

# TECHNICAL MANUAL

**This copy is a reprint of the basic.**

# CHECKLIST
# for
# SRU-21/P AIRCREW
# SURVIVAL VEST
# P/N 11-1-1783
# NSN 8465-00-177-4819

**HEADQUARTERS,**
**DEPARTMENT OF THE ARMY**
**24 AUGUST 1981**

**TM 55-1680-317-CL-4**

HEADQUARTERS

DEPARTMENT OF THE ARMY

Washington, DC, 24 August 1981

**1. Inspection Requirements**. This manual contains complete requirements for Preflight and Calendar Inspection of Vest, Survival, SRU-21/P. It does not contain instruction for repair, adjustment, or other means of rectifying conditions, nor does it contain instructions for troubleshooting to find causes for malfunctioning. Specific tolerances, limits, etc., can be found in the applicable maintenance manuals. Use of the alphabetical index in the applicable manuals will facilitate locating the required information.

**2. Scope.** The inspections prescribed by this manual will be accomplished at specified periods by organizational maintenance activities with assistance of direct and general support activities when required.

**3. General Information**. ***a***. The inspection requirements contained herein are stated in such a manner so to establish when certain equipment is to be inspected and what conditions are desired/undesired. Compliance with the provisions outlined herein is required in order to assure that latent defects are discovered and corrected before malfunctioning or serious trouble results. Inspection requirements are arranged, as nearly

as possible, according to the manner in which they will be performed.

***b***. The inspection intervals designated herein will not be exceeded except in actual operational emergencies as explained herein. It is the commander's responsibility to determine (on an individual basis) when inspection intervals may be exceeded. For this purpose, operational emergencies are conditions of combat, or conditions of disaster which necessitate flight to evacuate aircraft or personnel. Since safety may be jeopardized when inspections are delayed to meet emergency requirements, commanders will assure that delayed inspections are accomplished immediately upon termination of the actual emergency. When unusual local conditions of environment, utilization, mission, experience of maintenance personnel, periods of inactivity, etc., are encountered, the ALSE NCO/officer will, at his discretion, increase the scope and/or frequency of maintenance or inspections as necessary to insure safety.

**4. Special Information**. The columns headed P and C are used to indicate the requirements for Preflight and Calendar inspections respectively. The calendar inspection interval is 120

days. Refer to TM 55-1680-317-23&P for maintenance instructions.

**5. Reporting Errors and Recommending Improvements.** You can help improve this manual. If you find any mistake 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) directly to: Commander, US Army Troop Support and Aviation Materiel Readiness Command, ATTN: DRSTS-MTT, 4300 Goodfellow Blvd., St. Louis, MO 63120. A reply will be furnished to you.

For the purpose of clarification of terms used in this manual, the following definitions are given:

| | |
|---|---|
| Specified | Refers to a definite amount, operation, or limitation which has been established and is contained in applicable directives. |
| Evidence | Is an indication of an existing or impending unsatisfactory condition. |
| Security | Means the component is properly mounted or attached to related equipment including applicable safetying. |

| | |
|---|---|
| Accessible | Is the term applied to equipment that may be inspected without further disassembly or removal of components, etc., other than those required to accomplish the more specific requirements applicable to particular inspections. |
| Excessive | Is a term used to describe conditions where specific limitations have not been established. A condition is excessive if it has progressed to the degree that, if not corrected, could result in failure or malfunction of component prior to the next scheduled accomplishment of the requirement which directed attention to the condition. |

**WARNING**

When an abnormal condition is noted and pertinent procedures in this checklist do not specifically relate to the noted irregularity, work will be stopped and technically qualified guidance will be obtained from the life support supervisor before continuing the operation.

## PREFLIGHT INSPECTION

The preflight inspection on life support equipment is basically a flight preparedness check. As such, a visual inspection will be performed by the crew, prior to each flight, to assure that the life support equipment is in serviceable condition. On this basis, a preflight inspection will be required on life support equipment immediately before issue for flight.

