

LLRP

LOW LEVEL RESERVE PARACHUTE

The LLRP (Low Level Reserve Parachute) is a low profile, chest-mounted reserve assembly designed as a back-up system for use with troop parachutes that are cleared for drops from altitudes as low as 76m (250 ft).



The LLRP incorporates a 20 gore, block constructed aeroconical canopy with a flying diameter of 6.2 m. Enhancements enable the improved extraction and faster inflation required for use at low level. The deployment is controlled for a successful opening either with a working main parachute, a partial malfunction or a high speed 'total malfunction'.

A kicker spring is used to aid initial canopy deployment. A drogue with a frangible attachment to the canopy facilitates extraction at low speed deployments. At high speed, where the rapid extraction might be detrimental, the frangible attachment breaks leaving four integral assister pockets on the apex of the canopy to align the canopy during inflation. The apex vent of the canopy is closed by a break-tie. This prevents loss of pressure during the early stages of a low speed inflation whilst allowing the vent to open when required.

Skirt assist lines are fitted around the peripheral hem of the canopy. They attach each rigging line to a point inside the canopy so that the rigging points at the peripheral hem are not under tension until the canopy is partially inflated. This has the effect of promoting initial canopy inflation to reduce height loss on deployment. Stability is achieved by a combination of the apex vent and the incorporation of four other mesh covered vents equally spaced around the canopy. The combination of riser and line lengths ensures that the LLRP will fly below the hem of most main Parachutes

In addition to making equipment handling easier in the aircraft and on exit, the low profile, contoured pack improves ground visibility for landing. A curved pack frame maintains the profile and also provides a positive launching base for the kicker spring to react against. The position of the attachment hooks eliminates the requirement for a tiedown strap. The ripcord handle is positioned centrally enabling deployment with either hand.

A variant of the LLRP is available with water pockets fitted to the canopy to permit use into water.

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TECHNICAL SPECIFICATIONS		
Type	LLRP <i>WITHOUT</i> Water Pockets	LLRP <i>WITH</i> Water Pockets
Parachute Assembly Part Number	MRI GQ 1644	MRI GQ 1812
NATO Stock Number	1670-99-598-5405	1670-99-6654-750
Minimum Deployment Altitude	76 m (250 ft) AGL	76 m (250 ft) AGL
Maximum Deployment Speed	278 km/h (150 kts)	278 km/h (150 kts)
All-up Suspended Weight (AUW)	160 kg (350 lb)	160 kg (350 lb)
Rate of Descent at 160 kg AUW	6.9 m/s (22.6 f/s)	6.9 m/s (22.6 f/s)
Assembly Weight	6.9 kg (15.2 lb)	6.9 kg (15.2 lb)

This data sheet is for information only and shall not form part of a contract

