

Title: Enlarged Battery Capacity 13 Ah for MT-03 and MTOsport 2010		
AG-SB-2024-04-C-EN	Effective Date: 01.05.2024	Compliance Category: A - MANDATORY B - RECOMMENDED C - OPTIONAL
Applicability		
Aircraft type & model: MT03 / MTOclassic 2010	Affected Serial number(s): Aircraft equipped with 8 Ah Hawker Battery	
The maintenance manual to be referenced is this stated or subsequent issue.		As per AutoGyro website
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 airworthiness@auto-gyro.com .		

Documentation (Service Bulletin Completion action)

The accomplishment of this Service Bulletin, or the decision of its rejection, must be properly documented within the aircraft records, in line with the requirements of the responsible aviation Regulatory Authority.

A worksheet may be attached to this bulletin to aid correct embodiment of this SB. This should be completed and retained with the aircraft records.

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

Document approval signatures	
Head of Engineering	Head of Airworthiness
The technical content of this document is approved under the authority of the UK CAA Design Organisation Approval Ref: DAI/9917/06	

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

The MT-03 and MTOsport (aka 'classic') 2010 gyroplanes were initially fitted with a 12V 8Ah Hawker sealed lead acid battery, being superseded by the SBS8 (7Ah) battery in 2009, together with a low volt management circuit. Because this circuit was not installed on the older generation aircraft it was not acceptable to fit this newer but lower capacity battery as a service replacement.

In parallel aircraft supplied to other parts of the World have been optionally fitted with the larger Energys Genesis G13EP (13Ah) battery to cater for cold starting, additional equipment, etc.

This Service Bulletin shows the installation of this battery on the MT-03 or MTOsport 2010 fleet. The Genesis battery is installed in the same location as the Hawker battery, using a mounting bracket and has proved to be equally reliable in service.

The Genesis range is maintenance-free and can be installed/operated in any orientation except inverted. It has a sealed/valve regulated thin plate pure lead construction suitable for high-rate charge and discharge. Operating range is -40 to +80 degC which exceeds the aircraft limitations -20 to +40 degC.

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: 0.5 hrs.

Compliance

This bulletin is optional and has no compliance timeline.

Customer Support

Can be contacted for questions. Materials and labour hours are not covered by this Service Bulletin.

Tooling required

Standard tools.

Weight and Balance Effects

No significant change to weight and balance.

Manuals affected

Changes in POH and AMM will be implemented with next revision.

Previous Modifications that affect the SB

None

Accomplishment instructions (Action required to implement this bulletin):**Procedure**

1. Ensure keyswitch is switched off with key removed.
2. Disconnect black cable from attachment point and secure end of cable with tape.
3. Disconnect red cable from attachment point and secure end of cable with tape.
4. Cut and remove the cable ties retaining the cables to the airframe. Take a note of the attachment points.
5. Remove the four fastenings retaining the existing battery to the aircraft. These fastenings may also retain 'P' clips that secure the electric fuel pumps, push these to one side. Remove the battery with cables attached.
6. Put new battery in place (+ connector on top) and secure it with bracket 30354 using existing holes on base plate. Re-attach the fuel pump 'P' clips onto the bracket fasteners, and tighten all securely.
7. Ensure the keyswitch is still switched off with key removed.
8. Connect red cable to aircraft and top connector of new battery.
9. Connect black cable to aircraft and lower connector of the new battery.
10. Secure the battery cables similarly to the original cables using 4mm plastic ties.

Illustrations

Existing battery to be removed



Any life-limit changes must be recorded within the aircraft documentation, in line with the requirements of the country of operation.

NIL

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

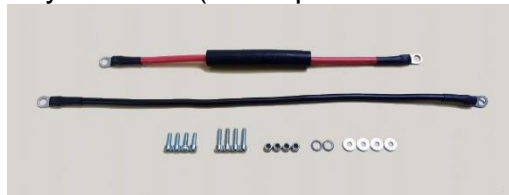
NIL

List of components (with purchasable part numbers)

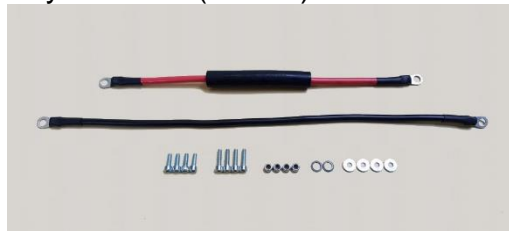
30356 Battery Genesis 12V 13 Ah



30357 Installation Set for Battery Genesis (MTOsport/classic 2010)



49515 Installation Set for Battery Genesis (MT-03)



30354 Mounting Bracket for Battery Genesis



Interchangeability

Not affected

Parts disposition

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

