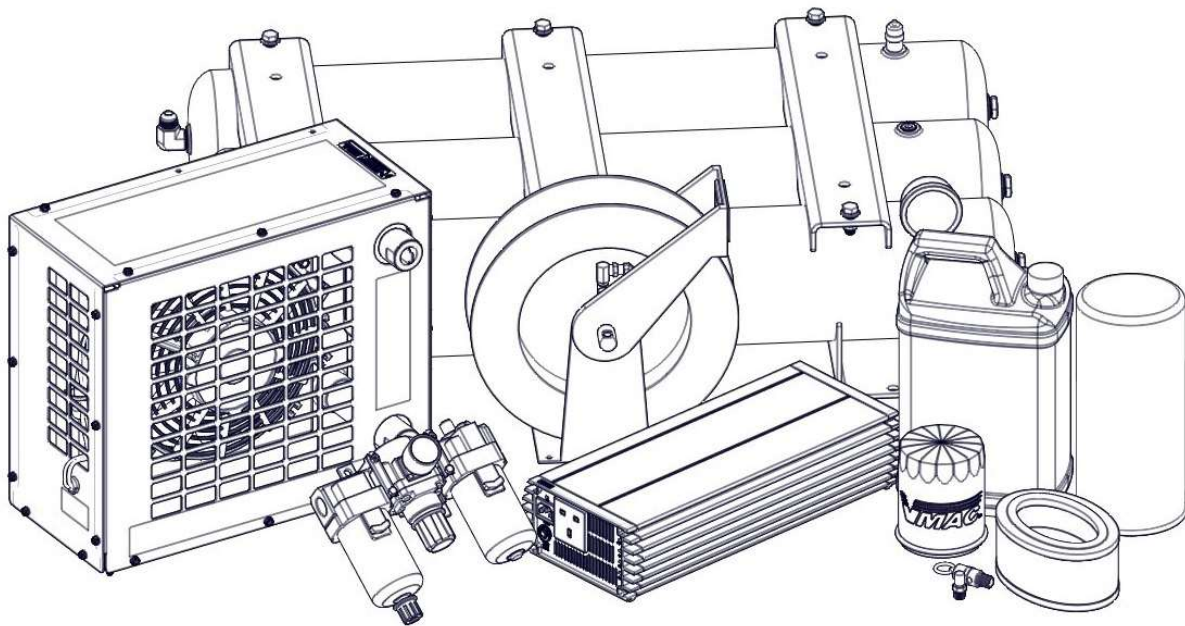


VMAC[®]

AIR INNOVATED[®]



Installation Manual for VMAC OEM Accessory

**A700282
Oil Filter Blanking Kit**

www.vmacair.com

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Revision	Revision Details	Revised by	Checked by				Implemented
			Eng.		Tech.	Qual.	
			Mech.	Elec.			
A	Initial Release	MSP	PID	N/A	DSB	LH	12 FEB 2021

Additional Application Information

The A700282 Oil filter Blanking Kit is compatible with all VMAC VR70 and VR150 Air Oil Separator Tanks (AOST).

Registered Trademarks

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Loctite®, **Loctite® 242** and **Loctite® 567** are registered trademarks of Henkel AG & Company KGaA.

Important Information

The information in this manual is intended for certified VMAC installers who have been trained in installation and service procedures and/or for anyone with mechanical trade certification who has the tools and equipment to properly and safely perform the installation or service. Do not attempt installation or service without the appropriate mechanical training, knowledge and experience. Follow all safety precautions. Any fabrication for correct fit in modified vehicles must follow industry standard "best practices".

Notice

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Safety

Important Safety Notice

The information contained in this manual is based on sound engineering principles, research, extensive field experience and technical information. Information is constantly changing with the addition of new models, assemblies, service techniques and running OEM changes. If a discrepancy is found in this manual, contact VMAC Technical Support prior to initiating or proceeding with installation, service or repair. Current information may clarify the issue. Anyone with knowledge of such discrepancies, who proceeds to perform service and repair, assumes all risks.

