Martin-Baker

US16LA

Joint Primary Aircraft Training System (JPATS)

The Martin-Baker Mk.16L ejection seat is designed:

- To accommodate the largest ever crew size range, both male and female;
- To safely eject the largest ever crew weight range, both male and female;
- To meet the most stringent ejection injury risk criteria ever specified for ejection seats;
- To be very comfortable;
- To be lightweight, thus benefiting aircraft performance, and compact;
- To be very easily maintained, with maximum safety for ground crew;
- To be reliable;
- To be affordable, throughout its service life;
- To set the standard for the new generation of cost-effective, high performance aircraft escape systems.

Operating ceiling	35 000 ft (10,668 m)
Minimum height/speed	Zero/zero in near level attitude
Crew boarding mass range	56-123kg
Crew size range	JPATS case 1-7
Maximum speed for ejection	400 KIAS
Parachute type	GQ Type 5000
Parachute deployment	Cartridge initiated
Drogue parachute type	4.75 ft
Drogue deployment	Cartridge initiated, tilt and deploy
Harness type	Combined or Torso
Ejection seat operation type	Twin ejection guns + underseat rocket motor
Gun stroke length	36 in.
Ejection initiation	Handle on seat pan initiates gas operated seat firing system
Electronic sequencer	No
Barostatic time-release unit	Yes + g-restrictor. Initiated by gas
Manual override handle	Yes
Timers	Time delay cartridges
Seat adjustment	Up/down actuator operated 28 Vdc
Leg restraints	Yes, one garter
Oxygen supply	Bottled emergency oxygen Onboard oxygen generating system connection
Personal survival pack	Yes + Automatic Deployment and Liferaft Inflation
Aircrew services	Personal Equipment Connector - Oxygen (main/back-up/emergency) - Mic/tel - Anti-g suit supply
Command ejection	Yes
Canopy fragmentation	Yes, through canopy back-up
Miniature detonating cord	Yes
Interseat sequencing system	Yes, via mode selector

EJECTION SEAT