Airifix Mini Cooper S/JCW R56 N14 Air Filter Relocation Kit

Installation guide

Compatible With:

- MINI Cooper S R56 (2007–2013)
- Non-MAF turbo setups
- Optimized for track or high-performance builds

Kit Contents

- Silicone intake hose (blue,black, yellow,red)
- High-flow Airifix performance filter
- Custom airbox/heat shield
- Coolant & breather hoses
- Expansion tank relocation bracket
- Stainless clamps and fixings

SAFETY & PRE-INSTALLATION NOTES

- Ensure engine is completely cool before starting.
- Disconnect the negative battery terminal.
- Place protective covers over fenders.
- Have all tools ready and parts inventoried.
- This kit is designed for the MINI Cooper S R56 with the N14 engine.

WARNING: Installation must be performed by a competent individual or technician. Failure to follow instructions may result in engine damage.

Tools Required

- 10mm sockets
- Torx set 20t
- Flat screwdriver
- 3.5mm drill bit
- Coolant jug
- Zip ties

Installation Steps

1. **Let the engine cool, disconnect the battery, and drain some coolant if needed.**
2. **Remove the airbox, coolant tank, vent tubing, and OEM intake scoop. (The scoop must be removed, or it will contact the new filter.)**
3. **Position and mount the expansion tank relocation bracket**
4. **Fit the coolant hoses and crankcase vent hose. Zip-tie and clamp securely.**
5. **Install the rubber adapter to the turbo with logo facing up. Lightly tighten clamps.**
6. **Mount the heat shield and align it 8**
7. **Attach the Airifix filter with a clamp.**
8. **Top up coolant and bleed the system according to the OEM workshop manual.**

Notes & Maintenance

- Optional: Add oil catch can control residue. We Sell it separately
- ECU remap recommended to maximize intake performance.
- Kit designed for track/off-road use in some regions — check local laws.

Support & Branding

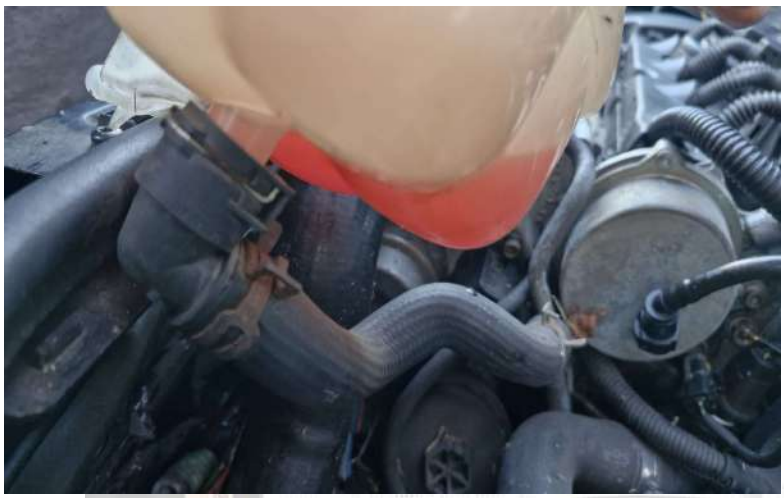
Airifix
Website: https://airifix3dparts.co.uk/product/airifix-mini-cooper-s-jcw-r56-n14-cold-air-intake/?v=7885444af42e
Email: sales@airifix3dparts.co.uk
Instagram: @project_airifix

🔧 Visual Installation Guide (Step-by-Step Photos)

STEP 1

🛠️ ***Technical Note :Undo the Torx T20 or 10mm bolt securing the coolant expansion tank.***

Step 2



🛠️ ***Technical Note: Remove the lower coolant hose from the expansion tank to fully release the unit for removal. Be prepared for some coolant spillage during this step. Use pliers to carefully release the hose clamp, then gently work the hose free—do not apply excessive force, as the plastic nipples on the tank can be brittle and prone to cracking. Take your time to ensure safe and clean removal without damaging any components.***

