

MILITARY JAVELIN (MJ)
TECHNICAL INFORMATION



**MJ-10-02 Container/Harness
(Freefall Only)
TR-281 Tactical Reserve
MS-280 Military Silhouette**

Illustrated Part List & Specifications

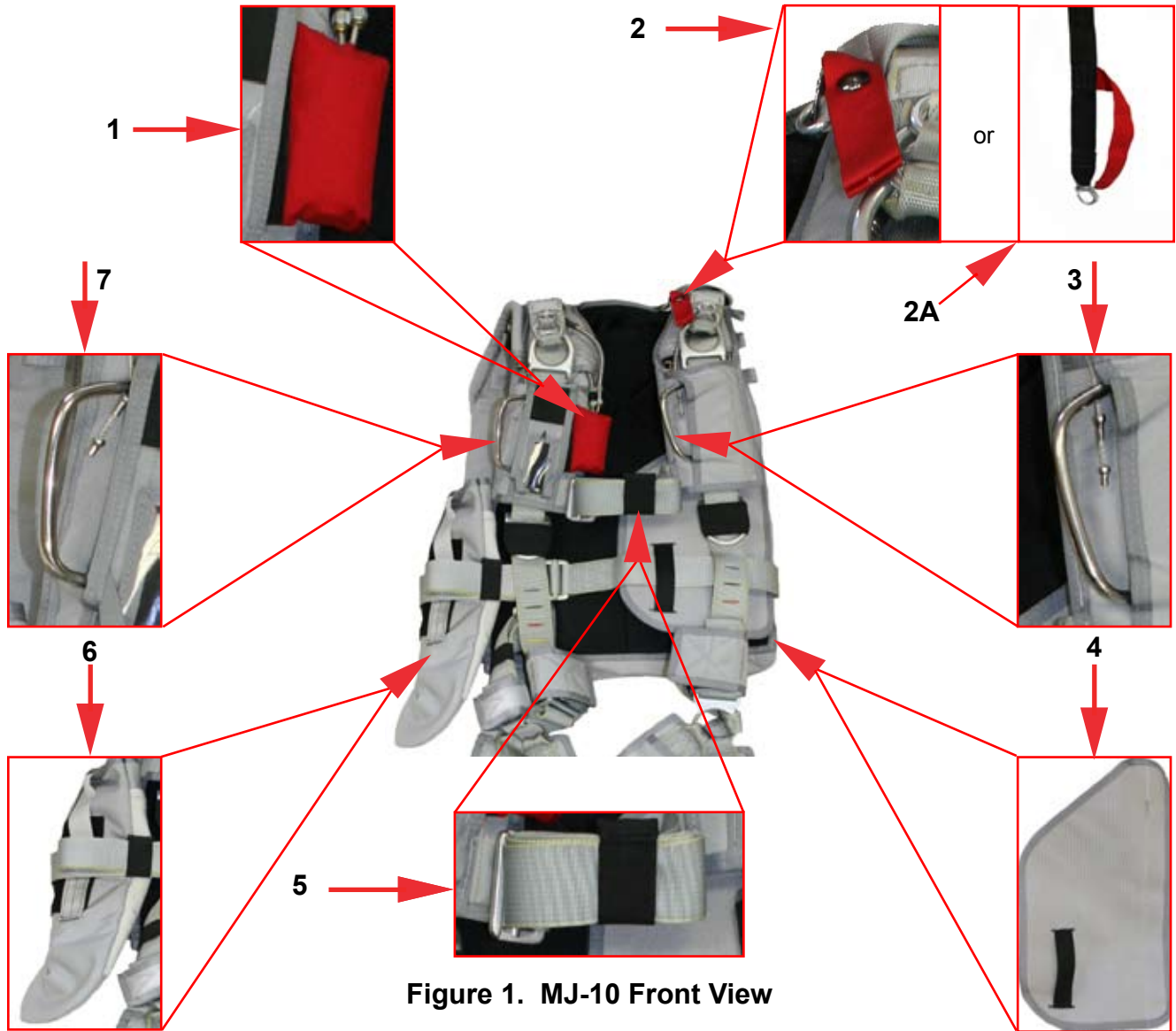


Figure 1. MJ-10 Front View

FIG.	ITEM	CAGE	PART NO.	DESCRIPTION	UNIT	QTY.
1	1	3B7S7	CPS-JM015-PET-RED	CUTAWAY EXTRA THICK	EA.	1
1	2	3B7S7	CPS-JR007-2	MJ-10 RESERVE STATIC LINE-TAB	EA.	1
1	2A	3B7S7	CPS-JR007-1	MJ-10 RESERVE STATIC LINE-LOOP		
1	3	3B7S7	CPS-JR005-21	MJ RIPCORD,RESERVE, 21 INCH	EA.	1
1	4	3B7S7	CPS-JM021-01-L-*	UTILITY POCKET, ZIPPERED	EA.	1
1			CPS-JM021-03-L-*	UTILITY POCKET, FIXED		
1	5	3B7S7	CPS-PELA-LRG	2" ELASTIC KEEPERS	EA.	5
1	6	3B7S7	CPS-JM016-80_FIX-*	OXYGEN POCKET, FIXED, 80 CU IN	EA.	1
1			CPS-JM016-80_Z-*	OXYGEN POCKET, ZIPPERED, 80 CU IN		
1	7	3B7S7	CPS-JM004-34	MJ RIPCORD, MAIN, 34 INCH	EA	1

* = Color Selection SIL-Silver, BLK-Black, TAN-Tan, SMK-Smoke, GRN-Green(Optional)



