

Product Information News

ICM™ 2000 / QUICKFILL® INSTALLATION INSTRUCTIONS

MSA has changed its recommended installation procedures for the installation of the ICM 2000 unit onto QuickFill Shoulder-mounted manifold assemblies.

The changes are 1) the addition of Loctite 271 to the threads of the ICM unit and 2) an increase torque of the jam nut to 200 – 225 in-lbs. Jam nuts are not to be reused.

MSA recommends that all ICM / QuickFill combinations be modified at the time of the SCBA's annual inspection to reflect this new installation procedure.



Be Sure.
Choose MSA.

MINE SAFETY APPLIANCES COMPANY
PITTSBURGH, PENNSYLVANIA, U.S.A. 15230

ICM 2000 / QUICK FILL INSTRUCTION

REMOVING THE ICM



⚠ WARNING

Do not disconnect the alarm coupling nut when pressure is shown on the harness gauge. Always be sure that you have released all pressure from the regulator. Removing the coupling nut with the regulator pressurized may result in serious personal injury or death.

Note: All repair procedures assume that the alarm assembly is disconnected from the apparatus cylinder.

1. Be sure the cylinder valve is completely closed.
2. Be sure that nothing blocks the regulator outlet. Open the bypass valve to relieve pressure in the system.

REMOVING ICM FROM THE QUICK FILL ADAPTER BLOCK.

1. Use a wrench to hold the Quick Fill Adapter Block or place Quick Fill Adapter Block in a vise using protective sleeves to keep from damaging the block.

2. Hold Quick-Fill Block with 5/8-inch wrench and slide the other wrench over Jam Nut and loosen Jam Nut counter clockwise.



3. Unthread ICM unit from Quick Fill Adapter Block.

4. Remove and discard the Jam Nut.

Note: Do not reuse the jam nut. Dispose of it immediately. Failure to follow this instruction could result in personal injury

CLEANING

1. Apply alcohol to a Q-Tip applicator.
 - a. Wipe threads on ICM unit and wipe Jam Nut (Dull Surface Finish).
 - b. Wipe threads of ICM port of Quick-Fill Block.
2. Let alcohol Dry for 15 seconds.

INSPECTION

1. Inspect the threads of ICM unit, Jam Nut, and Quick-Fill Block for any damage.

SPOOL

Note: If your apparatus is equipped with the Quick-Fill System and the ICM unit, it will have the Spool included. Make sure Spool is in the ICM unit.

1. Check that the spool is present in the ICM unit. If the spool is in the Quick-Fill Adapter Block, remove spool from Quick-Fill Block.
2. Inspect spool for damage. Replace O-Rings (P/N 638167) and Back-up Rings (P/N 63527). Apply a thin film of Christolube lubricant to O-Rings and Back-Up Rings.

⚠ CAUTION

Only apply a thin film of lubricant to O-Rings and Back Up Rings. Not to Spool.

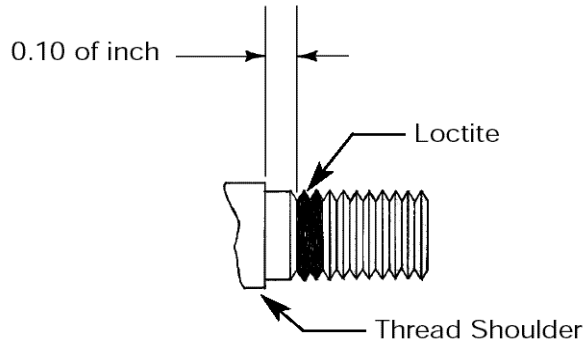
3. Insert the spool into the ICM unit. The spool's larger-diameter hole must face toward the ICM unit.



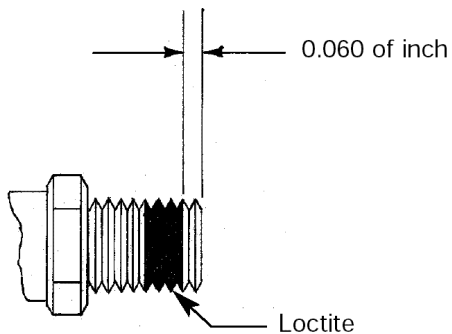
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REASSEMBLY

1. Apply Loctite 271 on two threads approximately a tenth (0.10) of an inch from the thread shoulder of ICM unit per view shown.



2. Thread the NEW jam nut (P/N 10003606 Dull Surface Finish) against the thread shoulder of the ICM unit. Apply Loctite 271 to three threads approximately one-sixteenth (0.060) of an inch from the end of the ICM unit.



3. Thread ICM unit in to Quick Fill Block until it stops. The Quick-Fill Block must be oriented with the coupling as shown in the figure below. To obtain this alignment. Unthread ICM unit not more than one full turn. Hold the ICM unit to prevent turning. Tighten the new jam nut against the Quick Fill Adapter Block and torque to 200 - 225in.lbs with a thin crowsfoot wrench.



LEAK TESTING

Checking for leaks and proper operation

1. Follow the User's Instructions supplied with the Air Masks to connect the alarm to a fully-charged cylinder
2. Check that the bypass is closed.
3. Open the cylinder valve fully. The remote gauge should indicate the pressure in the cylinder.
4. Close the cylinder valve and watch the remote gauge. If the gauge needle drops more than 100 psi. in 10 seconds, check the Quick-Fill components for leaks using leak-detection solution. Correct any leaks before using this apparatus
5. Be sure the cylinder valve is fully closed. Open the bypass valve to relieve all pressure from the system.
6. After all pressure is relieved from the system, close the bypass valve completely.
7. The Air Mask is now ready for service.