



ENGINEERING ORDER



T00KCP2K

AIRCRAFT ID

CC-CXK

Page: 1 / 3

TASK NAME

ETOPS

AD-B767-27-A0016 (JIC) (FLIGHT CONTROLS / RUDDER AND ELEVATOR CONTROL SYSTEM / FREEPLAY INSPECTION)

TASK INFORMATION

OEM Part Number

767-316FG

Serial N°

37802

Effective Code

021

Task Priority

MANDAT

Organization

CMA DGAC N° 593

W/P Line N°

1

Work Location

AUH/ADAT HGR

Work Order

WO - 140755053

W/P Barcode

T00L9DZB

Parent Inventory

B767F - CC-CXK

Inventory

27-00-00 - FLIGHT CONTROLS

Panels

Zones

DESCRIPTION

JIC-INSPECTION

Engineering Instructions

1.- Applicability : All B767-300 / -300F airplanes certificated in any category. 2.- This Engineering Order give instructions for Freeplay inspection at the Rudder and Elevator, for prevent excessive vibration of the airframe during flight , which could result in loss of control of the airplane. 3.- This Engineering Order cancel and supersedes to LAN Engineering Order AD-27-0156 by the new LATAM Engineering Order Format. Previous inspections performed by the Engineering Order AD-27-0156 are accepted and the further inspections will be accomplished by this Engineering Order. 4.- This Engineering Order complies with inspection requirement of AD 2007-24-08 , paragraph (g), based in accomplishment instructions of SB 767-27-0197 R1 5.- The AD 2007-24-08 , paragraphs (i) and (j) , require lubrication of Rudder and Elevator. The requirements of AD 2007-24-08 , paragraphs (i) and (j), are controlled by the Engineering Order AD-B767-27-A0053 with your own inspection program and not necessary will be coincident with each Rudder or Elevator freeplay inspection. 6.- The AD 2007-24-08, paragraph (k), require do all applicable actions of AD 2001-04-09, prior or concurrent with the accomplishment of each elevator freeplay measurement specified in paragraph (g). 7.- The requirements of AD 2007-24-08 , paragraph (k), are controlled by the Engineering Order AD-B767-27-A0010 with your own inspection program and not necessary will be coincident with each Elevator freeplay inspection. 8.- The accomplishment instructions of the Engineering Order AD-B767-27-A0016 satisfy the requirement of Maintenance Plan (PML) Task 27-073-00-XX and Task 27-076-00-XX, so , those Job Cards will be given accomplished. NOTE : If by any reason the Engineering Order AD-B767-27-A0016 is terminated, the accomplishment of the Task 27-073-00-XX and Task 27-076-00-XX must be restored.

Action Taken

PARTS ON/OFF

DESCRIPTION

QTY

PN OFF

SN OFF

QTY

PN ON

SN ON

3ZN75-UNK (CLAMP COLLAR)

1.0

TOOLS

QTY

DESCRIPTION

PART NUMBER

BATCH N°

1

CLAMP ASSY

LAN55-2005

1

SOLID U JOINT 1/2"

1L730

1

BASE MAGNETICA

3657

1

RUDDER FORCE TEST FIXTURE B767

LAN55-2006

1

TRAILER JACK 2000Lbs.10a23-3/4

42950

1

Measurement Tool - Rudder & Elevator Power Control Actuator

LAN55-2004

1

ADAPTER JACK TAIL B-767

00460-145-000

1

ADAPTER

LAN55-2002

1

PUSH PULL GAUGE ASSY

DG-1000N

1

KIT GAGE ASSY-PUSH-PULL (CONTROL TOOL)



97A27003000007

1

DIAL INDICATOR LUG BACK 0-20 mm RANGE 0,01 mm
ACCURACY

2050S

| SIGNATURE | | | |
|---|-----------|------------------|-----------|
| The signer(s) below certifies that the work has been completed satisfactorily | | | |
| SKILL | Signed by | Date - Time(UTC) | Signature |
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| INSP | | | |