Figure 2. MJ-10 Rear View

FIG.	ITEM	CAGE	PART NO.	DESCRIPTION	UNIT	QTY.
2	1	3B7S7	CPS-JA-001-MJ10	HARNESS/CONTAINER ASSEMBLY MJ10 (FREE FALL ONLY)	EA.	1
2	2	3B7S7	CPS-PAAD- CYPLOOP	CYPRES CLOSING LOOP	EA.	2
2	3	3B7S7	CPS-ML-960100	CYPRES CLOSING LOOP DISC	EA.	2
2	4	3B7S7	CPS-JM003-1	MAIN CLOSING LOOP MJ TYPE IIA White / GREEN	EA	5

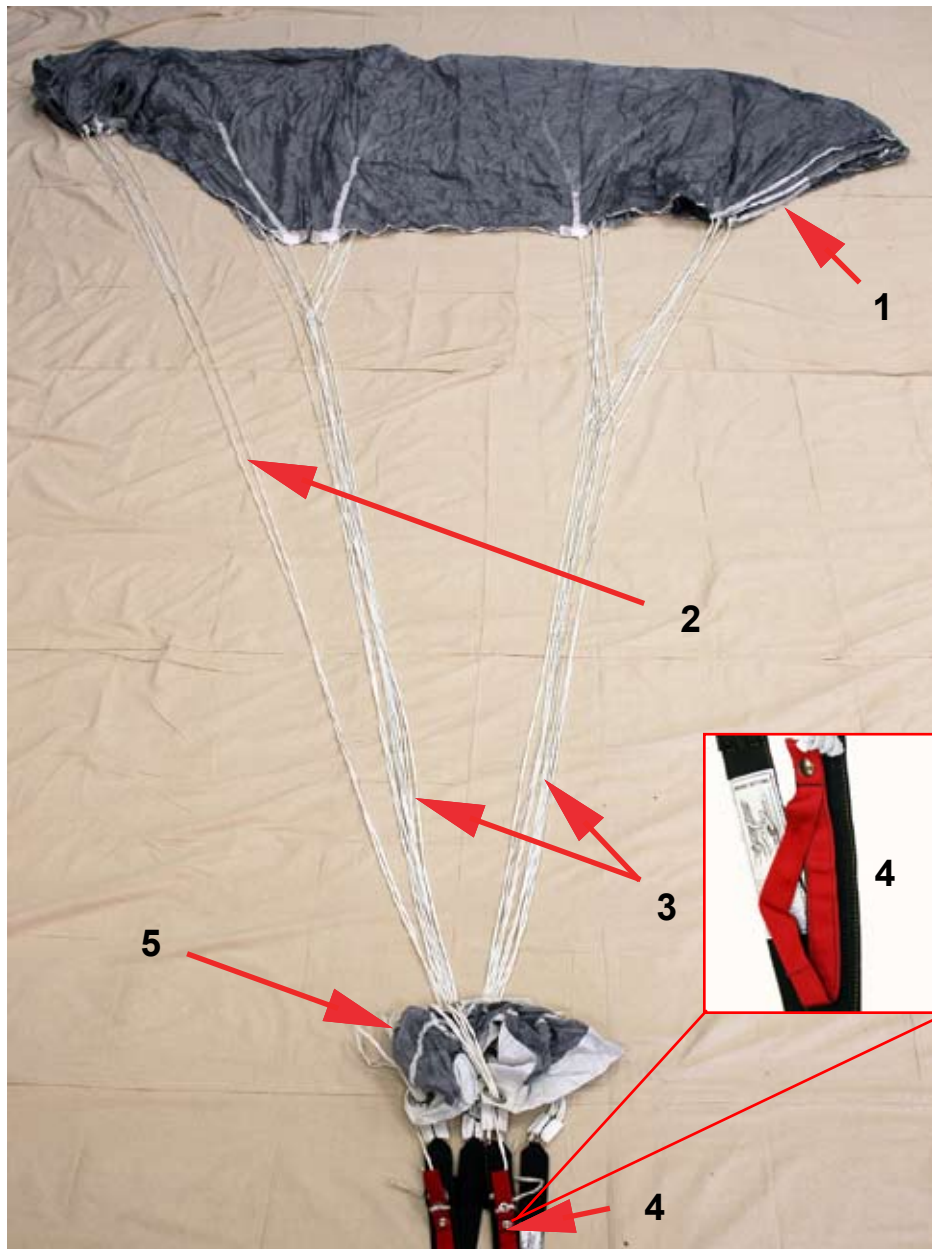


Figure 3. Tactical Reserve (TR-281) Canopy Assembly

FIG.	ITEM	CAGE	PART	DESCRIPTION	UNIT	QTY.
3	1	3B7S7	CPS-TR-281	TR-281 RESERVE CANOPY ASSEMBLY	EA.	1
3	2	3B7S7	CPS-FRP-LS-TR-0281-14-30-12-01	CONTROL LINE SET, TR-281	EA.	1
3	3	3B7S7	CPS-FRP-LS-TR-0281-14-30-01-01	COMPLETE LINE SET, TR-281	EA.	1
3	4	3B7S7	CPS-JR008	STEERING TOGGLES -RED	EA.	2
3	5	3B7S7	CPS-FRP-SL-2300-3100-01-B-A-C	SLIDER,TR-281	EA.	1

