

ENGINEERING BULLETIN

Ref Document No.	EB15001	Issue No.	1
Subject	Hydraulic Return Hose in Articulation		
Release Date	9th January 2015		

Purpose – Advise COALTRAM® owner's potential areas of improvement

Applicability – All in service COALTRAM® models – CT10

Background

The hydraulic return hose from the front load frame has a tight path through the articulation which puts the hose under stress whenever the vehicle is steered through a tight radius.

PPK has investigated options to improve the hose path and fittings in order to minimise the stresses induced onto the hose which may cause the hose to fail or become loose on the fittings.

Investigations/Findings

The replacement of the existing 45° fitting from the articulation manifold block with a 90° fitting and 90° swivel along with altering the hose length has resulted in a design that minimises any stresses that can be induced in the hose reducing the likelihood of leakages or failures.



Figure 1: Existing Connection

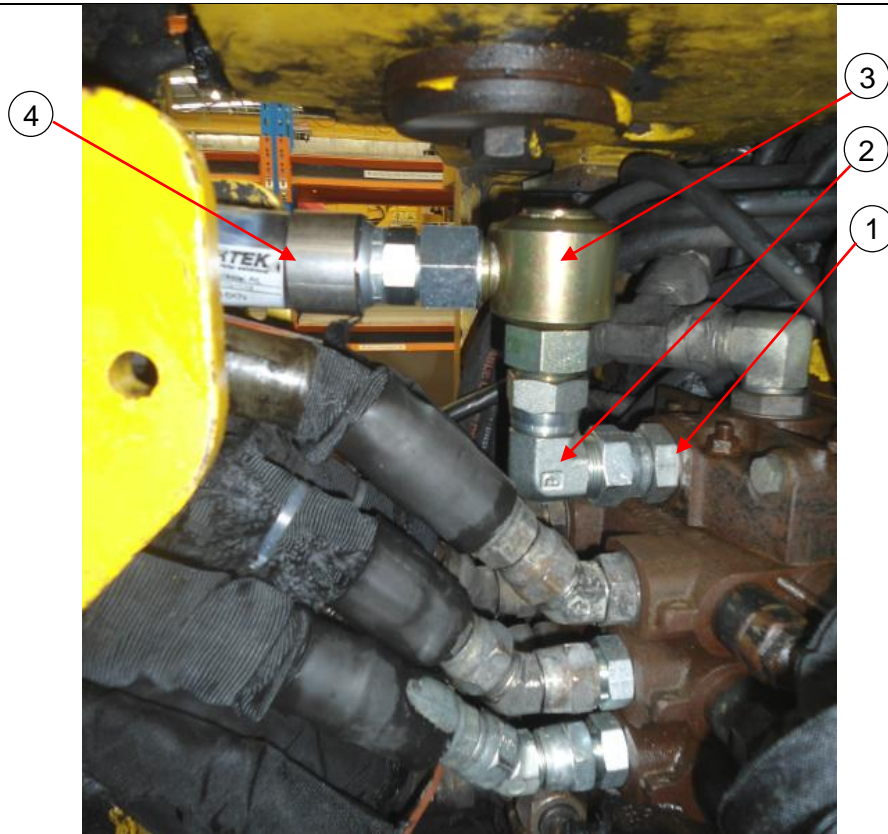


Figure 2: New Swivel Connection

Parts required for upgrade:

- 1 off 1 5/16" UNO x 1 5/16" JIC M/F – 5520 0095 26 (Item 1)
- 1 off 1 5/16" JIC 90° elbow – 3176 6039 00 (Item 2)
- 1 off 1 5/16" JIC swivel fitting – 5520 0095 24 (Item 3)
- 1 off hose – 5520 0095 25 (Item 4)

Relevant updated parts book pages are attached to this bulletin.

Recommendations

1. PPK recommends installing the new fittings and return hose to minimise the likelihood of leakage or hose failure.
2. The components will be available from February 2015.

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