

## INSTALLATION GUIDE

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On Board Air Kit for Ford Ranger by  
Agile Offroad

R11-1000

# RANGER-READY AIR SYSTEM FOR DEMANDING USE

On Board Air Kit for Ford Ranger by Agile Offroad



Purpose-built for the 2024+ Ford Ranger, Agile Offroad's On Board Air Kit delivers reliable compressed air wherever you need it. The ARB twin compressor is mounted beneath the rear seat on a rugged, powder-coated steel bracket for a clean, OEM-quality fit. A custom plug-and-play harness ensures simple electrical integration with minimal wiring effort. Perfect for inflating tires, this kit blends factory-level fitment with serious off-road capability.

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## SKU

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R11-1000

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## PARTS INCLUDED

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1 x ARB Compressor and Bracket Assembly

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1 x Power, Ground, and Switch Cable Harness

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1 x ARB Airline

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2 x 6"x7" Foam Pads

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1 x 16" Braided Hose

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1 x 36" Cable Fishing Strip

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1 x Air Coupler and Bracket Assembly

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1 x Schrader Valve Clip-On Air Chuck

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10 x M6 Nut Inserts

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1 x Nut Insert Installation Tool

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9 x M6 Flange Screws

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1 x M6 Flange Nut

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## TOOL NEEDED

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Razor Blade

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#2 Phillips Screwdriver

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Panel Clip Removal Tool

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25/64" Drill Bit

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Paint Marker

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1 1/2" Hole Saw

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Deburring Tool

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Masking Tape

---

Electrical Tape

---

T30 Torx Bit

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Teflon Tape

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10mm Socket

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5/16" Socket

---

15mm Open Wrench

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9/16" Open Wrench

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Wire Stripper Pliers

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Wire Crimper Pliers

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## INSTALLATION TIME

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2-3 Hours

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**1.** Allow the engine to **cool down completely (at least 30-60 minutes)** before removing the two reservoir lines to prevent severe burns from pressurized, boiling coolant and steam, which can cause serious injury. Remove the reservoir cap then remove both coolant lines by pressing on the locking tabs. Rest the two coolant lines with the ends facing up to avoid coolant leakage.



**2.** Use a 10mm socket to remove the three reservoir screws.



**3.** Rest the reservoir on the inner fender well.



**4.** Locate the large wire harness grommet at the firewall. Use a razor blade to cut the end of the grommet nipple.



**5.** Use a panel clip removal tool to remove the clip of the passenger side kick panel/door sill panel.



**6.** Pull up the door sill panel starting from the rear until the bottom is completely detached.

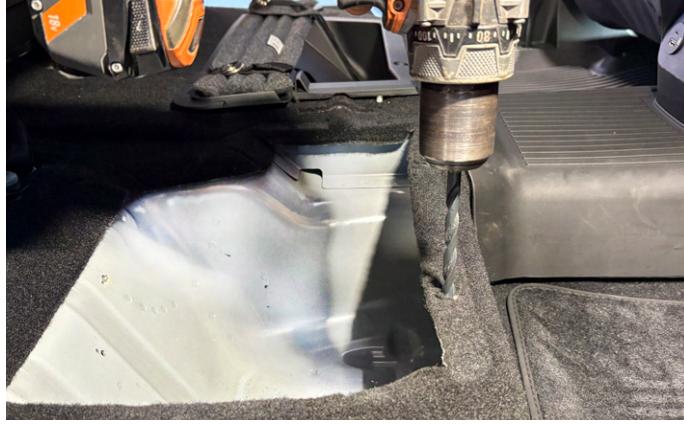
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**7.** Unclip the upper panel clip and remove the complete kick panel/door sill panel.



