



2900 Selma Highway
Montgomery, AL 36108 USA
Tel: 334-386-5400 Fax: 334-386-5450

ALERT SERVICE BULLETIN

Alert Service Bulletin No. 072 Rev. A

Master Contactor Replacement

1. This page transmits the revision of Alert Service Bulletin 072 Rev. New to Alert Service Bulletin 072 Rev. A, dated January 10/18.
 - A. Revision ASB 072 Rev. New, dated October 11/17
 - B. Revision ASB 072 Rev. A, dated January 10/18
2. FAA approval has been obtained on technical data in this publication that affects type design.
3. Changes are shown by a change bar in the left or right margin coinciding with the change on the affected page.
4. This revision is issued to change the following:
 - A. Revise Sky-Tec Auxiliary Contactor P/N STS-A12 serial number effectivity under 1.A.(3)
 - (1) Change serial number H-R100001 to H-R111858
 - B. Revise Sky-Tec Auxiliary Contactor P/N STS-A24 serial number effectivity under 1.A.(4)
 - (1) Change serial number H-R100001 to H-R111818



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1. Planning Information

A. Effectivity

- (1) Sky-Tec Master Contactor P/N STS-M12 manufactured by Hartzell Engine Technologies (HET) and Sky-Tec, LP.
 - (a) All serial numbers with prefix "S2M" are affected by this Alert Service Bulletin.
 - (b) Serial numbers with prefix "H-" prior to H-R100001 are affected by this Alert Service Bulletin.
- (2) Sky-Tec Master Contactor P/N STS-M24 manufactured by HET and Sky-Tec, LP.
 - (a) All serial numbers with prefix "S2M" are affected by this Alert Service Bulletin.
 - (b) Serial numbers with prefix "H-" prior to H-R100001 are affected by this Alert Service Bulletin.
- (3) When installed as the Master Contactor, Sky-Tec Auxiliary Contactor P/N STS-A12 manufactured by HET and Sky-Tec, LP.
 - (a) All serial numbers with prefix "S2A" are affected by this Alert Service Bulletin.
 - (b) Serial numbers with prefix "H-" prior to H-R111858 are affected by this Alert Service Bulletin.
- (4) When installed as the Master Contactor, Sky-Tec Auxiliary Contactor P/N STS-A24 manufactured by HET and Sky-Tec, LP.
 - (a) All serial numbers with prefix "S2A" are affected by this Alert Service Bulletin.
 - (b) Serial numbers with prefix "H-" prior to H-R111818 are affected by this Alert Service Bulletin.
- (5) All aircraft listed under Master Contactor STS-M12 & M24 and Auxiliary Contactor STS-A12 & A24 PMA Supplement 29 are affected by this Alert Service Bulletin. PMA information can be found on the HET website, <http://hartzell.aero/pma> under "Starters"
- (6) All contactors listed under 1.A.(1) through 1.A.(4) used on aircraft not identified by PMA Supplement 29 are affected by this Alert Service Bulletin.

NOTE: "Part Number" and "Model Number" are used as like-terms in this Alert Service Bulletin.

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WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS ALERT SERVICE BULLETIN. INFORMATION CONTAINED HEREIN MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THIS ALERT SERVICE BULLETIN OR THE USE OF OBSOLETE INFORMATION MAY CREATE AN UNSAFE CONDITION THAT MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE. REFER TO THE HET WEBSITE, WWW. HARTZELL.AERO, FOR THE MOST RECENT REVISION LEVEL OF THIS ALERT SERVICE BULLETIN.

B. Concurrent Requirements

- (1) None

C. Reason

- (1) A design deficiency in the Master Contactor may cause a loss of contactor function when cycled, resulting in loss of aircraft electrical power.

D. Description

- (1) This Alert Service Bulletin provides Instructions for Continued Airworthiness (ICA).
- (2) This Alert Service Bulletin provides instructions for replacement of affected HET Master Contactor part numbers STS-M12 or STS-M24 and affected HET Auxiliary Contactor part numbers STS-A12 or STS-A24 when installed as the Master Contactor.

E. Compliance

- (1) IMMEDIATE - Do not cycle master power switch during flight unless required by POH. If master power switch is cycled and loss of electrical power occurs, cycle master power switch repeatedly until power is recovered.
- (2) At the next scheduled maintenance interval or within the next twelve (12) months, whichever occurs first, replace affected Master or Auxiliary Contactor with one not affected by this Alert Service Bulletin.

F. Approval

- (1) FAA acceptance has been obtained on the technical data in this publication that affects type design.

