

PILOT VALVE 7-182208-805 REPLACEMENT MDR 114056 DES

Date of issue:	7/07/2026	Issue revision:	A
Prepared for:	Industry/End Users		
Applicable machine(s):	Grader, Predator, MineCruiser Mk8/ Mk7. Other repowered machines relevant to MDR 114056 DES.		
Part number(s):	7-182208-805 AR00160 7-162007-700		
Impact Area	☒ Operations ☒ Maintenance ☒ Spare Parts ☒ Inventory		

The Pilot valve, 7-182208-805 is used in the MWM Engine package and performed two different functions.

1. Providing a pilot signal to the emergency stop valve when the safety circuit was healthy – referred to as the Strangler Pilot valve
2. Acting as a Diesel Particulate Filter backpressure monitoring valve – referred to as the DPF backpressure valve.

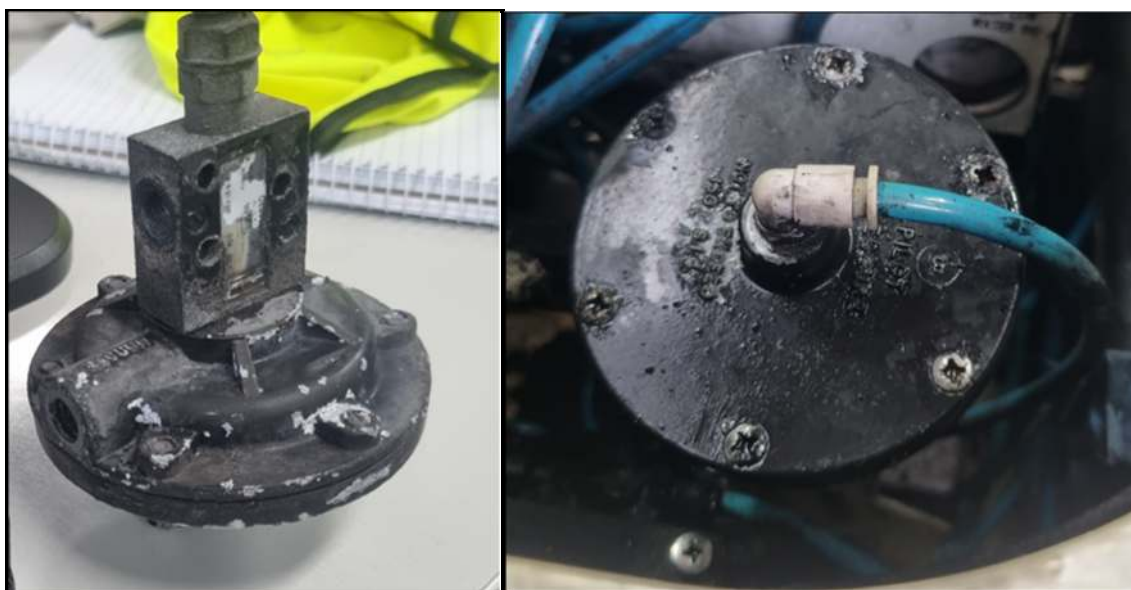


Figure 1a & 1b: original obsolete valve 7-182208-805

In reviewing the replacement of this obsolete valve, a direct replacement that suited both applications was not found. To achieve original system operating parameters, two different valves must be used in the two different applications.

Strangler Pilot Valve replacement - replacement part number 7-162007-700

When replacing the strangler pilot valve (7-182208-805) the above part number 7-162007-700 should be used for the replacement valve. The valve's typical location on the circuit is shown in **figure 3**.

Note: When converting from to 7-182208-805 strangler pilot to 7-162007-700, use fitting kit 7-630358-700 for correct pneumatic fittings. (Kit does not come with valve)



**Figure 2: Strangler pilot valve replacement: 7-162007-700.
7-630358-700 fittings kit is also required for first installation.**

