PROGATE SPRING UPGRADE KIT INSTRUCTIONS

IMPORTANT NOTES ON FITTING YOUR PROGATE SPRING UPGRADE KIT

Turbosmart recommends that this kit is fitted by an appropriately qualified technician.

Please visit the Turbosmart web-site www.turbosmart.com.au for the latest updates on fitting this product.

Fitting this Progate Spring Upgrade Kit to your wastegate allows the tuner to add a 7 psi inner wastegate spring to the existing 7, 10 or 14psi outer wastegate springs. By using combinations of these 4 springs the following base boost pressures can be achieved

Boost Pressure	7 psi	10 psi	14 psi	17 psi	21 psi
Progate 7 psi Inner				•	•
Progate 7 psi Outer	•				
Progate 10 psi Outer		•		•	
Progate 14 psi Outer			•		•

PACKING LIST

Please check that the following items have been supplied in your Progate Spring Upgrade Kit.

QTY	Part Number	Description	
1	RM-AKEY-5MM	5mm Allen Key	
1	FG-WG-SPANNER	Wastegate Valve Spanner	
1	MP-WG-DIASUP-UP	Upper Diaphragm Spring Support	
1	MP-WG-DIASUP-LW	Lower Diaphragm Support	
1	RM-WG45-SPNG-07IN	Progate 7 psi Inner Spring	
1	RM-WG45-SPNG-10	Progate 10 psi Outer Spring	
1	RM-WG45-SPNG-14	Progate 14 psi Outer Spring	
1	RM-WG-M6GLOCK-SS	M6 GlennLock Nut	
2	RM-WG-M6X25SHCS-SS	Screws for Vee-Band	
2	RM-WG45-M6NUT-SS	Nuts for Vee-Band	

WASTEGATE SPRING INDENTIFICATION

To aid in the identification of these springs they are supplied colour coded. If this colour coding is not clear please use the dimensions in the following table to identity the wastegate spring.

Part Number	Spring Type	OD	Length	Wire Diameter	Colour
RM-WG45-SPNG-07IN	Progate 7 psi Inner	36.5mm	78.0mm	3.15mm	ORANGE
RM-WG45-SPNG-07	Progate 7 psi Outer	45.0mm	91.0mm	3.15mm	GREEN
RM-WG45-SPNG-10	Progate 10 psi Outer	44.0mm	96.0mm	3.50mm	YELLOW
RM-WG45-SPNG-14	Progate 14 psi Outer	45.0mm	90.0mm	4.00mm	RED

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FITTING YOUR PROGATE RETROFIT KIT

Please thoroughly read and understand these fitting instructions before commencing this installation

- Remove the Progate from the exhaust manifold. Use CAUTION! the wastegate may still be HOT!
- **2.** Using the supplied 5mm Allen Key, remove the 6mm Allen head screws that secure the upper wastegate cap.

WARNING! The cap is under spring tension, wear safety glasses and remove with care!



3. Remove the wastegate spring and inspect the upper diaphragm spring support.

If your wastegate is fitted with a billet machined upper diaphragm spring support as pictured below, you do not need to replace the upper and lower diaphragm spring supports. Proceed to step 13.



4. If your wastegate is fitted with a pressed upper diaphragm spring support as pictured below, proceed to the next step. (Step **5.**)





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5. Lock the wastegate valve by locating the pins on the wastegate spanner on the top of the wastegate valve as shown below.



6. Remove the M6 GlennLock nut using a 10mm wrench or spanner and discard.

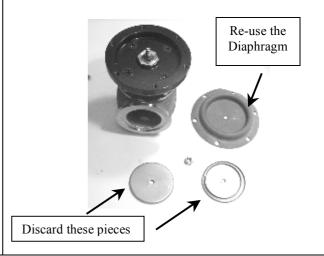


7. Remove the pressed upper diaphragm spring supports and discard. Carefully remove the wastegate diaphragm.

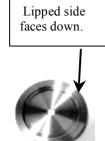
CAUTION! Do to tear or damage the diaphragm as it must be re-used when re-assembling your Progate.



8. Remove the pressed lower diaphragm spring support and discard.



9. Fit the new billet machined lower diaphragm support with the smooth side up and the lipped side facing down.





10. Refit the wastegate diaphragm, smooth side down, with the moulded roll facing upwards as shown below.





PART NUMBER

PROGATE SPRING UPGRADE KIT INSTRUCTIONS

11. Fit the new billet machined upper diaphragm spring support, smooth side down, with the grooved surface facing upwards.



12. Fit the new M6 GlennLock nut using Loctite or a similar thread locking product.

Lock the wastegate valve again using the wastegate spanner and tighten the M6 GlennLock nut to a torque of 5 N-m (3.7 lb-ft) using a tension wrench.



13. Align the six holes on the outer ring of the wastegate diaphragm with the 6 holes in the lower wastegate cap.



14. Select and fit the required wastegate spring or springs to the upper diaphragm spring support.

See (spring info) for information on wastegate spring identification.



15. Refit the upper wastegate cap re-using the 6mm Allen head screws. Use Loctite or a similar thread locking product on these screws.

Ensure that the diaphragm remains correctly aligned.

Tighten the 6mm Allen head screws using the supplied 5mm Allen Key, or suitable tool, and torque to 8 N-m (5.9 lb-ft)

16. Refit the wastegate to the exhaust manifold using the supplied screws and nuts if required.

PART NUMBER

WARRANTY

Turbosmart warrants its products to be free from faults or defects for the life of the product. *

* Subject to Turbosmart trading terms and conditions

WARNING!

Incorrect use of this product may result in damage to your vehicle. Failure to observe any notes or recommendations may result in incorrect use of this product. This product is intended for use in off-road racing only. Turbosmart will accept no responsibility for the incorrect use of this product.

DISCLAIMER!

Turbosmart will not be held responsible for any damage caused to property or person, directly or indirectly related to the use of any Turbosmart products.

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We sometimes make mistakes, as do our dealers, distributors and suppliers. Even customers can sometimes order the wrong parts. Do not use, modify, install, trial assemble, nick, drop, scratch or adjust any part until you first check for any damage. Damage must be reported immediately. NO EXCEPTIONS. If there are any components missing please contact your authorised reseller immediately upon receipt of your shipment. Missing components must be reported within five (5) business days of receipt. Parts returned for any reason MUST BE IN RESALABLE CONDITION. It is YOUR responsibility, "THE CUSTOMER" to carefully package any returns to avoid shipping damage. Insurance is highly recommended. Credit cannot be issued for damaged goods.

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All warranty claims must be returned to the authorised reseller, you must return the product and sales receipt, at your own expense, accompanied by a letter stating the reason for the claim. Proof of purchase must be provided with any warranty claim and will be verified with the authorised reseller from which the product was purchased.

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