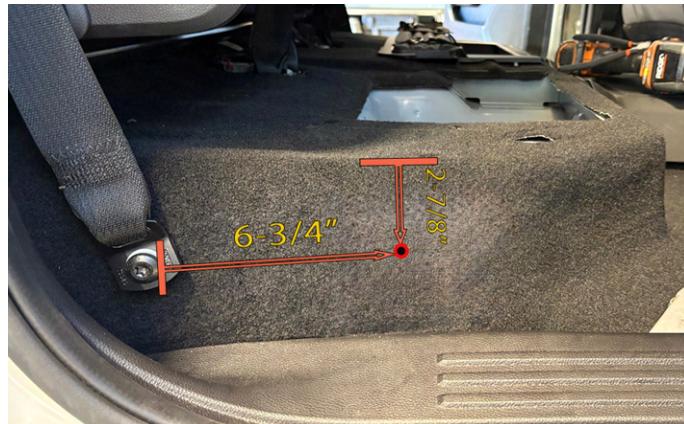
**8.** Lift the lower rear seat cushion. Use a panel clip removal tool to remove the five storage bin clips. The two inner clips are located under the storage lip.



**9.** Use a 25/64" drill bit to drill out the five storage bin clip holes.



**10.** Install the supplied M6 nut inserts using the supplied installation tool or tool of choice.

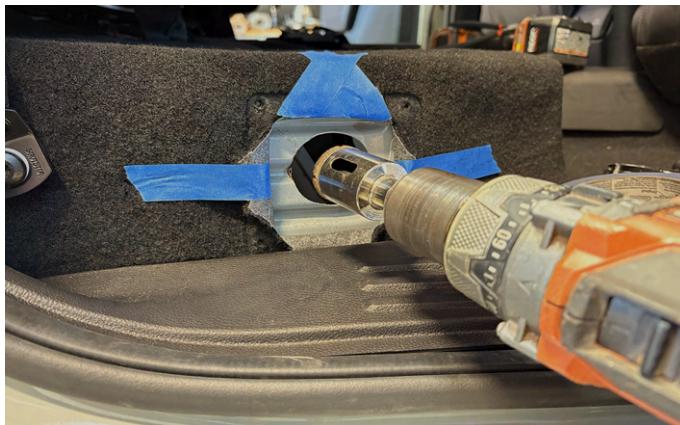


**11.** Use a paint marker to mark the drill location for the air coupler. Use the measurements as shown. Mark both the carpet and the sheet metal.

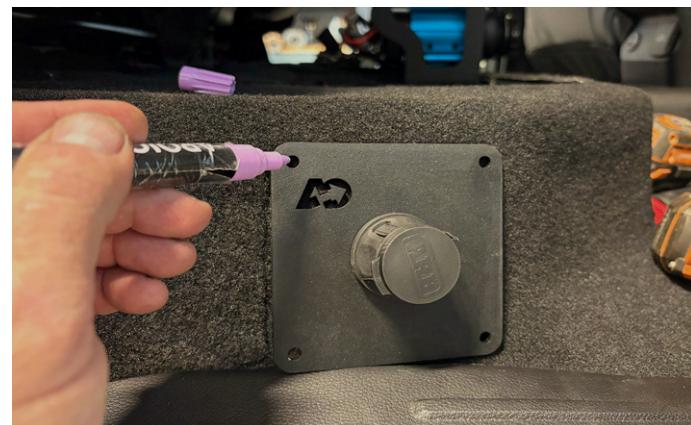


**12.** Cut a 3" x 3" X on the carpet to expose the sheet metal. Use masking tape to hold the carpet back while drilling the coupler hole.

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**13.** Use a 1 1/2" hole saw at the marked location. Deburr hole as necessary.



