

# Installation Manual

## A700162 Predatair Plastic Line Conversion Kit

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## Changes and Revisions

Version	Revision Details	Revised	Approved	Implemented
A	Original Manual	SL 30 Oct 08	SJ 3 Nov 2008	3 Nov 2008

## Important Information

The information in this manual is intended for certified VMAC installers who have been trained in installation procedures and for people with mechanical trade certification who have the tools and equipment to properly and safely perform the installation. Do not attempt this installation if you do not have the appropriate mechanical training, knowledge and experience.

Follow all safety precautions and standard shop practices for mechanical work.

These instructions are a general guide for installing this product on standard production trucks and do not contain information for installation on non-standard trucks. If you have difficulty with the installation, contact VMAC.

To order parts, contact your VMAC dealer. Your dealer will ask for the VMAC serial number, part number, description and quantity. To locate your nearest dealer, call 1-888-241-2289.

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The A700162 kit is designed to upgrade any of VMACs H600001 series hydraulic compressor systems from the steel system pressure & scavenge lines, to the newer PTFE flexible lines.

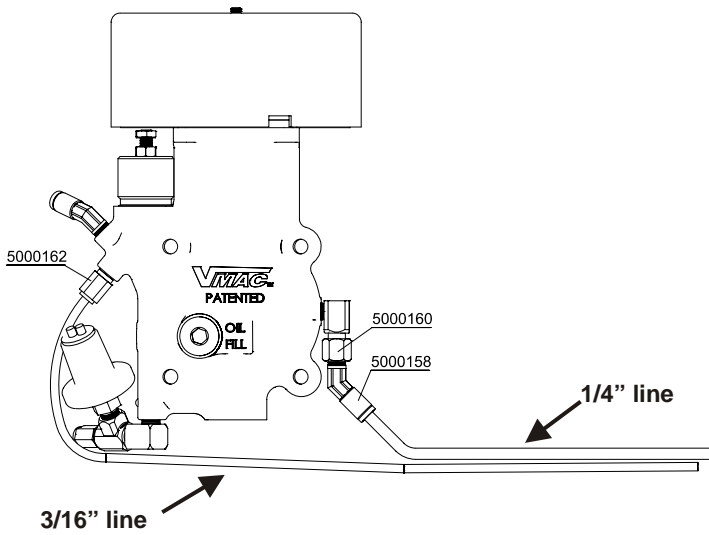
## **1. Original Hose Removal**

- 1.1 Ensure the compressor system is safe to work on and has completely blown down.
- 1.2 Remove the front louvered panel from the compressor system.
- 1.3 Thoroughly clean the compressor system before starting work, to ensure dirt or debris does not enter the compressor system.
- 1.4 Disconnect the smaller steel system pressure line from the inlet control valve and blow down cap.
  - 1.4.1 Remove the remaining brass 3/16" inverted flare fitting from the inlet control valve. Clean any old thread sealant from the port.
- 1.5 Disconnect the larger steel scavenge line from the inlet valve and the blow down cap.
  - 1.5.1 Remove the brass 1/4" inverted flare fitting from the inlet valve, leaving the 1/8" NPT elbow in place. Clean any old thread sealant from the port.

