



AIRCRAFT
MAINTENANCE MANUAL

HIGH ENERGY STOP - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. When the aircraft aborts the takeoff for any reason or when the aircraft makes an Overweight Landing, this can be a condition of High Energy Stop.
- B. You must do an inspection after a High Energy Stop when the conditions below occur:
 - The message BRAKE OVERHEAT is shown and at least one of the Brake Temperature Indicator on the MFD reaches the upper limit, after an aborted takeoff or an Overweight Landing.
 - One or more wheel fuse-plugs were released due to energy dissipated by the brakes during an aborted takeoff or an Overweight Landing.
- C. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
05-50-16-200-801-A	HIGH ENERGY STOP - INSPECTION	ALL



AIRCRAFT MAINTENANCE MANUAL

TASK 05-50-16-200-801-A

EFFECTIVITY: ALL

2. HIGH ENERGY STOP - INSPECTION

A. General

- (1) Do an inspection on the landing gear, wheels and brakes after a high energy stop condition.
- (2) If a BRAKE OVERHEAT message occurs, initially only a general visual inspection is necessary.
- (3) If one or more wheel fuse-plugs were released, you must do a detailed inspection.

B. References

REFERENCE	DESIGNATION
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL
AMM TASK 32-49-01-000-801-A/400	-
AMM TASK 32-49-02-000-801-A/400	WHEEL ASSEMBLY OF THE MAIN LANDING GEAR - REMOVAL
AMM TASK 32-49-03-000-801-A/400	BRAKE ASSEMBLY OF THE MAIN LANDING GEAR - REMOVAL
BF Goodrich CMM 32-49-02	-
BF Goodrich CMM 32-49-03	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Main landing gear

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the CMD circuit breaker and attach a DO NOT CLOSE tag to it.

- (2) Make sure that landing gear safety pins are installed on the main and nose landing gears (AMM TASK 32-00-01-910-801-A/200).

WARNING: • IF ONE OR MORE WHEEL FUSE PLUGS ARE RELEASED, DO NOT GO NEAR THE LANDING GEAR AREA FOR ONE HOUR. IF THIS IS NECESSARY BEFORE ONE HOUR, GO NEAR THE AREA VERY CAREFULLY AND ONLY FROM THE FRONT OR REAR OF THE TIRES. DO THIS WHEN ONE OR ALL OF THE TIRES ARE INFLATED. INJURY TO PERSONS CAN OCCUR.

• MAKE SURE THAT THE LATERAL AREA OF THE TIRE IS CLEAR TO PREVENT POSSIBLE INJURY TO PERSONS.

• DO NOT SPRAY EXTINGUISHER OR COOLANT DIRECTLY ON THE INFLATED TIRE OR WHEEL. THIS CAN CAUSE AN EXPLOSION AND INJURY TO PERSONS CAN OCCUR.

- (3) For High Energy Stop where one or more wheel fuse-plugs were released, do the detailed inspection on the wheels, brakes, and axle.
- (4) For High Energy Stop where the message BRAKE OVERHEAT is shown and at least one of the Brake Temperature Indicator on the MFD reached the upper limit, do the general visual Inspection on the wheels and brakes.

NOTE: • Remove and discard the pair of tires of the main landing gear, if at least one of them deflated while the aircraft was in movement (AMM TASK 32-49-01-000-801-A/400).

• If one of the tires deflated with the aircraft stopped, replace and discard it. Do an inspection on the paired tire (AMM TASK 32-49-01-000-801-A/400).

J. Special Inspection

SUBTASK 280-002-A

WARNING: • IF ONE OR MORE WHEEL FUSE PLUGS ARE RELEASED, DO NOT GO NEAR THE LANDING GEAR AREA FOR ONE HOUR. IF THIS IS NECESSARY BEFORE ONE HOUR, GO NEAR THE AREA VERY CAREFULLY AND ONLY FROM THE FRONT OR REAR OF THE TIRES. DO THIS WHEN ONE OR ALL OF THE TIRES ARE INFLATED. INJURY TO PERSONS CAN OCCUR.

• MAKE SURE THAT THE LATERAL AREA OF THE TIRE IS CLEAR TO PREVENT POSSIBLE INJURY TO PERSONS.

• DO NOT SPRAY EXTINGUISHER OR COOLANT DIRECTLY ON THE INFLATED TIRE OR WHEEL. THIS CAN CAUSE AN EXPLOSION AND INJURY TO PERSONS CAN OCCUR.

- (1) General visual inspection:

- (a) Do a general visual inspection on the brakes, wheels, tires, harness and wires of the main landing gear for signs of overheat damage (e.g., hydraulic fluid leakage, color changes, crack signs, etc.).

- (b) Do the detailed inspection below if signs of overheat damage were found.
- (2) Detailed inspection:
 - (a) Do a completed inspection on the brakes, wheels and axle, if one or more wheel fuse-plug were released or if signs of damage were found.
 - (b) Remove only the wheels and brakes of the main landing gear where the wheel fuse-plug was released or where signs of damage were found ([AMM TASK 32-49-02-000-801-A/400](#)) and ([AMM TASK 32-49-03-000-801-A/400](#)).
 - (c) Examine the wheels that were removed. Refer to "Special Procedures for Overheated Wheels" (BF Goodrich CMM 32-49-02).
 - (d) Examine the brakes that were removed. An accurate inspection is necessary on a brake assembly that the fuse-plug was released. Obey all the procedures of "Check" in (BF Goodrich CMM 32-49-03).
 - (e) Examine the wheel axle exterior surface for signs of overheat damage (e.g., color changes, crack signs, etc.).
 - (f) Examine the wheel speed transducer. For this, it is not necessary to remove it. Do a check to make sure that there is free movement of the transducer and correct attachment of the bolt. Replace the wheel speed transducer if necessary.
 - (g) Examine the integrity of the electrical harness and wires of the main landing gear.

K. Follow-on

SUBTASK 842-002-A

- (1) On the circuit break panel, close the CMD circuit breaker and remove the DO NOT CLOSE tag to it.
- (2) Make sure that landing-gear safety pins are not installed on the main and nose landing gears ([AMM TASK 32-00-01-910-801-A/200](#)).