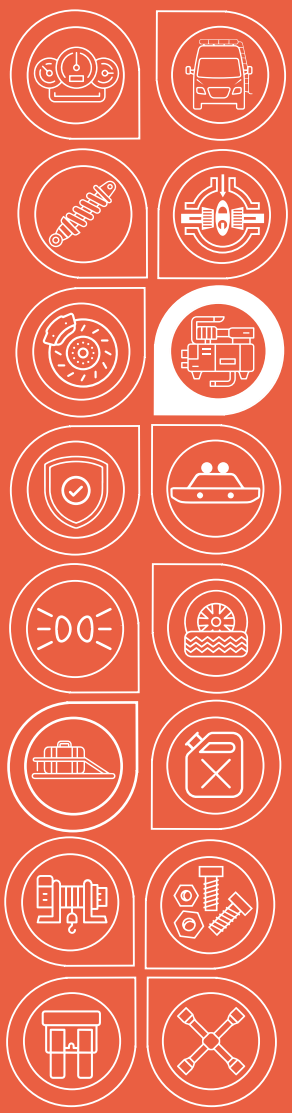
AGILE OFFROAD

SMARTER THAN DIRT



Installation Guide

OBA SYSTEM FOR FORD TRANSIT
BY AGILE OFFROAD

AO-C1T-X

RELIABLE AIR SUPPLY FOR EVERY ADVENTURE

ON-BOARD AIR SYSTEM FOR FORD TRANSIT
BY AGILE OFFROAD

The Agile Offroad On-Board Air System is a must-have upgrade for Ford Transit owners who need high-powered, reliable compressed air on the go. Designed around the ARB On-Board Air Compressor, this system delivers 6.16 CFM at 0 PSI, providing fast tire inflation, and general-purpose compressed air wherever your journey takes you.
With a 100% duty cycle and 150 PSI max pressure, this air system is built for serious overlanding, adventure travel, and worksite applications. The rugged, weather-resistant design ensures durability in harsh environments, while the IP55 rating protects against dust and water exposure.

SKU

AO-C1T-X

PARTS INCLUDED

- 1 x ARB Compressor and Bracket Assembly
- 1 x ARB Power Harness
- 1 x ARB Switch Harness
- 1 x Front Air Couple and Bracket Assembly
- 1 x Rear Air Coupler and Bracket Assembly
- 1 x Switch Trim Ring
- 1 x Switch Hole Template
- 3 x M8 Flanged Hex Nut
- 3 x M8 Flange Locknut
- 20 x Cable Tie

TOOL NEEDED

- Clip Removal Tool
- 10mm Socket/Wrench
- 13mm Socket/Wrench
- 15mm Socket/Wrench
- Teflon Tape
- 5/16" Drill Bit
- 9/16" Open Wrench

INSTALLATION TIME

3- 4 Hours

1. Pull straight back on the upper section of the driver side center B-Pillar molding.

2. With the top section unclipped, slide the molding up and remove.

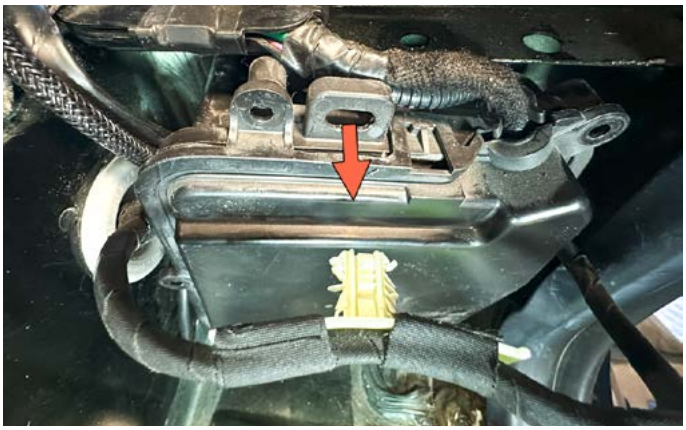
3. Use a clip removal tool to remove the lower B-Pillar molding.

