

**TECHNICAL BULLETIN
MAINTENANCE EXPENDITURE LIMITS
FOR
FSC GROUP 16
FSC CLASS 1670**

* TB 43-0002-43 dated 31 October 2005 superseded TB 43-0002-43 dated 1 November 2001, including all changes.

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**HEADQUARTERS, DEPARTMENT OF THE ARMY
31 OCTOBER 2005**

LIST OF EFFECTIVE PAGES

Note: This Technical Bulletin supersedes TB 43-0002-43 dated 1 November 2001. Zero in the "Change No." column indicates an original page.

Date of issue for revision is:

Original 31 October 2005

TOTAL NUMBER OF PAGES FOR THIS TB IS 32, CONSISTING OF THE FOLLOWING:

Page	Change No.
Front Cover	0
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1-9/(10 Blank)	0
Back Cover	0

**MAINTENANCE EXPENDITURE LIMITS
FOR
FSC GROUP 16
FSC CLASS 1670**

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), located in the back of this manual, directly to: Commander, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-LC-CEA, 15 Kansas Street, Natick, MA 01760-5052. You may also send in your recommended changes via electronic mail directly to amstalceaq@natick.army.mil. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028. In either case, a reply will be furnished to you.

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TB 43-0002-43

Section I. GENERAL

1. **Purpose.** To implement the provisions of AR 750-1 pertinent to one-time repair expenditure limits and to provide guidance for technical inspection and disposition instructions for equipment listed herein.
2. **Scope.** This bulletin applies to all active U.S. Army, U.S. Army Reserve and National Guard organizations, installations, and activities engaged in supply and maintenance (either contract or in-house) of aerial delivery equipment.
3. **Definitions.**
 - a. **Shelf Life:** The time a parachute is in the depot or in the field unit but has not been removed from the depot or manufacturer's container.
 - b. **Service Life:** Starts when the using unit receives the parachute and removes it from its shipping container.
 - c. **Age Life:** The maximum period of time during which an item is serviceable for its intended use. Age life begins at the date of manufacture and extends over a specified number of years. Age life encompasses both shelf life and service life.
 - d. **Date Placed in Service:** Prior to being placed into service, personnel parachutes having no previous use will be marked to reflect the date of entry into service. Reference TM 10-1670-201-23.

Section II. ONE-TIME REPAIR EXPENDITURE LIMITS

4. **Procedures.**
 - a. One-time expenditure limits are applicable each time an item becomes unserviceable. The one-time repair expenditure limit is expressed as a percentage of the total repair cost estimate to the total cost of the end item.
 - b. The procedure for determining the repair expenditure limit for an item is as follows:
 - (1) Obtain the current price of the end item.
 - (2) The repair cost estimate is the sum total of the estimated cost of labor and parts listed in the technical inspection report as necessary requirements for the restoration of an end item to a serviceable condition.
 - c. Repair eligibility will be determined by comparing the report cost estimate with the product of the percentage shown on the applicable repair limitations chart, times the current price of the unserviceable end item. An end item loses its repair eligibility if the estimated cost of repair exceeds this product (except with waiver in accordance with AR 750-1). The maximum allowable one-time overhaul allowance of 65 percent as authorized in AR 750-1 is restricted to those years identified in this bulletin.
 - d. The expenditure limit is 100 percent of the acquisition cost for components, assemblies and recoverable repair parts applicable to the end items of equipment that have remaining repair eligibility cited in this bulletin. Replace the components, assemblies, and recoverable repair parts where cost of repair exceeds 100 percent.
 - e. The above paragraph is applicable to bulk components, assemblies, and/or recoverable parts to be repaired and returned to the pipeline for issue. These bulk items are those items in support of the direct exchange program.

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Section III. TECHNICAL INSPECTIONS

5. **Procedures.** Equipment requiring repair or overhaul will be inspected in accordance with the provisions of AR 750-1, DA PAM 738-750, and the applicable equipment technical manuals.
6. **Forms.** The following listed forms will be used when applicable:
 - a. DA Form 2404 (Equipment Inspection and Maintenance Worksheet) will be used to record the results of technical inspections. Refer to DA PAM 738-750 for instructions for preparation and use of the form.
 - b. DA Form 3590 (Repair Eligibility Data Sheet) will be prepared for items that are evacuated for depot maintenance or reported in the National Inventory Control Point (NICP) as serviceable/unserviceable excess. Refer to TB 43-0140 for instructions for preparation and use of the form.

Section IV. COMPUTATION OF REPAIR COST ESTIMATES

7. **Cost Factors.** Computation of repair costs estimates will be made in accordance with instructions contained in AR 750-1.
8. **Procedures.** Technical inspection findings will be converted to repair cost estimates by use of instructions contained in paragraphs 5 and 6 of this bulletin and AR 750-1. Exclusions to the estimate of cost to repair are listed in AR 750-1.

