

## Subject

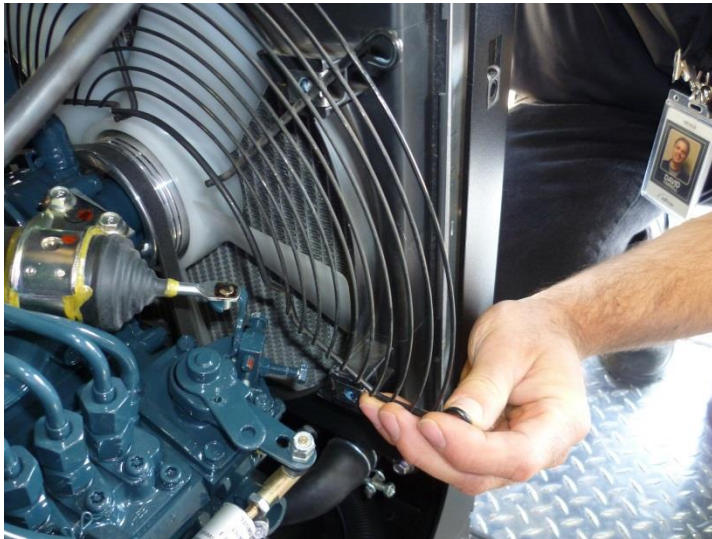
Setting Correct Base Idle RAPTAIR D600001AH - 2AH

## System or Parts affected

- These instructions pertain to RAPTAIR models: D600001 and D600002 built prior to August 2012

## Resolution:

1. Disconnect battery.
2. Remove fan guard.



(Figure 1.1)

3. Remove throttle setting screws locking wire.



(Figure 1.2)

Document	Version	Department	Revision Details	Revised by	Tech	Engineering	Implemented
EXT-D60-050	A	Tech	Document Release	SP 10 Feb 2015	RD 10 Dec 2014	SC 10 Dec 2015	7 May 2015
EXT-D60-050	B	Tech	Format Change	SP 13 Jul 2015	N/A	N/A	13 Jul 2015

Subject
Setting Correct Base Idle RAPTAIR D600001AH - 2AH

4. Loosen locknut and remove low idle screw.



**(Figure 1.3)**

5. Remove the locknut and replace with the thinner VMAC locknut (Part# 1560523). If this is not available grind the OEM locknut thickness to 1/8 inch (3.00 mm).

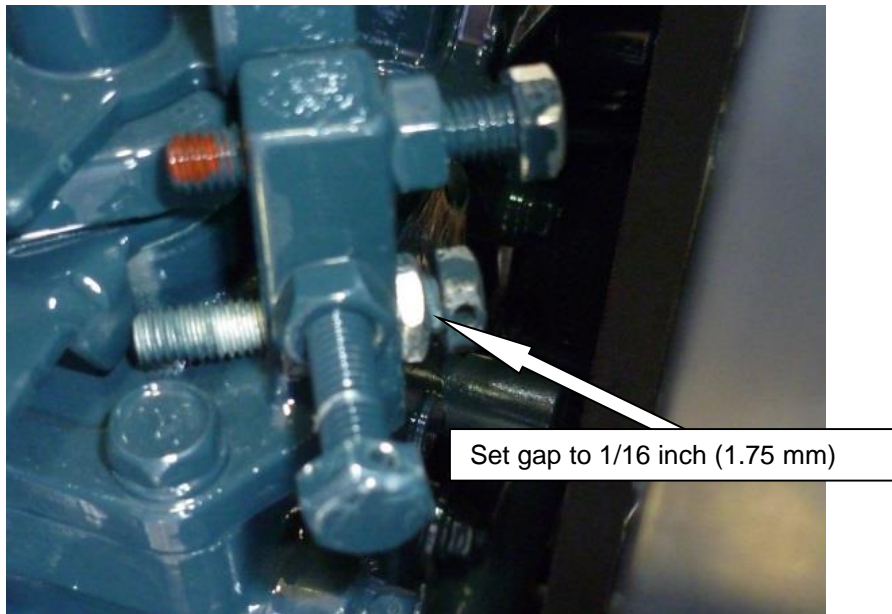


**(Figure 1.4)**

6. Refit the idle adjustment screw with the new locknut.
7. Set the distance between the new locknut and the head of the screw in the first instance to 1/16 inch (1.75mm). (Figure 1.5)

Document	Version	Department	Revision Details	Revised by	Tech	Engineering	Implemented
EXT-D60-050	A	Tech	Document Release	SP 10 Feb 2015	RD 10 Dec 2014	SC 10 Dec 2015	7 May 2015
EXT-D60-050	B	Tech	Format Change	SP 13 Jul 2015	N/A	N/A	13 Jul 2015

Subject
Setting Correct Base Idle RAPTAIR D600001AH - 2AH



(Figure 1.5)

8. Tighten locknut.
9. Install the test tool (1/16 inch orifice) with the pressure gauge to the air discharge fitting on the storage tank. Ensure the tank is discharged and the test tool ball valve is closed.
10. Refit the service panel to facilitate starting. Start the engine and once the start cycle is complete set the display panel to show the RPM using the "NEXT" or "BACK" key.
11. Once the pressure has built to 150psi and the idle has dropped to the unload idle speed (approximately 2400 rpm) shut the engine off and using small increments turn the low idle screw *clockwise* to increase idle to 2500 rpm and re-tighten locknut.  
**\*Note:** DO NOT adjust idle while engine is running. Shut down engine and make small adjustments before securing locknut and testing.
12. Once idle is set run the system and test loaded idle speed rpm. This is done by cracking open the ball valve to drop to between 145 – 120 psi (we do not want to increase engine speed so open the ball valve slowly) giving us the lowest possible engine speed where the unit is most likely to stall. The unit should now be running about 2300 rpm.

Refit lock wire and use Loctite 242® (blue) on fasteners.

Document	Version	Department	Revision Details	Revised by	Tech	Engineering	Implemented
EXT-D60-050	A	Tech	Document Release	SP 10 Feb 2015	RD 10 Dec 2014	SC 10 Dec 2015	7 May 2015
EXT-D60-050	B	Tech	Format Change	SP 13 Jul 2015	N/A	N/A	13 Jul 2015