4. Remove the courtesy light from lower molding.

5. Remove the three screw caps from the step molding.

6. Use a 10mm socket/wrench to remove the three step molding bolts then remove molding.

7. Use a T25 Torx bit to remove the five module screws.



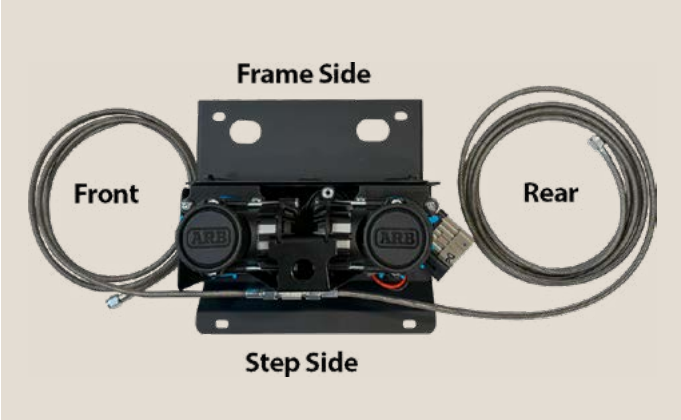
8. Unclip the wire harness from the top of module.

9. Remove module cover.

10. Remove module and then use a 10mm socket/wrench to remove the two module box nuts.

11. Remove the module box. With the module box removed, there is full access to the factory wire harness grommet.

12. The compressor kit comes with pre-assembled front and rear coupler assemblies.



13. The compressor and bracket assembly comes pre-assembled with front and rear air lines.

14. Use a 13mm socket/wrench to remove the two fuel vapor canister filter bracket bolts.

15. Partially remove the canister filter from frame by sliding the filter assembly forward to detach bracket tab from frame.

16. Install compressor assembly using the two fuel vapor canister filter bracket bolts as shown. Torque to 18 ft lbs.

17. Use a 5/16" drill bit to drill two holes to attach the compressor bracket through the step well. Use the bracket holes as a guide.

18. Use two of the supplied M8 flange bolts and M8 flange nuts to bolt down bracket. Torque to 18 ft lbs.

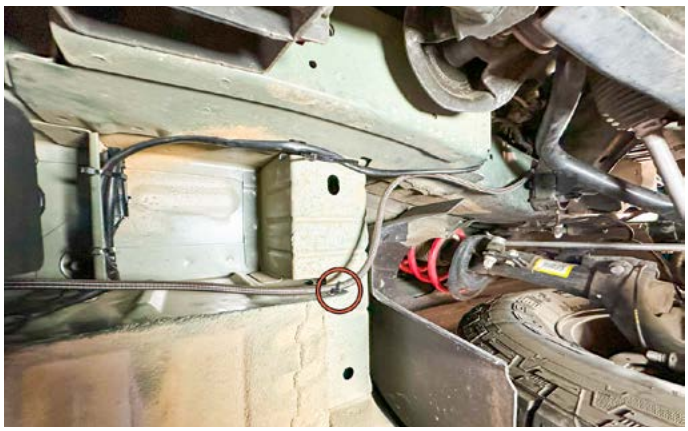
19. Route the rear air line to the hitch following the frame as a guide. Use the supplied cable ties to attach the air line to the frame at every 18-24".

20. Avoid any moving suspension parts when routing past rear differential.

21. Route the air line to the hitch as shown.

22. Use a 15mm socket/wrench to remove the two outer hitch assembly bolts.

23. Install the air coupler assembly using the previously removed hitch assembly bolts. Torque to 38 ft lbs. Use a 9/16" wrench to attach the air line to the coupler.

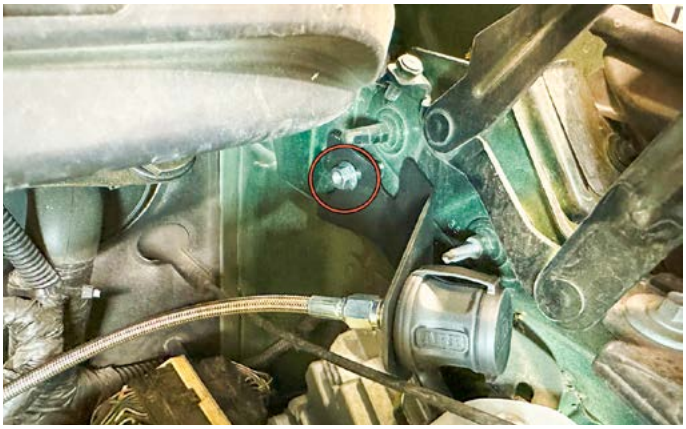


24. Route the front air line to the engine compartment following the frame as a guide. Avoid any moving suspension parts and exhaust pipes. Avoid routing air line near steering coupler. Use the supplied cable ties to secure the air line.