**14.** Use the Air Couple Plate Assembly as a template to mark the four mounting holes.



**15.** Use a 25/64" drill bit at the four marked locations.



**16.** Install the supplied M6 nut inserts using the supplied installation tool or tool of choice.



**17.** Pull up the door sill panel starting from the front until the bottom is completely detached.

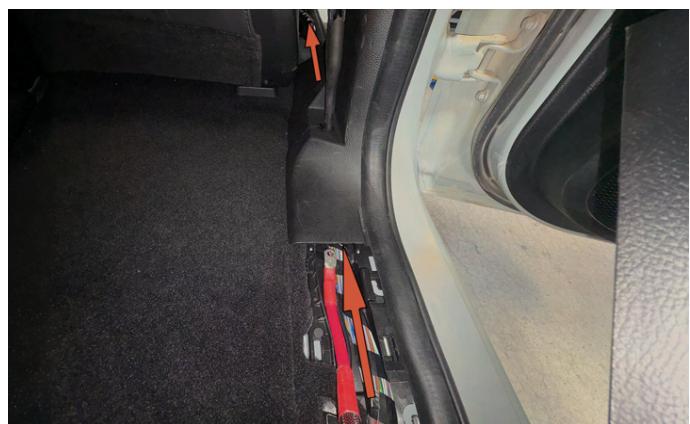


**18.** Route the battery cable harness from the storage panel cavity to the rear passenger door sill.

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**19.** Continue from the rear door sill forward. Carefully route the cables so that there are no kinks.



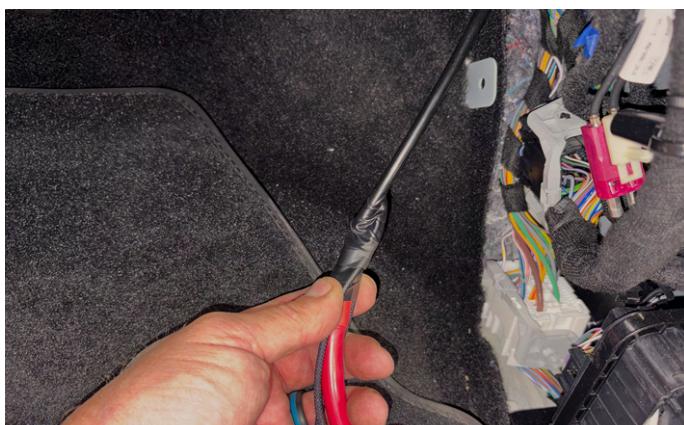
**20.** Route the cable under the b-pillar panel and towards the kick panel location.



**21.** Insert the supplied cable fishing strip into the grommet nipple opening from step 4.



**22.** Run the cable fishing strip down to the kick panel location.



**23.** Use electrical tape to attach the battery cable terminal and the auxiliary switch wire to the cable fish strip. Carefully fold the excess auxiliary switch wire back.



**24.** Carefully pull the battery cable and auxiliary switch wire through the grommet.

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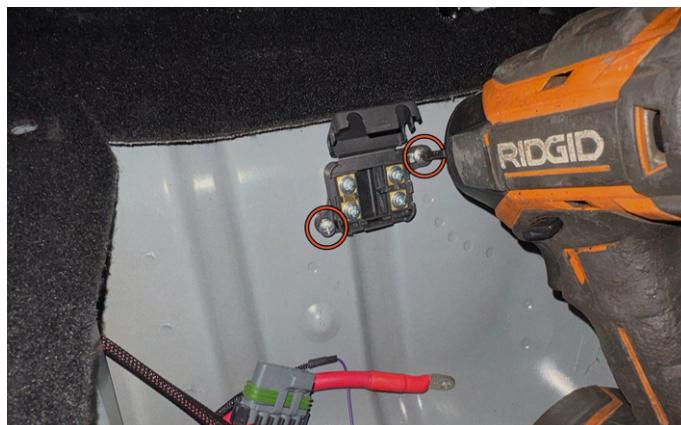
**25.** Route the battery cable and auxiliary switch wire along the firewall to the engine start battery. Use cable ties to secure the harness.



**26.** At the battery fuse box, you will need approximately 6" of cable to make the connection. Do not connect the battery cable to the battery fuse at this time.



