

BOOK 50 C-CAR PREVENTIVE MAINTENANCE PROCEDURE
BOOK 86 A2/B2-CAR PREVENTIVE MAINTENANCE PROCEDURE

DATE ISSUED 01/06/88

PROCEDURE NO. 10-12

REVISION DATE 01/23/12

DOOR 3/4" ROD SAFETY CHECK

I. Purpose

The purpose of this safety check is to verify the proper response of side doors when door edges strike an object on closing.

II. Materials Required

A. 3/4" diameter rigid rod, 12" long

III. Preparation/Precautions

A. Verify that shop power or third rail power is applied to the car.

B. Verify that no door panels are cut out.

C. Verify that door breaker is in the "ON" position.

D. Verify that all door panels on the side being tested are in the normal closed position before initiation of tests.

IV. Procedure

A. Cut-out door panel #3. Verify that 1-3 door cut-out annunciator lights. Open door panel #1 using crew switch. Insert the 3/4" diameter rod between the door panel edges as panel #1 is closing. This test shall be performed with the 3/4" diameter rod inserted in turn at each of these three positions:

1. Approximately 1 foot above the door bottom.
2. The approximate door center.
3. Approximately 1 foot below the top of the door.

B. Observe motor power is removed 3 seconds after start of closing operation. It will then remain off for 3 more seconds before attempting to drive close again. Cut-out door panel #1 and repeat this test for door panel #3 (use the applicable crew switches to open and close door panels). Verify appropriate cut-out annunciator lights.

C. Repeat the test in paragraphs IV.A & B for the six remaining side door panels and observing the appropriate door annunciations.

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- D. Return all cut-out assemblies to their normal positions.
- E. Verify that all door cut-out annunciators are OFF before proceeding to Step F.¹
- F. Test that the door obstruction circuit is triggered by Door 1.
 - 1. Confirm all side doors are closed.
 - 2. Open doorset 1-3 with the crew switch.
 - 3. Purposely obstruct Door 1 and close the doorset with the crew switch.
 - 4. After Door 3 fully closes, confirm the door obstruction circuit engages because Door 1 is still open.
 - 5. Allow Door 1 to close.
- G. Test that the door obstruction circuit is triggered by Door 3.
 - 1. Open doorset 1-3 with the crew switch.
 - 2. Purposely obstruct Door 3 and close the doorset with the crew switch.
 - 3. After Door 1 fully closes, confirm the door obstruction circuit engages because Door 3 is still open.
 - 4. Allow Door 3 to close.
- H. Repeat the tests in Paragraph IV, Steps F and G for the remaining side doors on the car.

¹ BECO V0008657