

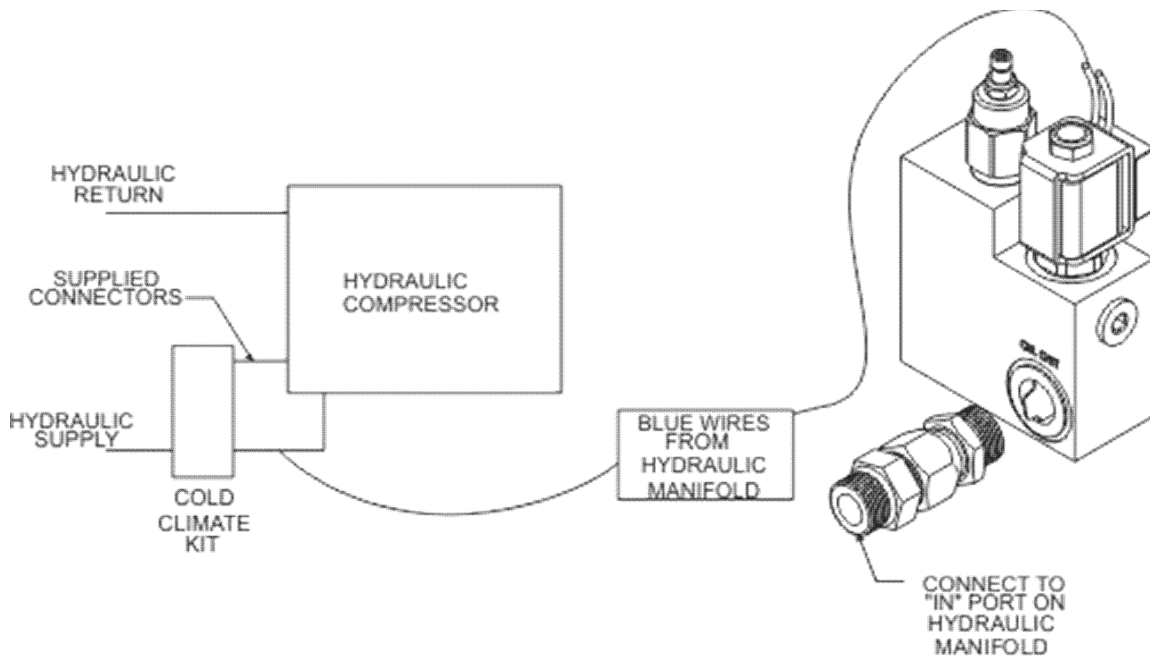
Installation Instructions

Cold Climate Kit

1. If the hydraulic compressor system is already installed, clean the area around the hydraulic inlet manifold and disconnect the hydraulic high-pressure supply line from the hydraulic manifold.
2. Install the supplied #12 ORB to #12 male JIC fitting in the high-pressure port of the hydraulic manifold.
3. Install the supplied #12 ORB to #12 female JIC fitting in the "OIL OUT" port of the cold climate kit.
4. Connect the fitting installed in the hydraulic manifold to the fitting installed in the cold climate kit and rotate the block so the solenoid and pressure relief valve are vertical. Tighten the fittings.
5. Install the hydraulic high pressure line to the "OIL IN" port of the cold climate kit and tighten the hose fitting.
6. Locate the coil of blue wires with connector on the inside of the right-hand side panel of the hydraulic compressor system. Cut the tie wraps securing the wires to the panel, pull them through the panel and attach the connector to the solenoid on the cold climate kit.
7. Route the wires away from all sources of heat, pinch points and areas when abrasion or damage may occur. Secure the wires using suitable tie wraps or similar wiring restraints. Use protective loom if required.



The cold climate kit is fully automatic and its operation cannot be tested independently. Operate the hydraulic compressor system to ensure there are no leaks or other operational problems.



Cold Climate Kit Operation

The VMAC cold climate kit is connected in series with the hydraulic high-pressure supply line to the hydraulic manifold. The electrical wiring is inside the enclosure of the hydraulic compressor system. The system is totally automatic and does not require any user intervention.

The electrical control in the hydraulic compressor system will automatically turn the cold climate kit solenoid on and off as required. It automatically activates when a temperature probe inside the compressor system senses that hydraulic oil temperatures are below -15°C. Once the hydraulic oil temperature exceeds -15°C, the solenoid will de-energize, and the hydraulic system controller will start the compressor.

The kit contains a solenoid valve and a pressure relief valve set at 600 PSI @ 4 GPM. When activated, the kit will generate a restriction of approximately 3.7KW @ 14 GPM up to 5.2KW @ 20 GPM.



The hydraulic system will still warm up without the kit installed in extreme cold weather, but at a much slower and usually undesirable rate.

Never attempt to make adjustments to the cold weather kit. Contact VMAC technical support for assistance if the system does not function properly.

Important Information:

The information in this manual is intended for installers who have knowledge and experience in hydraulic system installation 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. If you have difficulty with the installation, contact VMAC.

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

Document 1900875 - Changes and Revisions

Version	Revision Details	Revised by/date	Checked by/date	Reviewed by/date	Implemented
000	Original manual	IB 3 Apr 2006		SM 5 Apr 2006	6 Apr 2006
A	ECN 06-247 content revisions	IB 23 Nov 2006		SH 08 Dec 2006	11 Dec 2006
B	ECN #08-131 – made for both Predatairs	SL 29 May 2008		SJ 23 Aug 2010	23 Aug 2010
C	ECN #10-119 – del. references to 60 only	SAR 20 Oct 2010		SJ 3 Nov 2010	19 Nov 2010
D	ECN 18-085 – new coil and manifold	MRH 18Apr2018		JKR 18 Apr 2018	19 Apr 2018
E	ECN 19-034 – Removal of PREDATAIR name - new manifold, solenoid, and kit numbers.	NSE 13MAR2019	MRH 20 MAR 2019	NAC 21 MAR 2019	25 MAR 2019

VMAC – Vehicle Mounted Air Compressors

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