



# **VS30 (2019+) Sprinter ARB Onboard Air Kit Installation Guide**

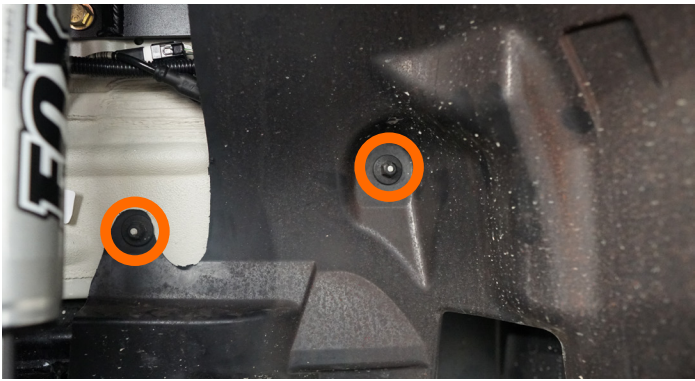


## **Package Includes:**

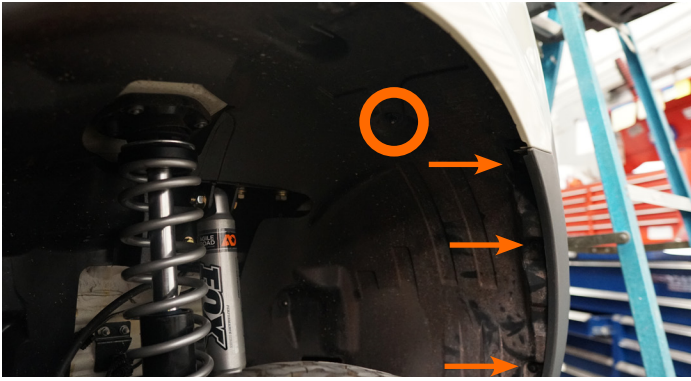
- ARB Twin Compressor
- ARB Power Harness
- ARB Switch Controller Harness
- DOT Air Line
- OEM Mercedes Dash Switch
- 25' Coiled Polyurthane Air Hose
- Agile Compressor Plate
- Agile Front & Rear Air Source Mounts
- Agile Air Line Caps (2)
- Bulkheads, T-Fitting & Air Hose Couplers
- Electrical Connector & Wire Taps
- Mounting Hardware



Completely power off the vehicle & disconnect the battery using the battery disconnect terminal located under the center console (if equipped). Otherwise disconnect using the battery ground terminal.



Remove the forward facing portion of the passenger side inner fender liner. It's easier to remove if you lift the front of the vehicle and place on jack stands. There are 3-10mm plastic nuts to remove first.



Next remove the 5 fastener pins. There are 3 located in the fender well.



The other 2 pins are located underneath the vehicle connecting it to the front bumper.

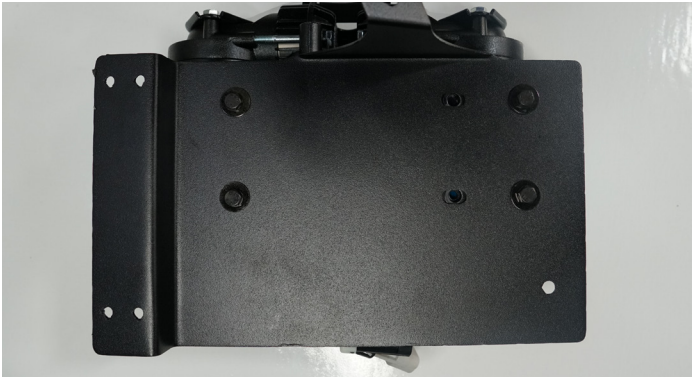


Remove the cabin airbox from the passenger side of the engine bay. It's attached with 4-10 mm nuts.

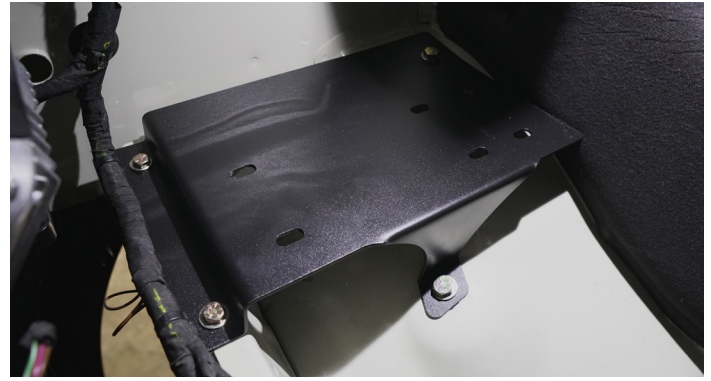


Use a panel popper or your hand to pry the 2 cable harness mounts running under the airbox loose. Move cable out of the way.