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|  | <div>ENGINEERING ORDER</div> <div></div> <div>T00LFQRF</div> | <div>AIRCRAFT ID</div> <div>CC-CXK</div> <div>Page: 1 / 2</div> |
|---|--|---|

| TASK NAME | ETOPS |
|--|-------|
| AD-B767-27-A0235 PART 1 (JIC) (FLIGHT CONTROLS - Horizontal Stabilizer - Actuator Maintenance Changes) | |

| TASK INFORMATION | | | | |
|------------------|-------------|----------------------------|----------------|---------------|
| OEM Part Number | Serial N° | | Effective Code | Task Priority |
| 767-316FG | 37802 | | 021 | MANDAT |
| Organization | W/P Line N° | Work Location | Work Order | W/P Barcode |
| CMA DGAC N° 593 | 2 | AUH/ADAT HGR | WO - 140755053 | T00L9DZB |
| Parent Inventory | | Inventory | | |
| B767F - CC-CXK | | 27-00-00 - FLIGHT CONTROLS | | |
| Panels | | Zones | | |
| --- | | --- | | |

| DESCRIPTION |
|---|
| 1. Accomplishment of this Engineering Order will help to decrease the probability that the horizontal stabilizer actuator will become worn prematurely. This actuator controls the position of the horizontal stabilizer. It is possible that the flight crew cannot safely control the airplane if the actuator ballnut and ballscrew become worn sufficiently to disengage. 2. This Engineering Order complies with the AD 2008-06-06 and it is divided in three parts as follow: a. Part 1: Horizontal Stabilizer Actuator- Detailed Inspection. - This Part gives the instructions to do a detailed inspection for metal particles or corrosion products in the grease on the actuator ballnut and ballscrew. Clean the actuator ballscrew. Visually inspect the actuator ballnut and ballscrew for damage, cracks, corrosion, and worn areas. Inspect for grease leakage. Inspect for lifted or damaged ballnut return tubes. Inspect the external areas of the actuator, and the areas below the actuator, for loose ball bearing. Move the horizontal stabilizer to a different setting. Replace the actuator before further light if any of these conditions exist. Lubricate the actuator ballnut and ballscrew. - This Part complies with paragraphs (f) and (g). b. Part 2: Horizontal Stabilizer Actuator - Ballnut and Ballscrew Lubrication. - This Part gives the instructions to lubricate the actuator ballnut and ballscrew. - This Part complies with paragraphs (f) and (g). c. Part 3: Horizontal Stabilizer Actuator - Ballscrew-To-Ballnut Freeplay Inspection. - This Part gives the instructions to measure the freeplay between the actuator ballnut and ballscrew. Replace the actuator if the freeplay is found to be more than specified limit. Lubricate the actuator ballnut and ballscrew. - This Part complies with paragraphs (f) and (g). 3. This Engineering Order cancelled and superseded EO AD-27-0168 Part 3. 4. This engineering order complies with the task MPD 27-030-00. |

| Action Taken |
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AD-B767-27-A0235 PART 1 (JIC) - FLIGHT
CONTROLS - Horizontal Stabilizer - Actuator
Maintenance Changes [T00LFQRF]

CC-CXK

Page: 2 /2

PARTS ON/OFF

| DESCRIPTION | QTY | PN OFF | SN OFF | QTY | PN ON | SN ON |
|---|-----|--------|--------|-----|-------|-------|
| 27-41-10-01-037 (STAB TRIM BALLSCREW ACTUATOR) - ONLY | | | | | | |
| BMS3-33 (GREASE) | | | | | | |
| MIL-H-5606-UNK (HYDRAULIC OIL) | | | | | | |

TOOLS

| QTY | DESCRIPTION | PART NUMBER | BATCH N° |
|-----|---|-------------|----------|
| 1 | AMORT/ESTRUCTU/1.20MT C/VIDA | ACV-120E | |
| 1 | HOIST HANDLE ACTUATOR TRIM H/S (P. LOAD 1,340LBS, W. LOAD 670LBS) | A27006-41 | |
| 1 | LOCK EQUIPMENT, HORIZONTAL STABILIZER (CONTROL TOOL) | A55001-22 | |

