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TECHNICAL BULETIN TECH076 REVISION C
FULL DISTRIBUTION

Important information for replacing Two Stage Series Turbos as used on Renault R9M Gen2 1.6 litre Euro 5 & Euro 6b engines for Trafic / Vivaro / NV300 vehicles.

LP turbos 821942- 5007S, -5009S, -5010S & -5011S to new turbo 883861-5002S

HP turbos 821943-5002S replaced by 821943-5003S

Garrett
 ADVANCING MOTION

Dear Customer,

Please see the enclosed important installation instructions for replacing HP and LP turbos as used on the Renault 1.6 litre Euro 5 & 6b engines.

During the production life of these turbos, the material used for the turbine housing of the LP turbo changed. At the same time, the material of the mounting studs fitted in the HP turbo changed.

**When installing replacement turbos, it is critical that the correct studs are fitted.
If the wrong combination of stud material and turbine housing material is used, there is a high risk
of the joint between the turbos loosening with consequent exhaust gas leakage.**

The enclosed instructions detail how to select and install the correct studs according to which turbos are being changed.

A new Stud and Gasket Kit, part number 887588-0001 is open for IAM sales and you will need to stock these kits to sell alongside these turbos as required.

We strongly advise that a copy of these guidelines should be passed to every customer purchasing these turbos from you.

Please distribute this information to all in your company who may need it.

Best Regards

IAM Technical support Specialist team.



IMPORTANT REPLACEMENT INFORMATION FOR HP AND LP TURBOS

LP turbos

Change 1: (initial change)

821942- 5007s, -5009S, -5010S were all replaced by -5011S with turbine housing material.

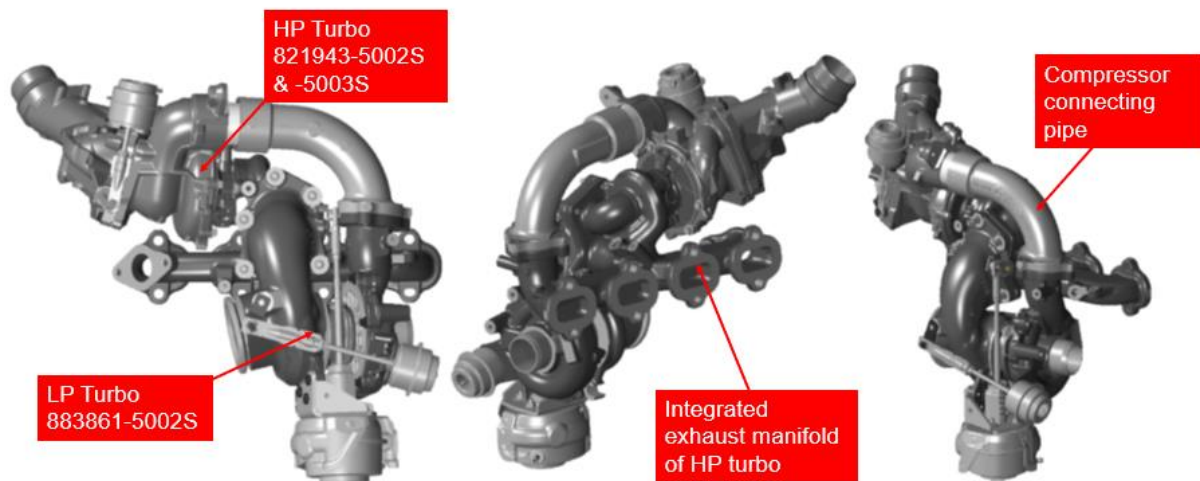
Change 2:

Now all 821942- 5007s, -5009S, -5010S, 5011S are replaced by 883861-5002S. (This is a minor change).

HP turbos

821943-5002S has been replaced by 821943-5003S.

For Renault Two Stage Series Turbos - Turbocharger identification.



Summary of changes to 821942-0011

- The turbine housing material of the LP turbocharger changed.
- At the same time the connecting studs of the HP turbo changed due to the different expansion rate of the LP housing new material.

