

RotorSport UK Ltd

Service Bulletin

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. Upon completion of the action, the person responsible must enter details into the aircraft logbook/worksheet with the SB and/or CAA MPD (Mandatory Permit Directive) number and sign as normal (see instructions below). For help, contact RotorSport on 44(0)1588 650769, or email info@rotorsport.org.

SB No.: 054 Iss2	CCAR No.: None	Classification:
Aircraft type & model (applicability) MT-03 MTOsport	Aircraft serial Nos. effected RSUK/MT-03/all RSUK/MTOS/all before 045	OPTIONAL or RECOMMENDED or MANDATORY

Problem description & cause of problem if known
A recent review of the electrical system of MT-series aircraft has identified an opportunity to improve the match of fuse ratings to the circuits protected. Embodiment of this service bulletin will also make the fuse values common across all aircraft.

Safety effect:
Circuit and device protection is improved

Weight and CG effect:
No change

Action required to implement this bulletin:

Effective date:
30/01/12

1. Position the aircraft for convenience of access and ensure that the Master switch is “Off”
2. It is not normally necessary to use tools to change the fuses themselves.
3. The fuses are fitted to a single fuse-block located inside the black plastic enclosure attached to the lower section of the instrument panel. Access may be gained by removal of three M4 dome-head screws (either the left or right-hand set) then carefully opening the enclosure side. The wiring harness may then be positioned to allow access to the fuse block.
4. The fuses have a conventional push-fit into the fuse block (as automotive practice), but have a safety-tie around the whole set. This may be carefully relocated to one side to allow fuse replacement. Alternatively, if found damaged it may be replaced (it is a standard 2.4mm cable-tie)
5. Change the fuses as required to match the appropriate table below. Reinstall the safety-tie then position the wiring harness inside the enclosure which may then be refitted to the instrument panel. There is no loctite used on the three retaining screws.
6. Following normal safe practice check the correct function of each electrical system

Table 1 MT-03/002- to /005

Fuse Ident	Function	Original Rating	New rating
F1	Compressor	20A	15A
F2	Fuel-pump1	5A	no change
F3	Fuel-pump2	5A	no change
F4	TCU	5A	2A
F5	Cockpit (Instruments &Avionics)	5A	7.5A
F6	Heating 1&2	20A	15A
F7	Lights	20A	15A
F8	Starter solenoid	5A	no change

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Table 2 MT-03/006 to /017

Fuse Ident	Function	Original Rating	New rating
F1	Compressor	20A	15A
F2	Fuel-pump1	5A	no change
F3	Fuel-pump2	5A	no change
F4	TCU	5A	2A
F5	Cockpit (Instruments &Avionics)	10A	7.5A
F6	Heating 1&2	20A	15A
F7	Lights	20A	15A
F8	Starter solenoid	5A	no change

Table 3 MT-03/018 on

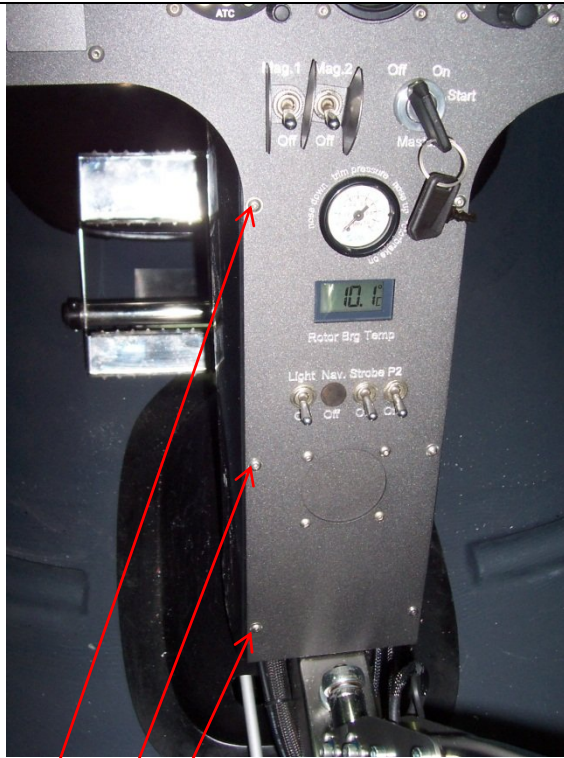
Fuse Ident	Function	Original Rating	New rating
F1	Compressor	20A	15A
F2	Fuel-pump1	5A	no change
F3	Fuel-pump2	5A	no change
F4	TCU	5A	2A
F5	Cockpit (Instruments &Avionics)	10A	7.5A
F6	Heating 1&2	20A	15A
F7	Lights	20A	15A
F8	Starter solenoid	5A	no change