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G. Manpower

- (1) Up to one (1.0) hour labor is required for replacement and Return to Service when performed in conjunction with regularly scheduled maintenance inspection.

H. References

- (1) Applicable aircraft POH or AFM
- (2) Aircraft maintenance manual (as applicable).

I. Weight and Balance

- (1) No Change

2. Material Required

- A. FAA approved Master Contactor with part number not affected by this Alert Service Bulletin.

3. Accomplishment Instructions

WARNING 1: THIS PROCEDURE MUST BE PERFORMED BY COMPETENT AND QUALIFIED PERSONNEL WHO ARE FAMILIAR WITH THE AIRFRAME ELECTRICAL SYSTEM MAINTENANCE. FAILURE TO DO SO MAY RESULT IN PHYSICAL INJURY, EQUIPMENT DAMAGE AND/OR ECONOMIC LOSS.

WARNING 2: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS ALERT SERVICE BULLETIN. INFORMATION CONTAINED HEREIN MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THIS ALERT SERVICE BULLETIN OR THE USE OF OBSOLETE INFORMATION MAY CREATE AN UNSAFE CONDITION THAT MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE. REFER TO THE SKY-TEC WEBSITE FOR THE MOST RECENT REVISION LEVEL OF THIS ALERT SERVICE BULLETIN, WWW.SKYTEC.AERO.

CAUTION: REFER TO THE APPLICABLE MANUFACTURER'S MAINTENANCE MANUALS OR SERVICE INSTRUCTIONS TO GAIN ACCESS TO THE AIRFRAME OR CONTACTOR. IN ADDITION, ANY PREFLIGHT OR IN-FLIGHT OPERATIONAL CHECKS REQUIRE USE OF THE APPROPRIATE AFM OR POH.

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A. Master Contactor Identification

- (1) If positive identification of the Master Contactor model/part number can be made through the aircraft documentation, and the Master Contactor is affected per 1.A, continue to “Accomplishment Instructions, Replacement” 3.B.(1).
- (2) If positive identification cannot be made through aircraft documentation, gain access and locate the data tag on the Master Contactor to verify effectivity. Refer to **Figure-1** for data tag illustration. If Master Contactor is affected per 1.A., continue to “Accomplishment Instructions, Replacement” 3.B.(1).

B. Replacement

- (1) At the next planned maintenance interval or within the next twelve (12) months, whichever occurs first, replace affected Master Contactor with one not affected by this Alert Service Bulletin in accordance with the applicable aircraft maintenance manual and/or service instructions and continue to “Return to Service” 3.C.(1).
 - (a) Refer to **Figure-2** for replacement contactor illustration. Sky-Tec Contactor P/N STS-M12 and STS-M24 with serial number H-R10001 and later will come with a red jumper wire installed from the Battery Terminal to the Coil Power Terminal. The jumper converts a 4-terminal contactor to a 3-terminal contactor.
 - (b) This configuration requires no alteration prior to installation. Use the vacant Coil Ground Terminal for control wire connection.

C. Return to Service

- (1) Perform the recommended Master Contactor functional tests in accordance with the applicable aircraft maintenance manual, service instructions, and operational tests in the AFM or POH.

D. Maintenance Record

- (1) For terminating action, make an aircraft logbook entry to indicate compliance with this Alert Service Bulletin by replacement of the Master Contactor.

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4. Contact Information

A. Contact HET Product Support for all communications regarding the technical content of this Alert Service Bulletin.

(1) Phone +1.334.386.5400 (Option 2)