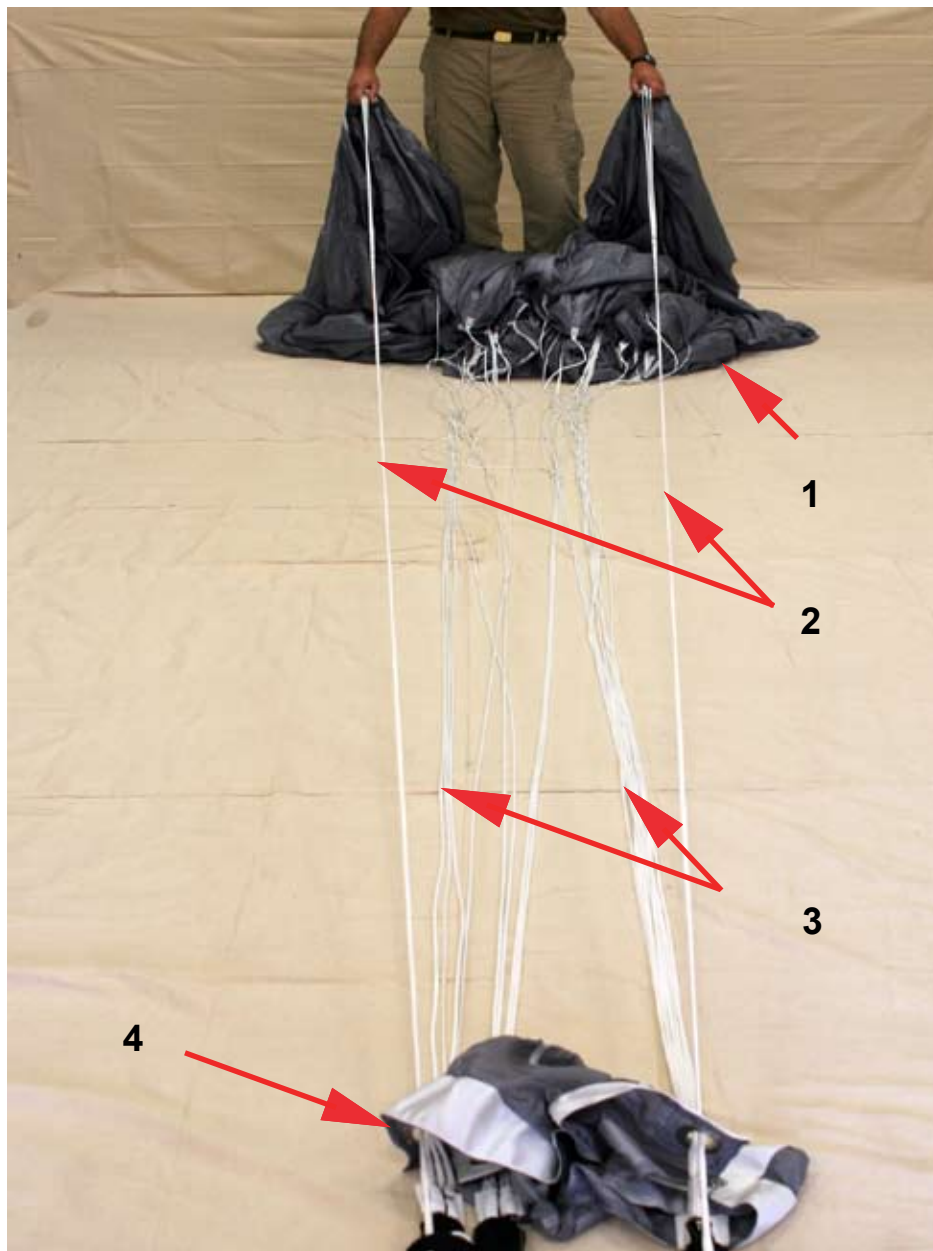


Figure 4. Main Parachute (MS-280) Canopy Assembly

FIG.	ITEM	CAGE	PART	DESCRIPTION	UNIT	QTY.
4	1	3B7S7	CPS-MS-280 M1C	MS-280 MAIN CANOPY (FREEFALL ONLY)	EA.	1
4	2	3B7S7	CPS-FRP-LS-MS-0280-1030-12-NA	CONTROL LINE SET, MS-280	EA.	1
4	3	3B7S7	CPS-FRP-LS-MS-0280-1030-01-O1	COMPLETE LINE SET, MS-280	EA.	1
4	4	3B7S7	CPS-FRP-SL-2600-3100-00-B-A-B	SLIDER, MS-280	EA.	1



Figure 5. High Speed Reserve Deployment System

FIG.	ITEM	CAGE	PART	DESCRIPTION	UNIT	QTY.
5	1	3B7S7	CPS-JR004EZ	HIGH SPEED RESERVE PILOT CHUTE	EA.	1
5	2	3B7S7	CPS-JR002-10	MJ-10 RESERVE FREEBAG W/BRIDLE, W/FLUTES	EA.	1
5	3	3B7S7	CPS-J009-M	RESERVE DEPLOYMENT BAG SAFETY STOW	EA.	2



Figure 6. MJ-10 Main Deployment Bag Assembly

FIG.	ITEM	CAGE	PART	DESCRIPTION	UNIT	QTY.
6	1	3B7S7	CPS-JM001	MAIN SPRING PILOT CHUTE	EA.	1
6	2	3B7S7	CPS-JM017-3-10	MAIN DEPLOYMENT BAG, MJ-10	EA.	1
6	3	3B7S7	CPS-JM020-1A	BRIDLE, MAIN, LG LOOPS	EA.	1

MJ-10



PART # CPS-JR002-10
DESCRIPTION: Freebag, Fluted, MJ-10 W/Bridle
SPECIFICATIONS
F111 Construction
Bridle, 2" Natural Nylon/Poly
Length: 142" ± 2", 3606mm ± 50mm
Safety Stow Loops, (2)
(At Limit 14" ±1", 356 ± 25mm)



Figure 1. Freebag, Fluted, W/Bridle-MJ

PART # CPS-JM017-3-10
DESCRIPTION: Deployment Bag, MJ-10, Freefall, Kicker Plate
SPECIFICATIONS
Fabric Construction, 500D Cordura
Grommets, #2 Stainless (X4)
Stow Band Loops (10)



Figure 2. Deployment Bag, Main Freefall, W/Kicker Plate

PART # CPS-PS003-21
DESCRIPTION: Kicker Plate, Deployment Bag, MJ-10, ,
SPECIFICATIONS
.06 High Density Polyurethane.
8 3/8 inches X 4 inches X 1/16 inch