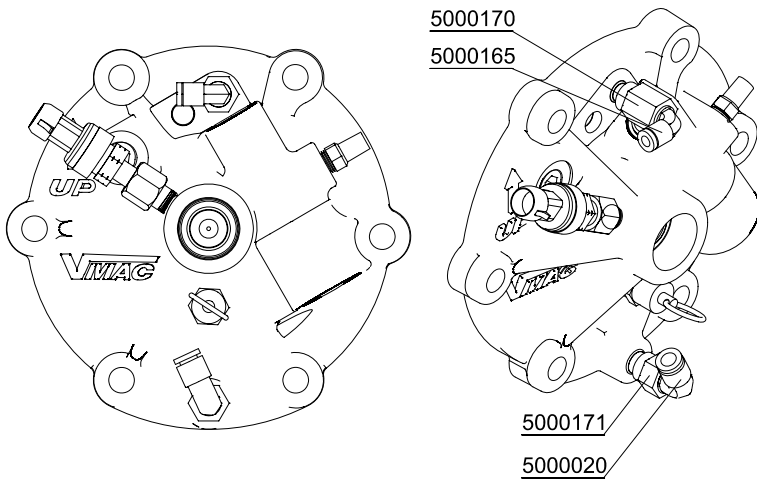
## **2. Installation**

- 2.1 Install the 5000162 quick connect fitting into the inlet control valve using Loctite 567 thread sealant. See fig 2.1
  - 2.1.1 Install the 5000170 adaptor into the blow down cap. Tighten to 125 Lbs-in (Warning: Do Not Over Tighten As The Fitting Can Break). See fig 2.2
  - 2.1.2 Taking care not to apply additional torque to the 5000170 adaptor, install the 5000165 quick connect fitting into the back of the 5000170 adaptor using Loctite 567 thread sealant. See fig 2.2 for final installed orientation.

- 2.2 Install the 5000160 adaptor fitting into the existing 1/8" NPT elbow using Loctite 567 thread sealant. See fig 2.1
  - 2.2.1 Install the 5000158 quick connect fitting into the 5000160 adaptor fitting installed in the inlet control valve using Loctite 567 thread sealant. See fig 2.1 for final installed orientation.
  - 2.2.2 Install the 5000171 adaptor into the blow down cap. Tighten to 200 Lbs-in (Warning: Do Not Over Tighten As The Fitting Can Break). See fig 2.2
  - 2.2.3 Taking care not to apply additional torque to the 5000171 adaptor, install the 5000020 fitting into the back of the 5000171 adaptor using Loctite 567 thread sealant. See fig 2.2 for final installed orientation.
- 2.3 Take the supplied 3/16" PTFE line and install it into the inlet control valve. Using a slight twisting motion as the line is pushed in. Ensure the line is fully installed and does not pull back out.
  - 2.3.1 Install the free end into the blow down cap. Ensure the line is fully installed and does not pull back out.
- 2.4 Take the supplied 1/4" Teflon line and install it into the inlet control valve. Using a slight twisting motion as the line is pushed in. Ensure the line is fully installed and does not pull back out.
  - 2.4.1 Install the free end into the blow down cap. Ensure the line is fully installed and does not pull back out.
- 2.5 Ensure the lines are routed correctly and not kinked. Using the supplied loom and tie wraps secure the lines together. Avoid all sharp edges and chaffing points.
- 2.6 After testing, reinstall all panels.



**Figure 2.1 – Inlet Control Valve Fittings**



**Figure 2.2 – Blowdown Cap Fittings**

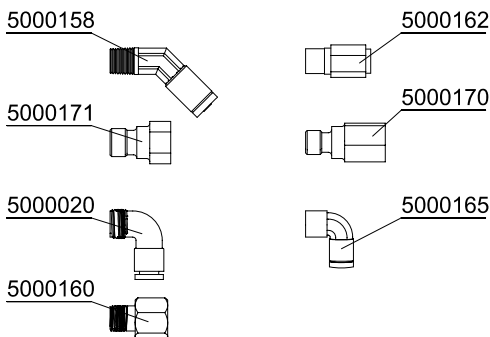
### 3. System Testing

- 3.1 Start the VMAC system.
- 3.2 Ensure the system is operating normally.
- 3.3 Check for leaks, especially during blowdown when the system has been turned off.
- 3.4 Ensure the system is scavenging oil correctly (compressor oil is not being released with discharged air).

### 4. Ordering Parts

To order parts, contact your VMAC dealer. Your dealer will ask for the VMAC serial number, part number, a description of the part and the quantity. To locate your nearest dealer, call 1-800-738-8622.

