

MODEL 2400

AUTOMATIC ACTIVATION DEVICE



Release, Parachute Ripcord, Automatic Model 2400, P/N 811-00357(-11)

OPERATION - MECHANICAL, NON-PYROTECHNIC

Emergency in-flight egress using a military back pack style parachute requires the user to manually pull an Automatic Activation Device (AAD) handle prior to exiting the aircraft. The parachutes' primary ripcord handle is used after exiting the aircraft. The purpose of the AAD is to provide a back-up release of the ripcord pin in the event the user becomes incapacitated. The military users are trained to wait approximately two-seconds after exiting to clear any aircraft structures to avoid potential deploying parachute before pulling their primary ripcord when at low altitude.

The FXC Model 2400 is a mechanical altitude sensing and timing controlled Parachute Automatic Activation Device (AAD) for in-flight emergency egress situations. The Model 2400 was designed as a cost effective, one-for-one replacement for all pyrotechnic AAD's currently in use by the United States Department of Defense for Personnel Parachute Packs.



ADVANTAGES

- Improved low altitude bail-out performance compared to electronic AAD rate of descent sensing method that reduces parachute deployment time and recovery before impact
- Approved & In-Service - US Navy E-2 C/D
- In DoD supply system
- Non-Pyrotechnic/Non-electronic = reduced logistics footprint
- Zero hazardous material management
- 100% inspectable without a test set
- Integration/Retrofit compatible with in-service emergency Egress Systems

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The function of the unit is to automatically withdraw the ripcord pins from a packed parachute at 14,000 feet above sea level after the factory preset time delay 2 seconds has elapsed. The FXC Model 2400 is completely mechanical in action, not relying on scheduled maintenance inspection checks and replacement costs of batteries or pyrotechnic devices. The preset altitude of 14,000 feet Mean Sea Level (MSL) is established as the altitude above which the unit will not activate. The timing feature delays the actual retraction of the power cable, which will pull the parachute ripcord at, or below, the preset altitude of 14,000 feet MSL. The Model 2400 has an 'armed' indicator window for inspection checks of the unit. When the unit is fully cocked a green mark will appear in the indicator window. The unit also has a leak indicator window to warn inspecting personnel of a leaking barometric pressure change aneroid.

The unit becomes active when the parachute user grasps and pulls the red arming cable handle then exits the aircraft. This manual activation action engages the Model 2400 timer mechanism to count-down after the altitude sensing aneroid mechanism lock disengages at, or below, the pre-set altitude. Once the altitude interlock is released and the timer counts down the 2 second pre-set delay the Model 2400 power spring releases and retracts the parachute pack ripcord pin.

SPECIFICATION

PART NUMBER	811-00357(-11)
TYPE	Mechanical
CONTROL	Barometric Pressure and time delay
ACTUATING ALTITUDE ABOVE SEA LEVEL	Preset at 14,000 feet (+/- 1000 feet)
TIME DELAY	Factory Set from 2.0 to 5.0 seconds (+/- 10%)
ARMING FORCE RETRACTION	10 to 20 pounds-force
RIPCORD POWER CABLE STROKE LENGTH	2.00 inches minimum
POWER CABLE STRIKE FORCE	80 pounds minimum at release point, 50 pounds minimum at 1.0
WEIGHT	23 ounces
SIZE (MAIN BODY SIZE)	6.00" L x 2.25" W x 0.80" H (Main Body Assembly)
ACTUATION LIFE CYCLE	100 cycles