**27 A/B.** Route the ground cable from the storage cavity to the kick panel following the same route as the Battery Cable Harness from Steps 18-20. Use a 10mm socket to attach the ground ring to the factory ground bolt at the kick panel location.

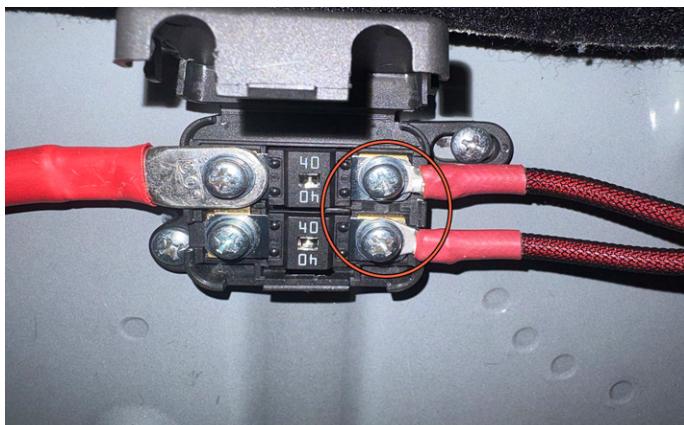


**28.** Install the supplied fuse block near the top of the storage box opening using the supplied self-tapping screws.



**29.** Connect the battery cable to the fuse block as shown. The battery cable side should have a brass bridge to energize both fuses.

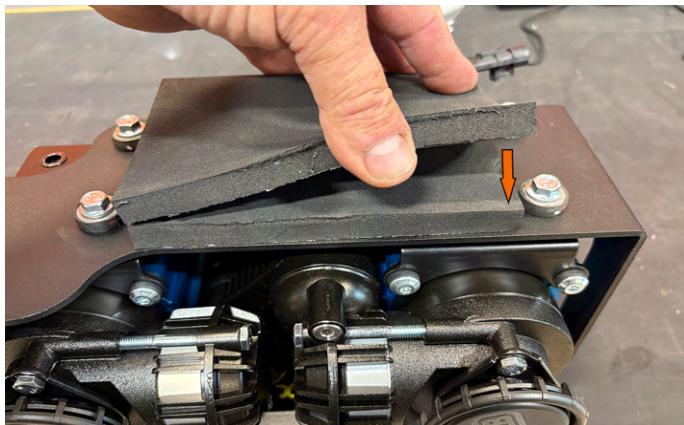
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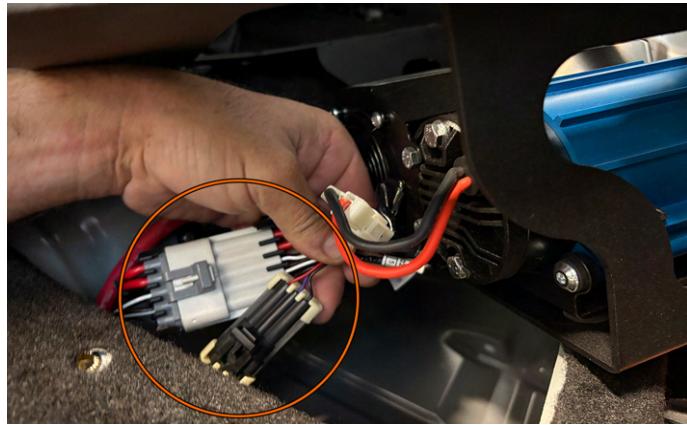
**30.** Connect the two compressor power wires as shown. Use a Phillips screwdriver to fully tighten all four screws



**31.** Adhere the first of the supplied pads to the bottom of compressor bracket.



**32.** Install the 2<sup>nd</sup> supplied pad to the previously install pads.



**33.** Place the compressor assembly into the storage cavity and connect both the power supply connectors and switch connectors to the ARB compressor.