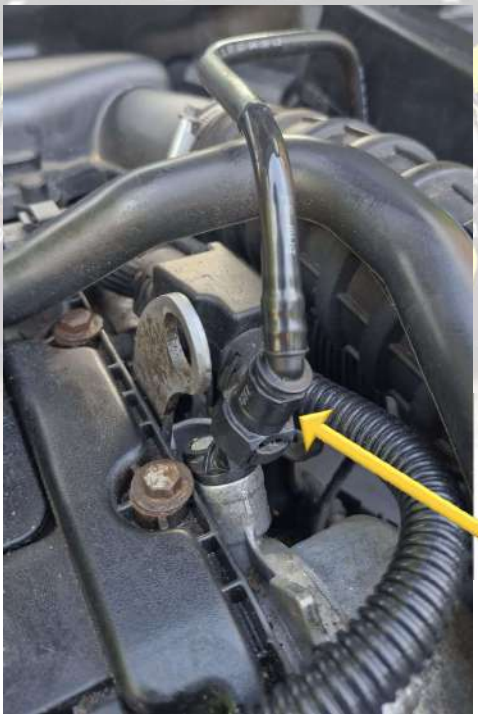
Step 3

🛠️ ***Technical Note: Remove the oem intake scoop. squeeze to detach — this is essential as it can interfere with the new filter.***

Step 4

🔧 ***Technical Note: Detach the PCV hose from the valve cover. It simply pulls off gently.***

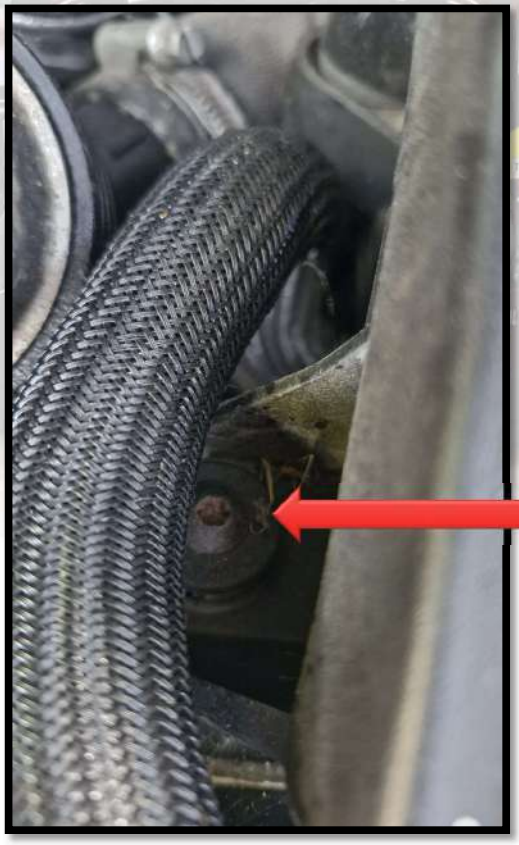
Step 5



Technical Note: Take care removing this vacuum line — it's fragile and prone to cracking.

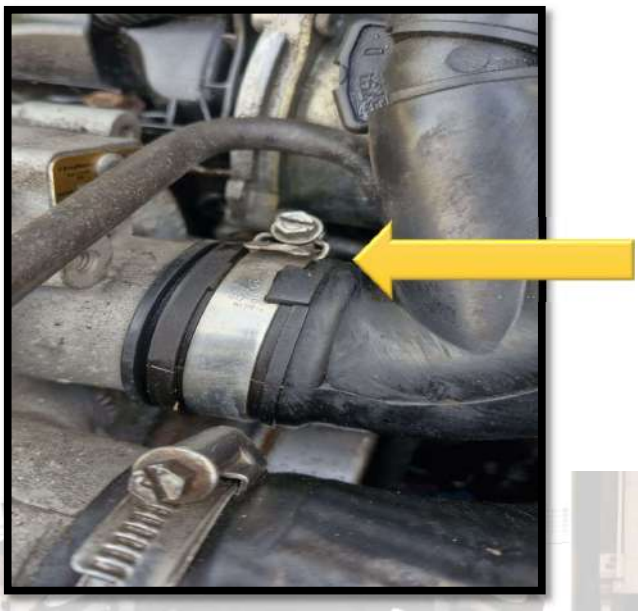
🛠️ ***Technical Note: Stock intake system fully removed. you should now have a clear engine bay for the Airifix Relocation kit.***

