

ENGINEERING BULLETIN

Ref Document No.	EB15006	Issue No.	1
Subject	Additional Start Valve		
Release Date	14 th May 2015		

Purpose – Advise COALTRAM® owners of areas of an additional valve that is available to add redundancy to the DES start circuit.

Applicability – All in service COALTRAM® models

Background

Safety Bulletin SB15004 was released to inform the industry of an unplanned engine cranking incident and made some recommendations to help prevent it from occurring. A solution to add extra redundancy to the start circuit has been developed and can be retrofit to existing vehicles.

Investigations/Findings

As detailed in previous bulletins the MONEx system that controls the COALTRAM® ExDES has unintentionally engaged the solenoid valve that initiates the starter motor. This has occurred whilst both the main air and the MONEx system are un-isolated and all interlocks are engaged allowing the engine to crank.

To add redundancy to the start circuit a manually piloted valve can be added inline. This valve is required to be pressed at the same time as holding the MONEx toggle switch in the start position to start the engine. The valve is independent to the MONEx system and downstream of the MONEx start switch in the pneumatic circuit. This change makes starting the COALTRAM® a two handed operation.

Adding the additional valve will not allow the starter motor circuit to energise unless the pilot valve button is depressed.

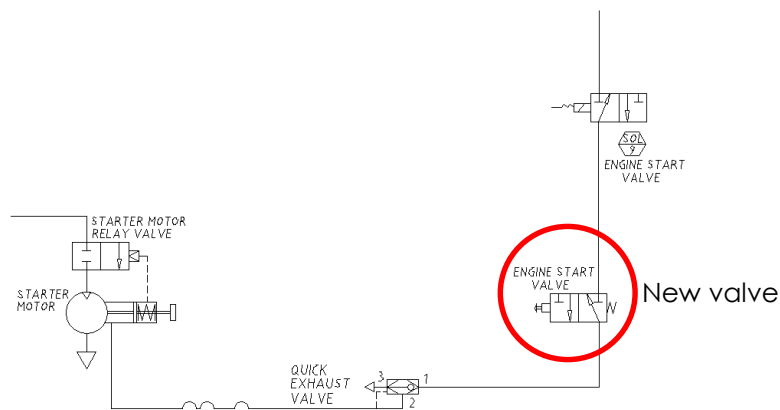


Figure 1: Extract of schematic



Figure 2: Additional start valve installed (label not fixed)

Parts required for upgrade:

- 1 off 3/2 start valve - 904160119
- 1 off 1/8" BSPT x 7/16" JIC 90° elbow M/M – 5520 0003 45
- 1 off 1/8" BSPT x 1/4" BSPT 90° elbow M/M – 5520 0095 65
- 1 off 1/8" BSPT bronze silencer – 5520 0006 95
- 1 off 1/4" BSPT bronze silencer – 5520 0006 96
- 2 off 1/4" pushlock tails – 5520 0004 22
- 600mm 1/4" pushlock hose – 5520 0004 75
- 1 off start label – 5520 0095 67
- 2 off u drive screw – 5520 0036 83

Relevant updated parts book pages are attached to this bulletin. Updated pneumatic schematics are available upon request from PPK.

Recommendations

1. PPK recommends installing the new start valve to minimise the likelihood of unplanned engine cranking.
2. Follow checks recommended in SB15004.
3. The components are currently available.

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