

NEGATOR ASSEMBLY UPGRADE C-130 PARATROOP DOOR

- Easier paratroop door operation.
- Less effort. Less strain.
- Reduce the risk of back injury.
- Stay focused on the mission.

Preventing Loadmaster back injuries caused by paratroop door operations.



MISSION READY STARTS WITH CREW SAFETY.



NEGATOR ASSEMBLY UPGRADE C-130 PARATROOP DOOR

SAFER PARADOOR OPERATIONS

A significant number of Loadmasters have incurred back injuries while lifting the paratroop door during door operations.

These injuries have occurred due to the physical demands of opening the paradoor involving high exertion combined with awkward positioning.

The AMCE paradoor negator spring upgrade, helps to reduce back injury incidents, by significantly reducing the physical effort involved in opening the paradoor.

SYSTEM DESCRIPTION

Our system comprises a negator assembly, with increased spring stiffness, which provides greater mechanical lift capability, compared with the existing C-130 paratroop door negator assembly, thereby reducing the lift effort needed by the Loadmaster. Three variants are available, depending on the mechanical lift assistance required:

- Standard lift assist
- 50% additional lift assist
- Double lift assist

MODIFICATION

Nil permanent modifications to aircraft.

Installation is fully reversible.

SAFER MAINTENANCE PRACTICES

AMCE modified negator assembly combined with its specially designed removal/installation tool (Slide Spanner) - enable safe and easy installation/removal of the negator spring.

It allows a single maintainer to wind/unwind the negator spring safely without assistance, and reduces time taken to change a negator spring.

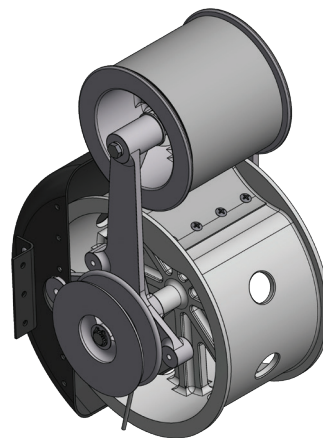
CERTIFICATION

MIL-S-5700 Structural Std

FAR 25.853 Flammability Std

PROVEN

In service with the RAAF C-130J fleet since 2012, with adoption across the USAF, US Coast Guard, RCAF and RNZAF.



Aerospace & Mechanical Consulting Engineers Pty Ltd

1/53 Argyle Street, South Windsor NSW 2756 Australia

T: +61 414 527 014

E: info@amce.com.au

Copyright © 2026 AMCE. All rights reserved.



MISSION READY STARTS WITH CREW SAFETY.