Step 6



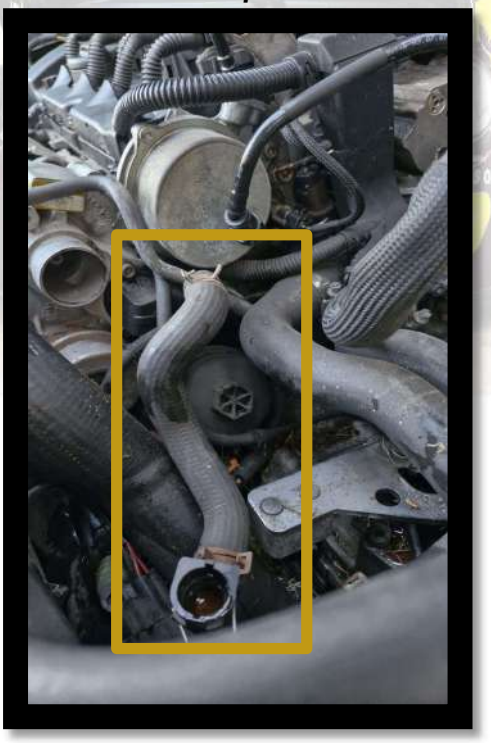
🛠️ ***Technical Note Remove the Torx T20 bolt securing the OEM airbox to the intake manifold. This is the sole fixed mounting point of the factory intake system, and once removed, the airbox can be lifted free. Retain the bolt in case it is needed for future reinstallation.***

Step 7



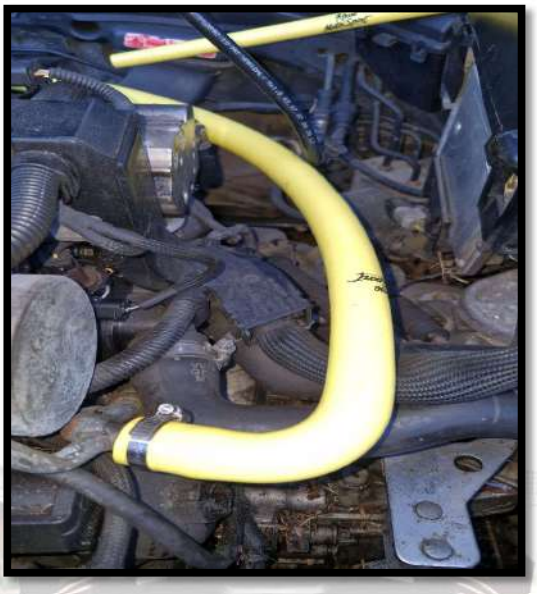
🛠️ ***Technical Note: Loosen the clamp that secures the intake hose to the turbo inlet. this is where the Airifix Reducer adapter will go.***

Step 8



🛠️ ***Technical Note Completely remove both hoses connected to the OEM coolant expansion tank. Retain the 90-degree plastic elbow fitting from the tank, as it will be reused to connect the new coolant hoses to the replacement system. Ensure the fitting is clean and undamaged before reinstallation.***

Step 9



🛠️ ***Technical Note: Install the new coolant hose that relocates the expansion tank.***

