

RotorSport UK Ltd Service Bulletin (Permit)

Title: Cavalon 915is Lower engine cowling heat protection		Release date 10.10.2020
SB-138 Iss1	Related documents Modification: CCAR No.: None	Compliance Category: OPTIONAL or RECOMMENDED or MANDATORY
	Applicability	
Aircraft type & model: Cavalon 915IS	Aircraft serial Nos. affected: As required, optional	
The maintenance manual to be referenced is this stated or subsequent issue.		None
<p>This form is the response from RotorSport UK Ltd either against a problem found in the product in service requiring a containment or rectification action, or as service information for aircraft modification incorporation. For help, contact RotorSport on 44(0)1588 505060, or email compliance@rotorsport.org.</p> <p>The technical content of this document is approved under the authority of the UK CAA Design Organisation Approval Ref: DAI/9917/06</p>		

Documentation (Service Bulletin Completion action)

- a) Entries within the aircraft logbooks, eg CAA BCAR A3-7 Authorised Person to certify that the work is completed by writing '*SB-138 Lower engine cowl heat protection fitted.*' in the aircraft logbook white pages, and record the action in the pink pages entitled 'Aircraft Modifications'. Both entries must be signed by the CAA Authorised Person together with their CAA Authorisation number.
- b) Completion of the SB worksheet if attached. This must contain a PMR statement, and a final check item that no tools or equipment have been left within the aircraft.
- c) Complete the Type Approval change application document. (This is required where the SB will affect the type approval limitations, eg airspeed change or MTOW change and enables the owner to request the permit change required)
- d) Any other Permit Maintenance Release to Service form requirements.

Document approval signatures			
Engineering Manager	CVE (as required) Not required, change already approved	Chief Test Pilot (if flight performance or safety effect) Not required	Head of Airworthiness

RotorSport UK Ltd Service Bulletin (Permit)

Reason and overview of the Service Bulletin (cause of problem if known)

AutoGyro has received feedback from the market that the engine exhaust manifold proximity to the lower engine cowling can cause discolouration of the cowling paint through heat radiation. AutoGyro has developed heat protection for this area (47900) which may be retrospectively fitted.

This service bulletin provides instructions on how to assemble the heat protection to the lower engine cowling.

Manpower estimates

Estimated man-hours to complete the task as a stand-alone item is; approx. 1.5hrs

Compliance: *Optional*

Tooling required

See AutoGyro SB

Weight and Balance Effects

No effect

Manuals affected

Not affected.

Previous Modifications that affect the SB

None

Accomplishment instructions (Action required to implement this bulletin):

1. Follow the requirements of AutoGyro AG-SB-2020-05-B-EN.

Material information (Parts required to be made to implement this service bulletin):

No parts made during embodiment

List of components (with purchasable part nos)

None

Interchangeability

Not affected

Parts disposition

- a) Disposal requirements – None
- b) Environmental hazards of parts containing hazardous materials - None
- c) Scrap requirements (e.g. mutilate scrapped items beyond use) – None.

Title: Cavalon 915 Lower Engine Cowling Heat Protection		
AG-SB-2020-05-B-EN		Compliance Category:
Applicability		A – MANDATORY B – RECOMMENDED C – OPTIONAL
Aircraft type & model: AutoGyro Cavalon	Affected Serial number(s): All Cavalon fitted with the Rotax 915iS engine	
The maintenance manual to be referenced is this stated or subsequent issue.		As per AutoGyro website
<p>This form is the response from AutoGyro GmbH either against a problem found in the product in service requiring a containment or rectification action, or as service information for aircraft modification incorporation. For help, contact AutoGyro on 49(0)5121 88056-00, or email airworthiness@auto-gyro.com.</p>		

Documentation (Service Bulletin Completion action)

The accomplishment of this Service Bulletin, or the decision of its rejection, must be properly documented, if such procedure is required by the relevant authority

Category Codes

A – Mandatory – failure to comply result in a significant reduction of flight safety, injury or death
 B – Recommended – failure to comply may result in reduced safety margin, injury and/or equipment damage
 C - Optional – improves operating behavior, reliability and/or maintainability

Chief Certification Officer	Chief Technical Officer

Reason and overview of the Service Bulletin (cause of problem if known)

AutoGyro has received feedback from the market that the engine exhaust manifold proximity to the lower engine cowling can cause discolouration of the cowling paint through heat radiation.

AutoGyro has developed heat protection for this area (47900) which may be retrospectively fitted.

This service bulletin provides instructions on how to assemble the heat protection to the lower engine cowling.

Manpower estimates

The task may only be performed by an organization or individual entitled and trained to carry out maintenance on AutoGyro aircraft.

Estimated man-hours to complete the task as a stand-alone item is:

1.5 hr including removal and re-fitting of the engine cowlings.

Compliance

This bulletin is recommended and has no compliance timeline.

Failure to embody this service bulletin may result in:

- Possible damage to the aircraft
- Invalidation of the warranty on the items involved

Customer Support

Materials and labour hours are not covered by this Service Bulletin.

Tooling required

Standard tools.

Weight and Balance Effects

Not significant. Weight of additional material is 484g.

Manuals affected

POH & AMM AutoGyro is not affected.

Previous Modifications that affect the SB

None

Accomplishment instructions (Action required to implement this bulletin):

Effective date of this SB is 09 Sep 2020.