Table 4 MTOsport /001 to /044

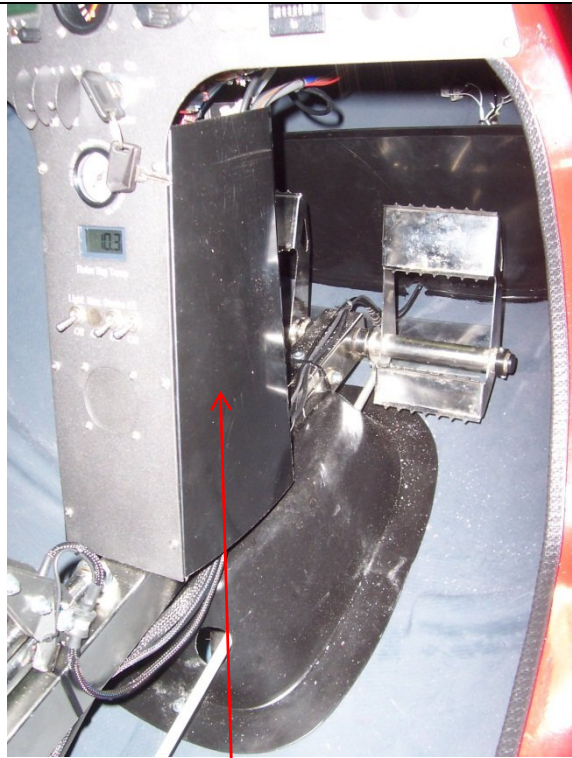
Fuse Ident	Function	Original Rating	New rating
F1	Compressor	20A	15A
F2	Fuel-pump1	5A	no change
F3	Fuel-pump2	5A	no change
F4	TCU	5A	2A
F5	Cockpit (Instruments &Avionics)	10A	7.5A
F6	Heating 1	15A	no change
F7	Heating 2	15A	no change
F8	Lights	20A	15A
Note: optional Aveoflash (LED-nav/strobes) are used in conjunction with LED landing lights and 5A fuse at F8			
F9	Starter solenoid	5A	no change
F10	VP prop	25A	15A
F11	VP prop (circuit breaker)	10A	no change
F12	Charging socket	16A	European option, not fitted to UK aircraft