**34.** Use a T30 Torx bit to install the five supplied M6 screws. Torque to 5 ft/lbs.



**35.** Apply Teflon tape to the NPT side of the supplied 90-degree fitting. Remove the red compressor cap and install the fitting using a 15mm open wrench. Face the fitting towards the passenger side of vehicle. **Note: Do Not Overtighten.**

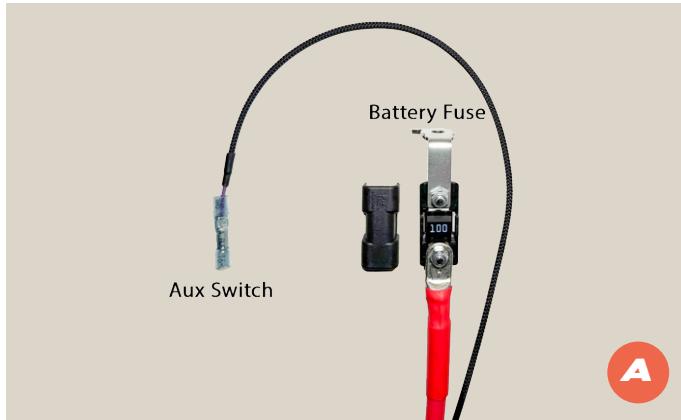
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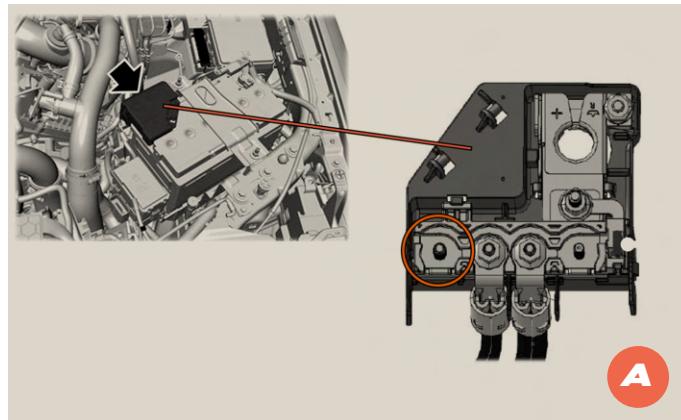
**36.** Use a 9/16" open wrench to install the supplied steel braided hose from the 90-degree compressor fitting to the coupler fitting.



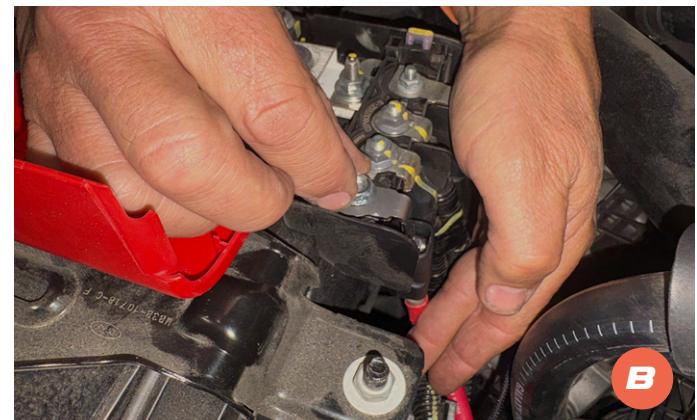
**37.** Install the Coupler Bracket Assembly using the supplied M6 screws. Torque to 5 ft/lbs.