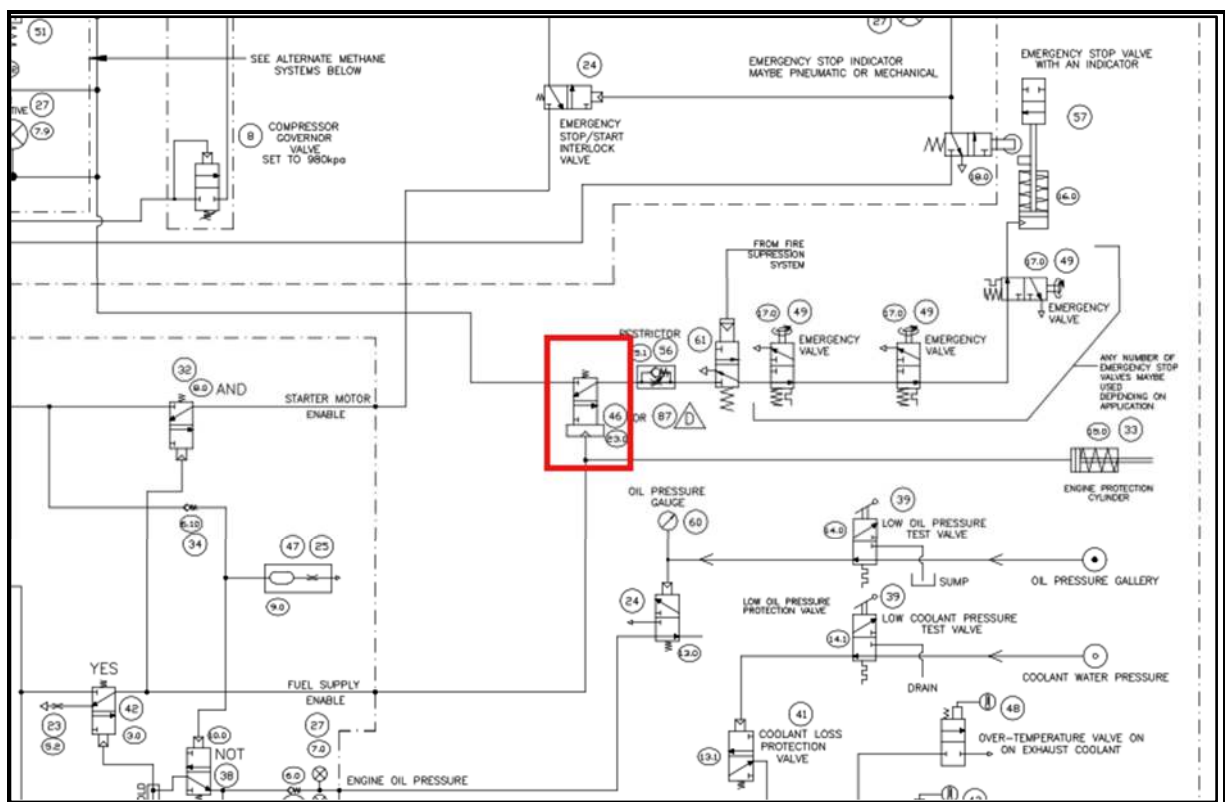


Figure 3: Strangler pilot valve replacement location on schematic – refer 7-161835-700

DPF Backpressure Valve - replacement part number AR00160

When replacing the DPF Backpressure valve (7-182208-805) the above part number AR00160 should be used. The AR00160 Valve may be used for either a DPF back pressure alarm arrangement or a DPF back pressure shutdown arrangement.

Note: When converting from a 7-182208-805 to a AR00160 DPF backpressure valve, use fitting kit 7-630357-700. (Kit does not come with valve)



Figure 4: DPF backpressure replacement valve AR00160.
7-630357-700 fittings kit is also required for first installation.

