

Mk1



- Meteor
- Supermarine Attacker
- Westland Wyvern
- Canberra
- Hawker Sea Hawk
- ▼ Venom
- Hawker Hunter
- **▼** J-



The Pre-MK1 seat used by Bernard Lynch was completely redesigned after the first few tests, to allow for production on a quantity basis. Another series of dummy ejections was also repeated, perfecting the design of the drogue and its stowage and curing the various teething troubles which developed. Finally, on 19th August 1947, Lynch again ejected himself, this time at 12,000 feet at an indicated air speed of 420mph. He landed safely and afterwards stated that no shocks had been felt, even at that high speed. This successfully demonstrated the smoothness of the ejection gun, the effective protection of the face screen and the efficiency of the stabilising drogue.

In June 1947, the authorities had decided to standardise the Martin-Baker Ejection Seat for installation in all new service jet aircraft, and the work of production and installation was put in hand for Meteor, Attacker, Wyvern, Canberra and later the Sea Hawk and Venom aircraft.

These seats were provided with a seat pan capable of being raised and lowered to accommodate pilots of varying stature without increasing the height of the seat. The seats also included adjustable foot rests, and integral thigh guards to prevent the occupant's legs being forced apart by air blast. The seat was guided during ejection by four rollers running in a guide rail assembly, bolted to the aircraft structure.

A considerable number of emergency escapes were made with these manually operated seats, which fully justified their introduction in service aircraft. Their limitations, however, were already obvious and the idea of making the whole sequence of events automatic began to take shape.

FUNCTIONS

- Face screen seat firing handle pulled
- ▼ Two ejection gun cartridges fire, seat moves up guide rails
- Oxygen supply tripped
- ▼ Static line fires drogue gun after seat has risen by 24ft
- ▼ 24/22in. dia then 5ft dia drogues stabilise and slows the seat down
- ▼ Pilot unfastens seat harness and pushes clear of seat
- ▼ Pilot pulls ripcord on personal parachute

SPECIFICATIONS MK1

Crew Boarding Mass Range	155.2lb (70.4kg) to 224.2lb (101.7kg)
Crew Size Range	5 th to 95 th percentile
Maximum Speed for Ejection	400+ KIAS
Parachute Type	Irvin I 24
Parachute Deployment	Ripcord operated
Drogue Parachute Type	24in.; Later versions 22in. controller drogue
	and 5ft stabiliser drogue
Drogue Deployment	Drogue gun. Initiated by static line
Harness Type	Separate parachute, seat harness
Fination Soat Operation Type	Figetion gun

Ejection Seat Operation Type Ejection gun

Ejection Gun Two cartridge, 60ft/sec Ejection Initiation Face screen firing

Seat Adjustment Up/Down

Leg Restraints Integral thigh guards and foot rests

Oxygen Supply Bottled oxygen
Personal Survival Pack Liferaft pack

VB Martin-Baker

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