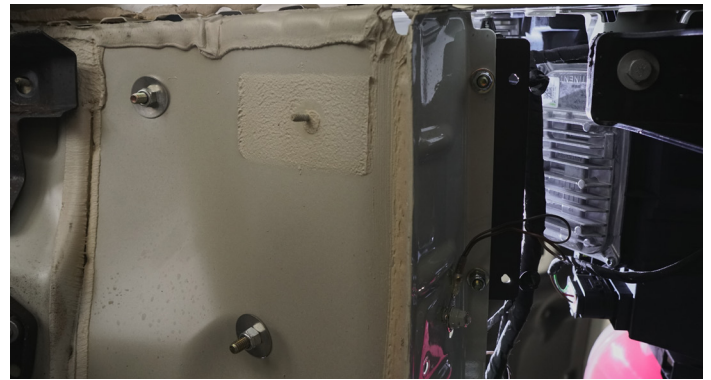
Attach the compressor to the mounting plate using the provided 4 bolts & washer hardware as shown.



Using the 5/16" bolts in larger holes, mount the compressor plate in the engine bay. Sandwich small washers between bolts and compressor plate and insert through chassis. (shown without compressor attached for visual clarity)



1/4" bolts go in moved cable holes. Torque the mounting plate bolts snugly, being careful not to overtighten them.



The Larger washers go on the bottom side between nuts on big holes. You'll need the help of a friend to hold the nuts that protrude into the exposed wheel well from the bottom as you tighten the larger mounting plate bolts on the top.



Re-mount the cable harness mounts into the secondary set of holes in compressor plate as shown.



Connect main power & switch controller wiring harnesses to the ARB compressor as shown.





Install the ground wire on the factory stud located near the hood hinge bracket



Remove the protective plugs & screw the ARB air filters into the compressor unit.



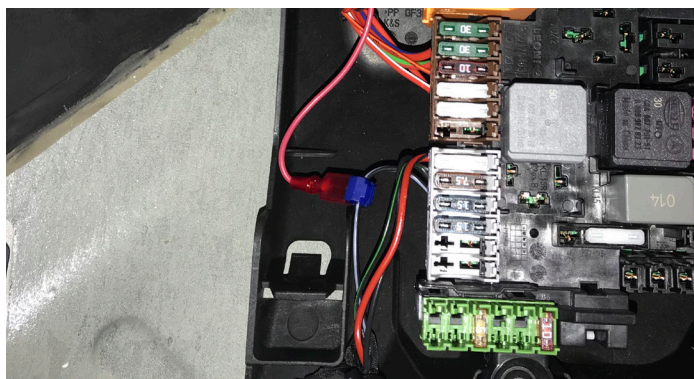
Remove the floor mat & tool tray beneath from the inside of the passenger footwell to expose the factory fuse box.



Cut zip tie on factory firewall pass through. You'll need to stuff the harness & switch control through the opening. There's a piece of insulation you need to move inside of the vehicle.



It helps to have a friend carefully pull the wires through while you feed them from inside the engine bay. Reinstall the insulation & replace the zip tie when the wires have been pulled through.



Use the included wire tap to connect to the keyed hot power source (**black/white wire**) as shown.





Route both wires through the lower center console and pull them to the driver side. You'll need to remove the plastic cover on the driver side to access them.



Remove the trim piece on the driver side kick panel.



Next Remove the 5 T-20 torx screws holding on the driver side lower dash.



Detach the clips along the lower portion of the dash so you have access behind it to get to the factory switch panel.



Squeeze the tabs & pop out an available blank switch. Do not use the corner switches. The supplied switch is designed to fit the middle.



Snap the dash rocker switch onto the connector housing and reinstall into the switch housing.

*\*The switch pictured above has a "custom" Air label. Please see included wiring diagram (on the back page) if illumination function for standard switch is desired\**



Remove the driver side floor mat to access the engine battery cover. It's held on by 4-T20 torx screws.



Remove the 2 screws that attach the center console to the floor. Route the main power wires as shown so they feed into the battery box. Replace the console screws when done.



Attach the main power wire to the post on the positive battery terminal.



Replace the battery cover & re-assemble your interior.

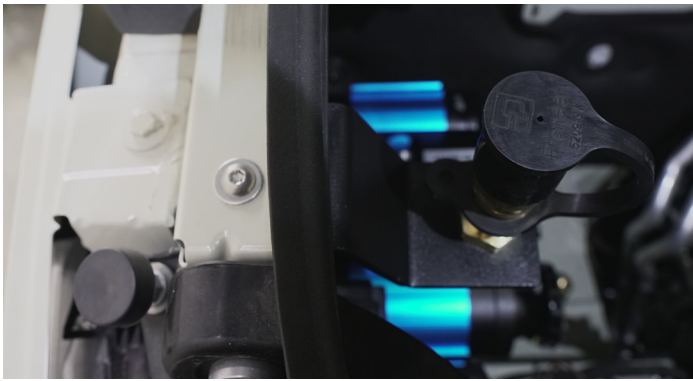


Line the included template up (see next page) with the notch over the passenger side headlight.