Figure 3. Kicker Plate Replacement Panel

PART # CPS-JM020-1A
DESCRIPTION: Bridle, Main Pilot Chute, LG Loops
SPECIFICATIONS
1" Type 4, Black
Finished Length 79 1/16" +/- 1.5"



Figure 4. Main Pilot Chute Bridle

PART # CPS-JM001
DESCRIPTION: Pilot Chute, Main W/Spring,
SPECIFICATIONS
36" Finished Diameter (Approx)
F111/Mesh Construction
Spring Loaded



Figure 5. Main Pilot Chute

PART # CPS-JR004EZ
DESCRIPTION: Pilot Chute, Reserve, W/Spring
SPECIFICATIONS
36" Finished Diameter (Approx)
F111/Mesh Construction
Spring Loaded
High Speed Set Up



Figure 6. Reserve Pilot Chute

PART # CPS-JM012-2
DESCRIPTION: Riser MJ, T7, LG 3-RING
SPECIFICATIONS
Type 7 Construction
Finished Length: 26" +/- .25" (measured with ring out flat)
RSL Ring on Left Riser. (Standard RSL on left)
Velcroless Toggle Setup



Figure 7. Riser

PART # CPS-JM014-2-TC
DESCRIPTION: Toggle, Velcroless, Main Parachute W/HAHO Extension
SPECIFICATIONS
W / Optional CPS-JM014-EXT-ON Extension Type 4
Toggle: Type 17 Construction



Figure 8. Main Parachute Toggle W/Extension

PART # CPS-JR008
DESCRIPTION: Toggle, MJ Reserve
SPECIFICATIONS
Type 17-Color-Red W/Velcro
Stainless Steel Grommet



Figure 9. Reserve Toggle

PART # CPS-JM015-1-PET-RED	
DESCRIPTION: Cutaway, Extra Thick	
SPECIFICATIONS	
Color: Red	
Cable: Clear Lolon	
Cable Length:	Long: 42.05" (1068mm) Short: 12.75" (325mm) (+/- 6mm)

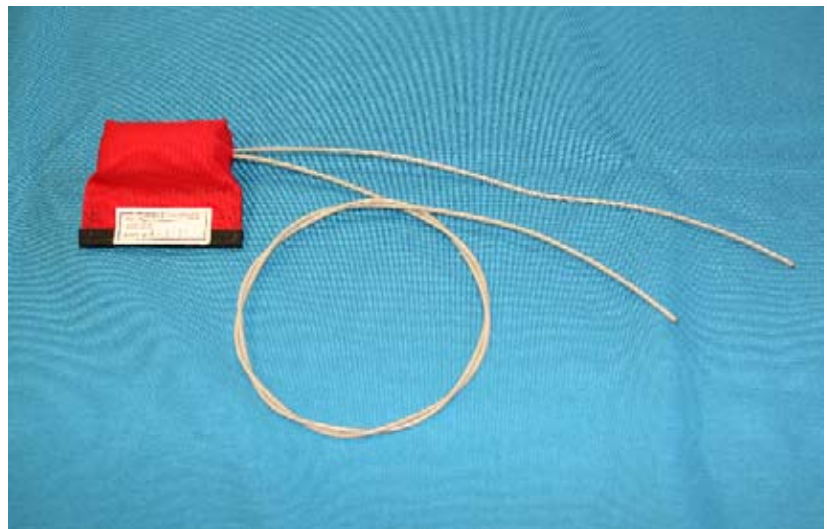


Figure 10. Cutaway Handle

PART # CPS-J009-M	
DESCRIPTION: Safety Stow- MJ	
SPECIFICATIONS	
1/8" Nylon Sheathed Elastic Shock Cord (At Limit = 14"+1"/-0", 365mm, +25mm/-0mm)	



Figure 11. Safety Stow

PART # See Specifications Below	
DESCRIPTION: Stow Bands	
SPECIFICATIONS	
1 - CPS-PB001-REG. Retainer bands, Regular 2 X 3/8"	
2 - CPS- PB001-TAN, Retainer bands, Large, DBSL 2 X 5/8"	
3 - CPS-TUBE STOES™-TK, Tube Stoes™, Natural	



Figure 12. Tube Stoes™/Retainer Bands

PART # CPS-JR007-2
DESCRIPTION: MJ-10 Reserve Static Line (RSL)
SPECIFICATIONS
1" Type 4-Color
Stainless Steel Snap Shackle
Red, 4" Type 3 tab w/snap

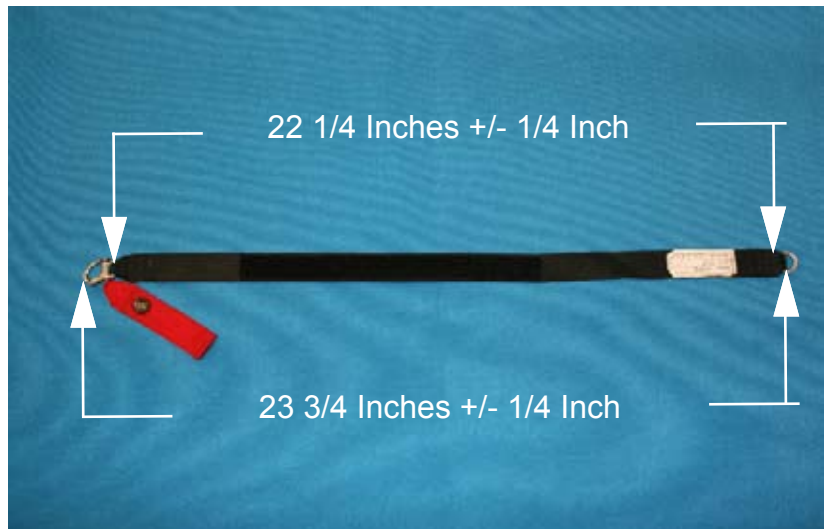


Figure 13. Reserve Static Line W/Tab

PART # CPS-JR007-1
DESCRIPTION: MJ-10 Reserve Static Line (RSL)
SPECIFICATIONS
1" Type 4-Color
Stainless Steel Snap Shackle
Red, 4" Type 3 tab w/snap

