Bendix
Aerospace Systems Division

Addendum 1
Apollo 15 Contingency Procedures
ATM-1003 7/10/71

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DATE

Reference: Letter No. 9712-441 dated 7/9/71 Contingency Procedures Apollo 15
Letter No. 9712-259 dated 3/27/71 Review Copy, Contingency Procedures Apollo 15.

As a result of recent activities involving Boydbolts for A-2, an additional step in the crew procedures should be added in the event that a spindle does not depress within the allowable 20 lbs max force. The existing procedure suggests impact force with the MESA hammer to free the spindle.

It is now recommended, that prior to impact force to depress the spindle, the crewman can put the UHT into the Boydbolt and rotate the entire bolt approximately 2° CW to relieve the ball pressure. This would then allow the spindle to be depressed with approximately 3 pounds force. The CW direction is recommended since the balls are always against the left side of the locking splines.

It is mandatory that the following statement be added in the Contingency Procedure whenever the statement "Boydbolt spline will not depress" occurs in the procedure, i.e., Paragraph 11.3, 12.2, 14.1, 17.1, 22.1, 24.1, 25.1, 27.1, 27.13, 29.4.

Typical:

11.3 HFE Subpallet Boydbolt spline will not depress.

1. Check hex head of UHT and, if damaged, use second UHT.

Add: 1a. Apply steady downward pressure with the UHT and rotate the entire bolt (approximately 2°) CW to relieve the ball pressure.

Please attach this additional statement to ATM-1003.

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