

# **MIDDLEBURN**

*components*

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## **FITTING INSTRUCTIONS FOR RS8 X-TYPE**

Validity of warranty and desired performance of this product is dependant on correct assembly and maintenance. As such we strongly recommend that you have a professional bicycle shop install the component. However, whether or not you fit the cranks/Chainset yourself please take the time to read and understand these instructions fully

- 1:** The **RS8 X-TYPE** is designed to work with bottom brackets with a 24mm ID (Shimano or equivalent)
- 2:** The Left crank arm and bottom bracket spindle are assembled in our factory as one unit and is designed not to be disassembled.
- 3:** Fitted to the Left crank assembly is an adjusting ring this should be fully home against the crank arm before fitting the crank (if unsure slacken the 2.5mm Allen key bolt in the adjusting ring and turn the adjusting ring clockwise).
- 4:** The crank arm is now ready to fit, slide the left hand crank assembly in from the left side of the bicycle until the adjusting ring comes into contact with the bottom bracket bearing.
- 5:** The right hand crank complete with spider fit on to axle and tighten the 8mm Allen key bolt 45 - 50 Nm (to 33.2 - 36.9 ft lbs)
- 6:** Once the crank is fitted to the axle push the right hand crank back against the right hand bearing in the bottom bracket
- 7:** On the left hand cranks now unscrew the adjusting ring (anti clockwise) towards the bottom bracket. This adjusts any play between the crank and bottom bracket. Once adjusted tighten the 2.5mm Allen key to 1.0 - 1.2 Nm (8.7 - 10.4 in lbs)
- 8:** Your cranks are now fitted and ready to ride
- 9:** Removal of the cranks. Undo the 8mm crank bolt on the right hand crank arm (this is a self extract bolt) and the crank will pull off.  
To refit the cranks start at point 3.

## **TOOLS REQUIRED**

To remove spider use Shimano Lock ring Tool TL UN-96  
Lock ring thread to crank arm use Loctite 243 Thread locker Compound torque to 25.8 - 29.5 Nm (35 - 40 Ft lbs)  
Adjusting ring use Allen key 2.5mm Torque to 1.0 - 1.2 Nm (8.7 - 10.4 in lbs)  
Right hand crank bolt use 8mm Allen key. Torque to 45 - 50 Nm (to 33.2 - 36.9 ft lbs)

## **WARRANTY**

Lifetime manufacturers warranty against defects in workmanship and materials, excluding splines and threads. This warranty applies to the original owner and is not transferable. Original retail receipts must be supplied with any warranty claim. This warranty does not cover normal wear and tear, improper assembly, maintenance, installation or use outside the activity for which the product was intended. This warranty does not affect your statutory rights; if unsure please contact a Middleburn dealer for advice. Middleburn does not accept any responsibility for damage or injury caused by failure to adhere to these instructions