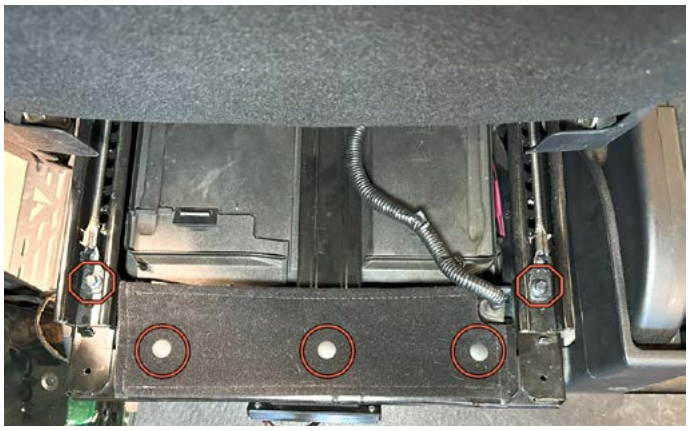
25. At the engine compartment, route the air line to the driver's side hood hinge.

26. Attach the front coupler bracket assembly to the air line.

27. Install the supplied M8 flange bolt through the existing hole below the hood hinge. Install bolt from the space between the fender and the apron.

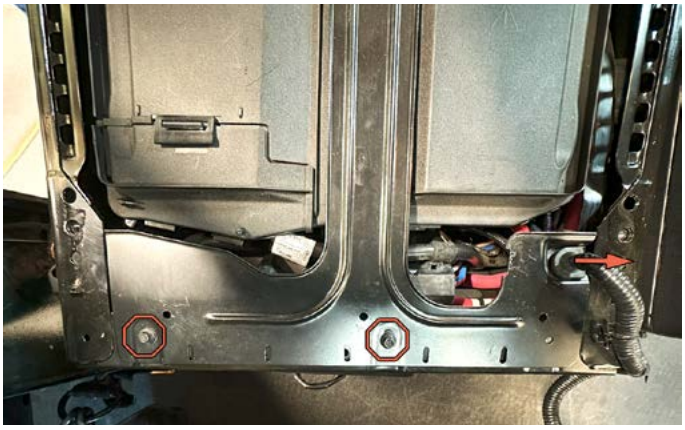


28. Use the supplied M8 flange nut to install the air couple assembly to the driver's side apron below the hood hinge. Torque to 18 ft lbs.

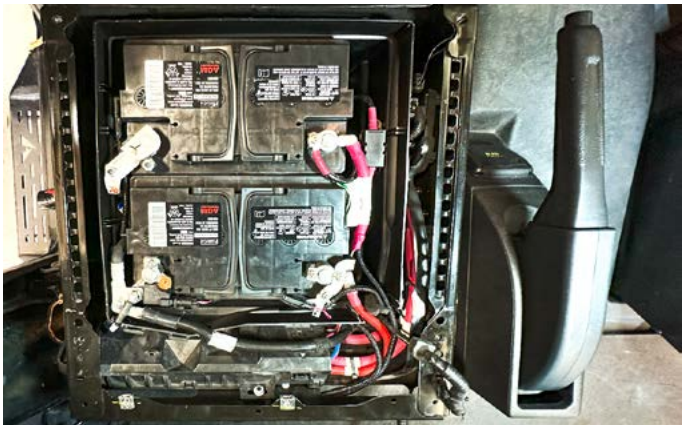


29. Use a clip removal tool to remove the three carpet material clips behind the driver side seat. Use a 10mm socket/wrench to remove the two rear seat bracket bolts.