Step 10

🛠️ ***Technical Note: Reconnect the supplied high-quality coolant hoses to the new expansion tank as illustrated. Secure each connection using the provided stainless steel jubilee clamps. Tighten the clamps firmly but avoid over-tightening, as this may damage the hose or fittings. Ensure all connections are seated fully and leak-free.***

Step 11

🛠️ ***Technical Note: Secure the Airifix coolant bracket using the three supplied self-tapping screws. The mounting location shown is a recommended reference point, but the bracket can be positioned lower if required. The provided hose length allows flexibility for various configurations, including setups incorporating an oil catch can or other custom components. Ensure the bracket is mounted to a stable surface and that hose routing remains free of kinks or interference***

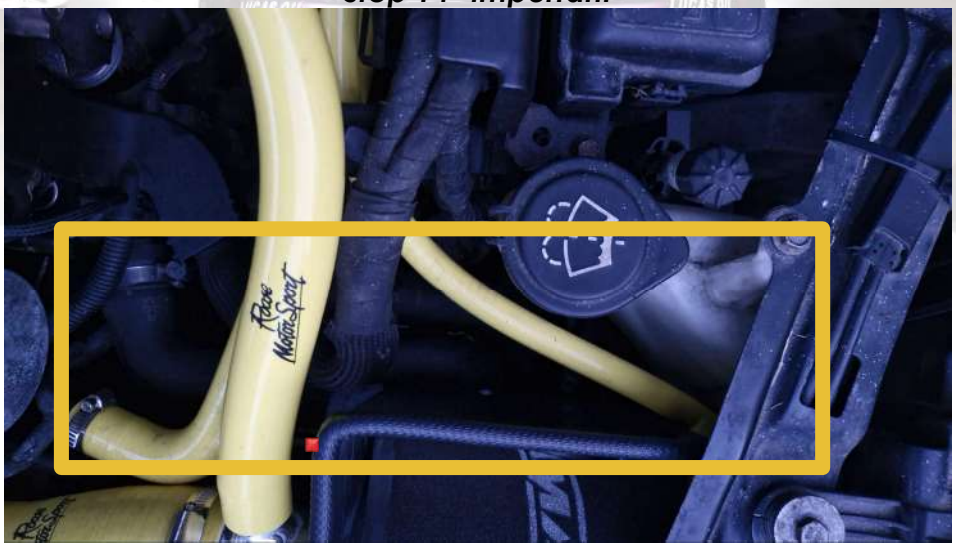
Step 12

🛠️ ***Technical Note: Install the filter, adapters, and reducer hose as a complete pre-assembled unit. This assembly should fit as one piece, allowing you to position and align it in accordance with the reference photos provided. Once in place, make any minor adjustments to ensure proper orientation and secure fitment without strain on any components.***

