



SERVICE BULLETIN

NUMBER: SB 500-32-009, REV A
MODEL: ECLIPSE EA500
SUBJECT: LANDING GEAR INSPECTION AND APPLICATION OF CORROSION INHIBITING COMPOUND.

1. PLANNING INFORMATION

A. Effectivity

Aircraft Serial Numbers 000001-000276.

B. Reason

Inspection of the Nose and Main Landing Gear for corrosion and application of Corrosion Inhibiting Compound to prevent corrosion.

C. Description

There are some components of the landing gear when exposed to salt water may lead to corrosion. This bulletin provides instructions to inspect, clean any minor corrosion if noted and application of corrosion inhibiting compound to prevent corrosion from occurring. See Figures 1, 2 & 3 for details.

D. Relevant Publications

None.

E. Compliance

Eclipse Aviation Corporation considers this to be a **recommended** inspection that can be accomplished at the operator's discretion during the next suitable planned maintenance period or within six months of the release date of Service Bulletin.

F. Approval

This Service Bulletin is based on engineering data that is FAA-approved, and application of corrosion inhibiting compound herein complies with AMM 20-10-00 .

G. Labor Requirements

The following information is for planning purposes only.

- (1) Estimated labor hours to perform: 4

Suggested number of personnel: 1

Total labor hours: 4

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 under 14 CFR 43 to perform aircraft maintenance.

H. Weight and Balance Change

None.



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I. References

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

Structural Repair Manual (SRM), P/N 06-117755, latest revision.

2. MATERIAL INFORMATION

A. Materials

B. Consumables

The following consumables are required for this Service Bulletin.

Material	Specification	Use
CORROSION PREVENTIVE COMPOUNDS, WATER DISPLACING, ULTRA-THIN FILM	Zip-Chem D-5026NS or equivalent to spec. MIL-PRF-81309 Type II, class 1 or 2	Corrosion prevention
Scotch-Brite	Type A (Aluminum Oxide) fine and very fine.	Corrosion removal
Polythioether sealant	PRC-Desoto PR-2001 or equivalent	Cap seal
Lint Free Cloth		Cleaning

3. ACCOMPLISHMENT INSTRUCTIONS

A. Procedure

- (1) Make aircraft safe for maintenance. Refer to AMM 20-00-01 MAKE SAFE FOR MAINTENANCE.
- (2) Access to Nose Landing Gear drag brace is required.
- (3) Visually inspect the following exposed areas of the left and right main landing gear for corrosion. Refer to figure 1, items 1 through 20. If corrosion is noted clean corrosion using Scotch-brite. Clean area with soap and water and allow to dry. If corrosion can not be removed replace with new hardware. Do not disassemble for inspection unless corrosion is suspected, and further inspection is required.

NOTE: Do not use power tools to remove corrosion.

- (a) Item 1: Exposed portion of Aft Pintle Pin. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.
- (b) Item 2: Pivot Bolt on Upper Shock Strut. Cap-seal bolt and nut. Refer to AMM SUBTASK 20-08-00-051-361-008 DOME SEALING FASTENERS.
- (c) Item 3: Exposed portion of Shock Piston. Clean Area with a clean, lint-free cloth. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.

CAUTION: Do not get oil or grease on Tire, Brake, or Actuator.

- (d) Item 4: Shock Absorber WOW target, attach bolts, nut, washer, and body of WOW Switch. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.



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NOTE: do not apply corrosion preventative lubricant to sensor surface.

- (e) Item 5: Pivot Bolt on Lower Shock Strut. Cap-seal bolt and nut. Refer to AMM SUBTASK 20-08-00-051-361-008 DOME SEALING FASTENERS.
- (f) Item 6: Cross Bolt through Trailing Arm at Axle. Inspect cap seal and seal if necessary. Refer to AMM SUBTASK 20-08-00-051-361-008 DOME SEALING FASTENERS.
- (g) Item 7: Axle Nut, Axle threads, Cross Bolt, Cross Bolt Nut. After corrosion removal and/or after every tire change, clean the axle with a clean cloth and coat it except for the threads with MIL-G-81322. Coat threads with MIL-PRF-83483 Petrolatum prior to torquing the nut. After hardware installation, coat the nut and cross bolt with MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent per Table 3. Wipe off excess lubricant.
- (h) Item 8: Cross Bolt Nut through Trailing Arm at axle. Inspect cap seal and seal if necessary. Refer to AMM SUBTASK 20-08-00-051-361-008 DOME SEALING FASTENERS.
- (i) Item 9: Face of Main Pivot Pin , In-board and Out-board. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.
- (j) Item 10: Cross Bolt and nut Through Trailing Arm at Main Pivot Pin. This part should be cap sealed. Exposed portion of Main Pivot Pin. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.

