

Date: 14.12.09

RM 43, RM 43 C, VM 43, VM 43 C:

Expansion joint guide tube

In order to prevent potential damage to the charge air cooler, we recommend that your operating personnel remove the inner guide tube of the expansion joints between exhaust turbocharger and charge air cooler (see figure1). Expansion joints without internal guide tubes have become series standard on our M43C engines. Spare part expansion joints for M43 engines do not have internal guide tubes either.

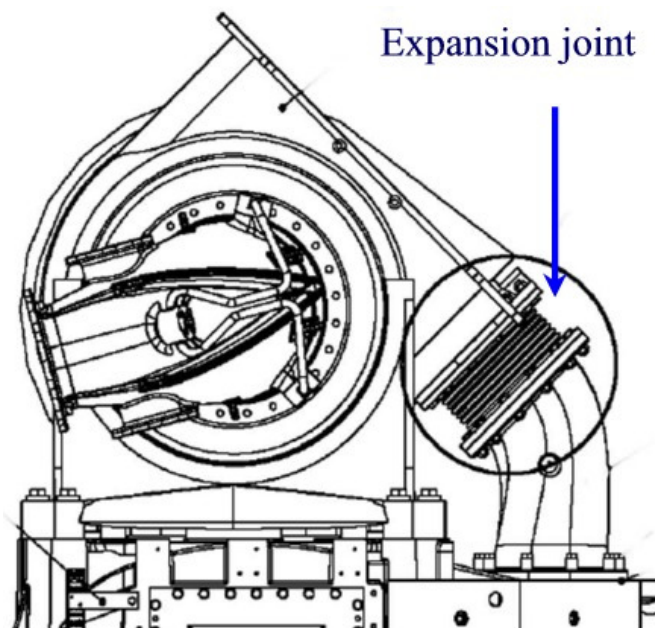


Figure 1

In order to remove the guide tube, please dismantle the expansion joint during an engine downtime.





NOTE

In this context, please observe the degree of care that ordinarily applies to the dismantling of engine components.

Once the guide tube is removed a new gasket is required. This gasket should be made from high-temperature and pressure-resistant material (300°C; graphite with embedded wire) such as Novaform SK from manufacturer Frenzelit or similar gasket material for high temperature.

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If no gasket material is available at site the guide tube chamfer can be used for sealing. In this case the guide tube must be cut approx. 10 mm behind the chamfer (see figure 2 below). All burrs must be removed from the cutting area so that the remaining rim is smooth and free from any sharp edges. Insert the guide tube rim into the expansion joint and install it on the engine.

	 CAUTION
	<p>Risk of personal injuries, in particular to hands, face and eyes, due to sharp cutting edges, burrs and / or debris created by rotating cutting and grinding devices.</p> <p>Use your personal protective equipment such as safety glasses, working gloves and safety shoes.</p>

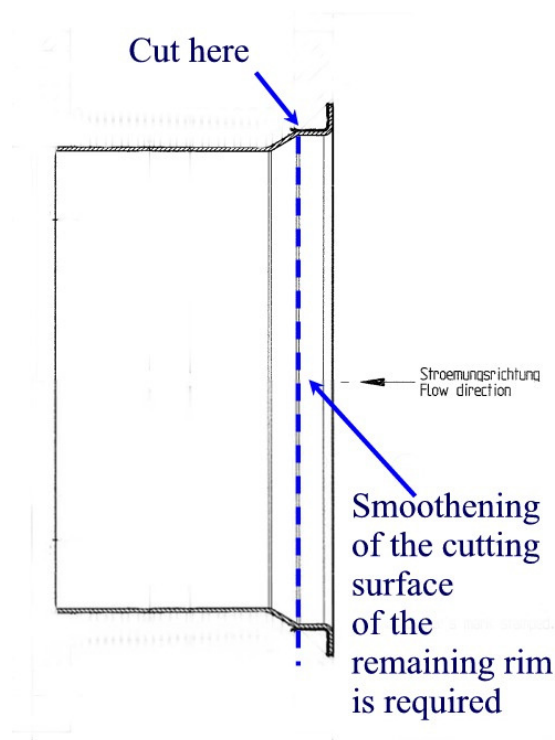


Figure 2

Please do not hesitate to contact your authorized Caterpillar dealer in case you have any further questions on the removal of the guide tube.