## CALENDAR INSPECTION

The inspection consists of checking the life support equipment for flight preparedness by performing visual inspection and operational checks of certain components to assure that no defects or maladjustments exist which could cause accidents or aborted missions.

| Seq. No. | Item to be inspected | Procedures (inspect for) | P | C |
|---|---|---|---|---|
| 1. | SRU-21/P Survival Vest | Holes, cuts, tears, burns; broken or loose stitching; defective slide and snap fasteners; torn or missing fastener tape; loops missing from loop adjustment webbing; loop tape cord broken or missing; edge and seam bindings torn or cut; broken or missing thong on slide fastener. | X | X |
| 2. | Inspection record | Date calendar inspection due. | X | X |
| 3. | Contents | Missing or damaged contents. | X | X |
| 4. | SDU-5E distress marker light and flash | Check for proper operation; battery; date of inspection; guard cracks in case or flashguard. | | X |

| Seq. No. | Item to be inspected | Procedures (inspect for) | P | C |
|---|---|---|---|---|
| 5. | Magnetic compass | Cracked or broken dial face cover; operation. | | X |
| 6. | Fishing grill net | Evidence of container damage or seal broken. | | X |
| 7. | Pocket knife | Rust or corrosion; missing rivets; loose clevis; burrs or rough projections on handle; blades hard to open; nicks or burrs on blades; cutting edge dull; punch blade dull and point is blunt. | | X |
| 8. | Plastic water bag | Tears, cuts, holes, cracks, breaks, or abrasions; sharp creases or wrinkles; attaching components loose or missing, | | X |

| Seq. No. | Item to be inspected | Procedures (inspect for) | P | C |
|---|---|---|---|---|
| 8. | Plastic water bag (cont) | foreign material on bag inside which may damage container or injure user; oily film or stickiness. | | |
| 9. | Signaling mirror | Scratches, chipped, cracks, distortion; illegible operating instructions; broken or missing lanyard. | | |
| 10. | Butane lighter fire starter | Damage; operation; fuel quality. | | X |
| 11. | Flare launcher and distress signals | Damage; corrosion; spring tension; cycle firing mechanism; flare lot number and date of manufacture. | | X |

| Seq. No. | Item to be inspected | Procedures (inspect for) | P | C |
|---|---|---|---|---|
| 12. | First aid kit | Case damaged; kit issue or inspection date; individual medical item container, component age life; crushed doxycycline hyclate capsules; eye ointment leaking; broken case or face on compass. | | X |
| 13. | Tourniquet | Cuts, abrasions, or deterioration (store with 8 to 10 inch loop). | | X |
| 14. | Holster | Loose or broken stitching; defective snap fastener on retainer; dirt or other foreign material. | | X |

| Seq. No. | Item to be inspected | Procedures (inspect for) | P | C |
|---|---|---|---|---|
| 15. | Packing list | Torn or missing, legibility. | | X |
| 16. | Operator's manual (TM 55-8465-215-10) | Torn; pages missing; legibility; dampness. | X | X |
| 17. | Space blanket | Evidence of container being opened. | | X |
| 18. | Survival radio | See applicable TM. | | |
| 19. | Plastic ball whistle | Cork ball, eyelet rivet, or helical split ring missing, body cracked or broken; cracks, chips, or broken edges on mouthpiece; evidence of dirt or foreign material; lanyard torn, cut, or missing. | | X |

| Seq. No. | Item to be inspected | Procedures (inspect for) | P | C |
|---|---|---|---|---|
| 20. | Additional components | As necessary. | | X |

| Seq. No. | Item to be inspected | Procedures (inspect for) | P | C |
|---|---|---|---|---|

| Seq. No. | Item to be inspected | Procedures (inspect for) | P | C |
|---|---|---|---|---|
| 26. | Pocket knife | Rust or corrosion; missing rivets; loose clevis; burrs or rough projections on handle; blades hard to open; nicks or burrs on blades; cutting edge dull; punch blade dull and point is blunt. | | X |
| 27. | Snare wire (20-ft-long) | Kinks, twists, cracks, slivers. | | X |
| 28. | Additional components | As necessary. | | X |

| Seq. No. | Item to be inspected | Procedures (inspect for) | P | C |
|---|---|---|---|---|

**By Order of the Secretary of the Army:**

**Official:**

| | |
|---|---|
| **ROBERT M. JOYCE** | **E. C. MEYER** |
| ***Brigadier General, United States Army*** | ***General, United States Army*** |
| ***The Adjutant General*** | ***Chief of Staff*** |

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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 milliters = .34 fl. ounce
1 deciliter = 10 centiliters = 3.38 fl. ounces
I 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

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