

**PROTOFLIGHT ENVIRONMENTS**

**FOR**

**EOS-AM PROPELLANT TANK**

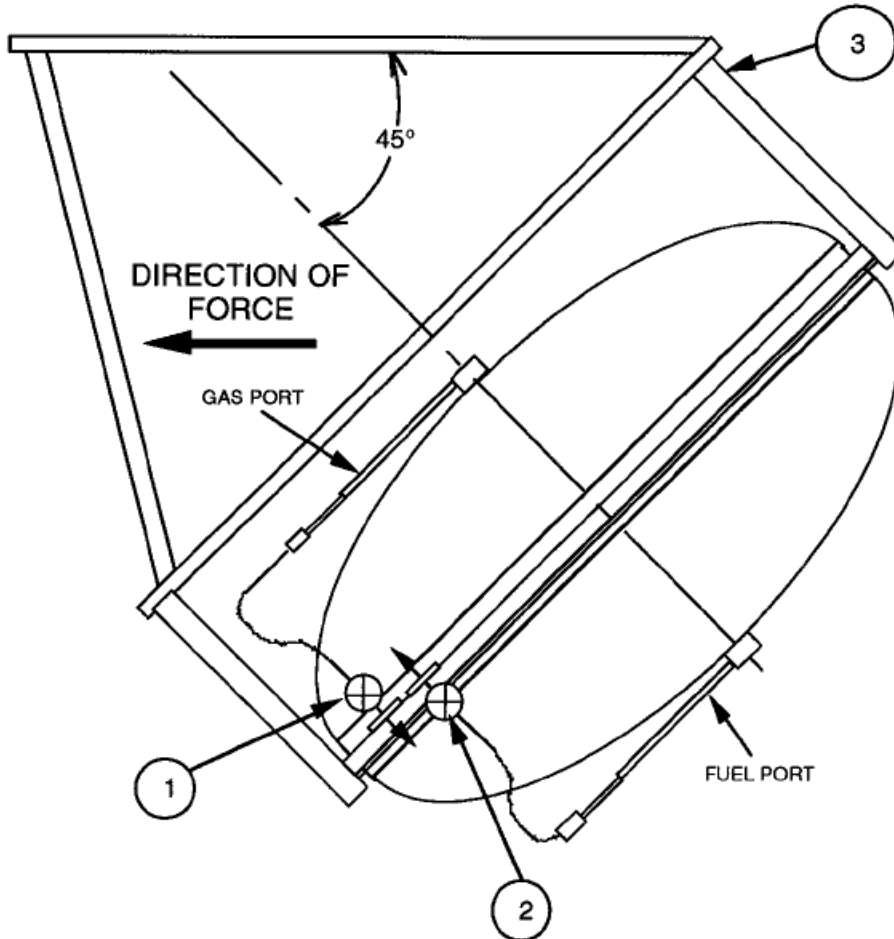
**ATK P/N 80376-1**

80376-1 was subjected to the following protoflight tests:

<b>Test Sequence</b>	<b>Test Title</b>
1	Preliminary Examination of Product
2	Pre-Proof Volumetric Capacity Test
3	Proof Pressure Test
4	Post-Proof Volumetric Capacity Test
5	Internal Leak Test
6	External Leak Test
7	Acceleration
8	Internal Leak Test
9	External Leak Test
10.	Radiographic Inspection
11	Dye Penetrant Inspection
12	Final Examination of Product
13	Weight Determination
14	Cleanliness
15	MMAS Final Inspection

## Acceleration Test

ACCELERATION TEST CONFIGURATIONS  
FIGURE NO. 6A



1. GN<sub>2</sub> Valve

2. Water Valve

3. Test Fixture

Tank is filled with 760, ± 5 lbm of water and pressurized to 400, ± 20 psid.

Acceleration required is 14.0 g for 1 minute.