Step 13

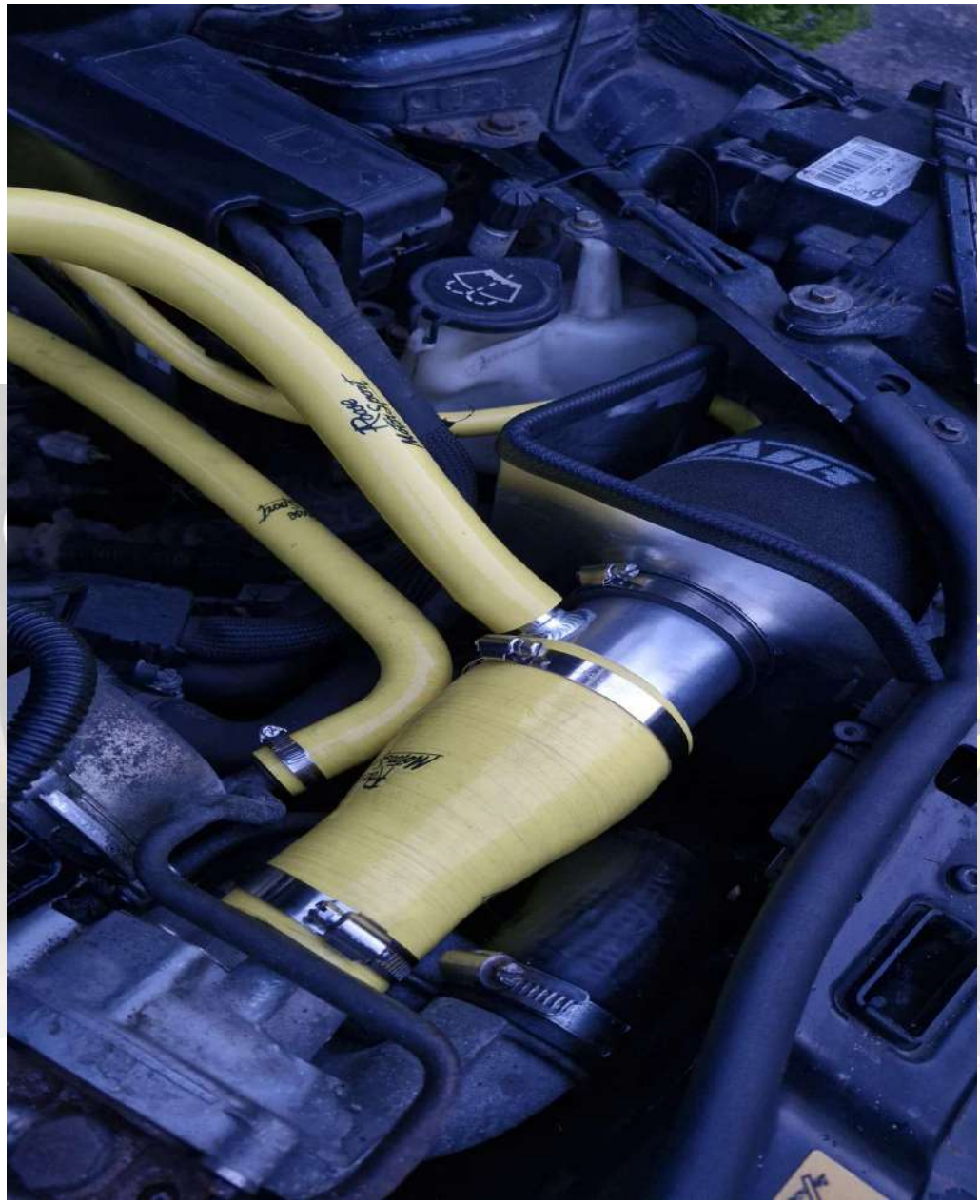
Technical Note: Reconnect the PCV hose to the breather nipple on the intake filter. If necessary, trim the hose to achieve a clean and secure fit. The supplied hose length is intentionally generous to accommodate setups involving optional oil catch cans.

Step 14 Important*



Technical Note: Check the position of the coolant hoses — they should sit high and be routed behind the airbox partly. If clearance is limited, the 2 hoses can be carefully rotated upward to improve fitment.

Final step: with the engine off, shift through all gears to check for any interference. adjust hoses if needed.



🛠 Troubleshooting & Tips

Coolant Hose Clearance Issue

If hoses are rubbing or interfering with gear movement, re-route them behind the airbox and ensure the bracket is fully seated.

Intake Rubbing on Bonnet

Make sure the air filter is properly seated and angled down slightly. Re-tighten the heatshield bolts and double-check the silicone reducer position.

Air Leak or Hissing Noise

Inspect all hose clamps for tightness. Ensure the reducer hose is properly installed and the PCV is fully seated.