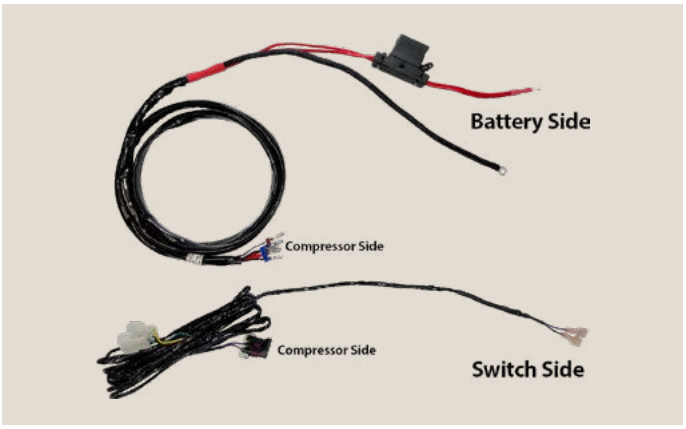
30. Slide the driver's seat back and remove the two front seat bracket bolts.



31. Remove the seat from the base and lay it down behind the seat base. Leave the seat connected to the wire harness. Use a 10mm socket/ wrench to remove the two upper seat base bracket bolts. Slide the seat wire harness grommet off the bracket.

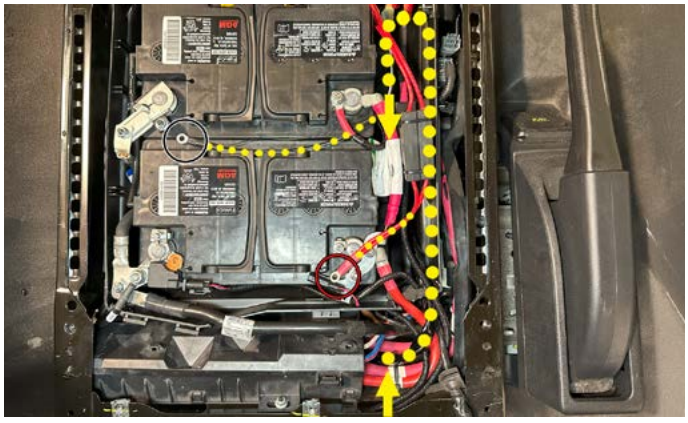


32. Completely remove seat bracket and plastic battery box cover.

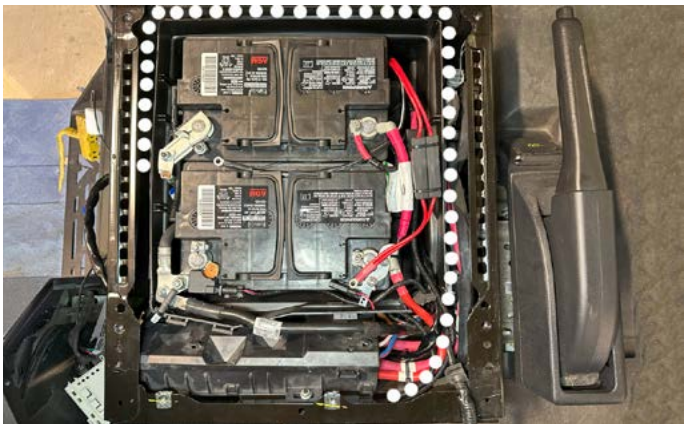


33. Unroll the supplied power and switch harnesses. Identify the battery end of the power harness and the switch side of the switch harness.

34. Run both power and switch harnesses from the inside of seat base out the rear vent holes as shown.



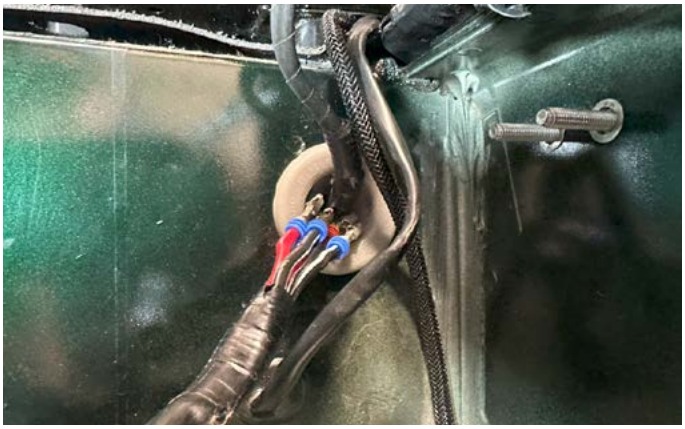
35. Run the power harness (as shown in yellow) in the battery box with the black wire going to the negative battery post and the red wire going to the positive battery post.
DO NOT CONNECT TO BATTERY AT THIS TIME.



