

1. Approving Civil Aviation
Authority/Country:

2.

3. Form Tracking Number:

FAA/UNITED STATES

AUTHORIZED RELEASE CERTIFICATE

B13762830-001

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

4. Organization Name and Address:

MOOG INC.
6860 SENECA STREET, PLANT 24
ELMA, NY 14059
UNITED STATES OF AMERICA

5. Work Order/Contract/Invoice Number:
31878913

(ND1R344K)

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
001	EM SPOILER ACTUATOR	C99144-006	1	B4076	REPAIRED

12. Remarks:

TIME SINCE NEW: 12685.000 CYCLES SINCE NEW: 2654

THE WORK REFERENCED IN BLOCK 11 WAS CARRIED OUT WITH REFERENCE TO THE FOLLOWING MAINTENANCE DATA.

MODEL -176-160P

SERVICE BULLETIN N/A

REF. CMM 27-61-12 REV.18

THE ATTACHED RETURN UNIT REPORT B13762830 DESCRIBES THE WORK PERFORMED.

MOOG INC. CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 11 / 12 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND WITH RESPECT TO THAT WORK, THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA PART 145 APPROVAL NUMBER: EASA 145.4685

13a. Certifies the items identified above were manufactured in conformity to:

14a. ☒ 14 CFR 43.9 Return to Service

☒ Other regulation specified in Block 12

- ☐ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 12.

Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:

13c. Approval/Authorization No.:

14c. Approval/Certificate No.:

13d. Name (Typed or Printed):

13e. Date (dd/mm/yyyy):

14d. Name (Typed or Printed):

14e. Date (dd/mm/yyyy):

ROBERT CONSHAFTER

ND1R344K

07/OCT/2022

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

MOOG INC.

AIRCRAFT GROUP
EAST AURORA, NEW YORK 14052-0018
TIME PRINTED: 17442185

RETURN UNIT REPORT (CUSTOMER)

RUR: B13762830
SHIPPED MODEL/PART: C99144-006
SHIPPED SERIAL NBR: B4076

RCVD FROM NAME/LOCATION: EXG/KLM
RCVD MODEL/PART: C99144-006

DIV: B
SALES ORDER NO: BRR0802111
SALES ORDER ITEM: 001

RCVD SERIAL NBR: B4076
CUSTOMER PO#: 31878913
TIME SINCE NEW: 12685.000
CYCLES SINCE NEW: 2654

RMA#: 0
CUST AUTHORIZATION RGD.: (Y/N)
WITHIN WARRANTY: N (Y/N)
RECALLED: N (Y/N)
FAILURE ANALYSIS RGD.: (M/C/N)

DATE RECEIVED: 09/02/22
PROD/RFS: RFS
A/C #: HZ-AR23
REMOVAL DATE: 08/07/22

DAYS ARO: 10
DATE QUOTE PRINTED: 09/29/22
DATE AUTHORIZATION RECVD:

PACKAGE ID#: 777825900548
BILL TO CUSTOMER: 52045

RECVD SERIAL NBR DATE OF MFG:
CUSTOMER REPORT NO:
MOOG FR/FAR:
REASON FOR RETURN: P

FAILURE VERIFIED: N
TIME OF FAILURE: F
RESPONSIBILITY: C

RECEIVER
COMMENTS:

COMMENTS
09/06/22 RFR: SPOILERS EICAS MSG DISP

WORKSCOPE: TEST & REPAIR (IF NEEDED) ACC LATEST CMM

INSPECTION AND PERFORMANCE REPORT
09/12/22 REC/INSP. VISUAL- MISSING FASTENERS (MOTOR, MOTOR BRAKE CAP,
JUNCTION BOX, AND P-CLAMPS), TORN P-CLAMPS, RAISED MATERIAL
ON MANIFOLD, CHIPPED BUSHINGS, TORN MOTOR CABLE, UNIT IS
SHEARED, BROKEN TIE WIRE.
NO INCOMING TEST DUE TO PHYSICAL DAMAGE AND SHEARED UNIT.
REPAIR UNIT IAW CMM 27-61-12 REV. 18.
TEARDOWN: REPLACE- MOTOR BRAKE ASSY., SHEAR PIN, AFFECTED
FASTENERS/WASHERS, BUSHINGS, P-CLAMP, ALL AFFECTED O-RINGS
AND SEALS.
REMOVED- MOTOR BRAKE ASSY. S/N 5605.
BLEND AND APPLY CHEMICAL CONVERSION COAT TO RAISED MATERIAL

09/12/22

Based on information provided to Moog and to the best of our knowledge, this part was not obtained from any Government or Military source and has not been
subject to severe stress or heat (as in a major engine failure, accident, or fire).

