

Gradian Service Bulletin

GSB-00005

PRIORITY: **LOW**

Issue: Retrofitting Old UAMs For New UAMVs

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SYMPTOMS

- Due to product design changes, new UAMVs (with serial numbers before V2304-001) cannot be connected directly to older UAMs (serial numbers before A2304-008).

ROOT CAUSE

- Older UAMVs (with serial numbers 22001-508 and before) operate using a reciprocating bellows, and connect directly to the UAM breathing block in parallel with the manual bellows.
- Newer UAMVs (with serial numbers V2304-001 and later) operate using a turbine, and connect in series in the gas pathway between the backbar and breathing block.
- Because of the differences in operating principle between older and newer UAMs, there are differences in how they integrate into the UAM, and require different parts for installation.

UNITS AFFECTED

- All UAMs with serial numbers before 2302-001, and some UAMs with serial numbers between A2302-001 and A2304-008 will require at least some additional parts in order to connect to a new UAMV.
- The parts which are required to retrofit a specific UAM are detailed in **PARTS INFORMATION**.

CORRECTIVE ACTION

- The full procedure for installing a UAMV on an older UAM can be found here: [UAM Retrofit for New UAMV](#).

PARTS INFORMATION

Depending on the serial number of the UAM to be retrofitted, different parts may be needed to successfully connect a new UAMV. Further information for these parts, including part numbers and kit packing lists, can be found on the following page.

- Is the UAM s/n after 2304-008?
 - If **YES**, no parts are required
- Is the UAM s/n between A2302-001 and A2304-008?
 - If **YES**, contact the Product team for additional information
- Is the UAM s/n before 2302-001?
 - If **YES**, add UAMV Accessory Kit
 - If **YES**, add UAMV retrofit Kit A
- Is the UAM s/n before 21810-001?
 - If **YES**, add UAMV retrofit Kit B
- Is the UAM s/n before 21712-001?
 - If **YES**, add UAMV retrofit rear plate
 - If **NO**, add UAMV retrofit rear hatch
- Is this the first time any UAMV has been installed on the UAM?
 - If **YES**, confirm that the breathing block has a port for a Vent connector
 - If **YES**, confirm whether a Vent connector is needed

TOOL INFORMATION

For a complete list of tools required to replace a pipeline pressure gauge, please reference the procedure indicated in **CORRECTIVE ACTION**.

WARRANTY COVERAGE

The cost of parts to retrofit a UAM for a new UAMV should be considered along with the cost of the new UAMV itself; if the UAMV is replaced under warranty, then the retrofit parts will also be covered by Gradian.

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Retrofit Fit Parts & Kits

UAMV Accessory Kit	GRN-ASM-100074
• Qty 1 of Power cord (Type G)	GRN-PEP-100041
• Qty 1 of UAMV Breathing block port w/ o-ring	GRN-ASM-100078
• Qty 2 of Inlet/outlet tube	GRN-PMP-100039
• Qty 1 of Ethernet cord	GRN-PEP-100042
• Qty 1 of Ethernet cord clip	GRN-PMP-100040
• Qty 1 of Fuse 2.5 Amp 250V	GRN-PEP-100043
UAMV retrofit Kit A	GRN-ASM-100073
• Qty 2 of Breathing circuit elbow connector	GRN-PMP-100163
• Qty 2 of Breathing circuit straight connector	GRN-PMP-100164
• Qty 1 of Breathing circuit (short)	GRN-PMP-100162
• Qty 4 of Cable tie, narrow, 8" long	GRN-PMP-100207
UAMV retrofit Kit B	GRN-ASM-100072
• Qty 1 of Breathing circuit elbow connector	GRN-PMP-100163
• Qty 1 of Reusable straight connector, 22mm ID x 5cm	GRN-PMP-100206
UAMV retrofit rear hatch	GRN-MFG-100020
UAMV retrofit rear plate	GRN-MFG-100021
Vent connector	GRN-MFG-100028



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UAM Serial Number	Acc. (GRN-ASM-100074)	Kit A (GRN-ASM-100073)	Kit B (GRN-ASM-100072)	Hatch (GRN-MFG-100020)	Plate (GRN-MFG-100021)	Conn. (GRN-MFG-100028)
A2307-001 and later						
A2302-001 to A2304-008	✓			✓		
21810-101 to 22002-161	✓	✓		✓		
21712-001 to 21712-150	✓	✓	✓	✓		
21209-021 to 21501-150	✓	✓	✓		✓	✓
21003-038 to 21201-015	Installation may not be possible ⁴					