Only proven service procedures are recommended. Anyone who departs from the specific instructions provided in this manual must first ensure that their safety and that of others is not being compromised, and that there will be no adverse effects on the operational safety or performance of the equipment.

VMAC will not be held responsible for any liability, consequential damages, injuries, loss or damage to individuals or to equipment as a result of the failure of anyone to properly adhere to the procedures set out in this manual or standard safety practices.

Safety should be the first consideration when performing any service operations. If there are any questions concerning the procedures in this manual, or more information is required, please contact VMAC Technical Support prior to beginning work.

Safety Messages

This manual contains various warnings, cautions and notices that must be observed to reduce the risk of personal injury during installation, service or repair and the possibility that improper installation, service or repair may damage the equipment or render it unsafe.



This symbol is used to call attention to instructions concerning personal safety. Watch for this symbol; it points out important safety precautions, it means, "Attention, become alert! Your personal safety is involved". Read the message that follows and be aware of the possibility of personal injury or death. As it is impossible to warn of every conceivable hazard, common sense and industry standard safety practices must be observed.



This symbol is used to call attention to instructions on a specific procedure that if not followed may damage or reduce the useful life of the compressor or other equipment.



This symbol is used to call attention to additional instructions or special emphasis on a specific procedure.

Warranty

VMAC Standard Warranty (Limited)

For complete warranty information, including both VMAC Standard Warranty (Limited) and VMAC Lifetime Warranty (Limited) requirements, please refer to our current published warranty located at: www.vmacair.com/warranty



If you do not have access to a computer, please contact us and we will be happy to send you our warranty.

VMAC's warranty is subject to change without notice.

VMAC Lifetime Warranty (Limited)

A VMAC Lifetime Limited Warranty is offered on the base air compressor only and only on UNDERHOOD, Hydraulic Driven, Transmission Mounted, Gas and Diesel Engine Driven Air Compressors, Multifunction Power Systems, and other products as defined by VMAC, provided that (i) the purchaser fully completes and submits a warranty registration form within 3 months of purchase, or 200 hours of operation, whichever occurs first; (ii) services are completed in accordance with the Owner's Manual; (iii) proof of purchase of applicable service kits are made available to VMAC upon request.



The VMAC Lifetime Warranty is applicable to new products shipped on or after 1 October, 2015.

Warranty Registration

VMAC warranty registration must be completed and sent to VMAC at the time of installation for any subsequent warranty claim to be considered valid.

There are 4 ways the warranty can be registered with VMAC:



www.vmacair.com/warranty



warranty@vmacair.com



(877) 740-3202




VMAC - Vehicle Mounted Air Compressors
1333 Kipp Road, Nanaimo, BC, Canada V9X 1R3

VMAC Warranty Claim Process

	<p>VMAC warranty work must be pre-authorized by VMAC. Claims are processed via our dealer network. If you are not a VMAC dealer, please select one to work with via our Dealer Locator: https://www.vmacair.com/dealer-locator/.</p> 
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1. Communicate with VMAC Technical Support at 1-888-241-2289 or tech@vmacair.com to help diagnose/troubleshoot the problem prior to repair. VMAC technical support will require the VMAC System ID, hours on the compressor and mileage on the vehicle.
2. VMAC will provide direction for repair or replacement of the failed components.
3. If requested, failed parts must be returned to VMAC for evaluation.
4. Dealers may login to the VMAC website to view the "VMAC Labour Time Guide" (under "Agreements") to see the allowable warranty labour times.
5. Warranty invoices must include the Service Ticket number, VMAC System ID#, hours on the compressor, and a detailed description of the work performed.
6. VMAC Warranty does not cover consequential damages, overtime charges, mileage, travel time, towing/recovery, cleaning or shop supplies.
7. Dealers submit warranty claims on behalf of the Vehicle Owner/End User affected by the defective part(s). The dealer ensures that all warranty credits are refunded back to the Vehicle Owner/End User who made the initial warranty claim.

