

**24 FT. DIAMETER MODEL 2 RESERVE
CHEST PARACHUTE ASSEMBLY
P/N M2-NZ-2
MILLS' NSN 1670-1M-000-0034**

TECHNICAL DATA
UPDATED MAY 17, 2004

* - NOTES DIFFERENCE BETWEEN STANDARD U.S. ARMY 24 FT., P/N 62C4317-10 AND MODEL 2 ASSEMBLY

MILLS' PART NO.

M2-NZ-2

(U.S. P/N 62C4317-10)

The standard assembly consists of:

MODEL 2 RESERVE ASSEMBLY

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|----|--------------------------|--|
| 1. | M2-NZ-2A
(48J7156-3) | 24 Ft. Natural Canopy with Spreader Bar and Connector Snaps |
| 2. | M2-NZ-2B
(62J4346-10) | Camouflage pattern Pack/Container Assembly with MS 70094-2 Log Record Pocket; Reinforced Grommet Panel with Velcro Fasteners; Elastic Ripcord Pocket; and Equipment Accessory Rings incorporated |
| 3. | M2-NZ-2C
(49J7161-2) | Spring Activated Natural Pilot Chute with Bridle Line |
| 4. | 62C4250 | Ripcord 2-pin |

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1. **24 Ft. Natural Canopy With Spreader Bar and Connector Snaps, P/N MZ-NZ-2A
Ref. U.S. P/N 48J7156-3)**

Shape:	Flat Circular
Diameter:	24 Foot
Number of Gores:	24
Number of Sections per Gore:	4
Number of Canopy Lines:	12
Number of Apex Lines:	12
Number of Suspension Lines:	24
Number of V Tabs:	24
Number of Pocket Bands:	24
Number of Connector Snaps:	2
*Gore Material:	1.1 ounce PIA-C-7020, Type I, ripstop nylon parachute cloth, Natural, 36-1/2" width, 42" minimum tensile strength warp and fill
*Suspension Line Reinforcement Material:	9/16", PIA-W-4088, Type I, Class 2, Condition U, 500# tensile strength, Natural
*Apex Line Material:	Nylon Cord, PIA-C-5040, Type 3, 550# tensile strength, Natural
Connector Snaps:	PS 70121, 5000# proof load
*Pocket Band Material:	PIA-T-1001, 1", Natural, 600# tensile strength
Skirt Hem Material:	PIA-T-1001, 1" Natural, 600# tensile strength
Vent Hem Material:	PIA-W-5625, 4000# tensile strength, 1", Natural
*Spreader Bar:	PIA-W-5625, 4000# tensile strength, 1", Natural, 11" long

1. **24 Ft. Natural Canopy With Spreader Bar and Connector Snaps, P/N MZ-NZ-2A
Ref. U.S. P/N 48J7156-3 (Cont.):**

*Canopy Stitching: Nylon Thread, V-T-295, Type I/II, Class A, Size B, E,
Camouflage Green #483

2. ***Camouflage Pattern Pack/Container Assembly With MS 70094-2 Log Record
Pocket; Reinforced Grommet Panel With Velcro Fasteners; Elastic Ripcord
Pocket; and Equipment Accessory Rings Incorporated, P/N M2-NZ-2B (Ref.
U.S. P/N 62J4346-10):**

*Pack Panel Material: Nylon Cloth, PIA-C-7219, Type III, Class 3,
Woodland Camouflage pattern, 325# warp tensile
strength, 275# fill tensile strength

*Panel/Accessory Ring
Reinforcement Material: Nylon Webbing, PIA-W-27265, Type VI, Class 2,
1-23/32", Camouflage Green #483, 2500# tensile strength

*Log Record Pocket: PS 70094-2, Nylon, PIA-C-7219, Type III, Class 3,
Camouflage Green #483, 325# warp tensile strength,
275# fill tensile strength, with Fasteners NASM 27983-1B;
2B; 3B; 4B

*Ripcord Pocket: Cotton Webbing, PIA-W-5664, Type III, 1-1/2"
Camouflage Green #483

"Velcro" Fasteners: Nylon A-A-55126, Hook and Pile, Type II, Class 1,
1", Camouflage Green #483

Pack Opening Bands: PS70105-2A, 16-1/2" long and PS 70105-3A, 12-1/2"
long, Camouflage Green #483

*Grommet Panel Reinforcement: Nylon Webbing, PIA-W-27265, Type III, 1-1/4",
Camouflage Green #483, 800# tensile strength, Class 2

Stow Loop Material: Nylon Tape, PIA-T-5038, Type IV, Class 2, 1-1/2",
Camouflage Green #483, 1500# tensile strength

Panel/Pocket Binding: Nylon Tape, PIA-T-5038, Type III, 3/4" Class 2,
Camouflage Green #483, 400# tensile strength

