

PURPOSE

This document describes two methods for cleaning vacuum sensors.

CLEANING THE VACUUM SENSOR

There are two cleaning methods: a Quick Cleaning Method and a Deep Cleaning Method. These methods cover how to clean the vacuum sensor in the OMNI™ Digital Vacuum Gauge, YJACK VAC® Vacuum Gauge, and TITANMAX® Wired Vacuum Sensor. The Deep Cleaning Method works for all models. The Quick Cleaning Method is recommended for OMNI™ Digital Vacuum Gauges from 2021 and newer as well as all YJACK VAC® Vacuum Gauge and TITANMAX® Wired Sensors.

QUICK CLEANING METHOD

Use the Quick Cleaning Method for the following devices:

- OMNI™ Digital Vacuum Gauge (69020/69021): Serial Numbers 2120XXXX and Newer (Larger #)
- YJACK VAC® Vacuum Gauge (67066): All Serial Numbers
- TITANMAX® Wired Vacuum Sensor (67044): All Date Codes

Tools Required



- Small Screwdriver or Tweezer
- Rag
- Electronic Contact Cleaner
(Recommend Cleaners:
1. CRC QD® Electronic Cleaner or
2. MAX Pro® Contact Cleaner)

Cleaning the Sensor

STEP 1 In the vacuum gauge's brass adapter, locate the brass core depressor in the gasket.



Brass Core
Depressor

STEP 2 Insert a small screwdriver or tweezer through the slot in the core depressor. Carefully pry out the core depressor.

NOTE: Make sure not to lose the core depressor, as it will be replaced later.



STEP 3 Hold the vacuum gauge angled downward with the brass adapter at the bottom. Hold a rag under the brass adapter to catch the electronic contact cleaner as it comes back out.



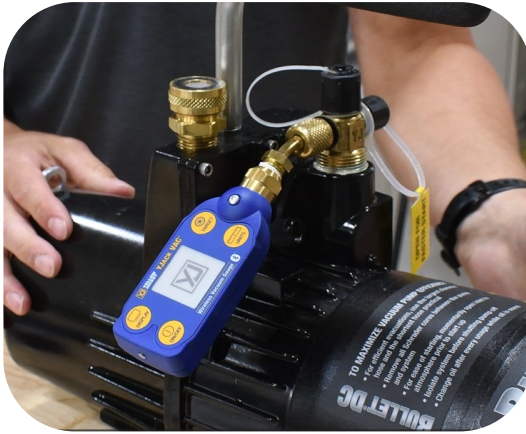
- STEP 4** With the extension tube connected to electronic contact cleaner's nozzle, insert the extension tube into the brass adapter past the 45° angle to get the spray closer to the sensor.



- STEP 5** Spray the electronic contact cleaner into the brass adapter for 3–4 seconds. Excess fluid will spill out of the adapter onto the rag.
- STEP 6** Still holding the vacuum gauge at a downward angle, remove the cleaner's extension tube and let the sensor drip dry for 5–10 seconds.
- STEP 7** Repeat STEP 4–STEP 6 two more times.
- STEP 8** After three cleaning/drying cycles, replace the brass core depressor.
- NOTE:** This is a good time to check and replace the gasket, if needed (part # 19020).



- STEP 9** Connect the vacuum gauge to a vacuum pump. Verify the micron reading drops to a level that matches your vacuum pump's specifications. If the sensor is still contaminated, the microns will remain at an abnormally high level.



DEEP CLEANING METHOD

Use the Deep Cleaning Method for the following devices:

- OMNI™ Digital Vacuum Gauge (69020/69021): All Serial Numbers
- YJACK VAC® Vacuum Gauge (67066): All Serial Numbers
- TITANMAX® Wired Vacuum Sensor (67044): All Date Codes

NOTE: Use the Deep Cleaning Method if the Quick Cleaning Method doesn't clean the vacuum gauge sufficiently.

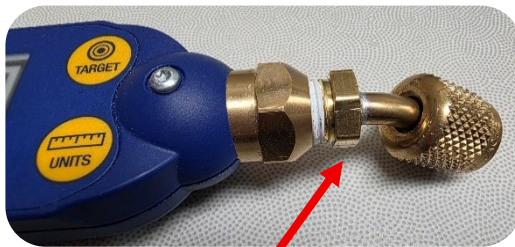
Tools Required



- 9/16" Torque Wrench
- 3/4" Wrench
- Eye Dropper
- Isopropyl Alcohol (or Electronic Contact Cleaner for Newer Models)
- Rag
- PTFE Thread Tape

Cleaning the Sensor

NOTE: If the vacuum gauge is still contaminated, you will need to remove the brass swivel quick-coupler fitting to reach the vacuum sensor easily.



Quick-Coupler Fitting

- STEP 1** Place a 3/4" wrench over the brass body on the vacuum gauge. Then, using a 9/16" wrench, unscrew the quick-coupler fitting from the vacuum gauge.



- STEP 2** Place the quick-coupler fitting on a rag.



- STEP 3** Drip isopropyl alcohol into the brass adapter with an eyedropper.

NOTE: For the OMNI™ Digital Vacuum Sensor, YJACK VAC® Vacuum Gauge, and TITANMAX® Wired Vacuum Sensor newer than 2120XXXX, electronic contact cleaner may be used.



STEP 4 Cover the hole with your finger and shake vigorously for 45–60 seconds.



STEP 5 Drain the cleaner from the vacuum gauge. Let the sensor drip dry for 5–10 seconds.



STEP 6 Repeat STEP 3–STEP 5 two more times.

STEP 7 After three cleaning/drying cycles, remove the old thread tape from the quick-coupler fitting.

STEP 8 Apply new thread tape around the quick-coupler's threads.

NOTE: The PTFE tape should be wound in the direction of the thread beginning with the first thread. PTFE tape should never extend beyond or overhang the first thread.



STEP 9 Place a 3/4" wrench over the brass body on the vacuum gauge. Then, using the 9/16" torque wrench, tighten the quick-coupler fitting back onto the vacuum gauge. (Tighten the fitting to 98 in-lbs.)



STEP 10 Connect the vacuum gauge to a vacuum pump. Verify the micron reading drops to a level that matches your vacuum pump's specifications.



STEP 11 If the vacuum level does not improve, try again. This time leave the isopropyl alcohol to soak for 30 minutes, shake it, and dump it out. Then, repeat the normal cleaning process.



Vacuum Sensor Cleaning

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Page: 9 - 9

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