

Quest 506-230v: #4036600

Quest 506-277v: #4036610

OVERVIEW:


Some Quest 506 can make a high pitch whistle noise which is caused by varying distances of the fan and inlet ring. Moving the blower can tune out the noise. Please note that the fan is moving a significant amount of air. Because of this the unit will always make noise but the high pitch whistle is possible to tune out.

TESTING TO CONFIRM ISSUE:

Fan noise can be caused by several issues, but this document is only to solve a whistle noise. This does not solve fan rubbing or bearing noise. Follow these steps to confirm an air whistle.

1. Turn fan on and confirm a high pitch whistle noise is present.
2. Fully block the intake air flow. A piece of cardboard or plastic sheet works well.
3. If the noise goes away the issue is caused by a whistle. If not, the fan bearing is bad, or fan blade is rubbing on the inlet ring.

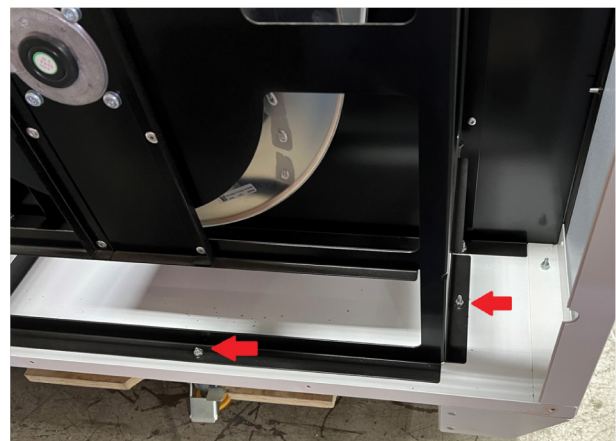
REMOVE REAR EXHAUST PANEL:

 **!!CAUTION!!** Removing panels can cause the unit to fall if hung. Support the unit from the bottom when performing repairs.

1. Unplug unit from power source.
2. Support unit from the bottom. Ratchet straps or scaffolding works well.
3. Remove side access panel. T25 torx bit.
4. Remove exhaust panel. 15 screws for panel and 8 for green handle pocket.
5. Depending on mounting, all thread that supports the unit may need to be removed to remove the panel.

THERE ARE 3 DIFFERENT METHODS OF REPAIR:

- Mounting studs: Loosen 2 bottom mounting nuts. Push or pull the fan bracket to change fan distance. Tighten fan nuts. Turn fan back on to see if noise goes away



- Fan bracket: Loosen 2 bottom mounting nuts and 4 mounting screws. Place spacers on left and right side and tighten all fasteners. Turn fan back on to see if noise goes away.



- Inlet ring: Remove fan and bracket to gain access to inlet ring. Place foam tape on edge of inlet ring. Reinstall fan. Turn fan back on to see if noise goes away.



Reinstall exhaust and access panel and retest unit.