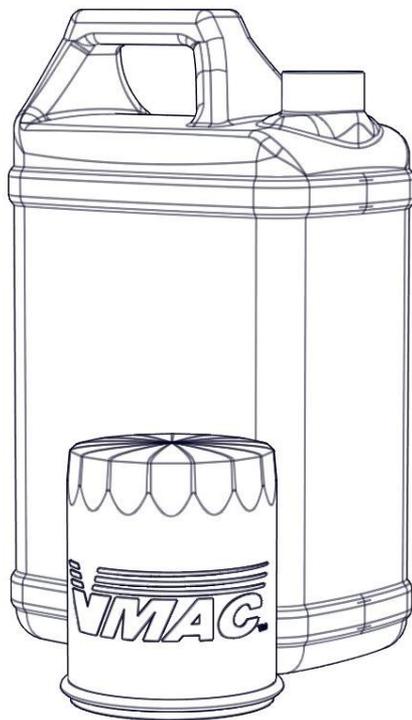


VMAC[®]

VEHICLE MOUNTED AIR COMPRESSORS
COMPACT. POWERFUL.



VMAC Universal Flushing Kit **A700214** **Compatible with all VMAC compressor** **systems**

***Must be ordered with**
200 / 500 hour (6 month) Service kit

www.vmacair.com

Revision	Revision Details	Revised by	Checked by				Implemented
			Eng.		Tech.	Qual.	
			Mech.	Elec.			
A	Engineering Release	MSP	RAR	N/A	RD	AMG	25 Jul 2016
A	Corr: Oil filter part number pg 4	MSP	N/A	N/A	N/A	N/A	23 Aug 2016
B	ECN 17-016 Update safety warnings	MSP	KRM	N/A	DSB	AMG	31 Jan 2017

Additional Application Information

- **Must be ordered with 200 / 500 hour (6 month) Service kit**

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Loctite®, **Loctite® 242** and 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 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 for mechanical work. Any grinding, bending or restructuring operations for correct fit in modified vehicles must follow standard shop practices.

Notice

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VMAC – Vehicle Mounted Air Compressors

Toll Free: 1-888-241-2289

Fax: 1-250-740-3201

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 and service techniques. If a discrepancy is noted in this manual, contact VMAC prior to initiating or proceeding with installation, service or repair. Current information may clarify the issue. Any person with knowledge of such discrepancies who performs 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 assure that their safety and that of others is not being compromised and that there will be no adverse effects on performance or the operational safety 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 any person to properly adhere to the procedures set out in this manual or standard safety practices. Safety should be your first consideration in performing service operations. If you have any questions concerning the procedures in this manual or require any more information on details that are not included in this manual, please contact VMAC before beginning repairs.

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 your attention to instructions concerning your 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 alert to the possibility of personal injury or death. Be alert; your safety is involved. As it is impossible to warn about every conceivable hazard, let good common sense be your guide.



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

General Information

Before You Start

Read this manual before attempting installation so that you can familiarize yourself with the components and how they fit on the vehicle. Identify variations for different engine models and different situations that are listed in the manual. Open the package, unpack the components and identify them.

Torque Specifications

All fasteners must be torqued to specifications. Use manufacturers' torque values for OEM fasteners. **Apply Loctite 242 or equivalent on all engine-mounted fasteners.** Torque values are with Loctite applied unless otherwise specified.

STANDARD GRADE 8 NATIONAL COARSE THREAD								
Size	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4
Foot-pounds (ft•lb)	9	18	35	55	80	110	170	280
Newton meter (N•m)	12	24	47	74	108	149	230	379

STANDARD GRADE 8 NATIONAL FINE THREAD					
Size	3/8	7/16	1/2	5/8	3/4
Foot-pounds (ft•lb)	40	60	90	180	320
Newton meter (N•m)	54	81	122	244	434

METRIC CLASS 10.9						
Size	M6	M8	M10	M12	M14	M16
Foot-pounds (ft•lb)	4.5	19	41	69	104	174
Newton meter (N•m)	6	25	55	93	141	236

Table 1 – Torque Table

Special Tools Required

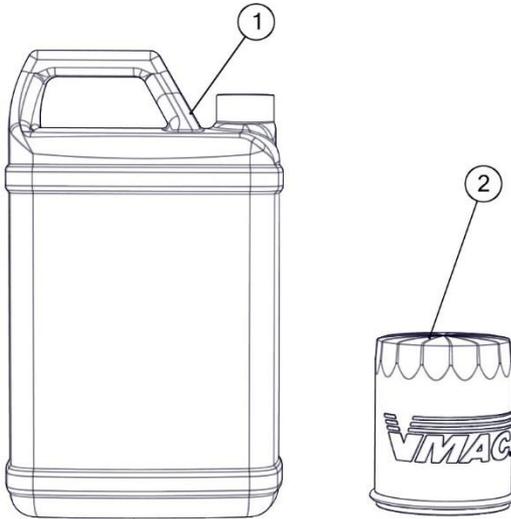
- Filter wrench

Ordering Parts

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 1-877-912-6605 or online at www.vmacair.com

Parts List

A700214



Item	QTY	Part #	Description
1	1	A700094	OIL, VR, 4L, HIGH PERFORMANCE
2	2	9200039	OIL FILTER, VR 3.250 SHORT

NOTE

This kit must be ordered with a 200 / 500 hour (6 month) service kit appropriate for your application.

*See our web site for information related to your system.
<http://vmacair.com/service-kits>*

Flushing Procedure



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



Do not 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.

Component failure (compressor, hose or cooler core) can leave metal filings and other contaminants in the system. To flush the system, follow this procedure:



Before replacing any failed component, check all other system components for evidence of contamination and clean thoroughly.

- Drain oil into a clean bucket and look for evidence of metal or other contaminants. Tip the unit to get maximum oil drainage.
- Use low pressure compressed air to blow out lines and other components.
- Remove the oil filter and drain the oil from the filter into a clean bucket. Look for evidence of metal or other contaminants. If there is no metal in the oil and no metal visible in the filter, skip to step 5.
- If there is metal in the oil or oil filter, look for metal in the return line to the compressor. If metal is found anywhere, the cooler as well as the lines between the compressor, cooler and Air Oil Separator Tank (AOST) must be flushed or replaced before the new compressor is installed.
 - To flush the cooler, remove it from the vehicle (or OEM system) and wash thoroughly in a solvent bath to remove all contaminants. Use low pressure compressed air to dry.
- Once the system has been cleaned as thoroughly as possible, replace the failed component and reconnect all lines and fittings.
- Install a new oil filter and add 4 L (1 U.S.G.) of VMAC compressor oil to the system.



VMAC 150 cfm compressor systems only require 4 L (1 U.S.G.) VMAC compressor oil for the initial flush procedure.

- Start the engine and engage the air system. Allow the system to pressurize to maximum pressure (Factory default: 150 psi) and allow it to operate with the ball valve closed (without discharging any air) for about 15 minutes.
- Shut-down the compressor and allow the system to cool.
- Confirm the system has depressurized.
- Change the oil and the oil filter. Refill with VMAC compressor oil to the correct level.
- After 50 hours run time, replace the oil filter and top up the oil level with VMAC compressor oil.

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PH 250-740-3200

FX 250-740-3201

TF 1-888-241-2289

1333 Kipp Road, Nanaimo, BC, V9X 1R3 Canada

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