

MILITARY PERSONNEL PARACHUTE, MAIN T-10B/C/D

Updated: April 15, 2021

All parachute assemblies are qualified, manufactured and inspected in strict accordance with current applicable MIL-DTL-6645, MIL-DTL-7567 and MIL-STD-849.

Troop Back Personnel Main Parachute System
35 feet diameter, non-steerable

Part number	T-10B	T-10C	T-10D
Complete set (NSN)	11-1-564-1 (1670-00-591-0720)	11-1-564-2 (1670-01-248-9502)	11-1-564-4 (1670-01-484-2234)
Canopy	11-1-1501-1	11-1-1501-2	11-1-1501-2
Risers	11-1-2149-2	11-1-2149-2	11-1-2149-2
Harness	11-1-2143-1	11-1-2143-1	11-1-2143-1
Pack tray	62J4342	62J4342	62J4342
Deployment bag	56D6276	56D6276	11-1-6994-1
Static line	Standard 15-ft long 55D6481	Standard 15-ft long 55D6481	USL 15-ft: 11-1-6993-1 USL 5-ft Ext.: 11-1-6993-2 Snap hook: 11-1-6991-1



Specification	T-10B	T-10C	T-10D
Canopy shape	Parabolic	Parabolic	Parabolic
Canopy diameter [ft]	35, nominal	35, nominal	35, nominal
Number of gores	30	30	30
Canopy material	PIA-C-7020 Type I	PIA-C-7020 Type I	PIA-C-7020 Type I
Standard color	CG483	CG483	CG483
Suspension line material	PIA-C-5040 Type II	PIA-C-5040 Type II	PIA-C-5040 Type II
Suspension line length [ft]	25.5	25.5	25.5
Suspension line tensile strength [lbf]	400	400	400
Time for 360° turn [sec]	7 - 8	7 - 8	8 - 9
Assembled weight [lbs]	31	31	31
Suspended weight, max. [lbs]	350	360	360
Deployment altitude, min. [ft. AGL]	500	500	500
Deployment velocity, max. [KIAS]	150	150	150
Jump wind speed, max. [kts]	13	13	13
Rate of descent [fps]	15 - 20	15 - 20	15 - 20

The T-10 series troop back personnel parachute provides capability to safely deliver an airborne soldier and individual equipment from an aircraft in flight for a vertical assault on an enemy.

The T-10 extended skirt parachute was standardized by the US Government as a troop personnel parachute and has been used successfully since that time with relatively few modifications.

The T-10B canopy was made to the basic canopy with the addition of anti-inversion net, this improved the reliability of an already very dependable parachute that many canopies already in service were retrofitted with the netting.

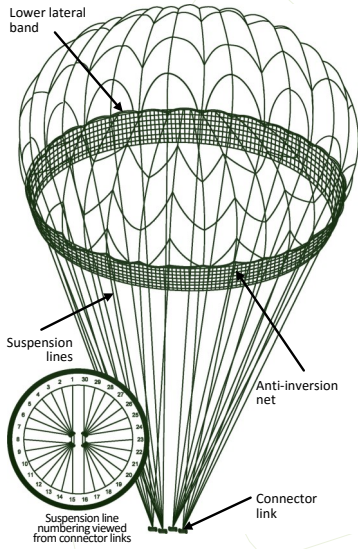
The T-10C canopy was improved by increasing the pocket band free length from 4 to 7-1/2 inches and decreasing the pocket depth from 5 to 4-1/4 inches. This change reduced the opening shock by providing a slightly larger diameter at the skirt hem; providing a lower rate of descent and a "softer" landing. All T-10B canopies in service have now been upgraded to the new pocket band length. The pack assembly was revised by adding one each static line stow bar to each side of present webbing loops used for stowing the static line. These new stow bars are used for additional stows at the folded ends of 15 feet 5 inches yellow static line. A static line is attached through the break cord strap on inside of the bag under strap pocket and around deployment bag main strap or attached directly around the deployment bag main strap if the break strap is eliminated.