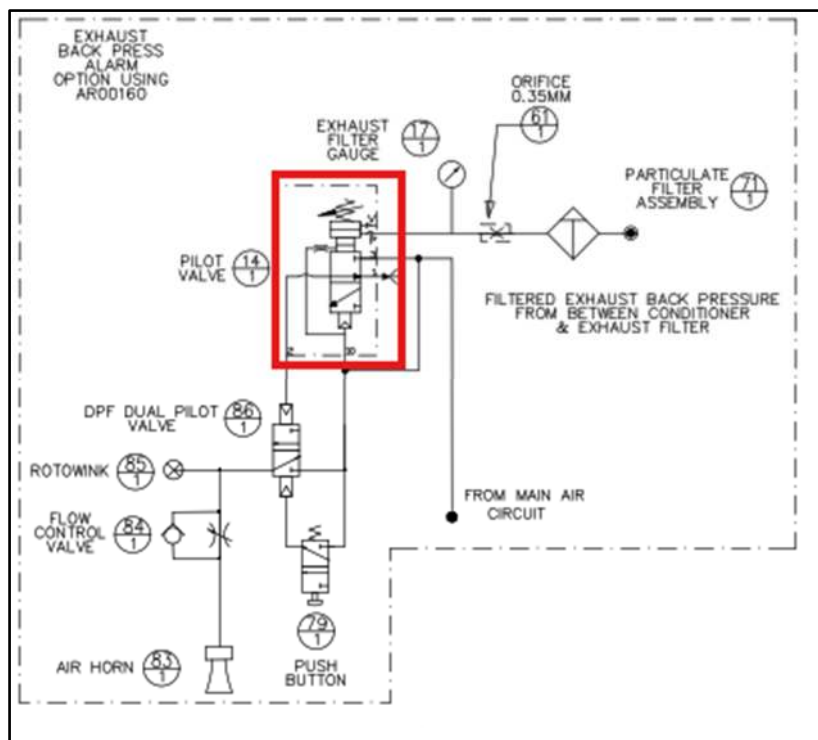


Figure 5: AR00160 hosing when connected as a DPF alarm valve

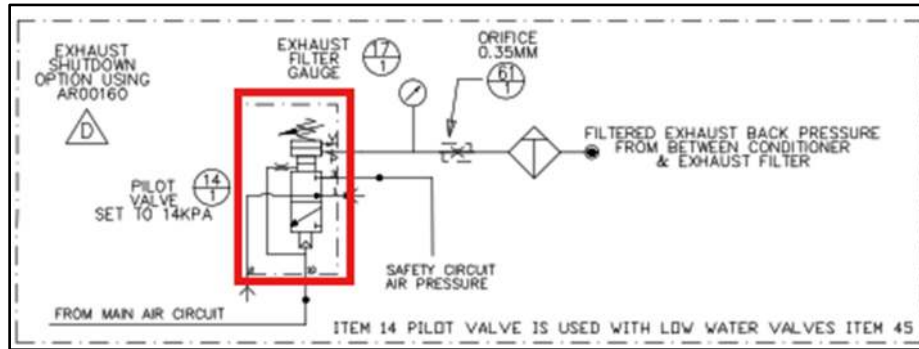
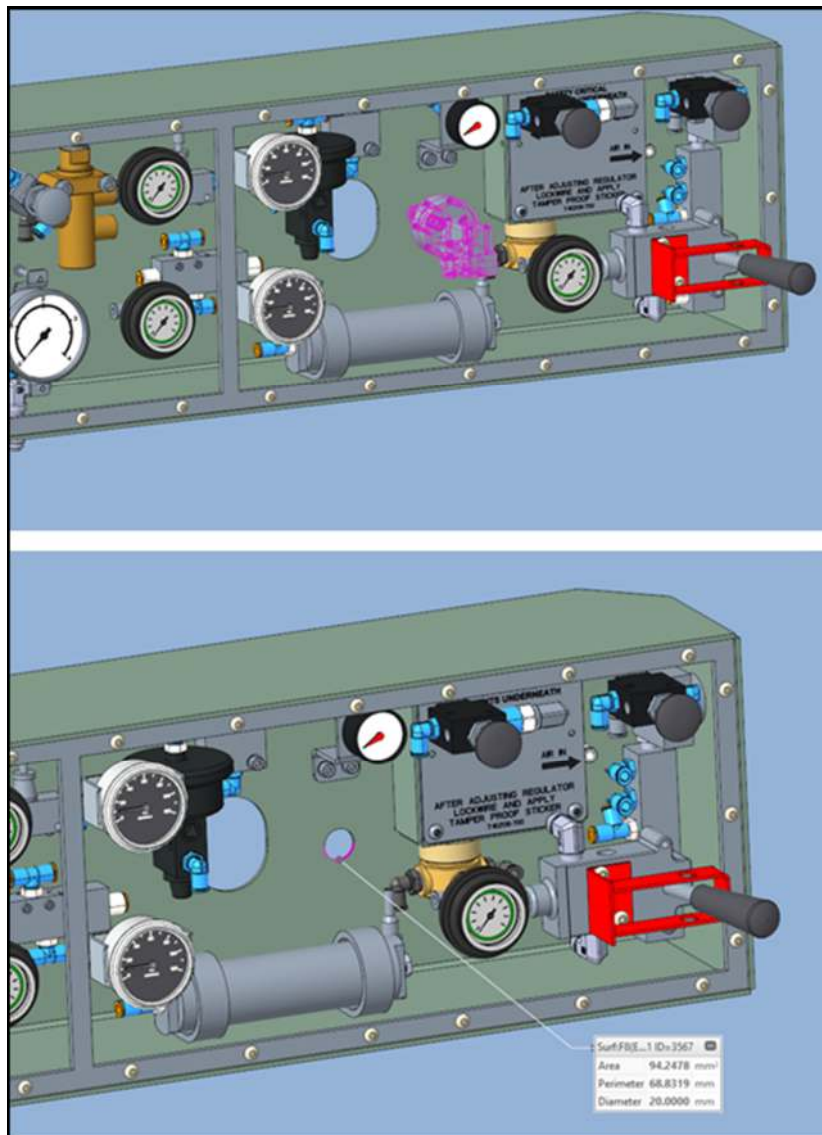


Figure 6: AR00160 hosing when connected as a DPF backpressure shutdown valve

Mounting information

Note: a 20mm diameter hole is required for mounting of the new AR00160 valve in predators (shown) Mk7 and Mk8 Minecruisers.



Figures 7a & b: Mounting information for AR00160

Compliance information

Please note that current MDR information reflects MDR 114056 DES 7a

- Minecruiser/predator control schematics 7-161835-700 revision D or later.
- Grader control schematic 7-161709-700 revision K or later.

Please contact Cougar compliance for further information.

Please contact Cougar if there is a planned change from a DPF shutdown Valve to a DPF Alarm system.

Purchasing information

Replacement 7-182208-805 valves should be ordered as per the below

1. Strangler pilot valve application – order 7-162007-700 + fittings kit 7-630358-700 as required
2. DPF Backpressure application – order AR00160 +7-630357-700 Fittings kit as required.

Orders.ame@cougar.au

Cougar Contacts in respect to this bulletin:

Spare Parts Manager
Compliance

Greg Davies
Bill Davidson

0488025592
0409562385

Disclaimer:

The information provided in this technical bulletin is provided as general information only and is based on the most current information at the time of publication. Installation must be performed in accordance with maintenance procedures by qualified personnel. Use of non-approved parts will affect regulatory compliance and may result in vehicle damage or personal injury. No additional warranties, express or implied, are provided.