

ATLAS PR-A2 Parachute Release

The Atlas Parachute Release is a mechanism that separates the parachute from its cargo upon landing to eliminate the possibility of the cargo being inadvertently dragged under high winds and/or adverse weather conditions.

It is designed to release the cargo when it senses reduction in the suspended weight of the cargo upon ground impact.

To prevent premature release during the parachute deployment phase, a user-adjusted 10 to 20 second timer is set (the time delay allows the parachute and cargo to stabilize). Once the timer stops, the unit is armed and sensing mechanisms are activated.

The rugged features, reliability and most importantly, the purely mechanical inner workings (no pyrotechnics or electronics involved) make the Atlas (for weights from 500 lb to 5,000 lb) the ideal choice for parachute releases.

- Rapid, easy rigging – No requirements for specialized connection hardware.
- Simple to use – Set the timer and the unit is ready to go. Reset the timer and close the jaw to prepare for another deployment.
- Maintenance – No regular repair or overhaul required.
- Water and corrosion resistant
- Stainless steel and hard bronze construction and sealed design prevent water and corrosive agents from contacting mechanical parts.
- Reliable and rugged – Meets inservice requirements for acceleration, vibration, shock, sand and dust as well as temperature extremes.
- Compact – Fits in your pocket
- Unlimited shelf life – The 100%mechanical operation means no batteries to replace, fluid to refill, or pyrotechnics to re-certify. Just blow with compressed air and wipe clean for storage.

TECHNICAL SPECIFICATION - PARACHUTE RELEASE

Part Number	D-64-263	
NSN	1670-20-004-7288	
Weight	3.3 lb	1.5 kg
Size	4 x 3.5 x 1.15 in	0.2 x 8.9 x 3.0 cm
Suspended Payload	500 – 5,000 lb	226.8 – 2,267.9 kg
Operating Temperature Range	-60°F to 160°F	-51°C to 71°C

TECHNICAL SPECIFICATION - LINKS ASSEMBLY (Shackles)

Part Number	ID-64-264	
Weight 2 shackles	2 lb	0.9 kg

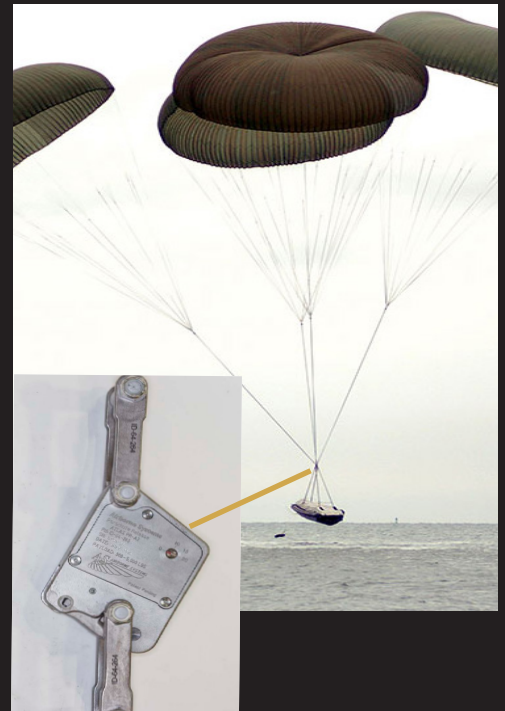


Fig 1: ATLAS Parachute Release in operation

Fig 2: Rapid, easy rigging, no electronics, no pyrotechnics



PR-A2 Tester

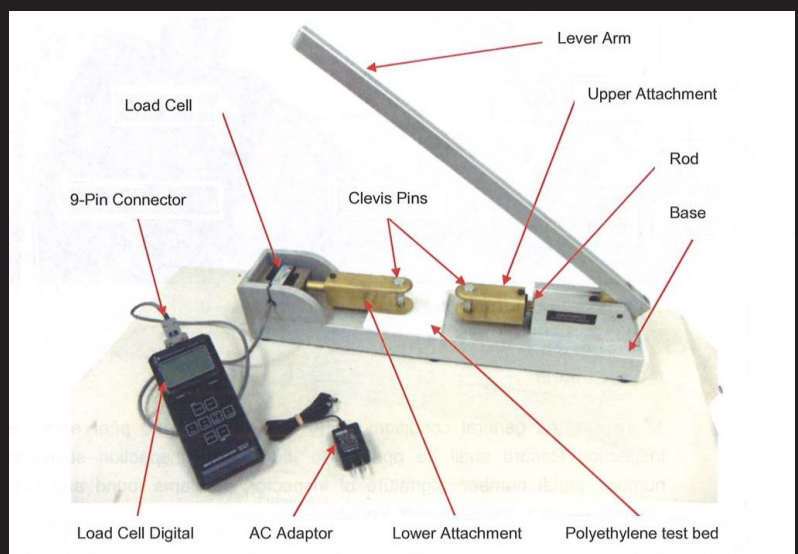
The PR-A2 Tester was developed to test the IrvinGQ family of Parachute Releases. The self-contained battery-powered unit is both compact and portable. Force is applied through hand pressure on the arm of the unit, simulating the forces that would naturally be applied to the PR-A2 in the air.

The battery-powered load cell displays the applied force directly in force units. Once the time delay on the Parachute Release has lapsed, the equipment is armed. After this time, easing the pressure on the unit arm would simulate “touchdown” and the PRA2 opens to release the load.

The simplicity of use and ruggedness of this product makes it a desirable tool to have on hand for testing of the Atlas PR-A2 Parachute Release.

Product features:

- Rapid, easy setup – Parachute releases are attached to the tester through easily inserted pins.
- Size – L x W x H – 26” x 4” x 6” (66 x 10.2 x 15.2 cm)
- Maintenance – No regular repair or overhaul required.
- Weight – 13 lb (5.9 kg)
- Reliable and rugged – Solid construction allows for the tester to be used anytime and anywhere.
- Materials Used – All parts used in manufacturing are made of aluminum and stainless steel.
- Load Cell – Omega LC 101-2K
- Display – Transducer Technologies PHM-100
- Safety – Its design also includes a safety to protect against violent openings. The unit comes equipped with rubber feet to protect work surfaces.



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