

# Service Instruction



## 1. General

(a) No.:	31
(b) Issue / Date	Issue A / 15-12-2022
(c) Title:	Stratus Neo/Stratus Neo Mini Coil Replacement
(d) Description:	Procedure for the replacement of a Stratus Neo/Stratus Neo Mini Burner coil assembly
(e) Applicability:	CB4111, CB4112, CB4113, CB4114, CB4115, CB4116
(f) Effectivity:	All applicable CN's

**Note:** Applicability= All types and variants to which the change can be applied.  
Effectivity= Actual CN or group of CN's to which the bulletin has been/will be applied.

## 2. Accomplishment Instructions

This Service Instruction includes details for the replacement of a Stratus Neo/Stratus Neo Mini Coil Assembly

### Preparation

1. Ensure the burner is cool before starting any service actions.
2. Ensure the burner system is disconnected from a fuel cylinder and the hoses and valve block are vented of all residual fuel.
3. Take note of the orientation of the coil to be replaced, including the arrangement of coil jets and their positions.

### Coil Removal

1. In order to release the Coil from the Burner Can or the Mini Burner Can, the eight M5 Hex screws (CY0005-4016) and Steel M5 Aerotight nuts (CY0005-1004) must be removed.
2. Once the screws and nuts are removed the coil should be able to be lifted vertically out from the centre of the burner block.
3. Once the coil is separate, remove the jets (CB4142) from the jet ring. Remove and discard the copper gaskets (CB0214-0006) as these have been crushed and cannot be re-used. For the Stratus Neo, 8 copper gaskets (CB0214-0006) are required whereas only 6 are required for the Stratus Neo Mini.

### Coil Replacement

1. If applicable, transfer the jets (CB4142) from the removed Coil Assembly to the new Coil Assembly to be fitted, ensuring the new copper gaskets are fitted at the same time. Ensure the jet placement relative to the orientation of the Coil Assembly is consistent with the removed Coil Assembly. Alternatively, fit new jets to match those fitted to the removed Coil Assembly.
2. Grease the O-rings with KSP-125. Ensuring that the O-rings are attached to the stem of the new coil, Place the new Coil into the Burner block.
3. Install the new Coil Assembly into the Burner and install 8 in number Stainless Steel M5 screws (CY0005-4016) and Stainless Steel M5 Aerotight nuts (CY0005-1004) between the Coil Assembly and the Burner Can or the Mini Burner Can.
4. Once the replacement is complete, the burner must be functionally tested prior to flying to ensure there are no fuel leaks at the Coil to the valve block connection or the threads around the Jets.
5. On successful testing, an entry must be made in the Balloon Logbook, quoting this Service Instruction and the burner manifold block serial number.

### **3. Materials**

The following components are required:

Component	Part No.	Quantity Required	
		Stratus Neo	Stratus Neo Mini
Coil Assembly	CB4124	1	0
Coil Assembly	CB4138	0	1
Steel M5 Aerotight nuts	CY0005-1004	8	8
M5 Hex screws	CY0005-4016	8	8
Copper Gaskets	CB0214-0006	8	6

### **4. Other Publications Affected**

None

### **5. Remarks**

None

Compiled by:

  
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Notes:

None

Date: 15/12/2022

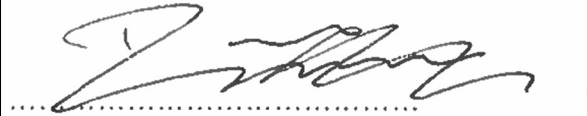
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## 6. Design Organisation Approval

### Approval Statement

I hereby confirm that these instructions are in compliance with all the applicable airworthiness requirements. The technical content of this document is approved under the authority of DOA nr UK.21J.0140

Signed, for and on behalf of Cameron Balloons Ltd.



PP. Head of Design



Company Stamp

Date: 16/12/2022

Name: D J Cameron