(2) Fax +1.334.386.5450

(3) E-mail at techsupport@HartzellEngineTech.com

(4) Address

Hartzell Engine Technologies LLC
2900 Selma Highway
Montgomery, AL 36108
USA

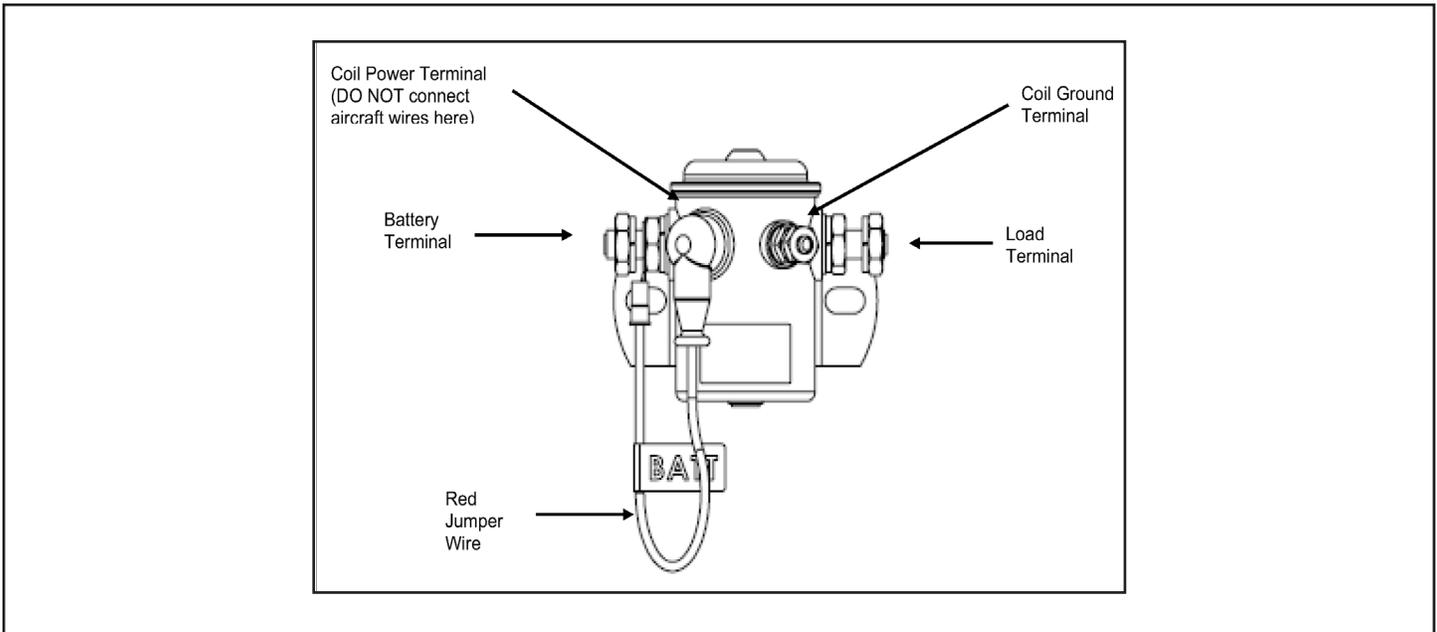
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**Affected Master Contactor. Model Number STS-M12 Shown.
Figure-1**



**Replacement Master Contactor
Figure-2**

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Master Contactor Replacement

1. Eligibility:

- A. ALL Sky-Tec contactors affected by ASB 072 Rev A.

2. Commercial Assistance Program:

- A. Complete and return the attached claim form including a photo of the affected contactor data tag to HET Product Support via mail, e-mail, or fax.
- B. Upon receipt of a completed ASB 072 Rev. A Claim Form and photo of the affected contactor data tag, HET will ship a new design contactor not affected by ASB 072 Rev. A to the address on the claim form.
- C. The Commercial assistance outlined above shall expire twelve (12) calendar months from the original published date of Alert Service Bulletin 072 Rev. A.

3. Warranty Statement:

- A. The sole warranty for the actions of ASB 072 Rev. A are contained in the HET Limited Warranty Policy issued with the purchase of each new contactor (see terms and conditions therein).
- B. Commercial assistance may apply as stated in this Appendix.
- C. Issuance of ASB 072 Rev. A in no way constitutes an implied or expressed warranty of any kind.
- D. This publication does not imply or state any responsibility for the workmanship of any person or entity performing work or maintenance on the aircraft electrical system.

4. Contact Information:

- A. Contact **HET Product Support** for all communications regarding the technical content of this Alert Service Bulletin.
 - (1) Phone +1.334.386.5400 (Option 2)
 - (2) Fax +1.334.386.5450.
 - (3) E-mail at techsupport@HartzellEngineTech.com.
 - (4) Address
Hartzell Engine Technologies LLC
2900 Selma Highway,
Montgomery, AL 36108
USA

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ASB 072 Rev. A CLAIM FORM

Owner information

Name: _____ Date: _____ Tel: _____ Fax: _____

Company Name: _____ E-mail: _____

Address: _____

City: _____ State: _____ Postal Code: _____

Country: _____

(Include Photo of Affected Contactor Data Tag)

Component Information

Nomenclature: _____ Part Number: _____

Serial Number: _____ (Contactor) Date Removed: _____

Part Time in Service: _____ (Contactor) Original Date Installed: _____

Send this ASB 072 Rev. A Claim Form to:

Hartzell Engine Technologies Product Support

Fax: +1.334.386.5450

E-mail: techsupport@hartzellenginetech.com

Hartzell Use Only - do not write below this line.

Warranty No: _____ Authorized by: _____