NOTE: Do not get oil or grease on Tire, Brake, or Actuator.

- (k) Item 11: Side Stay assembly lower bearing. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess. Side Stay assembly lower trunnion attach bolt and Side Stay assembly lower trunnion attach nuts should be cap sealed. Inspect cap seal and seal if necessary. Refer to AMM SUBTASK 20-08-00-051-361-008 DOME SEALING FASTENERS.
- (l) Item 12: Lower Side Stay assembly Proximity Switch Target. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.
- (m) Item 13: Lower Side Stay assembly Proximity Switch Target bolts. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.
- (n) Item 14: Upper and Lower Side Stay Stop Bolt. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.
- (o) Item 15: Lower Side Stay assembly apex target, pivot bolt head, and nut. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess. Wipe off excess.
- (p) Item 16: Lower Side Stay assembly nut, washer, and body of Proximity Switch. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.

NOTE: Do not apply to sensor surface.

- (q) Item 17: Upper Side Stay assembly nut, washer, and body of Proximity Switch. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.

NOTE: Do not apply to sensor surface.



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- (r) Item 18: Exposed portion of Forward Pintle Pin. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.
 - (s) Item 19: Inboard and Out-board of exposed portions of Forward Pintle Pin Cross Bolt. Cap-seal bolt and nut. Refer to AMM SUBTASK 20-08-00-051-361-008 DOME SEALING FASTENERS.
 - (t) Item 20: Inboard and Out-board of exposed portions of AFT Pintle Pin Cross Bolt. Cap-seal bolt and nut. Refer to AMM SUBTASK 20-08-00-051-361-008 DOME SEALING FASTENERS.
- (4) Visually inspect the following exposed areas of the Nose Landing gear for corrosion. Refer to figure 2, items 1 through 14. If corrosion is noted clean corrosion using Scotch-brite. Clean area with soap and water and allow to dry. If corrosion can not be removed replace with new hardware. Do not disassemble for inspection unless corrosion is suspected, and further inspection is required.

NOTE: Do not use power tools to remove corrosion.

- (a) Item 1: Axle Hex. After corrosion removal and/or after every tire change, clean the axle with a clean cloth and coat the entire axle except for the threads with MIL-G-81322. Coat threads with MIL-PRF-83483 Petrolatum prior to torquing the nut. After hardware installation and final torque, coat the hex, nut, and lock ring with MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess lubricant.
- (b) Item 2: False Axle, False Axle Threads, False Axle Nuts. After corrosion removal and/or after every tire change, clean the axle with a clean cloth and coat the entire axle except for the threads with MIL-G-81322. Coat threads with MIL-PRF-83483 Petrolatum prior to torquing the nut. After hardware installation and final torque, coat the hex, nut, and lock ring with MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess lubricant.
- (c) Item 3: Axle Nut, Axle Threads, Cross Bolt, Cross Bolt Nut. After corrosion removal and/or after every tire change, clean the axle with a clean cloth and coat the entire axle except for the threads with MIL-G-81322. Coat threads with MIL-PRF-83483 Petrolatum prior to torquing the nut. After hardware installation and final torque, coat the hex, nut, and lock ring with MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess lubricant.
- (d) Item 4: Cross Bolt and Nut through Axle Fork. Inspect cap seal and seal if necessary. Refer to AMM SUBTASK 20-08-00-051-361-008 DOME SEALING FASTENERS.
- (e) Item 5: Exposed portion of Shock Piston. Clean Area with a clean, lint-free cloth. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.
- (f) Item 6: Drag Stay assembly lower attach bolt and nut. Inspect cap seal and seal if necessary. Refer to AMM SUBTASK 20-08-00-051-361-008 DOME SEALING FASTENERS.
- (g) Item 7: Pintle Pin Retaining Nut. Inspect cap seal and seal if necessary. Refer to AMM SUBTASK 20-08-00-051-361-008 DOME SEALING FASTENERS.
- (h) Item 8: Pintle Pin. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.
- (i) Item 9: Drag Stay Pintle cross bolt and cross bolt nut. Inspect cap seal and seal if necessary. Refer to AMM SUBTASK 20-08-00-051-361-008 DOME SEALING FASTENERS.
- (j) Item 10: Drag Stay Pintle Pin. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.



