

ENGINEERING BULLETIN

Ref Document No.	EB15011	Issue No.	1
Subject	CT08 Boom Top Reinforcing Plate		
Release Date	1 st June 2015		

Purpose – Advise COALTRAM® CT08 owners of a plate that is available to reinforce the CT08 boom.

Applicability – COALTRAM® models - CT08

Background

The top plate section of the COALTRAM® CT08 boom has experienced fatigue cracking.

Investigations/Findings

Fatigue cracking has occurred on the top plate section of the COALTRAM® CT08 boom where two plates are butt welded together. Refer Figure 1 for area of boom being described.



Figure 1: COALTRAM® CT08 boom

The area where the cracking has occurred is in a low stress area of the boom. The cracking can be attributed to the flexing of the boom through a butt weld joint. This joint is located between the two pressed sections that form the top of the boom. To address this issue a reinforcing plate has been designed that can be installed to spread any load passing through the weld and reduce flexing in the localised area. Refer Figure 2 below for boom installed with reinforcing plates.

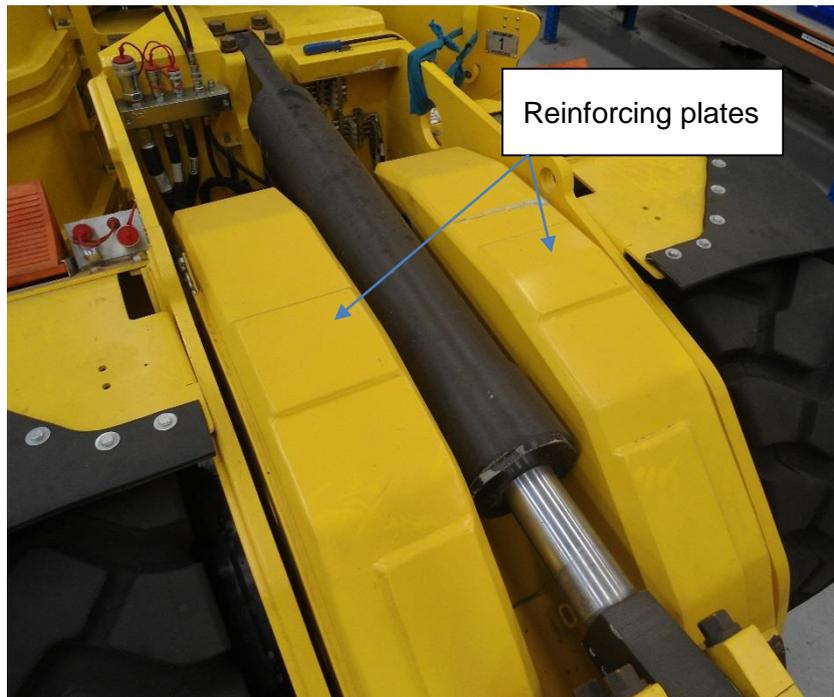


Figure 2: COALTRAM® CT08 boom with reinforcing plates

This plate has been fitted as standard to new COALTRAM® CT08 from approximately 2013.

Recommendations

1. PPK recommends inspecting COALTRAM® CT08 booms for the installation of the reinforcing plates.
2. If the reinforcing plates are not installed visually inspect the welded joints shown in Figure 1 for cracks and include the inspection in regular servicing events.
3. If no cracks are present continue using COALTRAM® CT08 and have the reinforcing plates installed at the next major service interval.
4. If cracking is present the boom will require repair and the reinforcing plates installed at the next appropriate service interval. Contact PPK service centre to have repair scheduled.
5. If the reinforcing plates are to be installed onsite a qualified weld procedure should be followed for a complete 10mm fillet weld with a parent material grade of 350 mild steel.
6. Part number for reinforcing plate – 5520009590. 2 off are required for installation.

Ashley Ryan
Mechanical Engineer

PPK Mining Equipment Pty Ltd
T: +612 4964 5400
E: a.ryan@ppkgroup.com.au
www.ppkgroup.com.au