Section V. DISPOSITION INSTRUCTIONS

9. **Eligibility of Material for Evacuation to Depot Maintenance.** Aerial delivery equipment determined to be economically repairable according to Appendix A will not be evacuated to depot level without prior approval of SBCCOM.
10. **Disposition Instructions.**
 - a. Items designated in periodic NICP supply letters will be automatically returned or reported for disposition as indicated in the supply letter and AR 710-1. Request for disposition instructions will be made in letter form with applicable DA Form 2404 (completed as prescribed in Appendix A) attached.
 - b. Aerial delivery and life support equipment which are determined to be beyond economic repair, and that are not covered by the above disposition instructions, will be disposed of by the activity making this determination. Disposal will be made in accordance with applicable directives.
11. **References:**
 - a. AR 310-25
 - b. AR 700-82
 - c. AR 710-1
 - d. AR 750-1
 - e. DA PAM 738-750
 - f. TM 10-1670-201-23
 - g. TB 43-014

APPENDIX A

REPAIR LIMITATIONS FOR PERSONNEL/CARGO PARACHUTES

1) Repair limitations for Troop Back and Ram Air Personnel Parachute Systems (RAPPS).

Service Life	12	11	10	9	8	7	6	5	4	3	2	1
Expenditure Limit	96%	88%	80%	72%	64%	56%	48%	40%	32%	24%	16%	8%

2) Repair limitations for Ram Air Personnel Parachute Systems (RAPPS) for USAJFKSWC&S, Yuma, Arizona ONLY!

Service Life	6	5	4	3	2	1
Expenditure Limit	94%	78%	62%	46%	30%	14%

3) Repair limitations for the 24-Foot Troop Chest Reserve/Modified Improved Reserve Parachute System (MIRPS).

Service Life	13.5	12.5	11.5	10.5	9.5	8.5	7.5	6.5	5.5	4.5	3.5	2.5	1.5
Expenditure Limit	91%	84%	77%	70%	63%	56%	49%	42%	35%	28%	21%	14%	7%

4) Repair limitations for G-11 Series, G-12 Series, and G-14 Cargo Parachutes. Due to nylon degradation in tensile strength over extended years of service, adhere to the following maintenance repair limits.

Years in Service	1-5	6-11	12-17	18-23	24-29	30-35	36 or greater
Maximum Repair Hours	120	100	80	60	40	20	0

APPENDIX B

LIMITATIONS OF SERVICE AND SHELF LIFE FOR AERIAL DELIVERY AND LIFE SUPPORT EQUIPMENT (FSC 1670)

1) Limitations of service and shelf life for Ram Air Personnel Parachute Systems (RAPPS).

Maximum Age Life 15 Years	Maximum Service Life 12 Years	Shelf	1-3	4	5	6	7	8	9	10	11	12	13	14	15
		Service	12	11	10	9	8	7	6	5	4	3	2	1	0

2) Limitations of service and shelf life for Ram Air Personnel Parachute Systems (RAPPS) for USAJFKSWC&S, Yuma, Arizona ONLY!

Maximum Age Life 15 Years	Maximum Service Life 6 Years	Shelf	1-9	10	11	12	13	14	15
		Service	6	5	4	3	2	1	0

MC-4 RAM AIR PERSONNEL PARACHUTE SYSTEM (RAPPS)

NOTE

Individual components have a 12-year service life (components at USAJFKSWC&S Yuma, AZ have a 6-year service life and must have adequate control measures incorporated to prevent mixing of these systems at the Fort Bragg, NC location).

NOUN

NSN

P/N

CANOPY, MAIN	1670-01-330-3916	11-1-3518
CANOPY, RESERVE	1670-01-330-3279	11-1-3518-1
HARNESS/CONTAINER	1670-01-330-3280	11-1-3517
PILOT CHUTE	1670-01-330-3747	11-1-3522
SLIDER	1670-01-330-3744	11-1-3531
RISERS, MAIN	1670-01-330-3284	11-1-3519

APPENDIX B

LIMITATIONS OF SERVICE AND SHELF LIFE FOR AERIAL DELIVERY AND LIFE SUPPORT EQUIPMENT (FSC 1670) – continued

Maximum Age Life 16.5 Years	Maximum Service Life 12 Years	Shelf	1-4.5	5.5	6.5	7.5	8.5	9.5	10.5	11.5	12.5	13.5	14.5	15.5	16.5
		Service	12	11	10	9	8	7	6	5	4	3	2	1	0