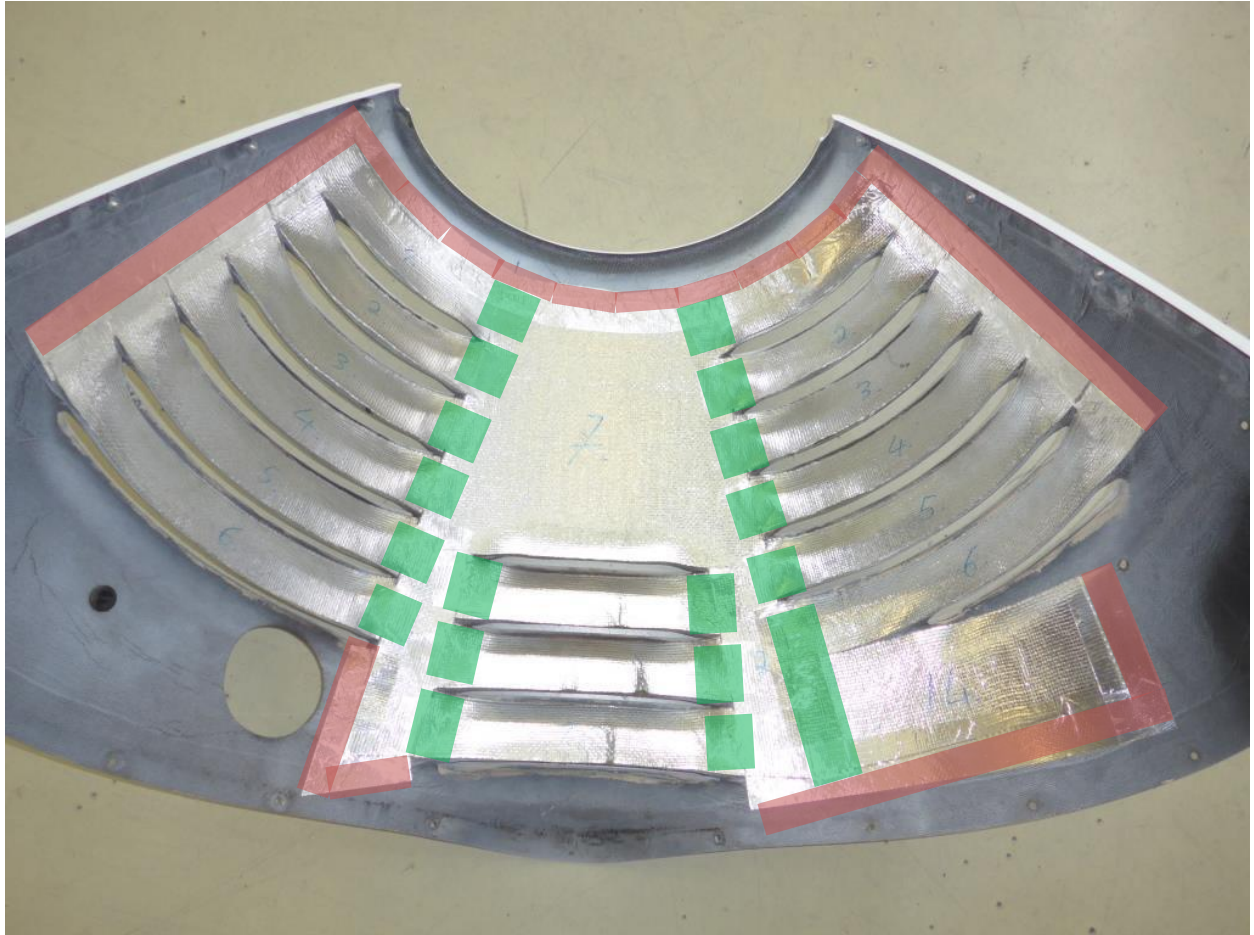
All work is to be carried out in accordance with the latest model-relevant AutoGyro Aircraft Maintenance Manual

Instructions

1. Ensure the wheel brakes are applied and the mag switches/ignition are switched in the "off" position.
2. Remove the upper and lower engine cowlings in accordance with AMM job card 52-00-00 4-1.
3. De-grease the inside area of the lower engine cowling in the areas where the heat protection is to be applied.
4. Attach the heat protection to the lower engine cowling using Pic. 1 below as a guide.
5. Using an appropriate medium, smooth the area of the interior surface of the cowling where the 50mm alu tape is to be applied (Pic. 2 red areas) and de-grease using silicone remover 34081 or similar. **If this is not carried out, it is extremely likely that the tape will detach from the cowling after a period of time.**
6. Apply the 50mm alu tape to the edges of the 50mm alu tape at both the previously smoothed areas (red areas) and the green areas shown in pic 2.
7. Re-fit the lower and upper engine cowlings.
8. Carry out a loose article and tool check.



(Pic. 1)



(Pic. 2)

Completion of this Service Bulletin must be recorded within the aircraft documentation, in line with the requirements of the country of operation.

Material information (Parts required to be made to implement this service bulletin):

Nil

List of components (with purchasable part numbers)

47900 Heat Protection Mat Cowling Self-adhesive
34081 Silicone Remover

Interchangeability

Not affected

Parts disposition

- a) Disposal requirements – Nil
- b) Environmental hazards of parts containing hazardous materials – Nil
- c) Scrap requirements (e.g. mutilate scrapped items beyond use) – Nil