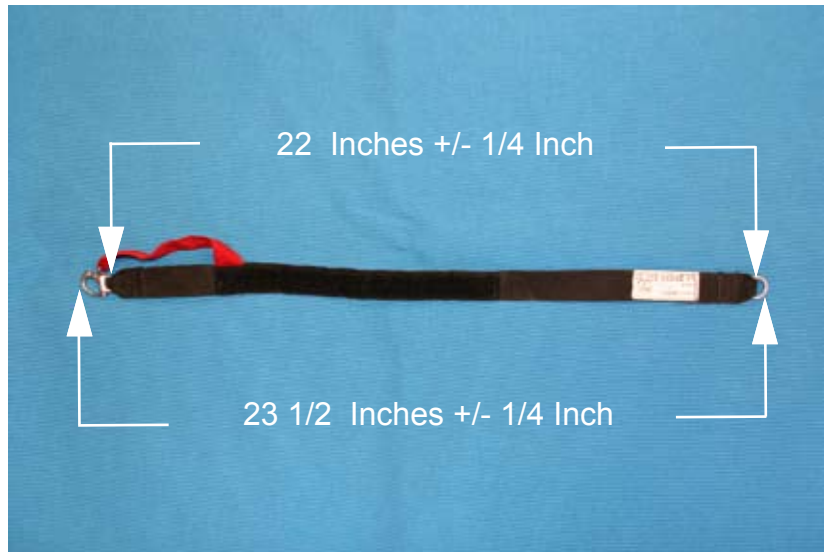


Figure 14. Reserve Static Line W/Loop

PART # CPS-JM005/JR005
DESCRIPTION: Test Gauge
SPECIFICATIONS
Utilized to confirm proper ripcord handle sizing for elastic pockets.

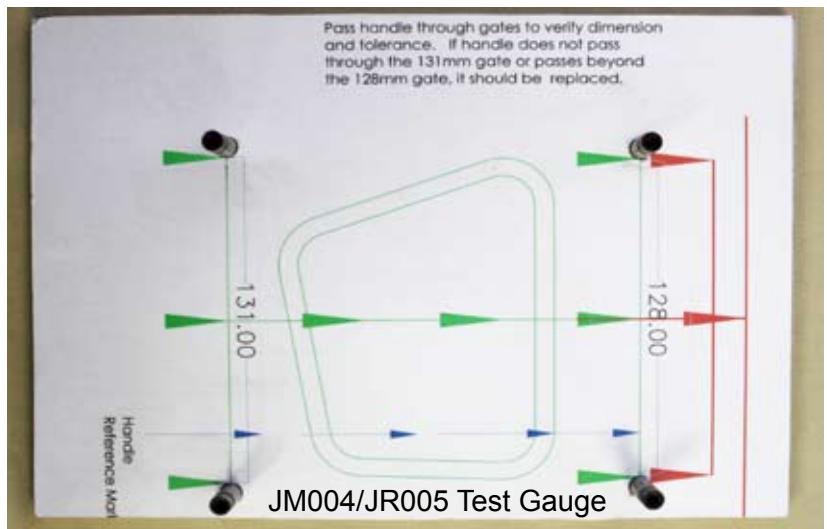


Figure 15. Test Gauge

PART # CPS-JM004-34
DESCRIPTION: Ripcord, Main, 34 Inch
SPECIFICATIONS
Finished Cable Length: 34" End of Pin to First Ball and Shank Bent Pin, Double Ball and Shank
Handle Length Dimension: 129mm (5.1") +2/-1mm (Tolerance)

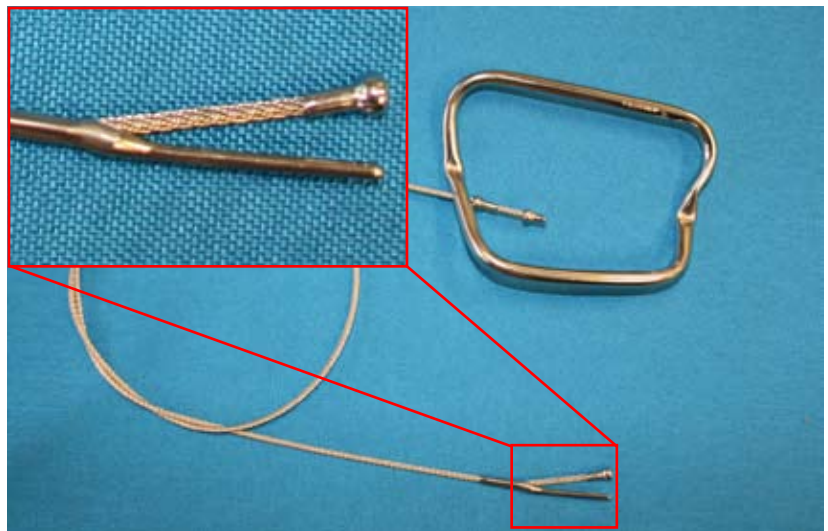


Figure 16. Ripcord, Main With Pigtail

PART # CPS-JR005-21
DESCRIPTION: Ripcord, Reserve, 21 Inch
SPECIFICATIONS
Finished Cable Length: 21" End of Pin to first Ball and Shank Terminal Pin, Double Ball and Shank
Handle Length Dimension: 129mm (5.1") +2/-1mm (Tolerance) (Elastic Pocket Only)