NOUN

NSN

P/N

*T-10C PARACHUTE ASSEMBLY	1670-01-248-9502	11-1-564-2
*T-10D PARACHUTE ASSEMBLY	1670-01-484-2234	11-1-564-4
T-10C/T-10D CANOPY	1670-01-247-7151	11-1-1501-2
*MC1-1B PARACHUTE ASSEMBLY	1670-00-598-0751	11-1-900-1
*MC1-1C PARACHUTE ASSEMBLY	1670-01-262-2359	11-1-900-2
*MC1-1D PARACHUTE ASSEMBLY	1670-01-487-0777	11-1-900-3
MC1-1B/MC1-1E CANOPY	1670-01-007-8559	11-1-1501-1
MC1-1C/MC1-1D CANOPY	1670-01262-2360	11-1-1501-3
MC1-1E PARACHUTE ASSEMBLY	1670-01-499-6573	11-1-900-4

NOTE

PACK TRAY AND DEPLOYMENT BAGS HAVE NO SHELF/SERVICE LIFE.

* See Appendix B, page 9 for Riser and Harness Data.

APPENDIX B

LIMITATIONS OF SERVICE AND SHELF LIFE FOR AERIAL DELIVERY AND LIFE SUPPORT EQUIPMENT (FSC 1670) – continued

Maximum Age Life 16.5 Years	Maximum Service Life 13.5 Years	Shelf	1-3	4	5	6	7	8	9
		Service	13.5	12.5	11.5	10.5	9.5	8.5	7.5

Maximum Age Life 16.5 Years	Maximum Service Life 13.5 Years	Shelf	10	11	12	13	14	15	16
		Service	6.5	5.5	4.5	3.5	2.5	1.5	0.5

NOUN

NSN

P/N

MODIFIED IMPROVED RESERVE PARACHUTE SYSTEM (MIRPS)	1670-01-420-4256	11-1-4012-1
PILOT CHUTE, ASSY, MIRPS	1670-01-457-7897	11-1-6966-1
PILOT CHUTE (only), MIRPS	1670-01-476-2984	11-1-4014-1
BRIDLE ASSEMBLY, MIRPS	1670-01-461-0071	11-1-4018
EJECTOR SPRING ASSY, MIRPS	1670-01-457-7901	11-1-4040-1
T-10 RESERVE ASSEMBLY	1670-00-892-4218	62C4317
PILOT CHUTE, T-10R	1670-00-251-6603	49J7161-2
MIRPS/T-10R CANOPY	1670-00-622-4462	48J7156-3

NOTE

MIRPS/T-10R PACK TRAYS HAVE NO SHELF/SERVICE LIFE.

APPENDIX B

LIMITATIONS OF SERVICE AND SHELF LIFE FOR AERIAL DELIVERY AND LIFE SUPPORT EQUIPMENT (FSC 1670) – continued

Maximum Age Life 15 Years	Maximum Service Life 12 Years	Shelf	1-3	4	5	6	7	8	9	10	11	12	13	14	15
		Service	12	11	10	9	8	7	6	5	4	3	2	1	0

NOUN

MC-6 System

NSN

1670-01-527-7537

P/N

11-1-7400

APPENDIX B

LIMITATIONS OF SERVICE AND SHELF LIFE FOR AERIAL DELIVERY AND LIFE SUPPORT EQUIPMENT (FSC 1670) – continued

Maximum Age Life 20 Years	Maximum Service Life 17 Years	Shelf	1-3	4	5	6	7	8	9	10	11
		Service	17	16	15	14	13	12	11	10	9

Maximum Age Life 20 Years	Maximum Service Life 17 Years	Shelf	12	13	14	15	16	17	18	19	20
		Service	8	7	6	5	4	3	2	1	0

NOUN

HARNESSES, PERSONNEL
RISERS, 30-INCH, T-10C/T-10D
RISERS, 30-INCH, MC1-1B/MC1-1C
MC1-1D/MC1-1E

NSN

1670-01-272-1901
1670-00-457-7897
1670-01-007-8563

P/N


11-1-2143-1
11-1-2149-2
11-1-2149-1

TB 43-0002-43

By Order of the Secretary of the Army:

PETER J. SCHOOMAKER
General, United States Army
Chief of Staff

Official:


SANDRA R. RILEY
*Administrative Assistant to the
Secretary of the Army*
0527702

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These are the instructions for sending an electronic 2028

The following format must be used if submitting an electronic 2028. The subject line must be exactly the same and all fields must be included; however only the following fields are mandatory: 1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 17, and 27.