	<p><i>In order to qualify for Lifetime Warranty (Limited), the completed warranty registration form must be received by VMAC within 3 months of the buyer receiving the Product(s), or 200 hours of operation, whichever occurs first.</i></p> <p><i>If the completed warranty registration form has not been received by VMAC within 3 months of the buyer receiving the Product(s), or 200 hours of operation, the "STANDARD" warranty period will be deemed to commence 30 days from the date of shipment from VMAC.</i></p> <p><i>Failure to follow the warranty claim process may result in denial of the warranty claim.</i></p>
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VMAC Product Warranty Policies & Warranty Registration can be found on the VMAC website (see previous page for URL).

General Information

Optional Equipment Compatibility

While VMAC strives to design systems compatible with optional OEM equipment (such as running boards), it is impractical to develop systems that accommodate every OEM and aftermarket option or add-on. Whenever possible, VMAC endeavors to advise of compatibility issues in the "Additional Application Information" section of the manual. Even when specific optional equipment is determined by VMAC to be incompatible, it does not preclude the vehicle upfitter or end user from modifying the optional equipment to make it compatible with the installed VMAC system. VMAC does not warrant or accept responsibility or liability for the fitment, function, or safety of any products modified in any way not expressly outlined in the installation manual.

Before Starting

Read this manual prior to beginning the installation to ensure familiarity with the components and how they will fit on the vehicle. Identify any variations from the application list such as vehicle model, engines, or optional equipment (e.g., dual alternator, active steering assist, etc.).

Hose Information



Only attempt to shorten the supplied hose if there is access to the appropriate equipment. Do not attempt to cut the hose and splice it using hose clamps.



VMAC Compressor oil will degrade rubber lined hoses, use only hoses with an AQP elastomer type liner. Contact VMAC Technical Support at 1-888-241-2289 for further information.

Depending on other installed equipment, it might be necessary to move the air/oil separation tank from its intended location. The hoses used in VMAC compressor systems have a specific inner liner that is compatible with VMAC compressor oil. Use of hoses other than those supplied or recommended by VMAC may cause compressor damage and may void your warranty. Please contact VMAC for replacement hoses and further information.

