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DDG 32-45-01-01 Electric Brake Actuator Inoperative - Preparation

Data Module (DM):	DMC-B787-A-32-00-00-25A-721B-A	Issue 072, 30 Jun 2019
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THIS PRINTED COPY IS APPLICABLE TO THIS AIRPLANE:

	Operator		Manufacturer			
Model Series	**Identification Code**	**Effectivity Code**	**Variable Number**	**Serial Number**	**Line Number**	**Registry**
787-8	HNA	009	ZA438	34942	0262	B-2750

The applicability information below is referenced at the lower left of each page to indicate the page applicability. These references are valid only for this print copy only.

DM Applicability (Data Module applicability)
001-010, 101-138;

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Preparation

References

Reference	Title
AMM B787-A-31-61-00-07A-110B-A	Primary Display System Show a Maintenance Page – Software Operation
AMM B787-A-32-00-00-18A-721B-A	DDG 32-45-01 Main Landing Gear Wheel Brake Inoperative – Preparation
AMM B787-A-32-00-30-00A-520A-A	Landing Gear Downlock Pins – Removal
AMM B787-A-32-00-30-00A-720A-A	Landing Gear Downlock Pins – Installation
AMM B787-A-32-45-08-02C-520A-A	Electric Brake Actuator Gear Train – Removal

Preliminary Requirements

Location Zones

Zone	Area
211	Flight Compartment, Left
212	Flight Compartment, Right
731	Left Main Landing Gear
741	Right Main Landing Gear

Support Equipment

NOTE :: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1505	Chocks - Wheel (Part #: ALPHACHOCKS SERIES 3, Supplier: SEPJ8, A/P Effectivity: 787-10, -8, -9) (Part #: PF10-010, Supplier: 3D5B2, A/P Effectivity: 787-10, -8, -9) (Part #: W88, Supplier: 9L752, A/P Effectivity: 787-10, -8, -9)
STD-1107	Gauge - Feeler, 0.0 - 0.5 Inch, Readable to 1/1000th
SPL-14064	Dispatch Eqpt - Brake / EBA Connector Covers (Part #: K32021-1, Supplier: 81205, A/P Effectivity: 787-10, -8, -9)

Procedure

1. DDG 32-45-01-01 Electric Brake Actuator Inoperative - Preparation

A. General

(1) This task has the steps to complete the maintenance requirements in the Dispatch Deviations Guide (DDG).

(2) This task gives the maintenance steps which prepare the airplane for flight with an Electric Brake Actuator (EBA) and associated Electric Brake Actuator Controller (EBAC) sub-channel inoperative.

(3) EICAS Status Messages that can be related to this DDG item:

(a) BRAKE 1 ACTUATOR

(b) BRAKE 2 ACTUATOR

(c) BRAKE 3 ACTUATOR

(d) BRAKE 4 ACTUATOR

(e) BRAKE 5 ACTUATOR

(f) BRAKE 6 ACTUATOR

(g) BRAKE 7 ACTUATOR

(h) BRAKE 8 ACTUATOR

B. Prepare to Deactivate the Electric Brake Actuator (EBA).
(Figure 1, Electric Brake Actuator Inoperative)

WARNING :: MAKE SURE THE LANDING GEAR DOWNLOCK PINS ARE INSTALLED. THIS WILL PREVENT ACCIDENTAL RETRACTION OF THE LANDING GEAR, INJURY TO PERSONS, AND DAMAGE TO EQUIPMENT.

(1) Make sure the downlock pins are installed in the nose and main landing gear. If the downlock pins are not installed, then do this task: Landing Gear Downlock Pins - Installation, AMM B787-A-32-00-30-00A-720A-A.

(2) Make sure that the wheel chock, COM-1505, are installed at the wheels.

(3) If necessary, identify the EBA that will be deactivated.

(a) Look at the brake data on the Landing Gear Brakes Maintenance Page.

NOTE :: If necessary, refer to this task: Primary Display System Show a Maintenance Page - Software Operation, AMM B787-A-31-61-00-07A-110B-A.