SIGNATURE

The signer(s) below certifies that the work has been completed satisfactorily

| SKILL | Signed by | Date - Time(UTC) | Signature |
|-------|-----------|------------------|-----------|
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|  | <div>ENGINEERING ORDER</div> <div></div> <div>T00LXC7S</div> | <div>AIRCRAFT ID</div> <div>CC-CXK</div> <div>Page: 1 / 2</div> |
|---|--|---|

| TASK NAME | ETOPS |
|--|-------|
| AD-B767-27-A0235 PART 2 (JIC) (FLIGHT CONTROLS - Horizontal Stabilizer - Actuator Maintenance Changes) | |

| TASK INFORMATION | | | | |
|------------------|-------------|----------------------------|----------------|---------------|
| OEM Part Number | Serial N° | | Effective Code | Task Priority |
| 767-316FG | 37802 | | 021 | MANDAT |
| Organization | W/P Line N° | Work Location | Work Order | W/P Barcode |
| CMA DGAC N° 593 | 3 | AUH/ADAT HGR | WO - 140755053 | T00L9DZB |
| Parent Inventory | | Inventory | | |
| B767F - CC-CXK | | 27-00-00 - FLIGHT CONTROLS | | |
| Panels | | Zones | | |
| --- | | --- | | |

| DESCRIPTION |
|---|
| 1. Accomplishment of this Engineering Order will help to decrease the probability that the horizontal stabilizer actuator will become worn prematurely. This actuator controls the position of the horizontal stabilizer. It is possible that the flight crew cannot safely control the airplane if the actuator ballnut and ballscrew become worn sufficiently to disengage. 2. This Engineering Order complies with the AD 2008-06-06 and it is divided in three parts as follow: a. Part 1: Horizontal Stabilizer Actuator- Detailed Inspection. - This Part gives the instructions to do a detailed inspection for metal particles or corrosion products in the grease on the actuator ballnut and ballscrew. Clean the actuator ballscrew. Visually inspect the actuator ballnut and ballscrew for damage, cracks, corrosion, and worn areas. Inspect for grease leakage. Inspect for lifted or damaged ballnut return tubes. Inspect the external areas of the actuator, and the areas below the actuator, for loose ball bearing. Move the horizontal stabilizer to a different setting. Replace the actuator before further light if any of these conditions exist. Lubricate the actuator ballnut and ballscrew. - This Part complies with paragraphs (f) and (g). b. Part 2: Horizontal Stabilizer Actuator - Ballnut and Ballscrew Lubrication. - This Part gives the instructions to lubricate the actuator ballnut and ballscrew. - This Part complies with paragraphs (f) and (g). c. Part 3: Horizontal Stabilizer Actuator - Ballscrew-To-Ballnut Freeplay Inspection. - This Part gives the instructions to measure the freeplay between the actuator ballnut and ballscrew. Replace the actuator if the freeplay is found to be more than specified limit. Lubricate the actuator ballnut and ballscrew. - This Part complies with paragraphs (f) and (g). 3. This Engineering Order cancelled and superseded EO AD-27-0168 Part 3. 4. This engineering order complies with the task MPD 27-027-00. |

| Action Taken |
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| PARTS ON/OFF | | | | | | |
|---|-----|--------|--------|-----|-------|-------|
| DESCRIPTION | QTY | PN OFF | SN OFF | QTY | PN ON | SN ON |
| 27-41-10-01-037 (STAB TRIM BALLSCREW ACTUATOR) - ONLY | | | | | | |
| BMS3-33 (GREASE) | | | | 1.0 | | |

| TOOLS | | | |
|-------|------------------------------|-------------|----------|
| QTY | DESCRIPTION | PART NUMBER | BATCH N° |
| 1 | AMORT/ESTRUCTU/1.20MT C/VIDA | ACV-120E | |

| SIGNATURE | | | |
|---|-----------|------------------|-----------|
| The signer(s) below certifies that the work has been completed satisfactorily | | | |
| SKILL | Signed by | Date - Time(UTC) | Signature |
| | | | |
| INSP | | | |

