you can now remove the factory turbo inlet hose
- 17) Slide the Ryder Racing turbo inlet hose under the manifold onto the turbo inlet, using the supplied worm drive hose clamp secure the intake pipe to the intake of the turbo. Check to make sure the hose has mated correctly and evenly on the turbo. Tighten the supplied T-Bolt clamp
- 18) Check the manifold gaskets are aligned and not damaged. Tighten the 10mm bolts and nuts securing the manifold to the cylinder head.
- 19) Refit the 12mm bolt that secure the ground straps to the left and right side of the manifold.
- 20) Connect the fuel lines. **If you're considering a Ryder Racing Fuel Rail and Injector upgrade this is an appropriate time to do it, see our store for purchases and installation guides.**
- 21) Connect the 3 coolant lines and electrical plugs on the throttle body, (remembering if they broke during removal; we sell new plugs in our store
www.ryderracing.com.au
- 22) Connect the 2 x 1/8 vacuum lines to the front of the manifold, refit the 12mm bolt underneath the manifold.
- 23) Fit the intercooler and tighten the 2 x worm drive clamps that secure to the throttle body and turbo outlet. Fit the 12mm bolt and secure the intercooler to the support bracket.
- 24) Fit the 4 x vacuum lines to the new inlet hose, also connect the bypass hose using the supplied worm drive hose clamps.
- 25) Refit the intake pipe using the supplied hose clamp, connect the MAF sensor

Congratulation you have installed a Ryder Racing Turbo Inlet Hose!

Don't forget to complete your warranty registration online @

<https://ryderracing.com.au/registration-and-warranty>