



LOW COST GROUND RELEASE (LCGR)

OVERVIEW:

The Low Cost Ground Release (LCGR) is a developmental parachute disconnect device (Government design) to prevent dragging of cargo payloads and increase the safety and efficiency of Ground Forces during recovery operations at an economical cost. The device may be utilized with cargo payloads between 200 lbs. and 5,000 lbs. and is practical and economical for one time use.

DESCRIPTION:

The design is a load relaxation device which relies on drag of the parachute and weight of the load to maintain the connection between payload and parachute. Upon impact with the ground, the suspension system is in a momentary no load condition allowing the device to separate the connection between the payload and parachute. This device utilizes an assist spring to separate the two identical face plates resulting in a separation of the parachute from the payload.

The device is attached between the payload and parachute via soft loop connectors and secured to the load via ¼" cotton webbing on the load side and either ¼" cotton webbing or ½" Tubular Nylon Webbing tie on the parachute side dictated by the payload weight for the appropriate strength of securing tie.

The device is compatible with all small and medium cargo parachute systems currently fielded and is still economical for one time use with the Low Cost Aerial Delivery Systems (LCADS) family of cargo parachutes.

POINT OF CONTACT:

Aerial Delivery Directorate

COMM: (508) 233-4495, DSN: 256-4495

Email: usarmy.natick.nsrdec.mbx.nati-amsrd-nsc-ad-b@mail.mil