It is vitally important to ensure that the correct HP turbo studs are used when installing a new LP turbo. Failure to do this will lead to loosening of the joint between the two turbos, with consequent exhaust gas leakage and the potential for turbo and vehicle damage and also fire.

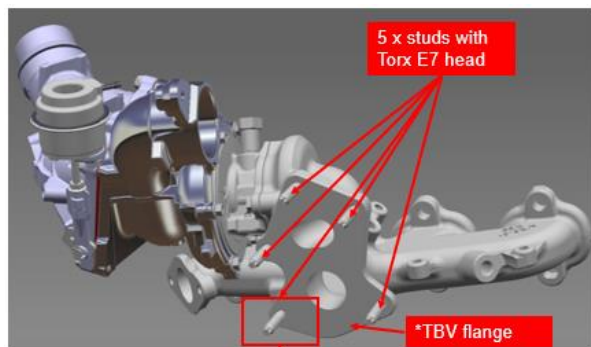
A new Gasket & Stud Kit, part number 901027-0001 is available to ensure that you use the correct studs

Page 4 shows the correct replacement procedure



Configuration of HP Turbos with manifold:

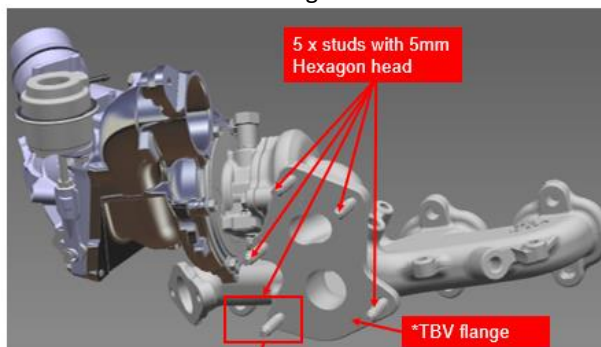
821943-5002S with Torx E7 studs



Old obsolete HP Turbo
821943-5002S



821943-5003S with Hexagon head studs



New HP Turbo 821943-5003S

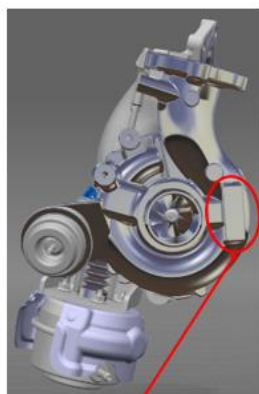


*TBV = Turbine Bypass Valve

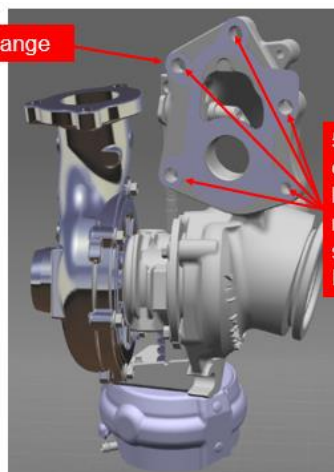
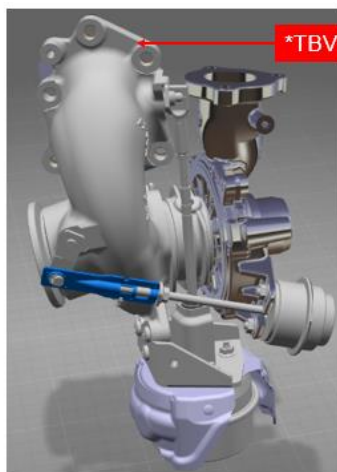
Configuration of LP Turbos:

821942- 5007S, -5009S, -5010S with old turbine housing material

821942-5011S & 883861-5002S with new turbine housing material



Note: all LP turbos look the same, so check part number from nameplate on compressor housing or check casting marks as shown on next page



