

# Technical Information Sheet

## Replacement Ford 4 Cylinder Short Motor

### VPB8025 & VPB8026

Bulletin	UK	Export	Issued
PZA3695	Yes	Yes	01/03/2015

Thank you for purchasing this Vapormatic short motor, please read the following information supplied with this bulletin. Please note, it is advised that your installed engine is registered with Vapormatic via our website, please read the 'Registration' section of this bulletin.

For your convenience we have documented the torque settings for building this short motor in to a complete engine.

Please note that failure to adhere to the following points will invalidate your warranty:

- This engine must be fitted with a new oil pump.
- This engine must be fitted with new engine oil and a new filter.
- It is highly recommended that the air induction system is serviced by either fitting new air filters, or in the case of an oil bath type system the oil is renewed and the metal gauze is cleaned of any contamination.

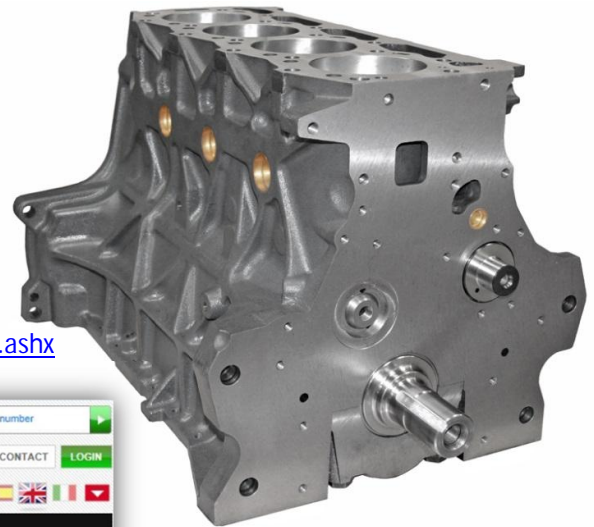
Important service information after first 50 hours use:

- The engine oil and filter must be changed on the first 50 hours of use.
- The cylinder head nuts or bolts must be re-torqued on the first 50 hours of use, specifications for which can be found below in this technical bulletin.
- The Valve clearances must also be checked on the first 50 hours of use, specifications for which can be found below in this technical bulletin.

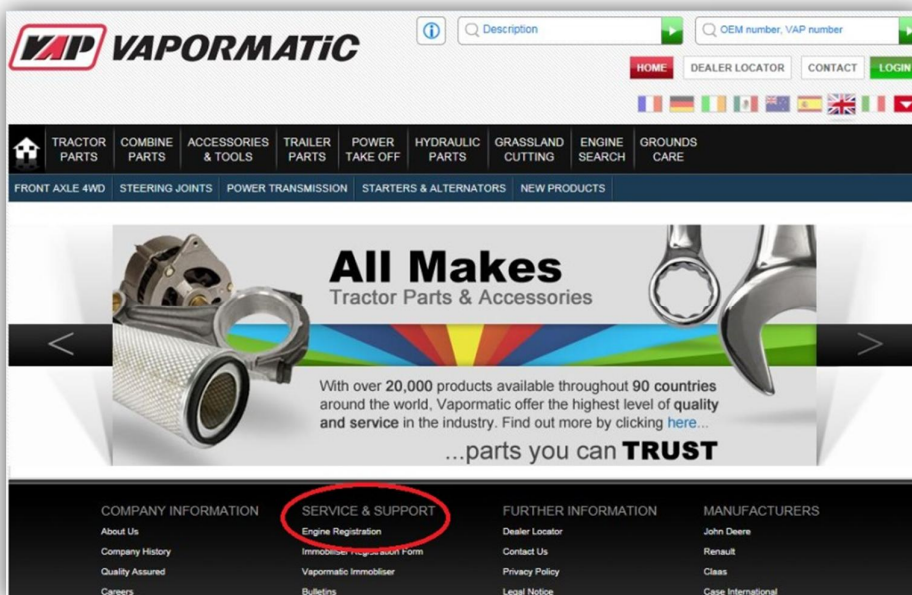
We strongly recommend that you retain any receipts for the above for warranty purposes.

Technical Data:

Area	NM	lbs/ft
Cylinder head bolt torque	150	110
Cylinder head nut torque	150	110
Flywheel	150	110
Inlet valve clearance	0.43mm	0.017in
Exhaust valve clearance	0.53mm	0.021in



Engine Registration: <https://vapormatic.com/support/warranty-engine.ashx>



The screenshot shows the Vapormatic website interface. At the top, there is a search bar and navigation links for HOME, DEALER LOCATOR, CONTACT, and LOGIN. Below this is a horizontal menu with categories like TRACTOR PARTS, COMBINE PARTS, ACCESSORIES & TOOLS, TRAILER PARTS, POWER TAKE OFF, HYDRAULIC PARTS, GRASSLAND CUTTING, ENGINE SEARCH, and GROUNDS CARE. A large banner features the text 'All Makes Tractor Parts & Accessories' and '...parts you can TRUST'. At the bottom, a footer contains 'COMPANY INFORMATION', 'SERVICE & SUPPORT' (highlighted with a red circle), 'FURTHER INFORMATION', and 'MANUFACTURERS'.

Please fill in the registration form located under the heading 'Service & Support' at the bottom of our main website page.



All Vapormatic quality replacement parts carry an industry leading 12 month parts and labour warranty. For further information on specific items please visit:

[www.vapormatic.com](http://www.vapormatic.com)

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#### Balancer unit timing

All crankshafts installed in these Short Motors are produced with a 76 tooth, 15.4mm wide balancer drive gear as per the later specification BSD444 engines. For earlier 78 tooth, 12mm wide balancer drive gear crankshafts, replacement balancer weights will be required to be fitted;

- VPD1614 Right Hand Balancer weight (15.4mm wide)
- VPD1615 Left Hand Balancer weight (15.4mm wide)

To time these balancer units to the crankshaft please follow these instructions: (*engine balancer units rotate twice the speed of the engine crankshaft*)

1. Rotate the engine until number one piston is at TDC (*top dead centre*)
2. Standing at the flywheel end of the engine, locate the centre dot on the balancer drive gear, marked in yellow see fig 1
3. Mark the tooth on the drive gear with some chalk so it can be seen from the front of the engine.
4. Locate the timing mark (dot) on the balancer driven gear, *if the balancer is on the bench then the weights should be flat in the balancer unit.*



Fig 1



Fig 2

5. Install the balancer unit aligning the two marks, see fig 2
6. Rotate the crankshaft two full turns and check that the timing marks align.