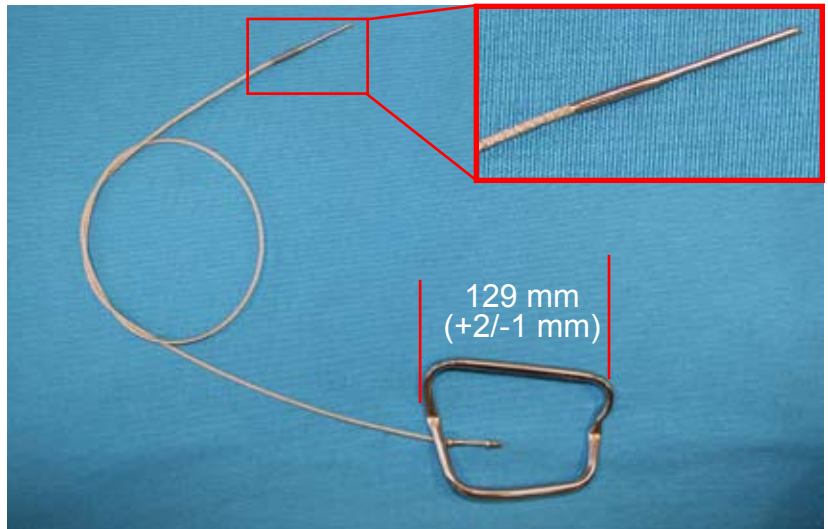


Figure 17. Ripcord, Main, Terminal single pin

PART # CPS-AAD2C1M1535A-1500/35/A
DESCRIPTION: CYPRES-2
SPECIFICATIONS
1 Pin Military 1500 ft.35 M/S ABS



Figure 18. CYPRES AAD 1500 ft.35 M/S ABS

PART # JM003-1
DESCRIPTION: MJ Main Closing Loop
SPECIFICATIONS
Type IIA White/Green
Finished Loop Length 1 1/2" +/- 1/4" Measured from washer to the end of the loop.
#8 Washer



Figure 19. Main Closing Loop

PART # PAAD-CYPLOOP
DESCRIPTION: MJ Reserve Closing Loop
SPECIFICATIONS
CYPRES Loop Material
Finished Loop Length= 2 3/4" +/- 1/8" Measured from washer to the end of the loop.



Figure 20. Reserve Closing Loop (CYPRES)



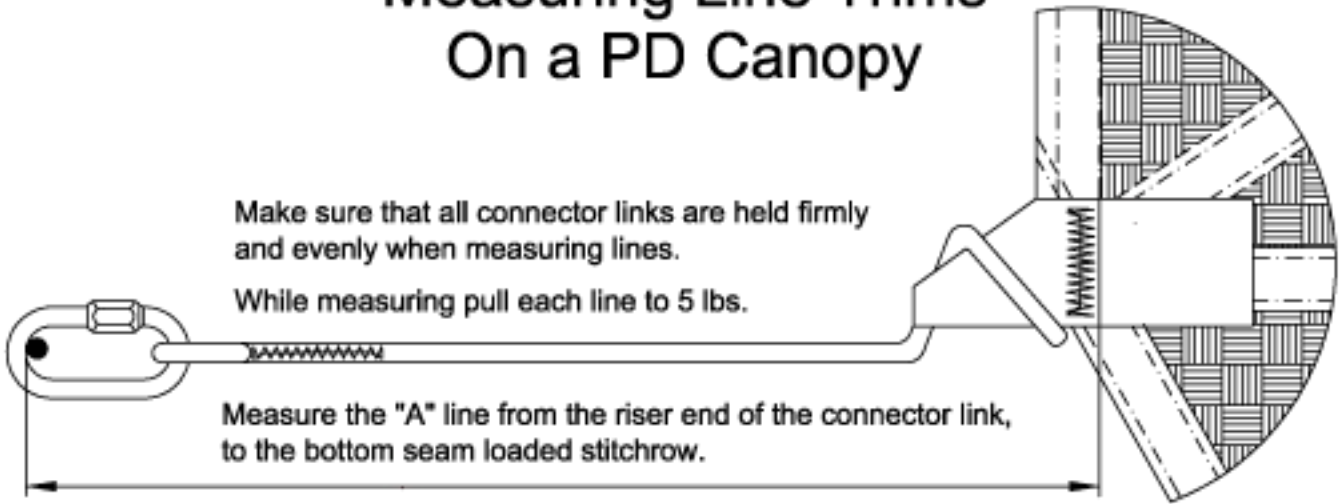
MEASURING LINE TRIM

Measuring Line Trims On a PD Canopy

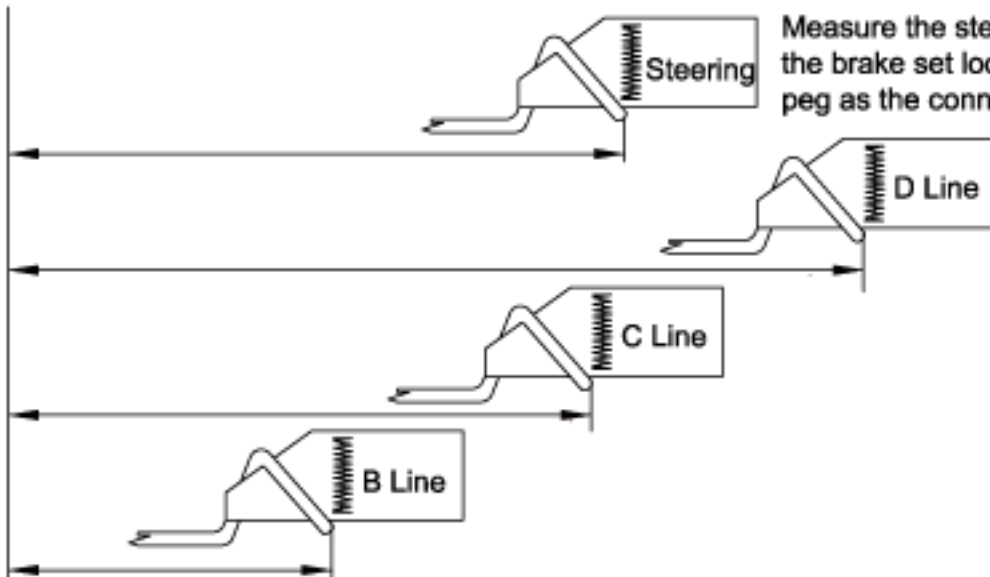
Make sure that all connector links are held firmly and evenly when measuring lines.

