

US16T

EJECTION SEAT PROGRAMME UPGRADE FOR T-38 & F-5



OVER 1064 US16T EJECTION SEATS CURRENTLY IN SERVICE



5 LIVES SAVED USING A US16T EJECTION SEAT



In June 2005, Martin-Baker was selected to upgrade the escape system in the supersonic T-38 Talon advanced trainers of the US Air Force and Air Education and Training Command (AETC). The seat was designated the US16T.

This major project has improved pilot safety, increased accommodation and guaranteed ejection seat logistic to ensure that the Talon remains one of the best advanced training aircraft in the world. The seat offers a state of the art, lifesaving performance, which interfaces with the existing canopy jettison system whilst contents of the Personal Survival Pack (PSP) matches operator's requirements to suit the aircraft role. The seat also offers maximum possible pilot size and weight range accommodation (without airframe changes).

The seat installation is simple and provides reduced life cycle costs.

SPECIFICATIONS

US16T T-38 & F-5

Operating ceiling	50 000ft (15,250m)
Minimum height/speed	Zero/zero in near level attitude
Crew boarding mass range	57.1 to 123.8kg
Crew size range	JPATS multi-variate body size cases 1 to 6
Maximum Speed for ejection	600 KIAS
Parachute type	GQ Type 5000
Parachute deployment	Cartridge initiated
Drogue parachute	Yes
Drogue deployment	Cartridge initiated, tilt and deploy
Harness type	Torso
Ejection seat operation type	Ejection guns and underseat rocket motor
Ejection gun	Twin
Ejection initiation	Handle on seat bucket initiates gas operated seat firing system
Automatic back-up unit	Yes
Electronic sequencer	No
Barostatic time-release unit	Yes + g-restrictor, cartridge initiated
Timers	Time delay cartridges
Seat adjustment	Up/down actuator operated 115 Vac fore/aft manual backrest adjustment
Arm restraints	No
Leg restraints	Yes, four garters
Oxygen supply	Bottled emergency oxygen
Seat survival kit (SSK)	Yes + automatic deployment and liferaft inflation
Aircrew services	Connection to main oxygen supply, mic/tel
Command ejection	Yes
Canopy jettison	Yes
Miniature detonating cord	No
Interseat sequencing system	Yes, via mode selector