The T-10D assembly incorporates a detachable deployment bag. The new bag includes 15 feet universal static line (USL), 5 feet USL extension, and snap hook.



Troop Back Personnel Main Parachute System
35 feet diameter, non-steerable

Canopy assembly

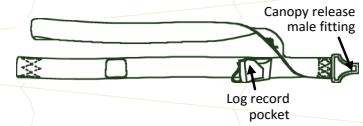


The T-10 series parachute canopy has a 3-3/4 inches mesh anti-inversion net attached to the skirt of the canopy. The net extends 18 inches below the canopy skirt. The canopy has two (2) vent line centering loops.

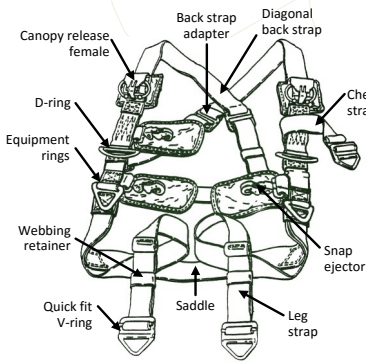
- Shape: parabolic
- Diameter: 35 feet, nominal
- Diameter of skirt: 24.5 feet
- Number of gores: 30
- Number of sections per gore: 4 or 5
- Number of radial tapes: 30
- Radial tape: nylon webbing, Type I, 9/16 inch
- Number of vent lines: 15
- Number of suspension lines: 30
- Suspension line material: nylon cord, Type II
- Number of V-tabs: 30
- Number of pocket bands: 15
- Number of connector links: 4 L-bar
- Anti-inversion net: 3-3/4 inches mesh

Riser assembly

Each of the two (2) riser assemblies is 30 inches long (finished length) and constructed of Type XIII nylon webbing, with the male canopy release fitting permanently attached. The two (2) ends of each riser are attached to the suspension line connector links.



Harness assembly

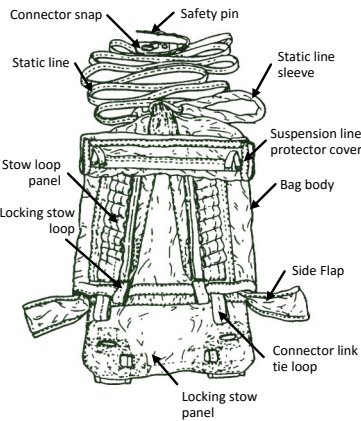


The parachute is attached to the harness assembly, which secures the parachute to the paratrooper before the jump and during the descent. The parachute harness assembly is equipped with one (1) chest and two (2) leg straps, and secured with quick-ejector snaps. The female portion of the canopy release has a cable loop-type release. There are three (3) ejector snap pads for the ejector snaps. There are two (2) canopy release pads for the canopy release. The harness also has two (2) D-rings and two (2) equipment rings.

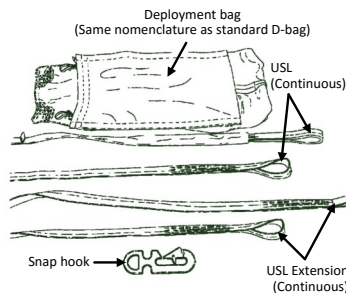
NOTE) The T-10B parachute harness assembly, equipped with equipment rings, will replace the T-10C/D parachute harness assembly through attrition. Also, the nylon pack tray, with waistband located in the lower position, will replace the cotton and nylon pack trays, with waistband located in the center of the pack tray, through attrition. During the transition period, numerous configurations may occur. Interchangeability of components is permitted, provided shelf service life and serviceability criteria are met.

Deployment bag with static line

The parachute is packed in the deployment bag. The deployment bag is constructed of cotton sateen cloth. These bags differ in the attachment of a static line, standard and universal static line (USL). The static 15 feet or 20 feet line allows a slider to be dropped from several different aircrafts.



<Deployment bag with standard static line>



<Deployment bag with universal static line>

Pack assembly

The pack tray holds the parachute, packed in the deployment bag, to the parachute harness. It is constructed of nylon duck. The waistband is located near the bottom of the pack tray.

