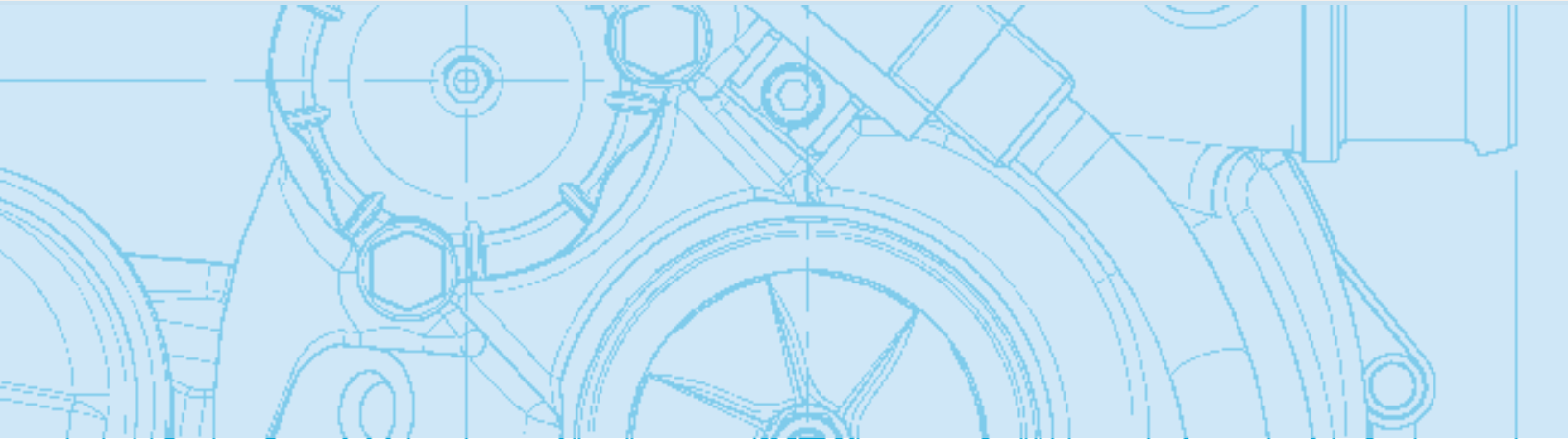
Aftermarket
Service Bulletin

BORGWARNER



Bulletin Number**: S-02-25**

Date: **02/07/2025**

CAT S510C Turbine Housing Interface Revisions

The latest revisions of CAT S510C turbo assemblies include the use of a wider and stronger turbine-end v-band. The larger locknut is tightened to a higher value and subject to the process below. This process applies **only** to v-band part number 5900 109 5297. Previous versions which use v-band part number 5900 109 5275 have no change of torque value or process.

The updated v-band **is not backward compatible** unless modifications are made to the turbine housing, or a revised turbine housing is used. It is recommended to contact your BorgWarner Technical Service Department for information regarding any modification to the turbine housing.

A further revision has been made involving the addition of a shim between the v-flange faces of the turbine and bearing housing. This shim **is backward compatible with all CAT S510C models.** See Fig. 1 on the following page for a visual representation of the shim fitment.

The table below shows the turbocharger, clamp and shim part numbers and relevant data.

The following page contains the installation procedure **for the updated v-band only**.

BW TURBO	BW SHIM	OE SHIM	BW CLAMP	T-BOLT	SPEC
1500 970/988 0017	5900 159 0412	612-6824	5900 109 5275	1/4"-28	10.17Nm
1500 970/988 0018	5900 159 0412	612-6824	5900 109 5275	1/4"-28	10.17Nm
1510 970/988 0032	5900 159 0412	612-6824	5900 109 5297	5/16"-24	SEE NOTES
1510 970/988 0033	5900 159 0412	612-6824	5900 109 5297	5/16"-24	SEE NOTES
1510 970/988 0038	5900 159 0412	612-6824	5900 109 5297	5/16"-24	SEE NOTES
1510 970/988 0039	5900 159 0412	612-6824	5900 109 5297	5/16"-24	SEE NOTES

All numbers, names and descriptions herein are used for reference purpose only and do not imply that they are the product of the original manufacturer.

Bulletin Number**: S-02-25**

Date 02/07/2025

BORGWARNER

BorgWarner Emissions, Thermal and Turbo Systems

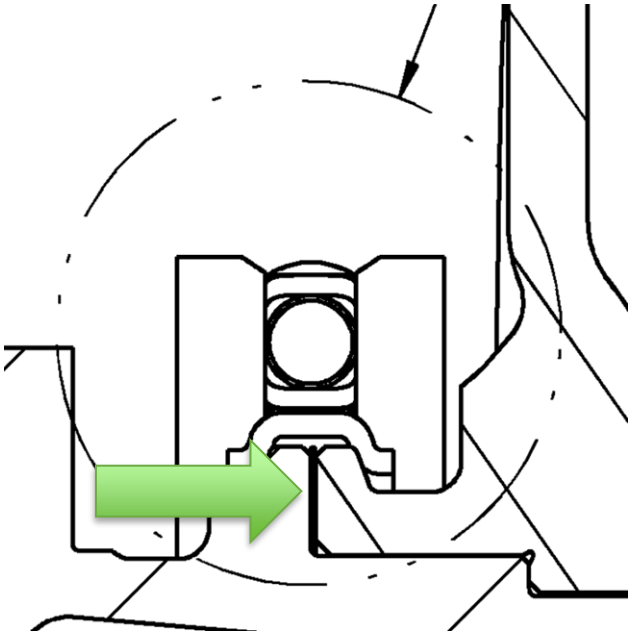
CAT S510C Turbine Housing V-band Torque Procedure

1. Install the turbine housing v-band clamp, ensuring clearance with both housings.
2. Tighten the v-band locknut to 20Nm (15lb/ft).
3. Tap around the outside face of the v-band clamp with a soft-faced hammer
4. Tighten the v-band locknut to 30 +/- Nm (22 +/- lb/ft).
5. Tap around the outside face of the v-band clamp with a soft-faced hammer.
6. Tighten the v-band locknut again to 30 +/- Nm (22 +/- lb/ft).

Do not retighten after the engine has been run.

Please contact your BorgWarner Technical Service Department if you require additional information regarding this bulletin.

Fig. 1



All numbers, names and descriptions herein are used for reference purpose only and do not imply that they are the product of the original manufacturer.