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|  | <div>ENGINEERING ORDER</div> <div></div> <div>T00KG6H3</div> | <div>AIRCRAFT ID</div> <div>CC-CXK</div> <div>Page: 1 /2</div> |
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| TASK NAME | ETOPS |
|---|-------|
| AD-B767-34-A2383 PART2 (LAN) (JIC) (NAVIGATION - Air Data System - Altimetry System Test) | |

| TASK INFORMATION | | | | |
|------------------|-------------|--|----------------|---------------|
| OEM Part Number | Serial Nº | | Effective Code | Task Priority |
| 767-316FG | 37802 | | 021 | MANDAT |
| Organization | W/P Line Nº | Work Location | Work Order | W/P Barcode |
| CMA DGAC Nº 593 | 4 | AUH/ADAT HGR | WO - 140755053 | T00L9DZB |
| Parent Inventory | | Inventory | | |
| B767F - CC-CXK | | (RH) AIR DATA COMPUTER (PN: 4040800-916, SN: 133503) | | |
| Panels | | Zones | | |
| --- | | 117 - Area outbd & above NLG Wheel Well, Left 118 - Area outbd & above NLG Wheel Well, Right 119 - Main Equip Ctr, Left & Right 121 - Fwd Cargo Compt, Left 122 - Fwd Cargo Compt, Right 211 - Control Cabin - Sect 41 - Left 212 - Pass Cabin - Sect 41 - Right | | |

| DESCRIPTION |
|--|
| 1. The inspection and test stipulated in this Engineering Order (E.O.) was divided in 4 parts: PART 1: Inspection and test to Pitot/Static system. PART 2: Test to the altimeter, which are the Air Data Computer type P/N: 4040800-906/916/917. PART 3: Test to the Integrated Standby Flight Display (ISFD) Installed in production line, not applicable to aircrafts operated by LATAM Brasil. PART 4: Test to the Integrated Standby Flight Display (ISFD) Installed by STC ST03416AT. 2. This E.O. applies for aircraft B767 with ADC and ISFD installed. 3. All the parts must be accomplished within 24 months since the last inspections and tests specified by "Reference Documents". Then all the parts must be repeated every 24months. 4. Unit repaired under CMM 34-12-44 was certified in accordance with FAR 91.411 Part 43, Appendix E (b) & (C). (DAN 121.1217 (A)). It is not necessary perform the test again. Only perform the install procedure applicable in the AMM. 5. This E.O. replaces the EO DA-34-0288-05 |
| Enginnering Instructions |
| Install a DECAL P/N LA-08-066 |

| Action Taken |
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| |

| PARTS ON/OFF | | | | | | |
|--------------------------------|-----|--------|--------|-----|-----------|-----------|
| DESCRIPTION | QTY | PN OFF | SN OFF | QTY | PN ON | SN ON |
| 3M-471-NAC (YELLOW VINYL TAPE) | | | | 1.0 | | |
| LA-08-066-NAC (DECAL ADC) | | | | 1.0 | LA-08-066 | BN 712047 |

| TOOLS | | | |
|-------|---|---------------|----------|
| QTY | DESCRIPTION | PART NUMBER | BATCH N° |
| 1 | CARRO NITROGENO - CONEXION. ALTA (HASTA 3500PSI) Y BAJA (HASTA 1000PSI) | 9928930 | |
| 1 | PROTACTOR ANGLE FLOW SENSOR | A34012-2 | |
| 1 | KIT PRUEBA SISTEMA PITOT-STATI (CONTROL TOOL) | LANAH-063 | |
| 1 | AIR DATA CALIBRATOR (CONTROL TOOL) | ADA767-612 | |
| 1 | PITOT STATIC TEST SET | DPS-400 | |
| 1 | TOMA PITOT STAT 767 | PSS767-00-3-4 | |
| 1 | Analyzer - Data Bus, ARINC 429 | COM-1562 | |

| SIGNATURE | | | |
|---|-----------|------------------|-----------|
| The signer(s) below certifies that the work has been completed satisfactorily | | | |
| SKILL | Signed by | Date - Time(UTC) | Signature |
| | | | |
| INSP | | | |