Pack Tray Stitching: Nylon Thread, V-T-295, Type I/II, Class A,
Camouflage Green #483, Size E, 3-C, 6-C

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2. ***Camouflage Pattern Pack/Container Assembly With MS 70094-2 Log Record Pocket; Reinforced Grommet Panel With Velcro Fasteners; Elastic Ripcord Pocket; and Equipment Accessory Rings Incorporated, P/N M2-NZ-2B (Ref. U.S. P/N 62J4346-10) (Cont.):**

Cones: PS 27763-1, Brass, Chrome Plated

Grommets and Washers: PS 22048C1, Brass, Chrome Plated

Pack End Fasteners: PS 70092, Brass, Chrome Plated

Pack Eyes: 50A6153, Brass, Chrome Plated

*Accessory Rings: PS 70123, Cadmium Chromate Plated, 500# proof load

*Locking Pins: 55B6261 with Lanyard Cord, PIA-C-5040, Type III, Camouflage Green #483 w/o core yarn

*Line Stow Bands (10 Each): Rubber Bands, 11-1-4095, Type I, 1/2" x 2", #81

3. **Pilot Chute, Natural, P/N M2-NZ-2C (Ref. U.S. P/N 49J7161-2):**

Shape: Flat Octagonal

Diameter: 36 Inches

Number of Suspension Lines: 8

*Canopy Material: 1.1 ounce, PIA-C-7020, Type I, ripstop nylon parachute cloth, Natural, 36-1/2" width, 42" minimum tensile strength warp and fill

*Suspension Line Material: Nylon Cord, PIA-C-5040, Type 1A, Natural, 100# tensile strength, 31" long

*Bridle Line Material: Nylon Cord, PIA-C-5040, Type III, Natural, 550# tensile strength, 15" long

*Pilot Chute Stitching: Nylon Thread, V-T-295, Type I/II, Class A, Size E, Camouflage Green #483

4. **Ripcord, P/N 62C4250:**

Ripcord: 62C4250, Cadmium Chromate Plated Steel, cloverleaf grip, 2-pin, 7" long

All 24 Ft. Reserve Parachute Assemblies are manufactured using the latest revision of material listed in Technical Data.

*All 24 Ft. Reserve Parachute Assemblies are manufactured in strict accordance with Personnel Parachute U.S. Military Specifications MIL-DTL-6445, MIL-DTL-7567, and MIL-STD-849, latest revisions, and *Mills Manufacturing Corporation's drawings.

All 24 Ft. Reserve Parachute Assemblies are preserved, packaged and packed in accordance with customer's specific packaging instructions.

24 FT. DIAMETER RESERVE PARACHUTE ASSEMBLY

The 24 Ft. Diameter Chest Reserve Assembly is an emergency parachute designed to be used in the event of a malfunction of the primary back type parachute.

*This reserve canopy is Natural in color in lieu of the new U.S. Army Camouflage Green #483. It has a total of 24 gores and there are 4 panels per gore.

*The suspension lines are made from Natural, 550# nylon cord.

*The pilot chute, Natural color, is an umbrella type which is 36" in diameter.

*The pack is made from urethane coated nylon duck, Woodland Camouflage pattern, and contains a pack from for rigidity. It is fitted with a "two-pin ripcord", for the cotton elastic ripcord pocket. The latest U.S. Military style of "Velcro" fasteners are used on the Ripcord Cover panel and Grommet Panel. An addition 1-1/4" reinforcement webbing is installed under the assembled grommets to prevent grommets from pulling through the panel. Equipment Accessory Rings PS 70123 and reinforcement webbing are installed under each panel end reinforcement and stitched to the pack with Box X pattern.

*Each ring is assembled to the Model 2 Pack MZ-NZ-1D belt with alligator clips to maintain pack position on the jumper. This unique Reserve Pack Assembly design of the Accessory Rings being assembled to the upper portion of the main back pack to retain the pack in place is only available on the Model 2 Reserve Assembly manufactured by Mills Manufacturing Corporation.

24 FT. DIAMETER RESERVE PARACHUTE ASSEMBLY (Cont.)

*The Model 2 24 Ft. Reserve Assembly is intended exclusively for use with the 35 Ft. Model 2 MC1-1B Troop Assembly, P/N M2-NZ-1 main assembly. It is not to be used as a primary canopy. In the event that it is needed, it is manually activated through the use of the ripcord.

The basic assembly, when packed for service, weighs approximately 12 pounds, the same as the standard U.S. Army 24 Ft. Reserve Assembly.

The packed assembly requires less than 27 pounds manual pull on the ripcord handle to activate the spring loaded pilot chute, thereby deploying the reserve canopy instantaneously.