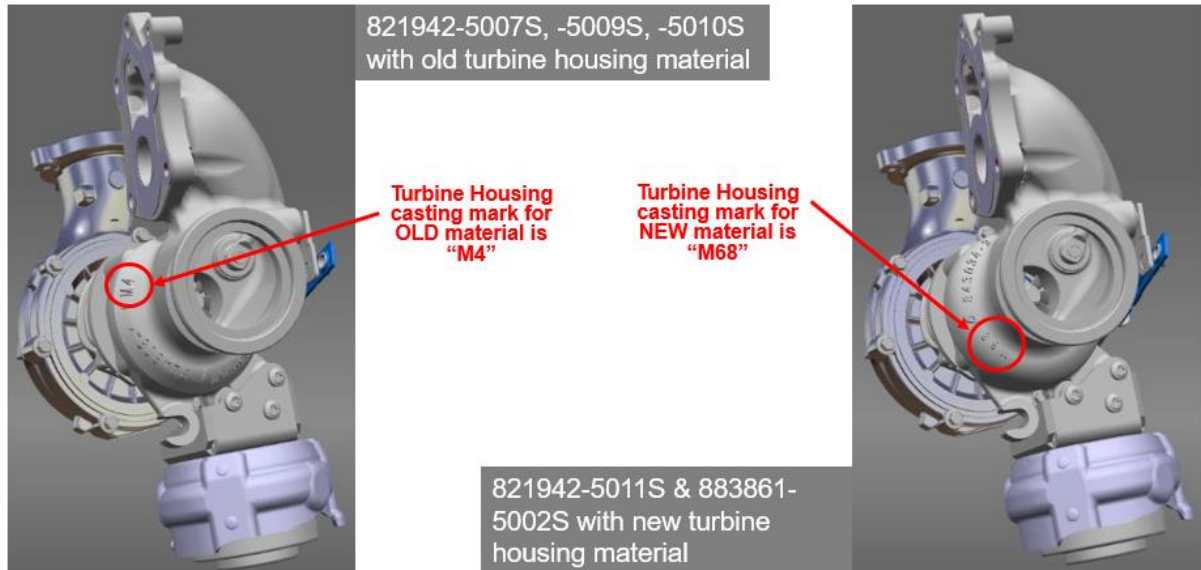
*TBV = Turbine Bypass Valve



Identification of LP Turbos:

Left: 821942- 5007S, -5009S, -5010S with old turbine housing material.

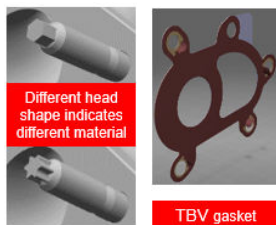
Right: 821942- 5011S & 883861-5002S with new turbine housing material.



IMPORTANT REPLACEMENT INFORMATION FOR HP AND LP TURBOS

Please read the options below to decide how you must progress:

To replace both old turbos:	REMOVE OLD HP 821943-5002S	AND	REMOVE OLD LP 821942-5007S, -5009S, -5010S	Notes: New HP turbos include correct studs New LP turbos include new TBV gasket
	INSTALL NEW HP 821943-5003S	AND	INSTALL NEW LP 883861-5002S Includes new TBV gasket	
To replace only the old LP turbo:	KEEP OLD HP		REMOVE OLD LP 821942-5007S, -5009S, -5010S	Notes: Remove the 5 x Torx headed studs in the flange of the old HP turbo and replace them with the 5 x Hexagon head studs from the Stud and Gasket Kit before fitting the new LP turbo. Tighten studs to 12.0 – 17.0 Nm.
	821943-5002S		INSTALL NEW LP 883861-5002S Includes new TBV gasket	
To replace only the old HP turbo:	REMOVE OLD HP		KEEP OLD LP	Notes: Remove the 5 x Hexagon headed studs in the flange from the new HP turbo and replace them with the 5 x Torx E7 head studs from the Stud and Gasket Kit before fitting the new HP turbo. Tighten studs to 12.0 – 17.0 Nm. Use new TBV gasket from kit.
	821943-5002S INSTALL NEW HP 821943-5003S		821942-5007S, -5009S, -5010S	



Note: A new Gasket and Stud Kit, part number 901027-0001 is available to purchase separately.

This includes: 5 x Studs with Torx E7 head + 5 x Studs with Hexagon head 5mm across flats + 1 x TBV gasket

Do not use non-standard or incorrect studs on these installations for safety reasons. This would also void warranty.