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- (k) Item 11: Drag Stay Pintle Pin. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.
 - (l) Item 12: Pintle Pin. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.
 - (m) Item 13: Drag Stay Pintle cross bolt and cross bolt nut. Inspect cap seal and seal if necessary. Refer to AMM SUBTASK 20-08-00-051-361-008 DOME SEALING FASTENERS.
 - (n) Item 14: Pintle Pin Retaining Nuts. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess.
- (5) Visually inspect the following exposed areas of the Nose Landing gear lower drag brace for corrosion. Refer to figure 3, items 1 through 9. If corrosion is noted clean corrosion using Scotch-brite. Clean area with soap and water and allow to dry. If corrosion can not be removed replace with new hardware. Do not disassemble for inspection unless corrosion is suspected, and further inspection is required.

NOTE: Do not use power tools to remove corrosion.

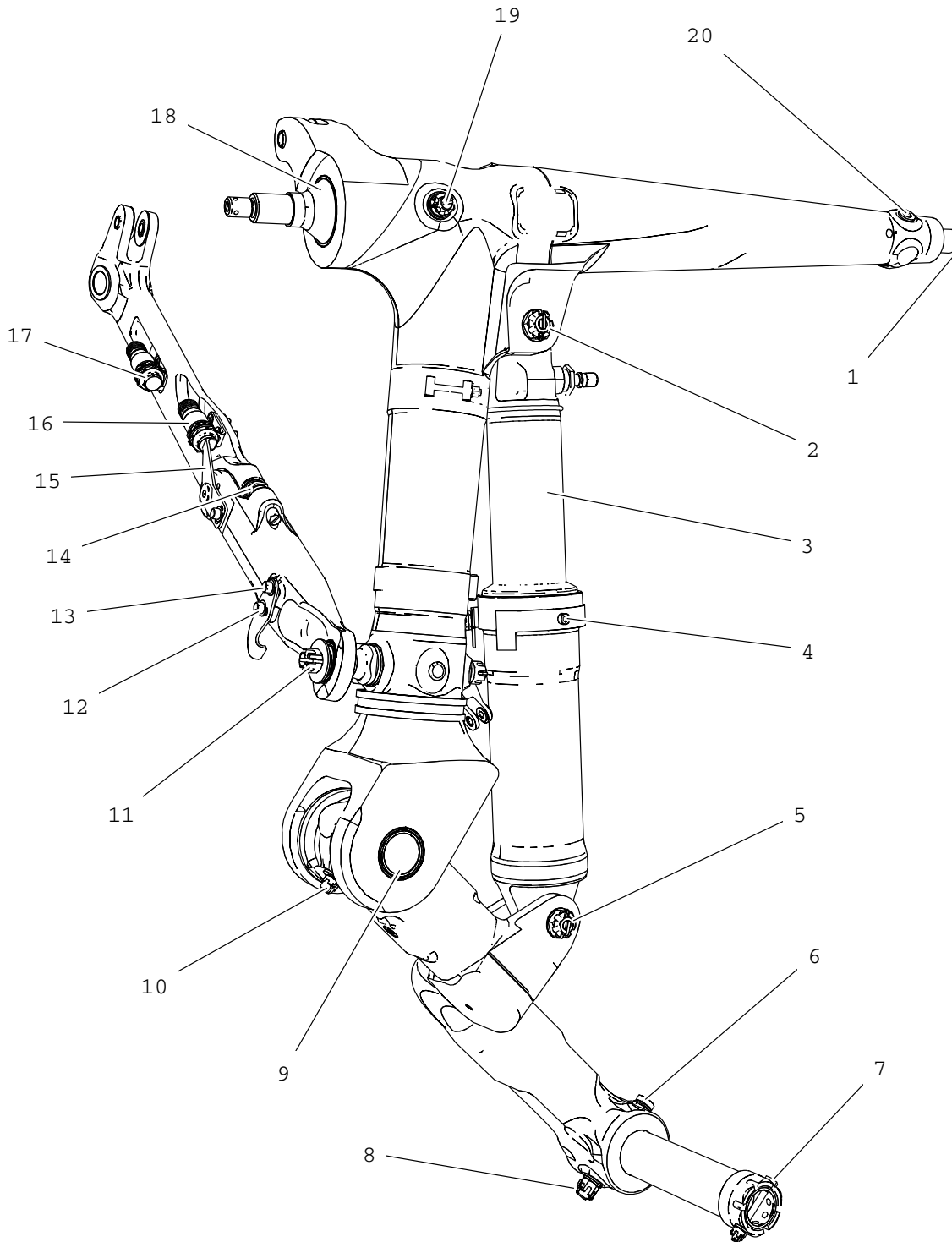
- (a) Item 1: Bolt and Nut. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess lubricant.
 - (b) Item 2: Bolt and Nut. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess lubricant.
 - (c) Item 3: Stop Bolt. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess lubricant.
 - (d) Item 4: Apex Bolt and Nut. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess lubricant.
 - (e) Item 5: Lower Side Stay Self-Aligning Bearing. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess lubricant.
 - (f) Item 6: Up-lock Target. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess lubricant.
 - (g) Item 7: Up-lock Target fasteners. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess lubricant.
 - (h) Item 8: Up-lock Target fasteners. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess lubricant.
 - (i) Item 9: Proximity Switch and Bracket. Bush-on or spray-on a light coat of MIL-PRF-81309 Type II, class 1 or 2 corrosion preventative lubricant or equivalent. Wipe off excess lubricant.
- NOTE: Do not apply to sensor surface.
- (6) Install all items that may have been removed for access.
- (7) If all other maintenance is complete, return aircraft to service. Refer to AMM 20-00-02-051-801 RETURN TO SERVICE (AFTER MAINTENANCE).



