



Making Your Job More Enjoyable

MANIFOLD GAUGE
NRM1B
Series
User Manual



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Failure to follow warnings could result in death or serious injury.

**SAVE THIS MANUAL
FOR FUTURE REFERENCE**

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Dear User,

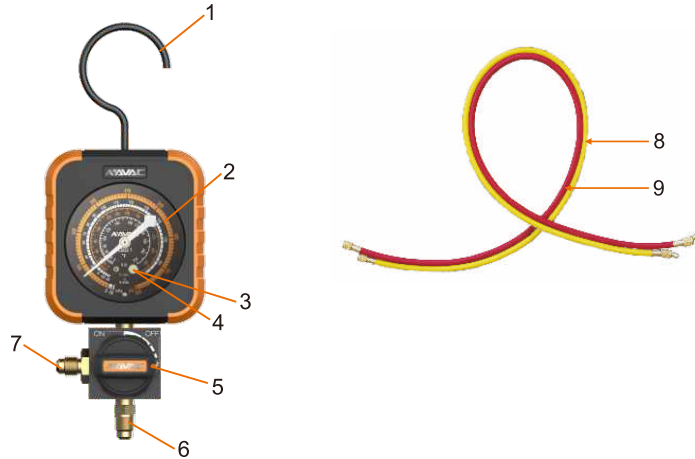
Thank you for choosing NAVAC Product. For best result and right way to use it, please read this operating manual carefully before using. We suggest that you'd better keep this manual with the product or a place where you can easily find for later reference.

Safety guide

WARNING

1. The manifold has been designed specially to measure pressure in refrigeration equipment. The manifold may only be used by trained technicians.
2. It must not be used for other than refrigeration applications. The manifold is not suitable for liquids or gases other than those indicated on the gauge.
3. It must not be used with pressures higher than the pressure scale indicated on the high-pressure gauge of the manifold.
4. Safe goggles and gloves must be worn at all time during the use of the manifold.
5. The gauges are correctly calibrated at the factory before shipment. If calibration is required, remove the lens. Insert a straight blade screwdriver into the adjusting screw on the gauge face.
6. Clean up the connection interfaces in order to prevent contamination entering to refrigeration system.
7. The charging hoses must be checked with oil residue cleaned off before each use. A visible check is also necessary to ensure that the hoses and the connection are undamaged and tight.
8. Do not contact refrigerant directly as it may cause personal injury.
9. Do not vent refrigerant into the atmosphere.
10. The seals and gaskets of the manifold gauges are parts subject to the wear and tear of use, and must therefore be replaced from time to time. The manifold is to be tested regularly to ensure the valves are still tight.
11. Make sure to use the right pressure gauge.
12. Manifolds are high precision measuring instruments. After use, disconnect all hoses from the system and open valves and then store the manifold always in the carrying case.
13. Dispose of the used manifold gauges according to the local rules and regulations.

Parts and specifications



NO.	Name	NO.	Name
1	Hook	6	Connect to system
2	Gauge	7	Connect to vacuum pump
3	Cap	8	Yellow hose
4	Zero adjusting screw	9	Red hose
5	Valve		

Technical parameter

Model		NRM1B0201	NRM1B0301
Refrigerant Type		R-22, R-134a, R-410A	R-22, R-404A, R-410A
Gauge Diameter	in	Φ2-5/8	Φ2-5/8
Pressure Range	psi	-30 inHg to 800 psi;	-30 inHg to 800 psi;
Hose	in	Red&Yellow 1/4"-1/4"	Red&Yellow 1/4"-1/4"
Standard Length	ft	2x5'	2x5'

4. Operation Instrucion

1. Pressure testing

- 1.1 Close valve.
- 1.2 Connect yellow or red hose to the system.
- 1.3 Running the system, read the testing pressure indicated on manifold gauges.
- 1.4 After testing, turn off the system. Then disconnect the hoses from the system and open valve, make sure not vent refrigerant into the atmosphere.
- 1.5 In order to prevent venting the refrigerant into the atmosphere, you can use a NAVAC recovery machine to recover any refrigerant remained the hoses or manifold gauges.

2. Evacuation of a system

- 2.1 Connect red hose to the system and connect yellow hose to vacuum pump.
- 2.2 Open valve.
- 2.3 Turn on the vacuum pump.
- 2.4 Check pressure for 3 to 5 minutes, if vacuum reached, close valve, then turn off the vacuum pump.
- 2.5 Observe the pressure on the gauge if the pointer is at "-30inHg" for three to five minutes, the evacuation of a system is success, If not, repeat the steps from 4.2.2 to 4.2.4.

3. Charging of a system after evacuation

- 3.1 Keep valve closed, disconnect the yellow hose from the vacuum pump and connect this hose to a refrigerant container.
- 3.2 Open valve on refrigerant container.
- 3.3 Open valves. The system is now being charged with refrigerant. Check the correct quantity of refrigerant with a charging scale for example the NRS2i01 and observe the pressure on the gauge. If the flow of the refrigerant is too slow or insufficient the compressor of the unit can be turned on to speed up the process.
- 3.4 If the correct charging quantity has been reached, close valves.
- 3.5 After testing, turn off the system. Then disconnect the hoses from the system and open all valves and then make sure do not vent refrigerant into the atmosphere.
- 3.6 In order to prevent venting the refrigerant into the atmosphere we can use a NAVAC recovery machine to evacuate any refrigerant remained in the hoses or manifold gauges.

Maintenance

- 1.1 Please do not overexert when turning valves.
- 1.2 Manifolds are high precision measuring instruments. After use, store manifold gauges always in the carrying case.
- 1.3 For overhaul and repair of the manifold, contact an authorised NAVAC distributor or contact with NAVAC Inc. directly. It will be out of warranty if the product disassembled by unauthorized individuals.
