Mini F56 JCW Airtec intercooler fitting instructions.

Tools required:

T30 Torx
T20 torx
8mm socket
Selection of extension bars & ratchet
Trim removal tool
Selection of screw drivers
Jubilee clip driver

Fitting kit:

2x M6 X 20 socket heads (Intercooler to radiator)
2x M6 Pan washers (Intercooler to radiator)
2x M8 16 socket head (Lower cradle to intercooler)
2x M8 X 30 mudguard washers (Lower cradle to intercooler)

1. **Jack up car, remove under tray 15x 8mm bolts**

2. **Remove 2 plastic push clips securing lower inner arch to bumper and 1x 8mm bolt securing inner arch to bumper.**

3. **Pull plastic arches away from bumper.**

   (Will require a firm pull, please be careful of plastic tabs behind arch)

4. **Unbolt T30 torx hidden between arch extension and bumper**

5. **Remove 3x T30 torx holding top of bumper to slam panel.**

6. **Remove plastic speed clip fittings holding brake cooling ducts and inner arch to bumper**

7. **Remove bumper making sure to unplug any necessary looms and remove bumper (2 people required if possible)**

8. **Remove 3x E8 torx bolts securing lower cross member to chassis**

9. **Remove the front lower cross member.**

10. Unclip bottom of standard intercooler

11. Drill out four rivet from the lower rear alloy cross member and remove.

12. Undo t30 from each side of the standard intercooler securing to radiator and remove intercooler.

13. Using small screw driver hold up both sides of the rad pack

14. Remove standard plastic air guides to rad pack 2x T30

15. Secure intercooler to lower cross member using supplied M8 socket head bolts and washers.

16. Lift intercooler into place and loosely bolt lower cross member into place making sure fan surround is located into intercooler locating tabs

17. Bolt intercooler to radiator housing with supplied M6 bolts and washers then clip boost pipes to cooler

18. **Cable tie plastic water pipe to securing clip – Just for that added security to prevent rubbing.**

19. **Once happy with fitment and clearance tighten all bolts and refit bumper in reverse order.**