



**MANDATORY**

**ECLIPSE**  
AEROSPACE

# SERVICE BULLETIN

**NUMBER:** SB 500-71-002, REV B  
**MODEL:** ECLIPSE EA500  
**SUBJECT:** LH/RH ACS GROMMET INSPECTION/REWORK

## 1. PLANNING INFORMATION

### A. Effectivity

Aircraft Serial Numbers (S/N) 000001 through 000134.

### B. Reason

To eliminate the possibility of the ACS wiring from chafing against the aircraft structure.

Revision B changes include: removal of Fire proof sealant.

### C. Description

This Service Bulletin (SB) removes and replaces existing High Temperature, Fire Detection/Fire Suppression/ACS cable grommets with new grommets.

### D. Relevant Publications

None

### E. Compliance

Eclipse Aerospace Inc. considers this to be a mandatory modification that must be accomplished at the next 300 Hour/24 Month Inspection.

### F. Approval

This Service Bulletin is based on engineering data that is FAA-approved, and the modification herein complies with the applicable regulations.

### G. Labor Requirements

The following information is for planning purposes only.

(1) Estimated labor hours to perform:

Suggested number of personnel: 1

Grommet Replacement: 5 Hours

**Total labor hours: 5**

The above is an estimate based on properly equipped and experienced personnel complying with this Service Bulletin. Actual labor hours may vary depending on workforce experience, concurrent maintenance, discovery of other discrepancies, etc.

(2) Qualification of personnel:

- A person properly authorized to perform aircraft maintenance under 14 CFR 43 or equivalent approved by the Civil Aviation Authority having jurisdiction.

### H. Weight and Balance Change

None



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## I. Electrical Load Data Change

None

## J. References

Aircraft Maintenance Manual (AMM), P/N 06-117751, latest Rev.

Illustrated Parts Catalog (IPC), P/N 06-117752, latest Rev.

## K. Publications Affected

Illustrated Parts Catalog (IPC), P/N 06-117752, latest Rev.

## 2. MATERIAL INFORMATION

### A. Materials

Order Parts below:

Part Number	Description	Qty	Unit of Issue
71-117855-2002	Grommet, Aft Fuselage, ACS, Fire Detection, Fire Suppression	2	EA.

### B. Consumables

The following consumables are required for this Service Bulletin.

Material	Specification	Use
Adhesive	DC-732 or equivalent	Adhere components together.
Aerodynamic Sealant	PR-2050 B1/2	To fill in gaps around pylon.
Alodine	1201 or equivalent	Chemical conversion coating for aluminum.
Isopropyl Alcohol	N/A	Facilitate grommet installation.
Lint Free Cloth	N/A	Clean and wipe down surfaces.
Nitrile Gloves	Ansell Edmont 26-665 or equivalent	Protect hands from absorbing sealant or chemicals.
Paint Brush	2-inch wide	Apply FastBlock 100 Adhesive and smooth.
Plastic Scraper	N/A	Remove excess adhesive.
Plastic Sheet	N/A	Protect pylon components.
Primer	MIL-PRF-85582 or MIL-PRF-23377	Apply to components that will require a polyurethane top coat.
Sealant	PR-2001	For aerodynamic smoothing, fillet sealing, fastener sealing, prepack sealing, injection sealing, and sealing joints and seams.

### C. Interchangeability/Intermixability of Parts



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Grommets are interchangeable for both the left and right sides.

### D. Part Re-identification

None.