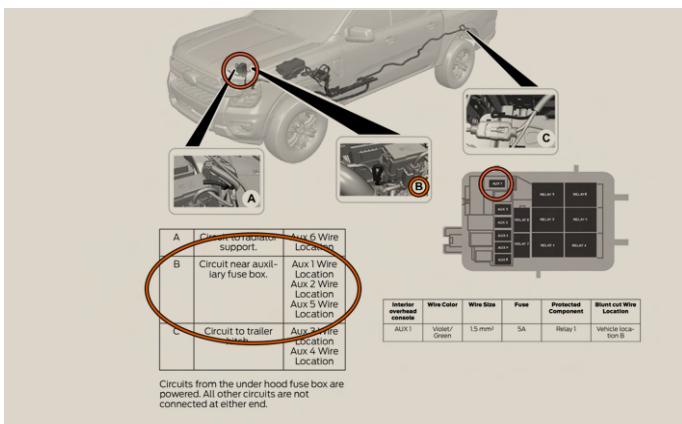
**38 A/B.** Use a 5/16" socket to assemble the fuse holder and fuse block terminal bracket as shown. Install fuse cover.



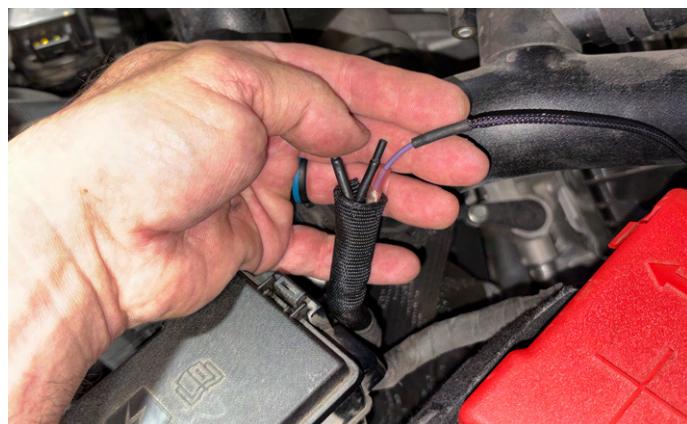
**39 A/B.** Install the battery cable assembly to the empty battery fuse box using the supplied M6 flange nut. Use a 10mm socket to fully tighten nut. Torque to 4 ft/lbs.



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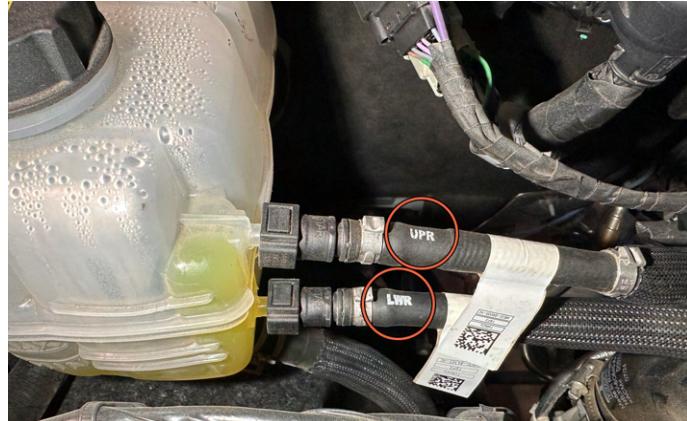
**40.** Locate factory Bundle B of the Auxiliary Circuits positioned next to the fuse block.



**41.** Find the Violet/Green wire. Cut the end cover off wire and then use wire stripper pliers to strip wire back approximately  $\frac{1}{4}$ ". Use wire crimpers to install the Auxiliary Switch Wire terminal to the Violet/Green wire. Use a heat gun or small torch on the terminal shrink tube.



**42.** Re-install the coolant tank using the factory hardware.



**43.** Re-install the coolant lines. Note that the coolant lines are labeled upper and lower.



**44.** Turn on the ignition and flip on AUX 1 switch. The compressor will turn on for approximately 3 seconds until it pressurizes the airline. Check compressor, air coupler, and braided airline for leaks. Tighten fittings if necessary. Re-install kicker panel and door sill.





Interior



Exterior



Suspension



Air Locker & Drivetrain



Steering & Brakes



Air Compressors



Armor & Protection



Bumpers



Lighting



Wheels & Tires



Storage & Racks



Water & Fuel Tanks



Winches & Recovery



Replacement Parts & Accessories



Electrical



Tools



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