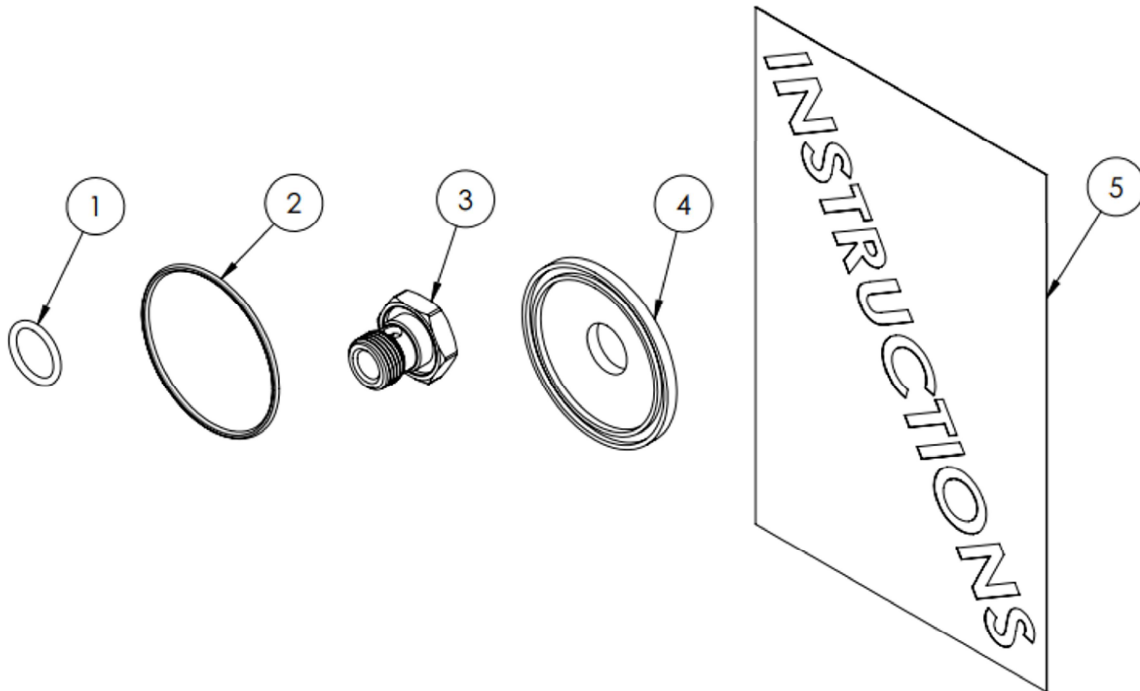
Ordering Parts

To order parts, contact a VMAC dealer. The dealer will ask for the VMAC serial number, part number, description and quantity. Locate the nearest dealer online at www.vmacair.com/dealer-locator or call 1-877-912-6605.



Illustrated Parts List

Item #	Part #	Qty	Description
1	5830045	1	O-RING, VITON, 3/4 ID X 3/32
2	5830002	1	O-RING, VITON, 2 3/8 ID X 3/32
3	9200103	1	FITTING, BLANK PLATE
4	9200104	1	PLATE, BLANKING
5	1901112	1	DOCUMENTATION, A700282



Maintenance and Repair Safety



It is impossible to warn of all the possible hazards that may result from operating, servicing, or repairing this system. Wear all appropriate Personal Protective Equipment and follow all industry standard safety practices.



Confirm that the system is depressurized and has cooled prior to performing any service work.



Never use flammable solvents to clean any components. If a flammable solvent has been used, rinse the component thoroughly with water and dry it before reinstalling it to prevent the possibility of explosion.



Use only genuine VMAC replacement parts to maintain the system. Genuine VMAC replacement parts are designed to work with the high pressure and heat generated by the compressor. Substituting genuine VMAC replacement parts may void the warranty and could cause equipment damage, injury, or death.



This information is intended for people with mechanical trade certification who have the tools and equipment to properly and safely perform the service or repair. Do not attempt to service or repair this system without the appropriate mechanical training, knowledge and experience.

Follow all safety precautions and industry standard "best practices".

Safety Check List

- Open the ball valve or connect an air tool to the system to ensure all the stored air is released.
- Gently pull up on the ring on the pressure relief valve to confirm the system is depressurized



Do not use the pressure relief valve as a means of depressurizing the compressor system. Doing so will prematurely wear the internal spring or the seat, preventing the valve from maintaining normal system pressure.

Installation



Read the "Maintenance and Repair Safety" section prior to performing any work on the system (beginning on page 8). Wear appropriate Personal Protective Equipment and follow all industry standard safety practices.



This accessory must be used in conjunction with a remote oil filtration system.
If a remote oil filtration kit has not been spec'd for your application, contact the VMAC OEM Custom Solutions team: oem@vmacair.com.

If this procedure is being performed on a used AOST[†]:

- *Drain the oil into a suitable container.
- Or
- *Perform this procedure with the filter end of the AOST raised to prevent the oil from spilling out.
- Clean the area around the tank and the filter to prevent contamination.
- Remove the oil filter (Figure 1).