SIGNATURE:

TITLE:

Final Inspector

DATE:

OCT 07 2022

MOOG INC.

AIRCRAFT GROUP
EAST AURORA, NEW YORK 14052-0018
TIME PRINTED: 17442185

RETURN UNIT REPORT (CUSTOMER)

RUR: B13762830
SHIPPED MODEL/PART: C99144-006
SHIPPED SERIAL NBR: B4076

RCVD FROM NAME/LOCATION: EXG/KLM
RCVD MODEL/PART: C99144-006
RCVD SERIAL NBR: B4076

COMMENTS

09/28/22 ON MANIFOLD. IAW CMM 27-61-12 REV.18. REPAIR UNIT. TEARDOWN: (ADDENDUM) UNIT NOW FAILS POWER OFF, CHECK TAIL STOCK SHIMMING, AND MIDDLE BEARING HOUSING SHIMMING. REPLACE AFFECTED O-RINGS, FASTENERS. FAILURE WAS NOT DIAGNOSED AT INCOMING DO TO UNIT BEING SHEARED AND UNABLE TO PERFORM INCOMING AUTOMATED TESTING.

09/30/22 WORK PERFORMED: REPLACED SHEAR PIN, MOTOR BRAKE S/N:5605 WITH S/N:5556, TAIL STOCK BUSHING(S), RESHIMMED MIDDLE BEARING HOUSING. REPLACED AFFECTED O-RINGS, SEALS, FASTENERS, AND OTHER LISTED PARTS. ALLODINED SCRATCHES ON MANIFOLD. TEST: UNIT REPAIRED AND PASSES TESTING IAW CMM 27-61-12 REV.18.

10/07/22

Based on information provided to Moog and to the best of our knowledge, this part was not obtained from any Government or Military source and has not been subject to severe stress or heat (as in a major engine failure, accident, or fire).

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RCVD SERIAL NBR: B4076

SHIPPED UNITS HISTORY

MODEL/PART SHIPPED TYPE RUR/WO
*** NO HISTORY FOUND ***

PART NUMBER	PART DESCRIPTION	QTY	CATALOG UNIT PRICE	UNIT PRICE	EXTENDED AMOUNT
CB05318-003	CABLE TIE .13-1.88BDL SLFLKG 7	4			
CB23527-001	PIN SHEAR	1			
MS28775-010	ORING 0.239 .070 BUNA 7OD +275	1			
MS28775-254	ORING 5.484 .139 BUNA 7OD +275	1			
CA35667-001	BUSHING LINED	2			
AS21919WDE08	CLAMP LOOP CUSH 0.500ID WEDGE	4			
NAS1352C3H8	SCR SOC .190-24 0.50L 302+PAS	2			
NAS1149C0363R	WSHR FL .203ID 438OD .063 300	1			
CA31843-005-RP	REPAIR MOTOR BRAKE ASSEMBLY	1			
MS9218-13	BOLT 12P 250-28 938L STL NK	4			
NAS1149C0432R	WSHR FL .265ID .500OD .032 300	4			
MS28775-110	ORING 0.362 .103 BUNA 7OD +275	1			
MS28775-113	ORING 0.549 .103 BUNA 7OD +275	1			
MS28775-238	ORING 3.484 .139 BUNA 7OD +275	1			
CC05366-005	SEAL ROTARY SHAFT	1			
920564-011	BRG TRO TUB 2.0625ID 2.6250OD	1			
CB10450-001	LOCK RETAINER	1			

** END OF DETAIL **

PARTS
LABOR

TOTAL PRICE

Based on information provided to Moog and to the best of our knowledge, this part was not obtained from any Government or Military source and has not been subject to severe stress or heat (as in a major engine failure, accident, or fire).