ENGINEERING ORDER



T00KH45Z

AIRCRAFT ID

CC-CXK

Page: 1 / 2

TASK NAME

ETOPS

AD-B767-34-A2383 PART2 (LAN) (JIC) (NAVIGATION - Air Data System - Altimetry System Test)

TASK INFORMATION

OEM Part Number

767-316FG

Serial Nº

37802

Effective Code

021

Task Priority

MANDAT

Organization

CMA DGAC Nº 593

W/P Line Nº

5

Work Location

AUH/ADAT HGR

Work Order

WO - 140755053

W/P Barcode

T00L9DZB

Parent Inventory

B767F - CC-CXK

Inventory

(LH) AIR DATA COMPUTER (PN: 4040800-917, SN: 34381194)

Panels

Zones

117 - Area outbd & above NLG Wheel Well, Left
118 - Area outbd & above NLG Wheel Well, Right
119 - Main Equip Ctr, Left & Right
121 - Fwd Cargo Compt, Left
122 - Fwd Cargo Compt, Right
211 - Control Cabin - Sect 41 - Left
212 - Pass Cabin - Sect 41 - Right

DESCRIPTION

1. The inspection and test stipulated in this Engineering Order (E.O.) was divided in 4 parts: PART 1: Inspection and test to Pitot/Static system. PART 2: Test to the altimeter, which are the Air Data Computer type P/N: 4040800-906/916/917. PART 3: Test to the Integrated Standby Flight Display (ISFD) Installed in production line, not applicable to aircrafts operated by LATAM Brasil. PART 4: Test to the Integrated Standby Flight Display (ISFD) Installed by STC ST03416AT. 2. This E.O. applies for aircraft B767 with ADC and ISFD installed. 3. All the parts must be accomplished within 24 months since the last inspections and tests specified by "Reference Documents". Then all the parts must be repeated every 24months. 4. Unit repaired under CMM 34-12-44 was certified in accordance with FAR 91.411 Part 43, Appendix E (b) & (C). (DAN 121.1217 (A)). It is not necessary perform the test again. Only perform the install procedure applicable in the AMM. 5. This E.O. replaces the EO DA-34-0288-05

Engineering Instructions

Install a DECAL P/N LA-08-066

| Action Taken |
|--------------|
| |

| PARTS ON/OFF | | | | | | |
|--------------------------------|-----|--------|--------|-----|-----------|-----------|
| DESCRIPTION | QTY | PN OFF | SN OFF | QTY | PN ON | SN ON |
| 3M-471-NAC (YELLOW VINYL TAPE) | | | | 1.0 | | |
| LA-08-066-NAC (DECAL ADC) | | | | 1.0 | LA-08-066 | BN 987236 |

| TOOLS | | | |
|-------|---|---------------|----------|
| QTY | DESCRIPTION | PART NUMBER | BATCH N° |
| 1 | AIR DATA CALIBRATOR (CONTROL TOOL) | ADA767-612 | |
| 1 | PITOT STATIC TEST SET | DPS-400 | |
| 1 | Analyzer - Data Bus, ARINC 429 | COM-1562 | |
| 1 | TOMA PITOT STAT 767 | PSS767-00-3-4 | |
| 1 | CARRO NITROGENO - CONEXION. ALTA (HASTA 3500PSI) Y BAJA (HASTA 1000PSI) | 9928930 | |
| 1 | PROTACTOR ANGLE FLOW SENSOR | A34012-2 | |
| 1 | KIT PRUEBA SISTEMA PITOT-STATI (CONTROL TOOL) | LANAH-063 | |

| SIGNATURE | | | |
|---|-----------|------------------|-----------|
| The signer(s) below certifies that the work has been completed satisfactorily | | | |
| SKILL | Signed by | Date - Time(UTC) | Signature |
| | | | |
| INSP | | | |