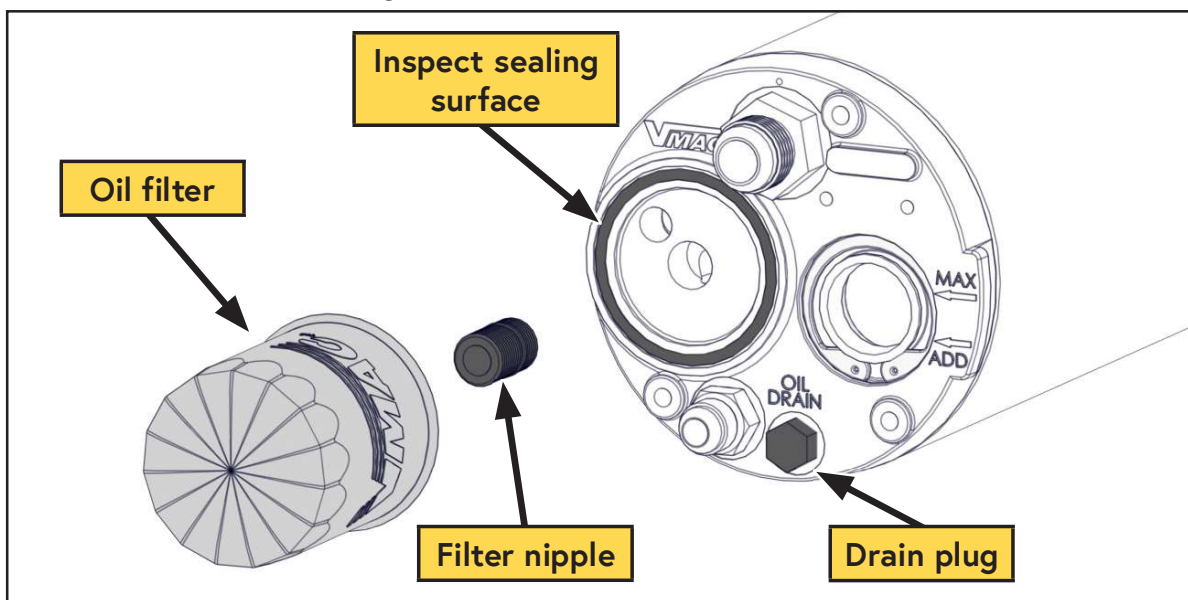


Figure 1 — Remove oil filter



If installing this accessory on a new AOST assembly, the unused oil filter can be retained for use on other VMAC products.

- Remove and discard the threaded oil filter nipple (the oil filter nipple has been installed from the factory using Loctite 242 (blue) (Figure 1).
- Clean the threads in the AOST to ensure there is no oil residue left, then apply Loctite Blue (242) to the threads
- Clean the gasket sealing surface on the front of the AOST and inspect it for damage. The surface must be free of old gasket material and smooth to ensure a good seal (Figure 1).

- Apply a thin coating of oil to the supplied O-rings.
- Install the O-rings and blanking plate onto the AOST (Figure 2).

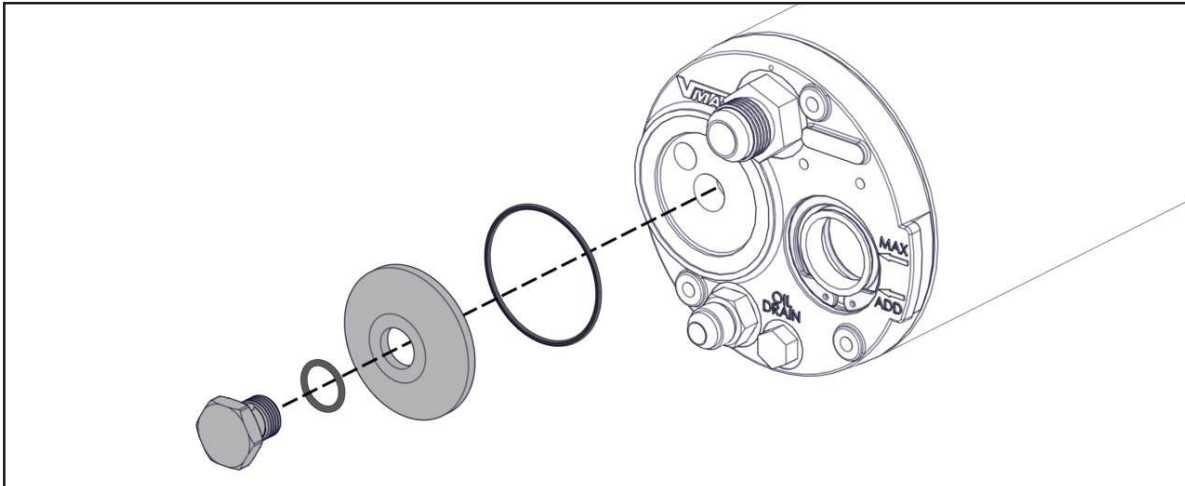



Figure 2 — Install O-rings and blanking plate

- Torque the blanking plate bolt to 20 ft•lb.
- Ensure the remote oil filtration system has been installed prior to proceeding.
- Connect the AOST to the remote oil filtration system.