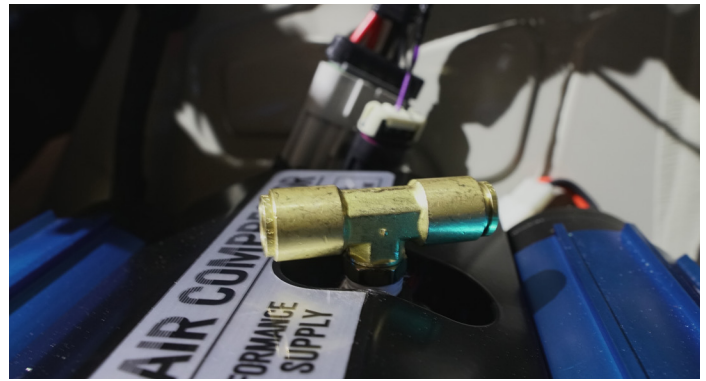


Mark the center of the hole with a center punch and drill a small pilot hole.





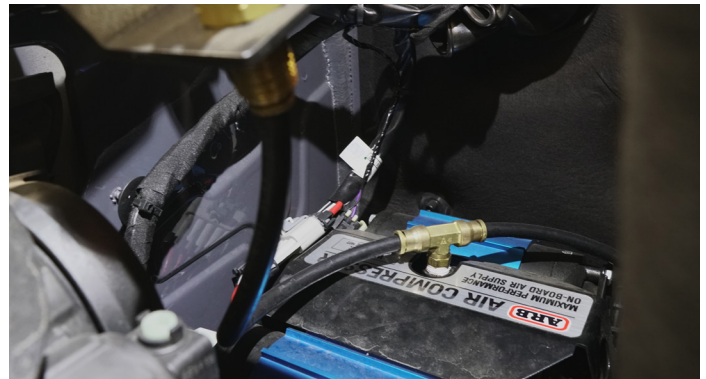
Drill the hole out to 5/16" and mount the air source bracket in the engine bay. The notch in the bracket will line up with the notch on the chassis.



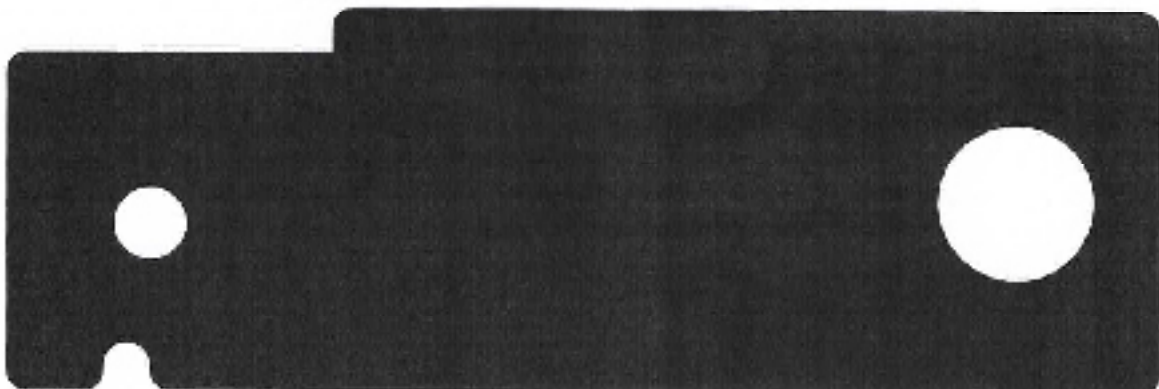
Wrap the threads in teflon tape and install the air line T-fitting on the compressor.



Drill 2 holes & mount rear air source bracket on the pinch weld near the rear bumper. Any location along the rear will work, but we recommend installing it on the opposite side of the exhaust.



Route the supplied air line from the compressor to the air source brackets. Start with the rear. **Be careful to avoid all drive line & exhaust components!** Cut the air line to the appropriate length and use the remaining portion to connect the front air source. Reinstall the air box in the engine bay and any other components you removed during the installation. Test system for operation & leaks. **Congratulations, your ARB On-Board Air System installation is complete!**



## **Mercedes Sprinter Dashboard Switch Wiring Diagram**

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**Top View**



**Back View**

**Pin #10: Ground**

**Pin #7: Load**

**Pin #3: 12V Keyed Power Source**

**Pin #1: Switch Icon Illumination**