### 3. ACCOMPLISHMENT INSTRUCTIONS

#### A. Job Set-Up Procedure

- (1) Make aircraft safe for maintenance. Refer to AMM 20-00-01 – MAKE SAFE FOR MAINTENANCE.
- (2) Follow all electrical system safety precautions. Refer to AMM-24-00-00 – ELECTRICAL POWER SYSTEM – DESCRIPTION AND OPERATION.
- (3) Remove left upper nacelle panel 411 AT and right upper nacelle panel 412 AT. Refer to AMM 54-20-21 – UPPER NACELLE - REMOVAL.
- (4) Remove left lower nacelle panel 411 CB and right lower nacelle panel 412 CB. Refer to AMM 54-20-22 – LOWER NACELLE - REMOVAL.
- (5) Remove maintenance access door 311 AL. Refer to AMM 53-40-10 – MAINTENANCE BAY PANEL – REMOVAL..
- (6) Remove left and right pylon panels as follows:

**WARNING: USE CARE WHEN WORKING AROUND FIRE EXTINGUISHER CONNECTORS, OR WHEN WORKING NEAR FIRE EXTINGUISHER. ACCIDENTAL DISCHARGE CAN CAUSE PERSONAL INJURY AND DAMAGE TO THE AIRCRAFT.**

- Leading edge pylon skin – 311 EL (Left) and 312 BR (Right). Refer to AMM 54-30-11 – LEADING EDGE PYLON SKIN - REMOVAL.
- Forward lower pylon skin – 311 JL (Left) and 312 FR (Right). Refer to AMM 54-30-13 – FORWARD LOWER PYLON SKIN - REMOVAL.
- BASS module NACA panel – 311 FL (Left) and 312 CR (Right). Refer to AMM 21-40-18 – NACA DUCT – REMOVAL.

**CAUTION: MAKE SURE TO USE CARE WHEN REMOVING SEALANT OR ADHESIVE FROM GROMMET. FAILURE TO COMPLY MAY RESULT IN DAMAGE TO CABLES AND WIRES.**

#### B. ACS Grommet Rework Procedure

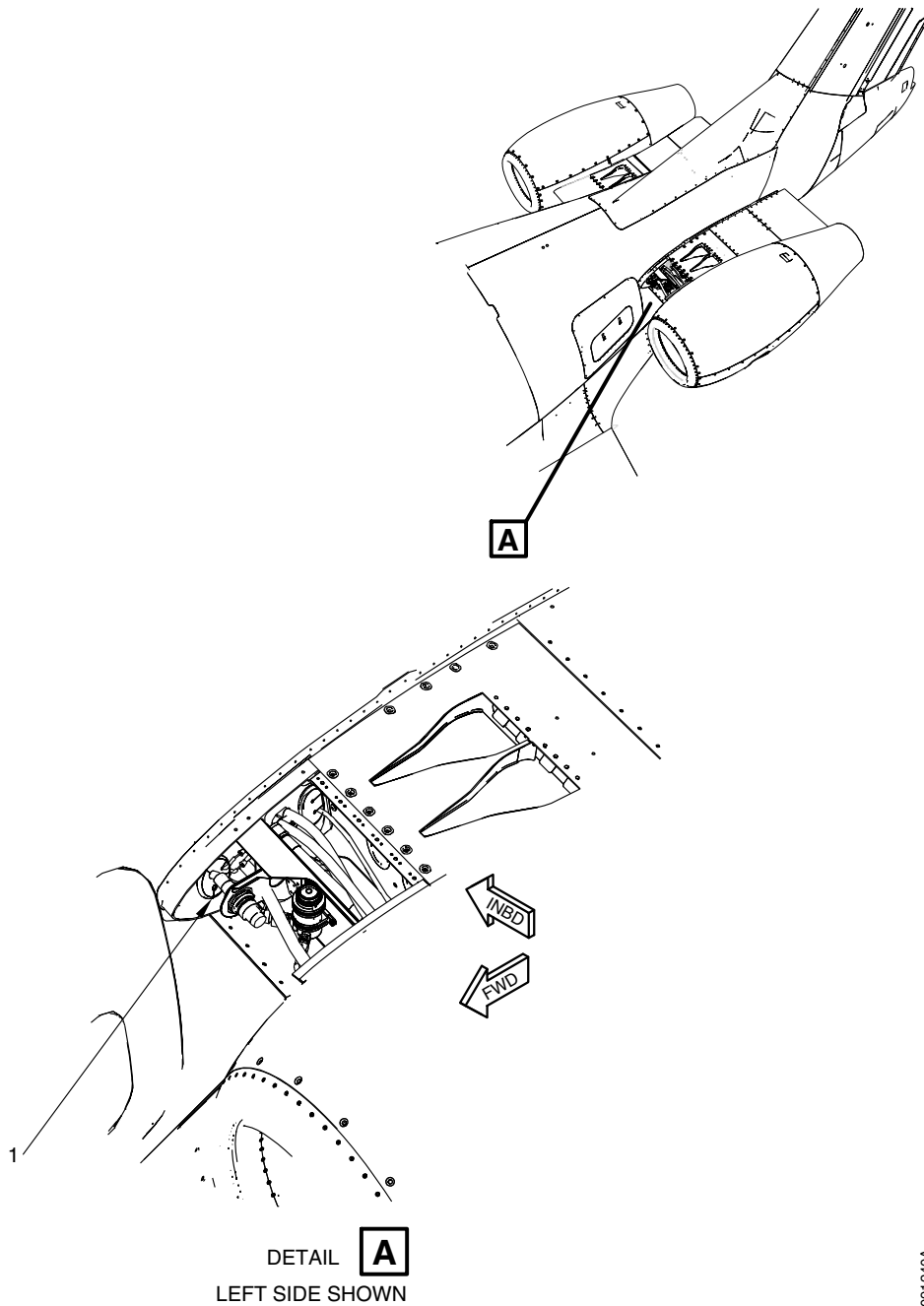
Procedure is for both left and right sides.