Add compressor oil

	<p>The compressor system is a closed loop. After draining oil, there will be residual oil in various components of the system.</p> <p>When re-filling the system with oil, ensure the oil level does not exceed the "MAX" mark indicated on the sight glass. Overfilling could lead to oil traveling downstream into equipment.</p>
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- Slowly add VMAC Compressor oil until the oil level is correct (Figure 3).

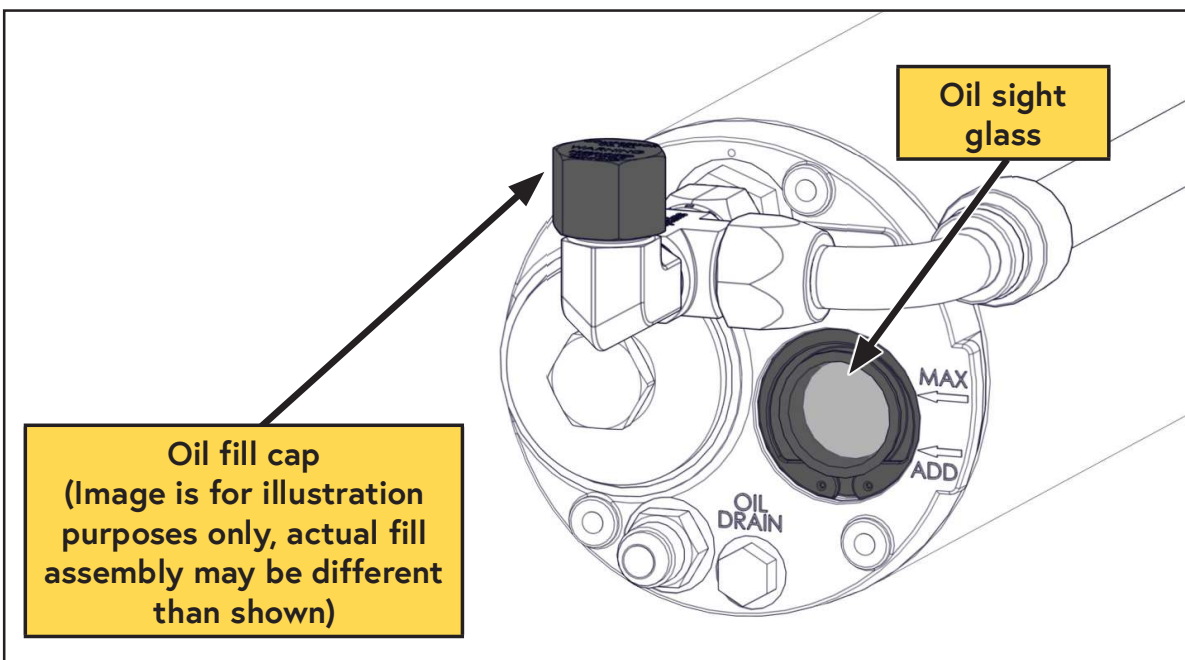


Figure 3 — Adding oil to the system

Completing the Service

- Start the engine and allow it to reach operating temperature.
- Turn the compressor switch on the control unit to the "ON" position and allow the system to pressurize.
- Check for any leaks.
- Run the system for 2 minutes in a closed loop (not using any air).
- Turn the compressor switch on the control unit to the "OFF" position.
- Turn the engine off.
- Allow the system to settle for 5 minutes.
- Ensure the compressor system is completely depressurized.
- Check the oil level. The level must be between the "MAX" and "ADD" markings on the sight glass. If not, add/remove oil as required until the correct level is achieved.
- Inspect all hoses and components for leaks or signs of wear. If signs of wear are present, replace the hose if necessary and/or take appropriate action to prevent further wear.

Manufactured by



888-241-2289



tech@vmacair.com



877-740-3202



warranty@vmacair.com



www.vmacair.com



kb.vmacair.com



1333 Kipp Road, Nanaimo, B.C., V9X 1R3 Canada