While measuring pull each line to 5 lbs.

Measure the "A" line from the riser end of the connector link, to the bottom seam loaded stitchrow.

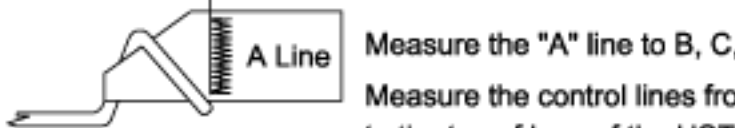


Measure the steering lines with the brake set loop on the same peg as the connector links.

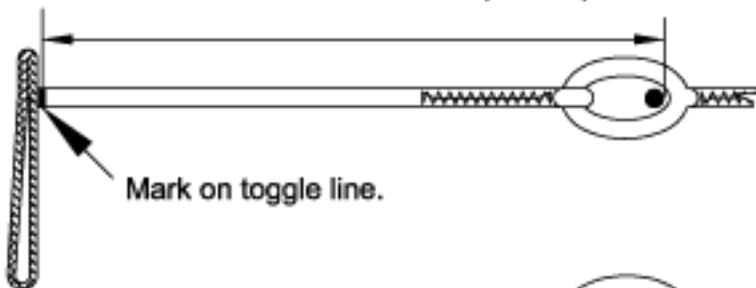


Measure the "A" line to B, C, D, line differentials from top of loop to top of loop.

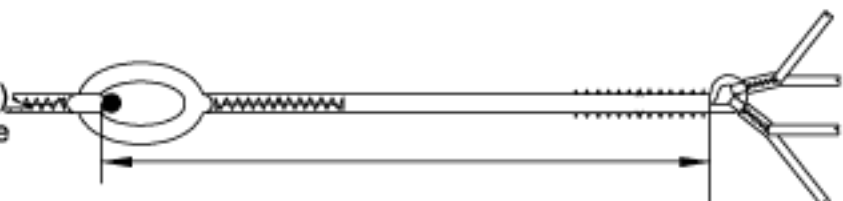
Measure the control lines from the outboard "A" line top of loop to the top of loop of the UST.



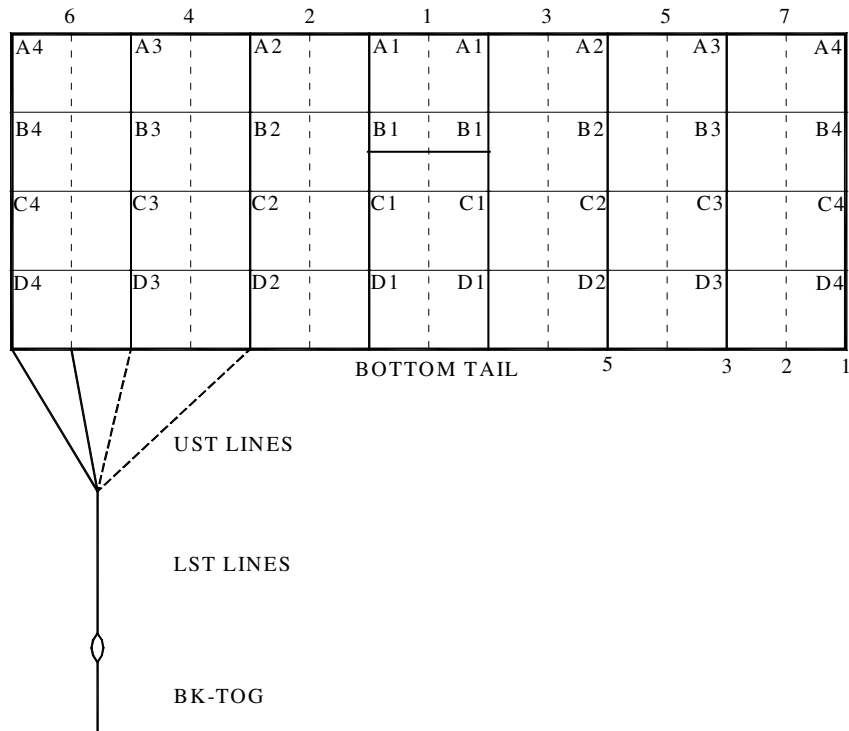
Measure the Brake to Toggle (BK-TOG), from the peg to the toggle mark on the steering line.



Measure the Lower Steering Line (LST) from the peg to the Upper Steering Line (UST) fingertrap cascade junction.