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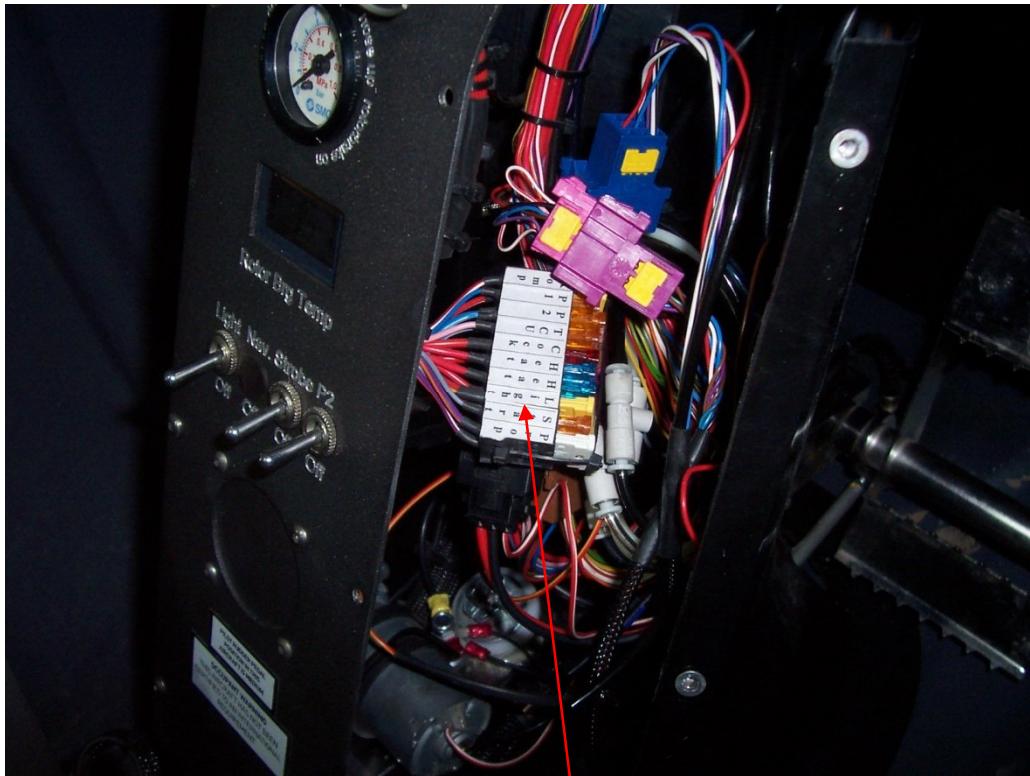
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1 2 3
Enclosure retaining screws (left set)



Location of enclosure fwd of instrument panel



Enclosure folded fwds making fuse block accessible

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<u>Parts required to implement this service bulletin:</u> 3-off Blade fuse 15A, RSD4479 1-off Blade fuse 2A, RSD4710 1-off blade fuse 7.5A, RSD4711				
Effect on Pilots Handbook or Maintenance Manual? No effect on Pilots Handbook. New issues of AMMs to be published by RotorSport (RSUK0012 for MT-03, RSUK0043 for MTOS)				
<u>Service Bulletin Completion action</u> Issue Permit Maintenance Release Certificate CAA BCAR A3-7 Authorised Person or Pilot-Owner to certify that the work is completed by writing “SB-054 Revised Fuse Ratings .incorporated” 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 or Pilot-Owner together with their CAA Authorisation number/Pilots Licence Number				
<i>The technical content of this document is approved under the authority of the UK CAA Design Organisation Approval Ref: DAI/9917/06</i>				
SB authorised by: (name, signature, and date of signature)				
Quality Conformance Manager	Engineering Manager or Head of Airworthiness	Chief Test Pilot (if flight performance or safety effect)	CVE	
Document completion date:	Issued to:	When	Issuer name	Signature
	Internal			
	CAA			
	Owners			
	LAA/BMAA Inspectorate			

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Aircraft serial no. Registration G-	Service Bulletin implementation Worksheet	Date raised: Raised by:
Purpose – record service bulletin implementation actions taken to inspect aircraft and return to service.		Document reference: SB-054
Maintenance manual referred to and issue level/date:		
Note; attach SB sheets to this document		
Task	Notes	Eng'r or Pilot-Owner check/date
Inspector check/date		
Fuses replaced as Table number.....	Insert table number from pages 1-2	
Not required		
3-off enclosure screws replaced		
Not required		
Functional check all systems before flight		
Not required		
Customer acceptance: Name:	Aircraft hobbs meter reading	
Signature/date:	Confirm logbooks annotated:	
Permit Maintenance Release: The work recorded above has been completed to my satisfaction and in that respect the aircraft is considered fit for flight.		
Engineer/Pilot signature	Date of work	
Name:	Location where work completed	
CAA Authorisation code Or Pilots Licence No:		

PLEASE FAX THIS BACK TO 01588650769 (or send by email to info@rotorsport.org)