NOTE: Figures are shown for the left side.

- (1) Remove grommet (Figure 1) (P/N 71-117855-2001) from apron and detach cables and wires from grommet. Discard grommet.



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ACS Cable Grommet  
Figure 1

- (2) Remove all sealant or adhesive from aircraft skin and apron in area where grommets were removed with a non-metallic scraper.
- (3) Install ACS cable grommet (P/N 71-117855-2002) into fuselage openings. If necessary, lubricate the edges of grommet with isopropyl alcohol to facilitate ease of installation.
  - (a) Route harnesses and wires as shown in (Figure 2).

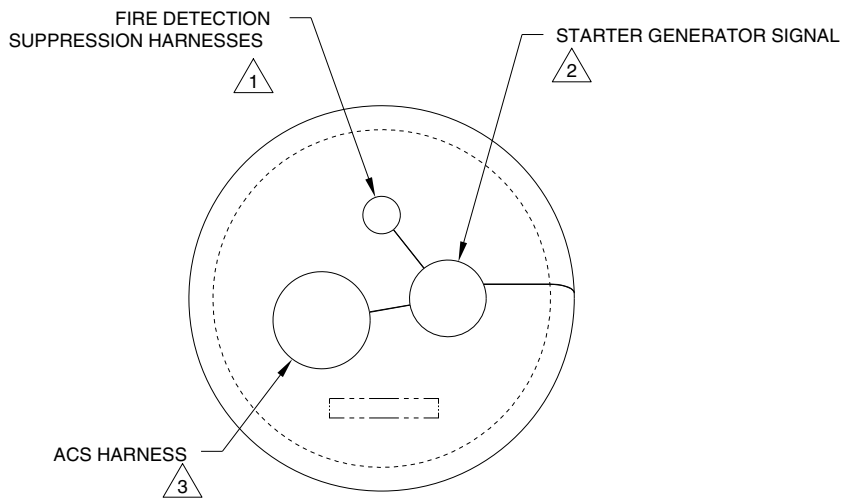


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- △1 WIRES THROUGH GROMMET HOLE:  
(LH) ENG-L0612-22, ENG-L0613-22,  
ENG-L0682-22, ENG-L0690-22N, ENG-L0700-22N  
(RH) ENG-R0612-22, ENG-R0613-22  
ENG-R0682-22, ENG-R0690-22N, ENG-R0700-22N
- △2 WIRES THROUGH GROMMET HOLE:  
(LH) HARNESS 24-117703  
(RH) 24-117704
- △3 WIRES THROUGH GROMMET HOLE:  
(LH) HARNESS 39-108869 (ALL WIRES  
GOING TO CONNECTOR 72A01J02)  
(RH) HARNESS 39-108874 (ALL WIRES  
GOING TO CONNECTOR 72A02J02)



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**Wire Routing  
Figure 2**

- (4) Clean area around grommet.
- (5) Apply Dow Corning (DC-732) all around the edges of ACS cable grommet (P/N 71-117855-2002) at the fuselage skin, sealing all openings. Make sure to remove all excess adhesive from the fuselage skin.