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AVIATION

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Figure 1 (Sheet 1 of 1)



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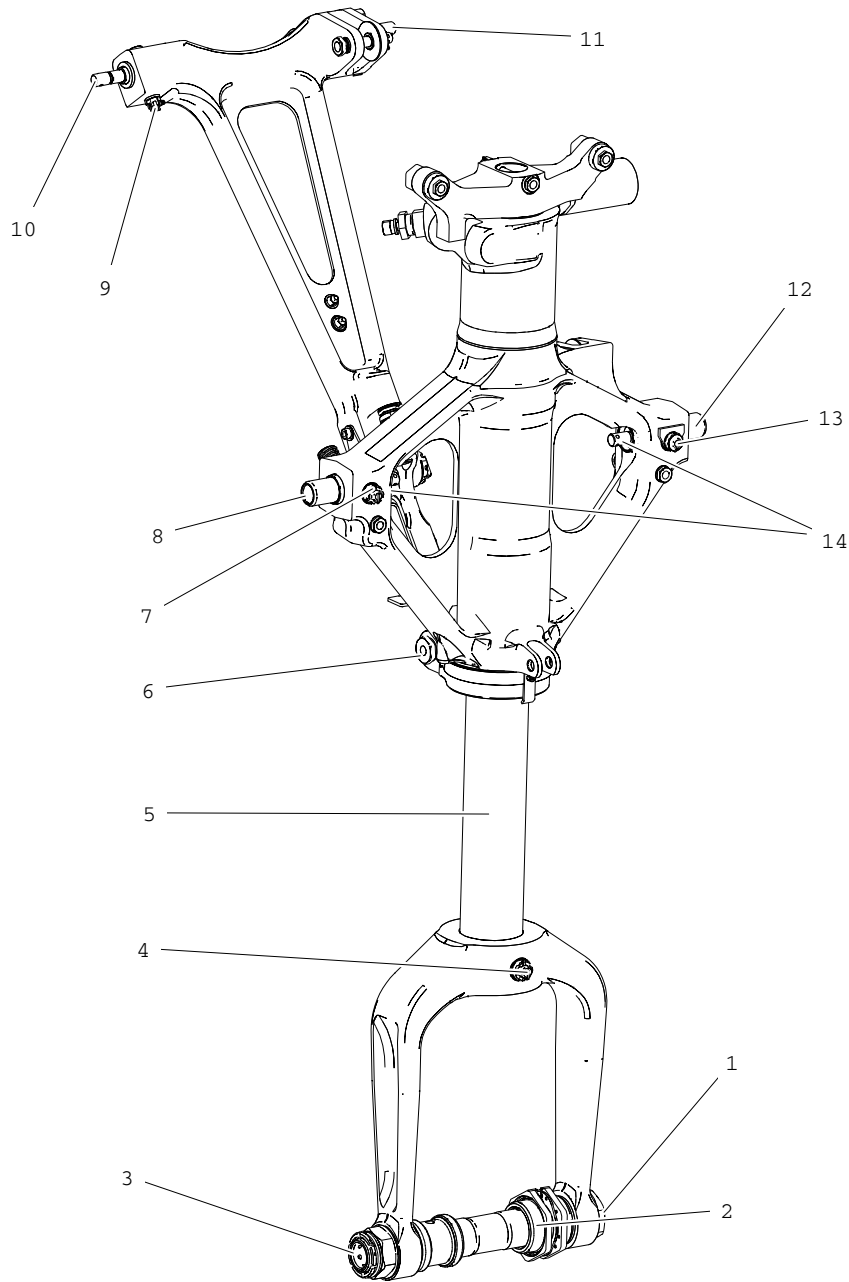