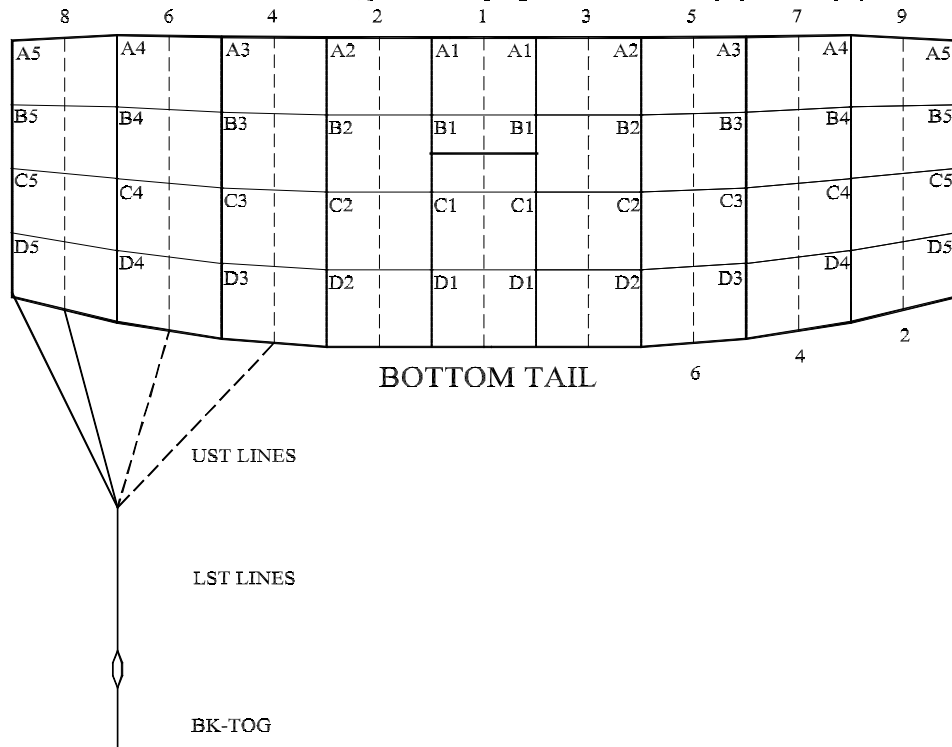
LINE TRIM CHART FOR TR 281 - 375



	TR-281	TR-305	TR-335	TR-375
A1	155 5/8	162	169 3/4	179 1/2
A1-B1	4	5	4 3/8	4 5/8
A1-C1	14 7/8	15 1/2	16 1/8	17 1/8
A1-D1	26 1/2	27 5/8	28 7/8	30 5/8
A2	155 5/8	162	169 3/4	179 1/2
A2-B2	4	5	4 3/8	4 5/8
A2-C2	14 7/8	15 1/2	16 1/8	17 1/8
A2-D2	26 1/2	27 5/8	28 7/8	30 5/8
A3	155 5/8	162	169 3/4	179 1/2
A3-B3	4	5	4 3/8	4 5/8
A3-C3	14 7/8	15 1/2	16 1/8	17 1/8
A3-D3	26 1/2	27 5/8	28 7/8	30 5/8
A4	155 5/8	162	169 3/4	179 1/2
A4-B4	4	5	4 3/8	4 5/8
A4-C4	14 7/8	15 1/2	16 1/8	17 1/8
A4-D4	26 1/2	27 5/8	28 7/8	30 5/8
LST	119 3/4	124 5/8	130 3/8	137 5/8
A4-UST1	15	15 5/8	16 1/8	17
A4-UST2	15	15 5/8	16 1/8	17
A4-UST3	15	15 5/8	16 1/8	17
A4-UST5	15	15 5/8	16 1/8	17
B STAB SLK	1	1	1	1
C STAB SLK	1 1/2	1 1/2	1 1/2	1 1/2
D STAB SLK	EVEN W/C	EVEN W/C	EVEN W/C	EVEN W/C
BK-TOG	25 1/4	26 1/4	27 1/2	29 1/8

LINE TRIM CHART FOR

MILITARY SILHOUETTE 260 - 400



	MS-260	MS-280	MS-300	MS-330	MS-360	MS-400
A1	164 1/2	167 1/2	170 3/8	178 3/4	186 5/8	196 7/8
A1-B1	3 1/8	3 1/4	3 3/8	3 1/2	3 3/4	3 7/8
A1-C1	11 1/2	11 7/8	12 1/4	13	13 1/2	14 1/4
A1-D1	22 1/2	23 1/2	24 1/4	25 1/2	26 3/4	28 1/4
A2	164 1/2	167 1/2	170 3/8	178 3/4	186 5/8	196 7/8
A2-B2	3 1/8	3 1/4	3 3/8	3 1/2	3 3/4	3 7/8
A2-C2	11 3/8	11 3/4	12 1/4	12 7/8	13 1/2	14 1/4
A2-D2	22 3/8	23 3/8	24 1/4	25 1/2	26 5/8	28
A3	164 3/8	167 1/2	170 1/4	178 5/8	186 1/2	196 3/4
A3-B3	3	3 1/8	3 1/4	3 1/2	3 5/8	3 3/4
A3-C3	11	11 3/8	11 7/8	12 1/2	13	13 5/8
A3-D3	21 7/8	22 3/4	23 5/8	24 7/8	26	27 1/4
A4	164 1/4	167 3/8	170 1/8	178 1/2	186 3/8	196 5/8
A4-B4	2 3/4	2 7/8	3 1/8	3 1/4	3 3/8	3 1/2
A4-C4	10	10 1/2	11 1/8	11 3/8	11 7/8	12 1/2
A4-D4	20 1/8	21	21 7/8	23 1/8	24	25 1/8
A5	164 1/8	167 1/4	197	178 3/8	186 1/4	196 1/2
A5-B5	2 3/4	2 7/8	3	3 1/8	3 3/8	3 3/8
A5-C5	8 7/8	9 1/4	9 5/8	10 1/8	10 1/2	11 1/8
A5-D5	17 5/8	18 1/2	19 1/4	20 1/8	21 1/8	22 1/8
LST	116 1/2	120 1/8	124 3/8	131 1/2	137 1/4	144 1/2
A5-UST1	11 3/8	14 1/8	16 7/8	18 5/8	19 3/8	20 1/4
A5-UST2	11 3/8	14 1/8	16 7/8	18 5/8	19 3/8	20 1/4
A5-UST4	11 3/8	14 1/8	16 7/8	18 5/8	19 3/8	20 1/4
A5-UST6	11 3/8	14 1/8	16 7/8	18 5/8	19 3/8	20 1/4
B STAB SLK	1/2	1/2	1	1	1	1
C STAB SLK	1	1	1 1/2	1 1/2	1 1/2	1 1/2
D STAB SLK	1 1/2	1 1/2	2	2	2	2
BK-TOG	24 1/2	23 1/8	24 7/8	22 1/8	23	24 3/8