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### C. Job Close-Up Procedure

- (1) Install left lower nacelle panel 411 CB and right lower nacelle panel 412 CB. Refer to AMM 54-20-22 – LOWER NACELLE - INSTALLATION.
- (2) Install left upper nacelle panel 411 AT and right upper nacelle panel 412 AT. Refer to AMM 54-20-21 – UPPER NACELLE - INSTALLATION.
- (3) Install maintenance access door 311 AL. Refer to AMM 53-40-10 – MAINTENANCE BAY PANEL – INSTALLATION.

**WARNING: USE CARE WHEN WORKING AROUND FIRE EXTINGUISHER CONNECTORS, OR WHEN WORKING NEAR FIRE EXTINGUISHER. ACCIDENTAL DISCHARGE CAN CAUSE PERSONAL INJURY AND DAMAGE TO THE AIRCRAFT.**

- (4) Install left and right pylon panels as follows:
  - Leading edge pylon skin – 311 EL (Left) and 312 BR (Right). Refer to AMM 54-30-11 – LEADING EDGE PYLON SKIN - INSTALLATION.
  - Forward lower pylon skin – 311 JL (Left) and 312 FR (Right). Refer to AMM 54-30-13 – FORWARD LOWER PYLON SKIN - INSTALLATION.
  - BASS module NACA panel – 311 FL (Left) and 312 CR (Right). Refer to AMM 21-40-18 – NACA DUCT – INSTALLATION.
- (5) Remove all tools, equipment, and unwanted material from work area.
- (6) If all other maintenance is complete, return aircraft to service. Refer to AMM 20-00-02 – RETURN TO SERVICE (AFTER MAINTENANCE).

### D. Limitations and Procedures

None

### E. Parts Disposition

Scrap old grommets.

### F. Cost

Contact Eclipse Aerospace Inc. for cost and availability.

## 4. RECORD OF COMPLIANCE

Upon completion of this Service Bulletin, make an appropriate maintenance-record entry specifying the Service Bulletin number.

## 5. NOTIFYING ECLIPSE AEROSPACE

On completing this service bulletin, the operator/maintainer shall complete the attached Compliance Record and send it to Eclipse Aerospace via regular mail, fax, or e-mail.

Mailing Address	Eclipse Aerospace Inc. ATTN: Customer Care 2503 Clark Carr Loop SE Albuquerque, NM 87106
Fax	1-505-241-8802
E-mail	customercare@EclipseAerospace.net

**SERVICE BULLETIN COMPLIANCE RECORD**

**SB 500-71-002, Rev B: LH/RH ACS GROMMET INSPECTION/REWORK**

MODEL \_\_\_\_\_ AIRPLANE S/N \_\_\_\_\_ REG. NO. \_\_\_\_\_ TOTAL TIME \_\_\_\_\_ (HOURS)

OWNER NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TELEPHONE NO. (\_\_\_\_) \_\_\_\_\_ FAX NO. (\_\_\_\_) \_\_\_\_\_

**COMPLIANCE WITH SB 500-71-002, Rev B**

**Description of Work Performed**

(Inspection | Modification | Repair | Option Installation | Defect or Damage Found, if applicable)

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DATE \_\_\_\_\_

WORK PERFORMED

BY \_\_\_\_\_ (PRINTED)

\_\_\_\_\_ (SIGNATURE)

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

TELEPHONE \_\_\_\_\_ FAX \_\_\_\_\_