

# ENGINEERING BULLETIN

Ref Document No.	EB16006	Issue No.	1
Subject	Spring washers for driveline		
Release Date	19 <sup>th</sup> December 2016		

**Purpose** – Advise COALTRAM® owners/operators that spring washers should now be used on most COALTRAM® driveline connections.

**Applicability** – COALTRAM® CT08, CT10LP and CT10 models

## Background

COALTRAM®'s have historically not had spring washers installed on their driveline connections. They rely on Loctite and the bolt being installed to the correct tension to stop the connection from coming loose. Over the years since the introduction of the COALTRAM® there have been some instances of bolts working loose leading to driveshaft joints separating.

## Findings/Recommendations

After a couple of recent driveshaft joint separations PPK has reviewed the policy of not using spring washers on the driveline. History has shown that even though a properly tensioned bolted connection should not theoretically require an anti-vibration washer to remain tight, external factors exist that can cause the joint to loosen.

PPK has changed their view and now recommend installing spring washers as well as Loctite 243 on driveshaft connections on the COALTRAM®.

For in service COALTRAM®'s, PPK recommend continuing to follow the service sheets by checking the security of the drive line fasteners. At the next major scheduled service install spring washers on the driveshaft connections. The bolt length where spring washers are installed will be required to be ¼" longer than original.

Spring washers in the future should be fitted to all but the centre drive shaft in the articulation area that links the front and rear frames. The use of spring washers on this joint will most likely cause contact between the bolt heads and adjoining drive shafts when at full articulation. Loctite 243 should be applied to these bolts upon installation. There has been no history of this driveshaft separating.

Updated parts book pages are included with this bulletin that show where spring washers should be used.

A kit is available containing the required bolts and spring washers under part number 5520010394.

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