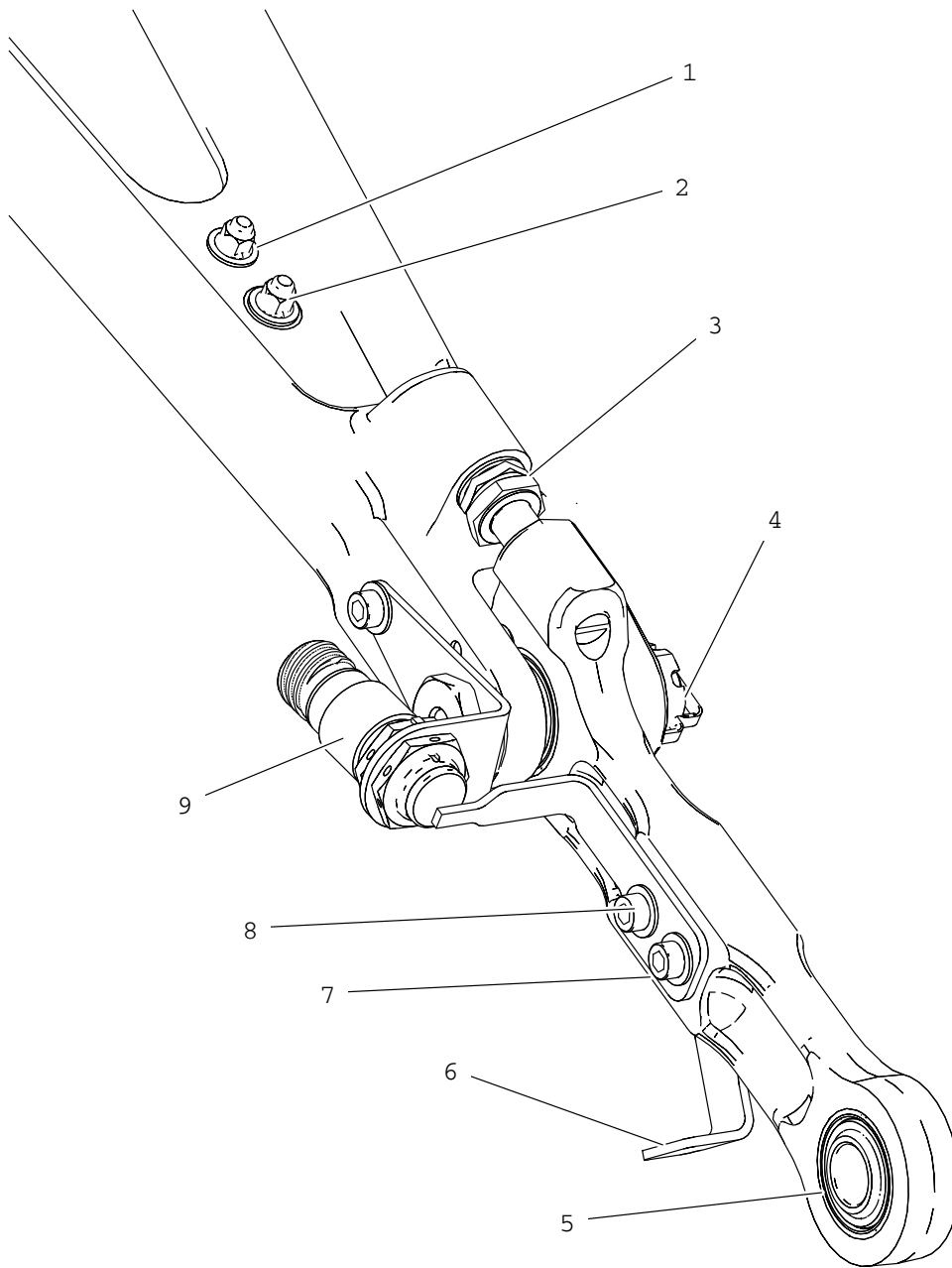
Figure 2 (Sheet 1 of 1)



ECLIPSE
AVIATION

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Figure 3 (Sheet 1 of 1)



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B. Limitations and Procedures

This is a one time inspection. Continued service requirements are outlined in the appropriate Aircraft Maintenance Manual.

C. Cost

Materials and Labor will be supplied by Eclipse Aviation Corporation at no charge to the aircraft owner if accomplished within six months from the date of this Service Bulletin, and accomplished at an Eclipse Aviation Service Center.

4. RECORD OF COMPLIANCE

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

5. NOTIFYING ECLIPSE AVIATION

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

MAILING ADDRESS	Eclipse Aviation Corporation ATTN: Customer Care 2503 Clark Carr Loop SE Albuquerque, NM 87106
Fax	1-505-241-8802
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