

## Subject

Low speed throttle adjustment in VMAC Diesel Drive air compressor systems

### SYSTEM OR PARTS AFFECTED

- D600003 Diesel Drive 60 cfm compressor system.
- D600004 Diesel Drive 60 cfm compressor system with cold climate kit.
- D600017 Diesel Drive 60 cfm compressor system, white body panels.
- D600018 Diesel Drive 60 cfm compressor system, white body panels, with cold climate kit.

### OVERVIEW

Diesel Drive 60 compressor systems with stalling issues frequently have a low rpm throttle setting that is too low.

Following is instruction to adjust low speed throttle on Diesel drive units to the current specification.

### PROCESS

#### Confirm low speed engine rpm

Start the unit, allowing the compressor to build to 150 psi and then allowing the engine to drop in rpm to low speed. Using the NEXT/BACK buttons on the display box keypad, find the engine rpm screen.

Make a note of the engine rpm.

- If the engine rpm is 2,900 rpm +/- 50 rpm, it is within specification. Contact VMAC Product Support if you experience stalling issues.
- If the engine rpm is lower than 2,850 rpm, continue to the instruction that follows.

#### Throttle adjustment

1. Ensure all air pressure is drained/discharged from the system.
2. Remove the top and rear panels.
3. Disconnect the ground cable from the negative post of the battery.
4. Remove fan guard (Figure 1).

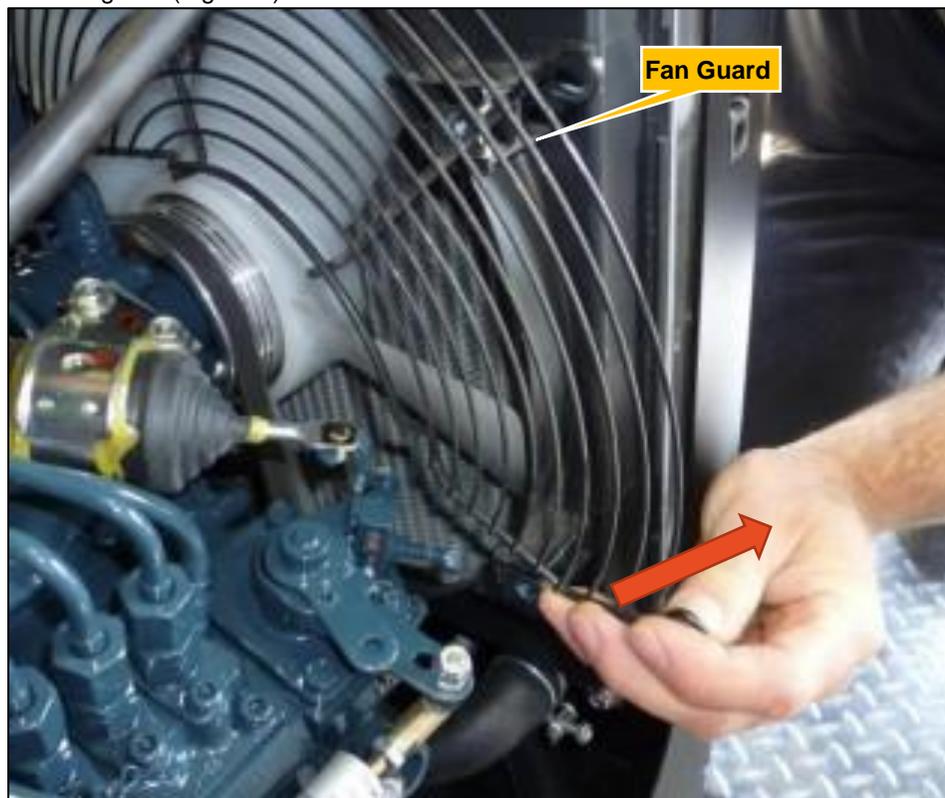


Figure 1

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- Remove the locking wire from the throttle setting screws (Figure 2).



Figure 2

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6. Loosen the locknut on the lower throttle adjustment bolt and turn the bolt clockwise 1/8 turn to raise the engine rpm and tighten the throttle adjuster bolt locking nut (Figure 3).

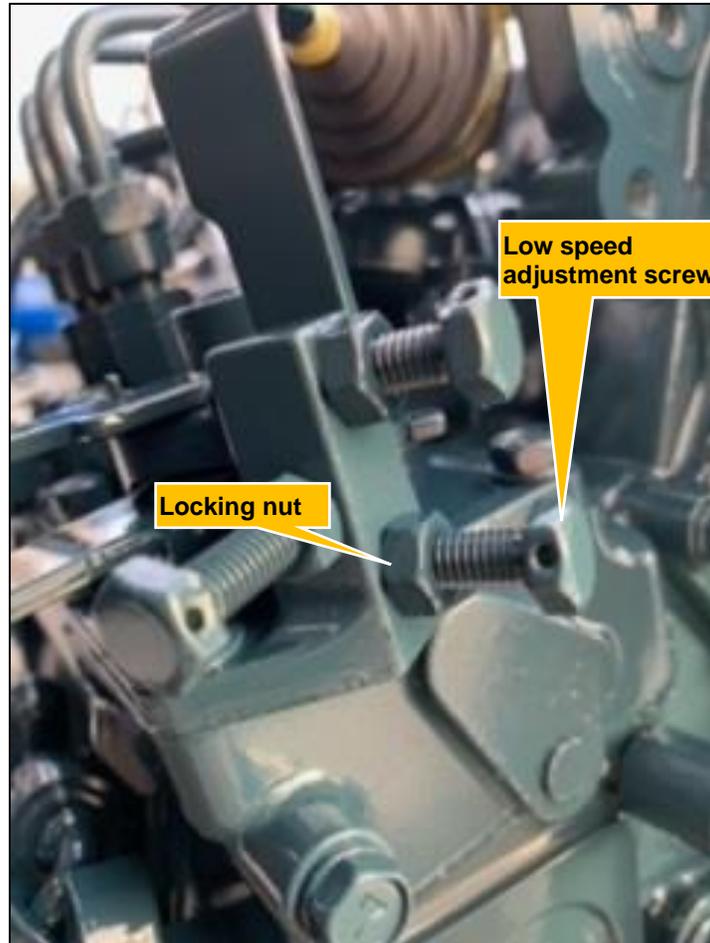


Figure 3

7. Reconnect the battery cable to the battery post.
8. Start the unit, allowing the compressor to build to 150 psi and the engine to drop in rpm to low speed. Using the NEXT/BACK buttons on the display box keypad, find the engine rpm screen. Make a note of the new engine rpm.
  - i. If the engine rpm is 2,900 rpm +/- 50 rpm go to step 14.
  - ii. If the engine rpm is not 2,900 rpm +/- 50 rpm turn the unit off.
9. Ensure all air pressure is drained/discharged from the system.
10. Disconnect the ground cable from the negative post of the battery.
11. Loosen the locknut on the lower throttle adjustment bolt and turn the bolt clockwise as necessary to raise the engine rpm, or counter-clockwise to reduce engine rpm, and tighten the throttle adjuster bolt locking nut.
12. Reconnect the battery cable to the battery post.
13. Start the unit, allowing the compressor to build to 150 psi and the engine to drop in rpm to low speed. Using the NEXT/BACK buttons on the display box keypad, find the engine rpm screen. Make a note of the new engine rpm.
  - i. If the rpm value is not 2,900 rpm +/- 50 rpm, repeat the steps above until the desired engine rpm is achieved.
14. Re-install the fan guard. Refit the panels and use Loctite 242© (blue) on all fasteners.

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