From: "Whomever" <whomever@avma27.army.mil>
To: amssbriml@natick.army.mil

Subject: DA Form 2028

1. From: Joe Smith
2. Unit: home
3. Address: 4300 Park
4. City: Hometown
5. St: MO
6. Zip: 77777
7. Date Sent: 19-OCT-93
8. Pub no: 55-2840-229-23
9. Pub Title: TM
10. Publication Date: 04-JUL-85
11. Change Number: 7
12. Submitter Rank: MSG
13. Submitter FName: Joe
14. Submitter MName: T
15. Submitter LName: Smith
16. Submitter Phone: 123-123-1234
17. Problem: 1
18. Page: 2
19. Paragraph: 3
20. Line: 4
21. NSN: 5
22. Reference: 6
23. Figure: 7
24. Table: 8
25. Item: 9
26. Total: 123
27. Text:

This is the text for the problem below line 27.

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 25-30; the proponent agency is ODISC4.						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE <i>21 October 2003</i>
TO: (Forward to proponent of publication or form) (Include ZIP Code) COMMANDER U.S. ARMY TANK-AUTOMOTIVE AND ARMAMENT COMMAND ATTN: AMSTA-LC-CECT 15 KANSAS STREET NATICK, MA 01760-5052						FROM: (Activity and location) (Include ZIP Code) <i>PFC Jane Doe</i> <i>CO A 3rd Engineer BR</i> <i>Ft. Leonardwood, MO 63108</i>	
PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER TM 10-1670-296-23&P				DATE 30 October 2002	TITLE Unit Manual for Ancillary Equipment for Low Velocity Air Drop Systems		
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON <i>(Provide exact wording of recommended changes, if possible).</i>	
	0036 00-2				1	<i>In table 1, Sewing Machine Code Symbols, the second sewing machine code symbol should be MD ZZ not MD 22.</i> <i>Change the manual to show Sewing Machine, Industrial: Zig-Zag; 308 stitch; medium-duty; NSN 3530-01-181-1421 as a MD ZZ code symbol.</i>	
<small>*Reference to line numbers within the paragraph or subparagraph.</small>							
TYPED NAME, GRADE OR TITLE Jane Doe, PFC				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION 508-233-4141		SIGNATURE Jane Doe <i>Jane Doe</i>	

TO: <i>(Forward direct to addressee listed in publication)</i> COMMANDER U.S. ARMY TANK-AUTOMOTIVE AND ARMAMENT COMMAND ATTN: AMSTA-LC-CECT 15 KANSAS STREET NATICK, MA 01760-5052	FROM: <i>(Activity and location) (Include ZIP Code)</i> <i>PFC Jane Doe</i> <i>CO A 3rd Engineer BR</i> <i>Ft. Leonardwood, MO 63108</i>	DATE 21 October 2003
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PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION NUMBER TM 10-1670-296-23&P	DATE 30 October 2002	TITLE Unit Manual for Ancillary Equipment for Low Velocity Air Drop Systems
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION
0066 00-1					4			<i>Callout 16 in figure 4 is pointed to a <u>D-Ring</u>. In the Repair Parts List key for figure 4, item 16 is called a <u>Snap Hook</u>. Please correct one or the other.</i>

PART III – REMARKS

(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)

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TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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<p align="center">RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS</p> <p>For use of this form, see AR 25-30; the proponent agency is ODISC4.</p>						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
TO: (Forward to proponent of publication or form) (Include ZIP Code) COMMANDER U.S. ARMY TANK-AUTOMOTIVE AND ARMAMENT COMMAND ATTN: AMSTA-LC-CECT 15 KANSAS STREET NATICK, MA 01760-5052						FROM: (Activity and location) (Include ZIP Code)	
PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER TB 43-0002-43				DATE 31 October 2005	TITLE Technical Bulletin for Maintenance Expenditure Limits for FSC Group 16, FSC Class 1670		
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON <i>(Provide exact wording of recommended changes, if possible).</i>	
<i>*Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE	

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PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

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PART III – REMARKS (Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)

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PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

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The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
 1 decimeter = 10 centimeters = 3.94 inches
 1 meter = 10 decimeters = 39.37 inches
 1 dekameter = 10 meters = 32.8 feet
 1 hectometer = 10 dekameters = 328.08 feet
 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigrams = .035 ounce
 1 dekagram = 10 grams = .35 ounce
 1 hectogram = 10 dekagrams = 3.52 ounces
 1 kilogram = 10 hectograms = 2.2 pounds
 1 quintal = 100 kilograms = 220.46 pounds
 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
 1 deciliter = 10 centiliters = 3.38 fl. ounces
 1 liter = 10 deciliters = 33.81 fl. ounces
 1 dekaliter = 10 liters = 2.64 gallons
 1 hectoliter = 10 dekaliters = 26.42 gallons
 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
 1 cu. meter = 1000 cu. decimeters = 35.31 feet

Approximate Conversion Factors

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply by</i>
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

Temperature (Exact)

 _F Fahrenheit temperature $\times \frac{5}{9}$ (after subtracting 32) = Celsius temperature _C

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