

ENGINEERING BULLETIN

Ref Document No.	EB15017	Issue No.	1
Subject	C7 Engine Speed/Timing Sensors		
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Purpose – Advise COALTRAM® owners/operators of changes to the MONEx engine speed/timing sensors to increase the reliability of the sensors and ECUEx.

Applicability – COALTRAM® models - CT08, CT10, CT10LP and CT13.

Information

The MONEx ECUEx has a set voltage operating range to supply the sensors throughout the package. If one or more of the MONEx sensors draw more current than desired, the ECUEx output voltage can drop below the critical voltage required to maintain supply to all sensors. This can cause an intermittent ECUEx fault that is difficult to diagnose, and can result in the unnecessary replacement of the ECUEx.

PPK has determined that the speed/timing sensors draw the highest current and are most likely to cause the intermittent ECUEx fault. The Coaltram® C7 engine has two engine speed/timing sensors; Primary speed/timing sensor (5520000599) and secondary speed/timing sensor (5520000600).

PPK has redesigned both speed/timing sensors to draw less voltage and current, reducing the total load on the output voltage supply of the ECUEx. This change has been made to increase the reliability of the ECUEx and avoid unnecessary replacements.

A new IECEx approval was gained for the new speed/timing sensors and is attached to this bulletin.

These new speed/timing sensors are now in stock at PPK and all new speed /timing sensors supplied by PPK will be of the new design.

The new speed/timing sensor design has required an increase in the length of the sensors of ~20mm. In order to install these new sensors, the supply hose to the HEUI pump must be relocated. Once the hose has been relocated the access for installation or replacement of the speed/timing sensors is increased.

Relocating the HEUI pump supply hose can be done by your PPK service centre or by following SWP CT3.36 (attached to this bulletin). A kit with the parts required can be purchased under part number 5520009637.

Recommendations

1. PPK recommend completing the HEUI pump supply hose retrofit preemptively at the next major service. If a speed/timing sensor is required to be replaced before the scheduled service the retrofit should be completed then.
2. Existing stock of speed/timing sensors held by coal mines should be used as normal.

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