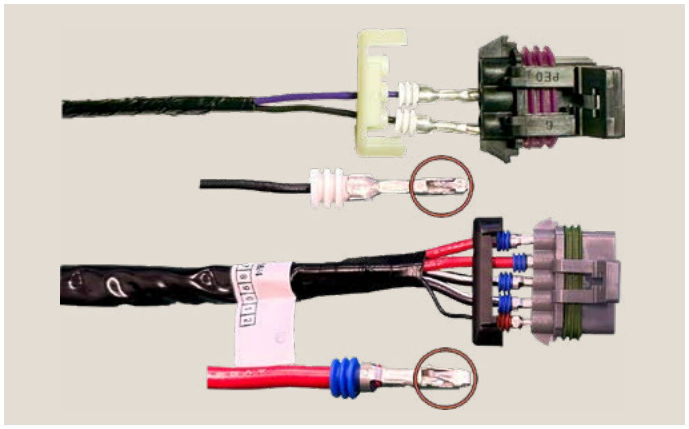
36. Run the switch harness (as shown in white) outside the battery box to the driver's side of the seat base.

37. Run the power supply and switch harnesses from the rear of seat base to the footstep well.

38. Use a razor blade to make a small incision in the factory wire harness grommet.



39. Run the power and switch harnesses through the grommet.

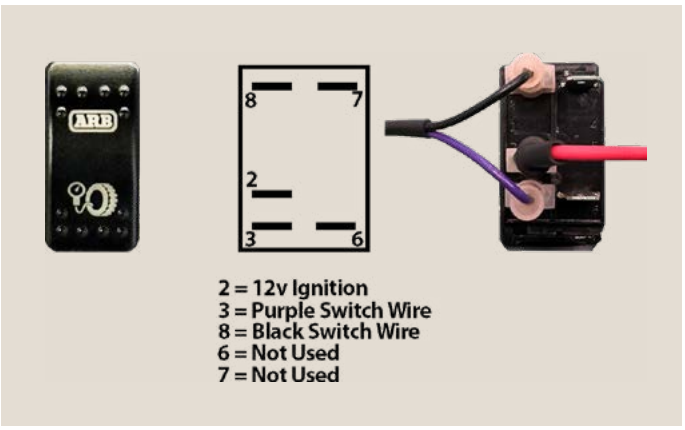


40. Install the power and switch harness connectors as shown. Position both terminals and connectors as shown before mating terminal to connectors. Lock the terminals into connector and install the terminal retainer clip. **Note: TO AVOID POSSIBLE FIRE AND/OR INJURY – ALL WIRE TERMINALLS MUST BE INSTALLED AS SHOWN.**

41. Connect the power harness to the compressor power connector. Connect the switch harness to the compressor switch connector.

42. Use the supplied switch hole template to mark the switch location. Use a reciprocating saw to cut the hole. **Note: When cutting hole, make sure there are no wires and/or other obstacles. The compressor switch is shown here being mounted on the seat base. A custom switch location is possible and will require additional time for the removal of panels, carpeting, custom wiring, and drilling.**

43. At the seat base, identify the black and purple wires (with ¼" spade connectors) of the switch harness.



44. Connect the black and purple wire to the back of switch as shown. Connect the red switch wire directly to the positive battery terminal.

45. Connect the black w/white stripe ring terminal to the negative battery terminal as shown.

46. Connect the double red wire ring terminal to the positive battery terminal as shown.

47. Use the switch to turn on the compressor.

48. Re-install step molding, battery cover, seat base brackets, seat, and b-pillar molding.

49. 49. Check all air lines for leaks.

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