

## **Astra VXR Intercooler Mounting Instructions.**

Remove front bumper, grille and headlamps

Remove front fan mounted to air condenser radiator

Undo condenser mounting bolts, support condenser radiator (cable ties can help here)

Remove the original equipment intercooler

Drain the water from the radiator through the drain plug on the L/H bottom corner of the radiator (as you view from the front).

Shorten the bottom water hose as illustration Picture 1

Turn the bottom radiator rubber mounts 180 degrees in black steel mountings. Picture 2

Refit the condenser radiator attaching this to the water radiator with the new brackets supplied Pictures 3 and 4

Drill an 8mm hole in bottom L/H corner of condenser radiator as indicated in Picture 5 (as you view from the front)

Check A/C condenser and air con pipes for clearance making sure you have no contact and or rubbing etc. Picture 6

Remove the resistor unit from the previously removed original front fan (you can de-solder the original wires from the resistor unit and re-solder in the new ones or just cut and re joiner wire to the new fan).

**New Spal Fan:** Remove plastic 2 pin connection on supplied fan, noting +ve (Blue) and -ve (Black) wires. Remove OE connections on resistor noting Red +ve and Brown -ve locations. Connect up new fan wires to OE heatsink using solder connections ensuring correct polarity is observed. Blue now goes to where Red was, Black to where Brown was. Mount OE heatsink onto new fan bracket. Mount relays onto fan bracket when in situ.

Fit the new AC front fan complete with alloy mounting cowl to the condenser radiator. Picture 7

Picture 8 – Turn horn out of way. Ensure clearance. Picture 9 – Inlet Side Hose, Ensure clearance.

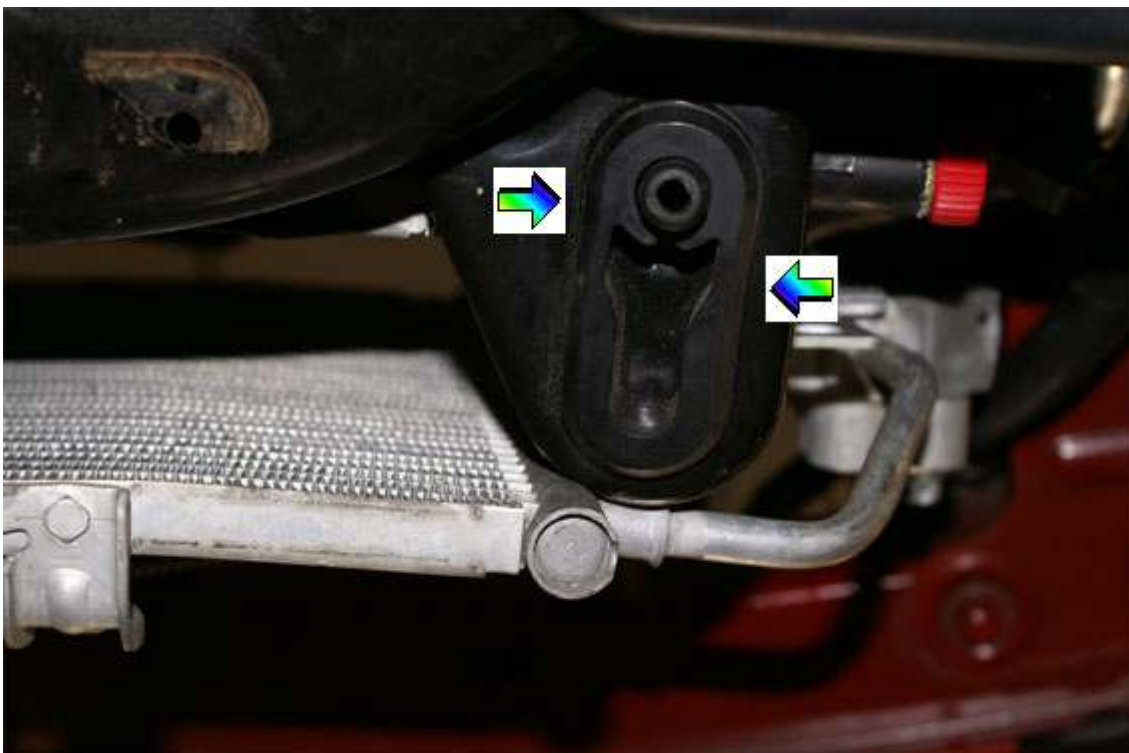
Fit black intercooler mounting plates to the front panel as Picture 10 & 11

Install the intercooler noting the rubber mount positions Picture 12 and join with the new hoses supplied, Picture's 13, 14 and 15. Please note some water radiators have high flanges and can sometime need to be cut down for clearance of silicone boost pipe see Picture 16

Once installed check for clearance around the intercooler and A/C unit and adjust as required. Check fan operation. Refit headlamps, bumper and grill.