Item #	Part #	Qty	Description
1	1900897	1	Install Manual, A700162
2	5000158	1	ELBOW, BRASS 45 DEG NPT-POLY 1/8-1/4
3	5000171	1	FITTING, 7/16 TUBE- 1/8 NPT
4	5000020	1	ELBOW, BRASS NPT-POLY, 1/8-1/4
5	5000160	1	ADAPTER, BRASS, 1/8-1/8 NPT
6	5000162	1	CONNECT, BRASS NPT-POLY, 3/16-1/8 NPT
7	5000170	1	FITTING, 3/8 TUBE- 1/8 NPT
8	5000165	1	ELBOW, 90, BRASS NPT-POLY, 1/8-3/16
9	1700570	17.5"	TUBE, TEFLON, PTFE, 1/4" OD
10	1700571	24"	TUBE, TEFLON, PTFE, 3/16" OD X 1/8" ID
11	1700029	24"	LOOM, SPLIT PLASTIC, 1/2
12	2200039	5	TIE, NYLON MD, 7"



**Figure 4.1 – Summary of Connectors**

## **5. Warranty**

### **1 GENERAL PROVISIONS AND LIMITATIONS**

1.1 VMAC, Division of Mangonel Investments Corporation, (hereafter "VMAC") warrants to each original retail purchaser (hereafter "Buyer") of its new Accessory Product (hereafter "Product(s)") from VMAC or its authorized Dealers that such Product(s) are, at the time of delivery to the Buyer, free of manufacturer defects in material and workmanship.

### **2 NO WARRANTY IS MADE WITH RESPECT TO**

2.1 Any Product(s) which have, in VMAC's judgment, been subject to negligence, accident or improper storage, installation, application, operation or maintenance, or have been repaired or altered in such a way that affects the Product(s) adversely.

2.2 Components or accessories manufactured, warranted and serviced by others.

2.3 Damages caused from service and repairs and corrections with minimum action, such as adjustments and inspections, or replacement of items.

2.4 Consequential damages caused by Product(s) failure.

2.5 Any Product(s) if other than VMAC's genuine components are used in the Product(s).

2.6 Normal wear and tear of Product(s).

### **3 WARRANTY PERIOD**

3.1 The warranty period will commence 30 days from date of shipment from VMAC.

3.2 The Product(s) is warranted against manufacturer defects in materials and workmanship for a period of 12 months.

3.3 Replacement components of Product(s), shall be warranted for the remainder of the original warranty period.

## **4 VMAC OBLIGATIONS**

4.1 VMAC's obligation is limited to repairing or, at VMAC's option, replacing, during normal business hours at an authorized service facility of VMAC, any component, which in VMAC's judgment is proven to be defective as warranted.

4.2 VMAC's obligation is limited to Product(s) proven to be warranted. No liability is accepted for any consequential damages, injuries or expenses directly or indirectly related to Product(s) failure.

## **5 BUYER OBLIGATIONS**

5.1 Buyer shall notify VMAC of the alleged defect within 10 days of initial discovery and return the allegedly defective component(s) within 30 days of initial discovery.

5.2 The Buyer must prepay all costs associated with the warranty claim and submit receipts and/or invoices to VMAC for evaluation.

5.3 If required by VMAC, the Buyer must return components claimed under this warranty to a facility designated by VMAC for evaluation, to establish a claim under this warranty.

## **6 DISCLAIMER AND WARRANTY SERVICE**

6.1 Any labor costs claimed in excess of VMAC's set rate and/or times are not provided by this warranty. If applicable, any labor costs in excess of VMAC rate schedules caused by, but not limited to, location or inaccessibility of the equipment, travel time or labor provided by unauthorized service personnel are not provided by this warranty.

6.2 This warranty is in lieu of all other warranties or obligations, express or implied. VMAC expressly disclaims all implied warranties of merchantability or fitness for a particular purpose.



6.3 Warranty claims must be pre-authorized by VMAC, and the components returned via prepaid freight using the designated “Returned Merchandise Authorization” number and form.