



## Audi S3 Front Mounted Intercooler



### Tools used...

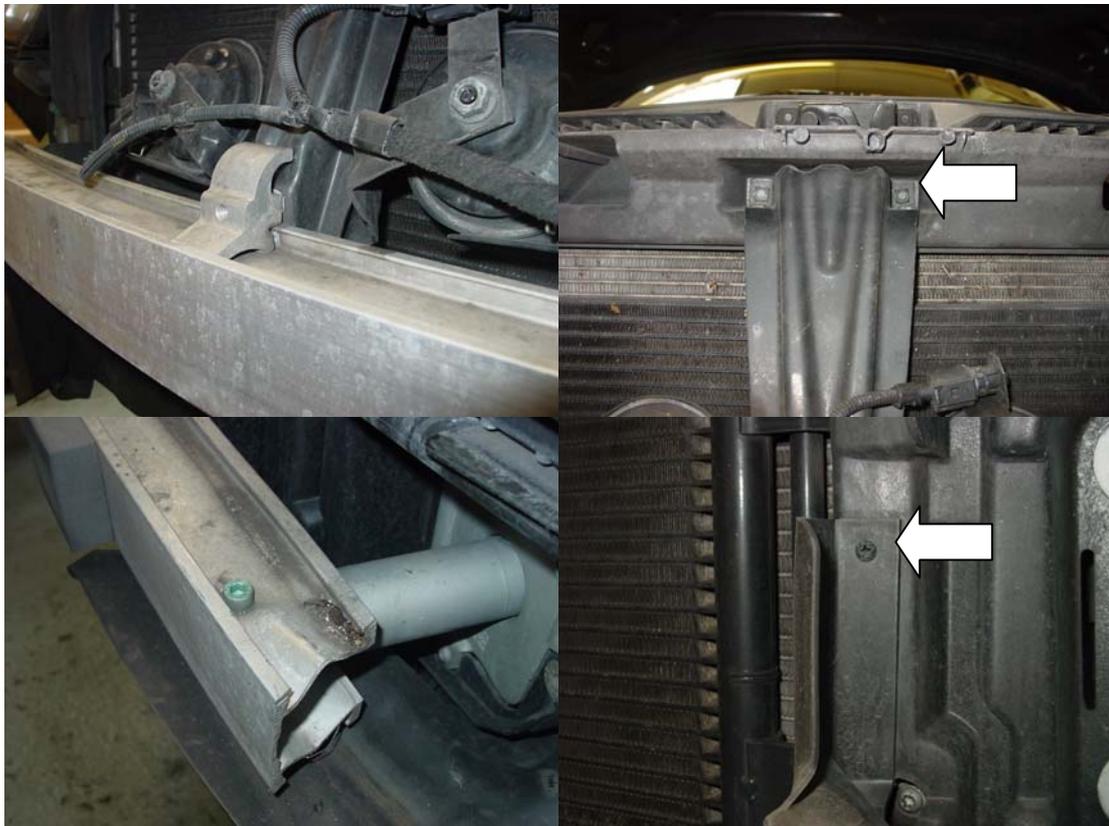
Vehicle Ramp or Jack and axle stands, T20/T25 Torx driver, small Hose clamp, 13mm spanner, 6mm Allen key, possidrive screwdriver, Hammer and small punch, 10mm spanner.

Safety footwear, overalls and safety glasses are also recommended.

1/ Raise and secure the vehicle on a vehicle ramp or via a suitable jack and axle stands. Open bonnet. Remove the 2 upper headlight to bonnet seals. Remove the T20 torx screws from the wheelarch liner as pictured below (5 screws in each wheelarch). Remove the 2 possidrive screws from the underside of the front bumper. Remove the complete undertray which is secured with 6x T20 screws. Remove the 4x plastic clips on the upper slam panel, this is done by punching through the centres and then lifting up the outer part of the clip, the centres may fall through on to the floor when punched through so be careful to locate and keep for later refitting. Clamp off the headlight washer pipe on the right side of the inner bumper and remove the single securing clip to disconnect the washer pipe connection. Disconnect the 2 fog light electrical connections. See pictures overleaf. The bumper can now be removed.



2/ Remove the 13mm nut from the rear of the horn mounting bracket. Remove the 2 lower bonnet catch T30 screws and the 10mm bolt on top of the centre brace bar. Lift out the brace bar and the horns with brackets attached. Unclip the horn wiring from the crash bar and move all this to one side for now. Refit the lower bonnet catch T30 screws and use the supplied m6 nyloc nuts and penny washers and not the brace bar. This bar is not refitted in order to make space for the new intercooler later. Unbolt the 13mm hex head and the 6mm cap screws from the crash bar and remove this from the vehicle. Remove the 2 side cover/air deflectors from each side. There will be one possidrive screw fixing each plastic deflector.



3/ Remove the 2x cowlings from the stock intercoolers. Remove the front indicators by turning the locator screw through 90 degrees, the indicator will then slide forward.

Remove both headlights by removing the 3x T30 screws in each. Disconnect the wiring connectors to the headlamp before lifting out of the vehicle. Loosen the hose clips on the tops of both standard intercoolers. Loosen the hose clips on the lower pipes to each intercooler. (Note, the standard steel tube that links the 2 intercoolers will remain in place but no longer be used once the new updated intercooler is fitted). Remove the 10mm bolts from each intercooler and remove each intercooler and the subsequent joining hoses.



4/ Fit the new intercooler to the new crash bar as supplied using the m6x20 bolts, m6 nuts and penny washers as supplied. Now fit the new crash bar and intercooler assembly to the vehicle using the original bolts nuts and bolts.



5/ Refit the left side upper rubber hose to the plastic pipe behind the headlight. Remove the left hand intercooler bracket (2x 10mm nuts); this part is not refitted later. Swap one horn from its end slot on the bracket to the centre slot as pictured below. Fit the bracket to the chassis on the left hand front (in the space vacated by the standard intercooler) using an existing 10mm nut. Loosen the 13mm horn nuts and rotate the horns so they face downwards to prevent water ingress, now retighten the 13mm horn nuts.



6/ Now fit the 75mm aluminium hose joiners to the upper hoses behind the headlamps on both sides. Fit the 60mm to 51mm reducer silicone hose to this aluminium joiner. Fit the fabricated aluminium pipe to this hose and then use the remaining 51mm 90 degree silicone hose to join to the intercooler. Repeat these steps for both sides of the vehicle. Secure all these connections with the hose clamps supplied. Your installation should look like the picture below.



7/ Now refit your bumper as a reverse of step 1. Remember to connect the fog light connectors and also unclamp and connect the headlight washer pipe.

It may also be advisable to have your headlamp aim re-checked by your local Audi dealer or independent garage.

You can now enjoy the improved performance of your Audi S3.



**Engineered for Performance.**