Picture 1 - Cut this small amount (shown top) from the end of the coolant inlet pipe onto the radiator.



Picture 2 - Turn bottom rubber mounts (one shown) round through 180 degrees from original mounting position.



Picture 3 - Location on LHS (From Front).



Picture 4 - Location Bracket RHS (From Front) Showing pickup point onto radiator.



Picture 5 - Drill 8mm hole where indicated in picture.



Picture 6 - Aircon Valve Clearance - Check.

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Picture 7 – Fan located on new bracket onto A/C condenser.



Picture 8 - Horn Location – Turn out of Way

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Picture 9 – Hose Inlet Side – Note Horn Location from Before



Picture 10 - Locating Bracket. One Each Side.

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Picture 11 - Locating Bracket. One Each Side. Note bolt orientation



Picture 12 – Note positioning of rubber intercooler mounts.



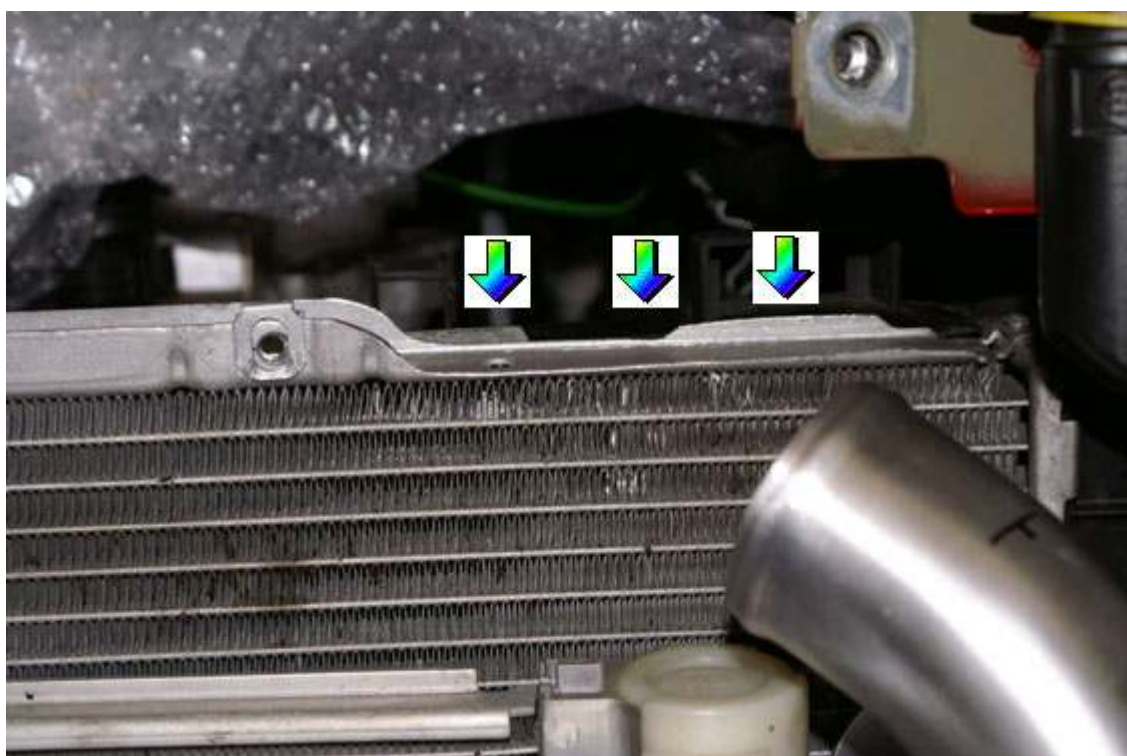
Picture 13 – Hose Locations



Picture 14 – Hose Locations



Picture 15 – Hose Locations



Picture 16 - Reshape top of radiator for clearance where indicated, only if required.