

Energy-Absorbing Armored Crew Seat for Bell 412

STANDARD FEATURES

- Crew Seat Assembly
 - Floor-mounted and adjusts both vertically and in the fore/aft directions
 - Energy-absorbing stroke provided both vertically (to protect the occupant) and in the forward direction (to reduce floor loading)
 - Armored wing panel may be mounted on either seat side
- Vertical Energy-Absorption System
 - The seat uses Variable-Load Energy Absorbers (VLEAs) permitting occupants to customize the energy-absorbing feature to their mission-equipped weight. The vertical energy-absorption system can be set to decelerate any equipped occupant weight from 160 to 260 pounds (73 to 118 kg)
- Available Stroke
 - Varies according to vertical seat adjustment position
 - 4 inches (10 cm) minimum
 - 9 inches (23 cm) maximum
- Armor System
 - Kevlar® Laminate Boron Carbide ceramic
- Ballistic Protection
 - Armored bucket provides 30-cal AP ballistic protection
- Floor reinforcement kit available
- Seat weight 131 pounds (59 kg)

KEY FEATURES

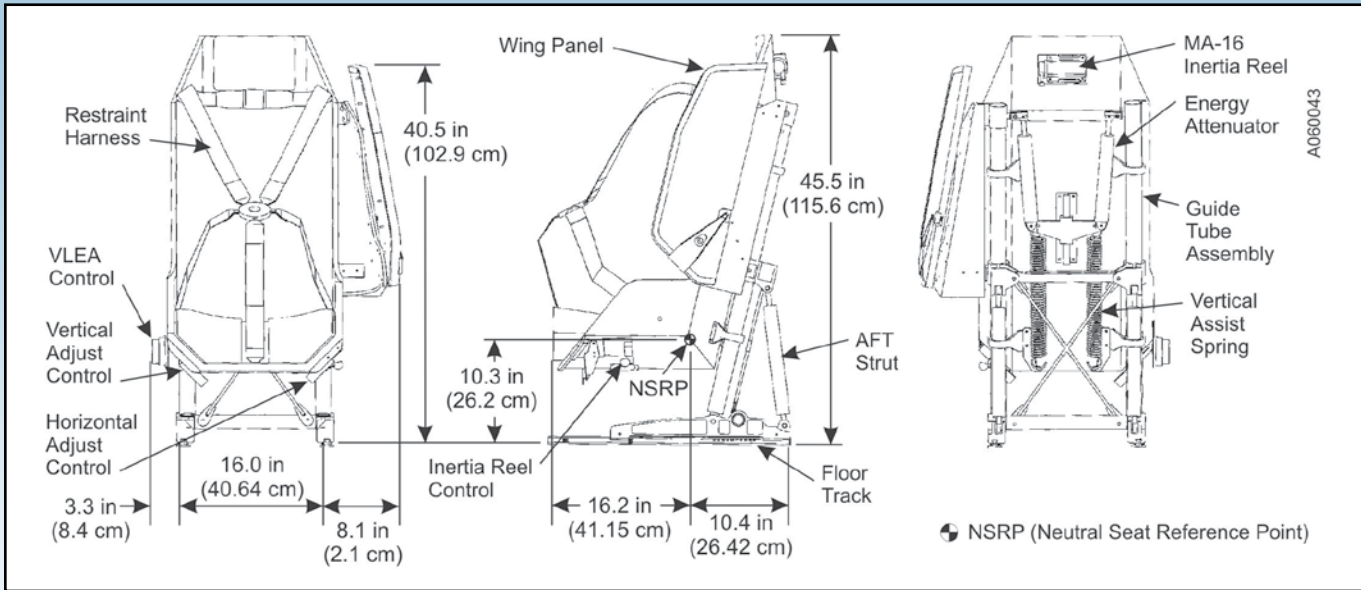
- Energy-absorbing
- Five-point restraint
- Guarded rotary buckle
- Armored bucket
- Moveable armored wing
- Interface load-limiting design
- Weapons mount



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OPTIONAL ARMORED WING AVAILABLE

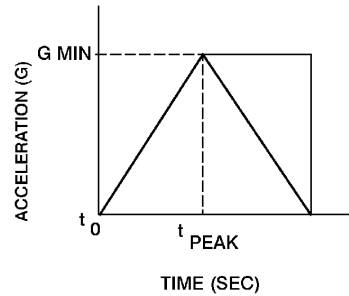
BELL 412 SEAT OUTLINE AND INSTALLATION INFORMATION



TEST CONDITIONS AND ORIENTATION

TEST	CONFIGURATION	PARAMETER	MAGNITUDE
1		$t_{PEAK}^{(SEC)}$	0.0515
		G MIN	38.0
		ΔV MIN (FT/SEC) (M/SEC)	(31.5) (9.6)
		2	
G MIN	23.3		
ΔV MIN (FT/SEC) (M/SEC)	(30.0) (9.1)		

TEST PULSE



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