Coolant Tank Wobble

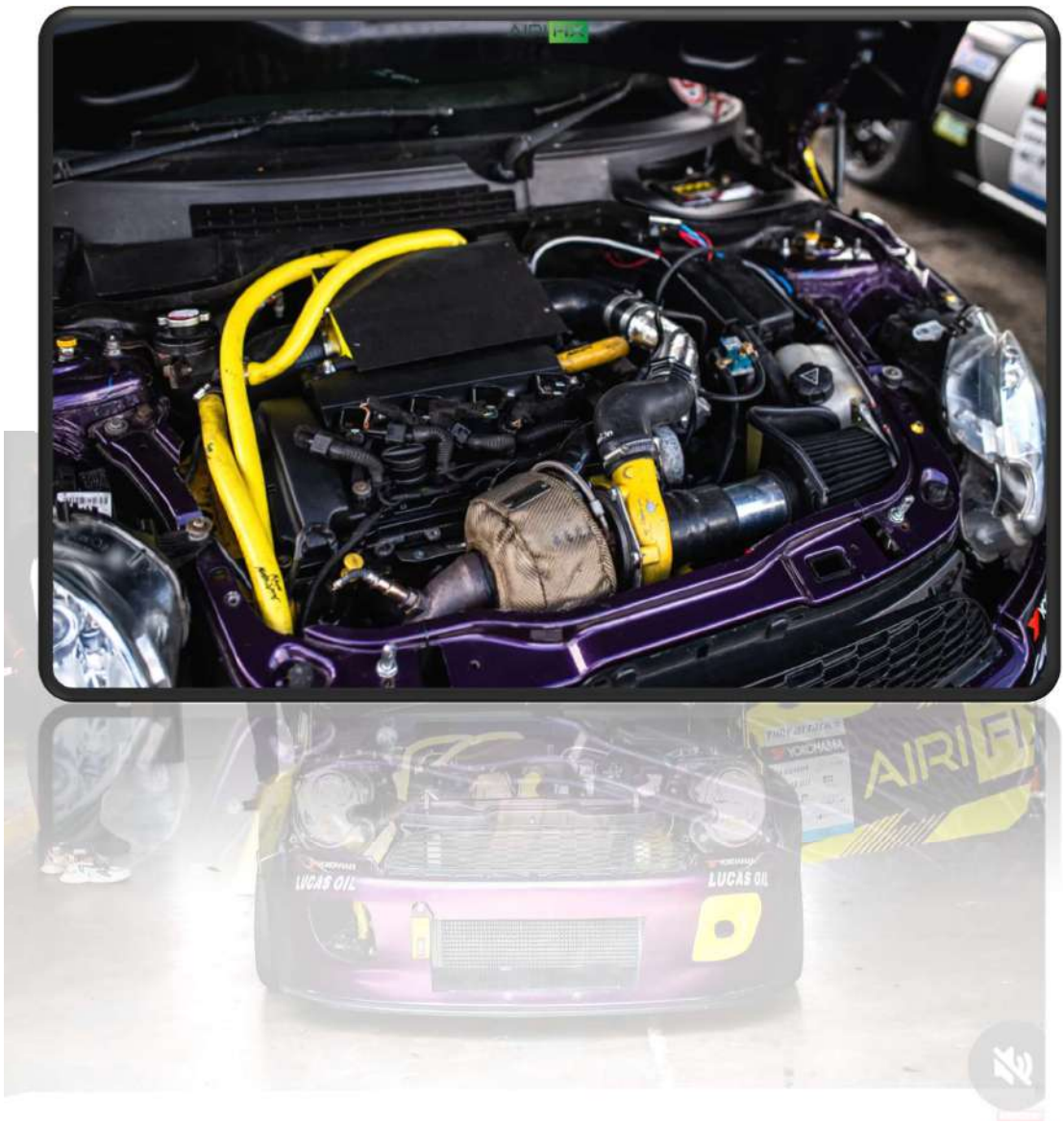
Re-check the position of the relocation bracket and make sure all self-tapping screws are biting into solid plastic. You can position the coolant tank lower the photos are only for demonstration.

Gears Not Engaging Smoothly

If shifting feels stiff, check that no hoses or the filter are interfering with the gear linkage path. Adjust hose positions as needed.

Before and After Comparison

Before Installation After Installation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