

ATA AIRLINES, INC.

BRAKE ACCUMULATOR PRECHARGE PRESSURE

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CHECK BEING PERFORMED: Custom

ZONES: 100 200
A/C NUMBER:
REV. DATE: 01/29/03
FREQUENCY: 2A

W/C NUMBER: 318L3201 **DATE:**

MFR P/N	DESCRIPTION	QTY
KN	Nitrogen, Gaseous, BB-N-411, Type I	A/R

REFERENCES

FIGURE 1, AMM 12-15-11, 29-11-00, 32-00-01, GMM Chapter 3

MECH INSP

CHECK BRAKE ACCUMULATOR PRECHARGE PRESSURE, SERVICE AS REQUIRED.

1. Check of the Brake Accumulator Precharge Pressure (Figure 1).

_____ XXXXX A. Check of the Brake Accumulator Precharge Pressure.

WARNING: MAKE SURE THE DOWNLOCK PINS ARE INSTALLED ON ALL THE LANDING GEAR. WITHOUT THE DOWNLOCK PINS, THE LANDING GEAR COULD RETRACT AND CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

(1) If the downlock pins are not installed in the nose and main landing gear, do this task: Landing Gear Downlock Pins Installation (AMM TASK 32-00-01-480-801 p201).

NOTE: Logbook entry required (GMM, Chapter 3).

(2) Make sure the tires have chocks installed around them.

(3) Release the parking brake.

(4) For hydraulic systems A and B, do this task: Hydraulic System A or B Power Removal (AMM TASK 29-11-00-860-805 p201).

(5) Operate the brake pedals until the pressure gage at the brake accumulator [104] shows no change in the pressure.

NOTE: You will have to operate the brake pedals approximately 12 times to fully release the oil pressure from the accumulator.

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(6) Wait ten minutes to allow accumulator gas to reach equilibrium.

(7) Do the steps that follow to do a check of the accumulator charge pressure:

(a) Use the charging instructions placard [105] to find the correct accumulator pressure for the current ambient temperature of the airplane.

NOTE: The charging instructions placard [105] is located next to the brake accumulator pressure gage [104].

(b) Make sure the pressure that shows on the brake accumulator pressure gage [104] is within +/- 50 psi of the pressure you obtained from the graph on the charging instructions placard [105].

(c) If the pressure shown on the pressure gage [104] is not in the correct pressure range of the charging instructions placard [105], accomplish step 2 below.

2. Hydraulic Brake Accumulator Servicing - If Required (Figure 1).

_____ XXXXX A. Hydraulic Brake Accumulator Servicing

(1) Do these steps to pressurize the brake accumulator:

(a) Remove the cap [103] from the brake accumulator charging valve [101].

(b) Attach a source of nitrogen, A-A-59503, Type I, Grade B, to the brake accumulator charging valve [101].

WARNING: DO NOT LOOSEN THE BODY OF THE HYDRAULIC BRAKE ACCUMULATOR CHARGING VALVE. THE PRESSURE IN THE BRAKE ACCUMULATOR CAN

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QUICKLY PUSH THE BRAKE ACCUMULATOR CHARGING VALVE OFF THE MANIFOLD ASSEMBLY. THIS CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

(c) Turn the outer swivel nut [102] of the brake accumulator charging valve [101] one turn counterclockwise.

(d) Pressurize the brake accumulator to the correct pressure shown on the charging instructions placard [105] next to the brake accumulator pressure gage [104].

NOTE: Use the brake accumulator pressure gage for indication of the brake accumulator pressure.

NOTE: If a large charge was required to service the brake accumulator (for example from 0 psi to precharge pressure), wait ten minutes to allow the accumulator gas temperature to reach equilibrium and to make sure the precharge pressure is maintained.

(e) Turn the outer swivel nut [102] of the brake accumulator charging valve clockwise until it is tight.

(2) Do these steps to make sure the brake accumulator pressure does not decrease.

(a) To pressurize the hydraulic system B to 3000 psi, do this task:
Hydraulic System A or B Pressurization
(AMM TASK 29-11-00-860-801 p201).

(b) Make sure the brake accumulator pressure gage reads 3000 +/- 150 psi.

(c) For the hydraulic A and B systems, do this task: Hydraulic System A or B Power Removal

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(AMM TASK 29-11-00-860-805 p201).

- (d) Operate the brake pedals until the brake accumulator pressure gage [104] shows no change in the pressure.

NOTE: You will have to operate the brake pedals approximately 12 times to fully release the oil pressure from the accumulator.

- (e) Wait ten minutes to allow accumulator gas to reach equilibrium.

- (f) Make sure the pressure that shows on the brake accumulator pressure gage [104] is within +/- 50 psi of the pressure you obtained from the graph on the charging instructions placard [105].

- (4) Disconnect the source of nitrogen, A-A-59503, Type I, Grade B, from the brake accumulator charging valve

[101].

- (5) Install the cap [103] on the brake accumulator charging valve [101].

- (6) If the brake accumulator pressure was less than the minimum service pressure before you serviced the accumulator, do the steps that follow:

NOTE: You can find the minimum pressure on the graph of ambient temperature and pressure on the charging instructions marker [105]

- (a) Use a soap solution to make sure there are no gas leaks from these components:

- 1) The gas pressure tube connection to the brake accumulator.
- 2) The gas pressure tube connections to the manifold assembly [106].

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3) The gas pressure tube connections to the
brake accumulator pressure gage [104].

4) The brake accumulator charging valve
[103].

*****END OF WORKCARD*****

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DATE WORK CARD COMPLETE ___/___/___