(b) Write down the EBA number and brake number that shows “EBA” in the % EBA FORCE column.

C. Deactivate the Inoperative Electric Brake Actuator (EBA) with the Central Maintenance Computing Function (CMCF).

(1) Deactivate the necessary EBA. Do these steps:

(a) Make sure that the area around the wheel brake is clear of persons and equipment.

(b) Make sure the parking brake is on.

(c) For the wheel 1 brake, start this CMCF special function: 32 Electric Brake Actuation Control, System, Wheel 1 Brake/EBA Deactivation.

1) Select the applicable EBA to deactivate:

a) Select EBA 1

b) Select EBA 2

c) Select EBA 3

d) Select EBA 4

2) Select CONTINUE

a) If the test passes, make sure that the deactivation is complete.

<1> Make sure that the LANDING GEAR BRAKES maintenance page shows DEAC for the inoperative EBA.

<2> Make sure that the electric brake actuator (EBA) does not touch the brake pressure plate. Do this step:

<a> Use a 0.0 - 0.5 Inch feeler gauge, STD-1107, to make sure that the clearance is a minimum of 0.070 in. (1.778 mm).

<b> If an EBA is jammed in the extended (dragging brake) position, the gear train may be removed or manually retracted. To remove an EBA gear train or manually retract the gear train, do this task: Electric Brake Actuator Gear Train - Removal, AMM B787-A-32-45-08-02C-520A-A.

(d) For the wheel 2 brake, start this CMCF special function: 32 Electric Brake Actuation Control, System, Wheel 2 Brake/EBA Deactivation.

1) Select the applicable EBA to deactivate:

a) Select EBA 1

b) Select EBA 2

c) Select EBA 3

d) Select EBA 4

2) Select CONTINUE

a) If the test passes, make sure that the deactivation is complete.

<1> Make sure that the LANDING GEAR BRAKES maintenance page shows DEAC for the inoperative EBA.

<2> Make sure that the electric brake actuator (EBA) does not touch the brake pressure plate. Do this step:

<a> Use a 0.0 - 0.5 Inch feeler gauge, STD-1107, to make sure that the clearance is a minimum of 0.070 in. (1.778 mm).

<b> If an EBA is jammed in the extended (dragging brake) position, the gear train may be removed or manually retracted. To remove an EBA gear train or manually retract the gear train, do this task: Electric Brake Actuator Gear Train - Removal, AMM B787-A-32-45-08-02C-520A-A.

(e) For the wheel 3 brake, start this CMCF special function: 32 Electric Brake Actuation Control, System, Wheel 3 Brake/EBA Deactivation.

1) Select the applicable EBA to deactivate:

a) Select EBA 1

b) Select EBA 2

c) Select EBA 3

d) Select EBA 4

2) Select CONTINUE

a) If the test passes, make sure that the deactivation is complete.

<1> Make sure that the LANDING GEAR BRAKES maintenance page shows DEAC for the inoperative EBA.

<2> Make sure that the electric brake actuator (EBA) does not touch the brake pressure plate. Do this step:

<a> Use a 0.0 - 0.5 Inch feeler gauge, STD-1107, to make sure that the clearance is a minimum of 0.070 in. (1.778 mm).

<b> If an EBA is jammed in the extended (dragging brake) position, the gear train may be removed or manually retracted. To remove an EBA gear train or manually retract the gear train, do this task: Electric Brake Actuator Gear Train - Removal, AMM B787-A-32-45-08-02C-520A-A.

(f) For the wheel 4 brake, start this CMCF special function: 32 Electric Brake Actuation Control, System, Wheel 4 Brake/EBA Deactivation.

1) Select the applicable EBA to deactivate:

a) Select EBA 1

b) Select EBA 2

c) Select EBA 3

d) Select EBA 4

2) Select CONTINUE

a) If the test passes, make sure that the deactivation is complete.

<1> Make sure that the LANDING GEAR BRAKES maintenance page shows DEAC for the inoperative EBA.

<2> Make sure that the electric brake actuator (EBA) does not touch the brake pressure plate. Do this step: