

US16LA

Ejection Seat for Joint Primary Aircraft Training System T-6 Texan II



Key Facts



Over 2,099 US16LA Ejection Seats currently in service



34 lives saved to date using the US16LA Ejection Seat



The US16LA Ejection Seat was purposely designed for the Textron T-6 Texan II aircraft under the Joint Primary Aircraft Training Systems (JPATS) program.

The US16LA is a lightweight ejection seat with increased reliability and maintainability features over legacy seats. Ejection performance is optimised from zero height and zero velocity in a level attitude through to 370kts and is designed to accommodate wide aircrew size and weight ranges.

Compared to Martin-Baker legacy seats, the US16LA offers the following advantages:

- ▼ A wider ejection envelope down to zero speed / zero height.
- ▼ Meets the latest physiological requirements for the catapult.
- ▼ A wider accommodation range determined by the Civilian American and European Surface Anthropometry Resource (CAESAR) database multi-variate Case 1 through 7.
- ▼ Greater suspended mass under the IGQ-5000 parachute with lower descent velocities and parachute steering capability.

Specification	US16LA for T-6 Texan II
Operating ceiling	50 000ft (15,250m)
Minimum height/speed	Zero/zero in near level attitude
Crew boarding mass range	137.3 lb to 271.2 lb (62.3 kg to 123.0 kg)
Crew size range	CAESAR multi-variate body size cases 1 to 7
Maximum Speed for ejection	370 KCAS (aircraft limit 316 KCAS)
Parachute type	IGQ 5000 4-colour aeroconical
Parachute deployment	Cartridge initiated
Drogue parachute	5 ft
Drogue deployment	Cartridge initiated and deployed
Harness type	PCU-15/P & PCU-16/P Torso Harness
Ejection seat operation type	Catapult and underseat rocket motor
Ejection gun	Twin
Ejection initiation	Handle on seat pan initiates gas operated seat firing system
Automatic back-up unit	No, manual override
Electronic Sequencer	No
Barostatic time-release unit	Yes + g-restrictor, cartridge initiated
Timers	Time delays in sequencing system
Seat adjustment	Up/down actuator operated 28 Vdc
Arm restraints	No
Leg restraints	Yes, two garters
Oxygen supply	Bottled emergency oxygen
Seat survival kit	Yes + automatic deployment
Aircrew services	Connection to emergency oxygen supply
Command ejection	Yes, via Interseat Sequencing System (ISS)
Canopy jettison	No
Canopy fracturing system	Yes
Interseat sequencing system	Yes

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Ejection Seat for Joint
Primary Aircraft Training
System T-6 Texan II



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