

**TECHNICAL MANUAL**

**CHECKLIST  
for  
OV-1 AIRCRAFT,  
HOT CLIMATE  
SURVIVAL KIT  
P/N 11-1-1961  
NSN 1680-00-148-9234**

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

TM 55-1680-317-CL-5

HEADQUARTERS

DEPARTMENT OF THE ARMY

Washington, DC, 24 August 1981

**1. Inspection Requirements.** This manual contains complete requirements for Preflight and Calendar Inspection of OV-1 Aircraft Hot Climate Survival Kit. 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 will

run concurrent with the ejection seat inspection. 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 aircrew, 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 examination 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
	OV-1 Aircraft Hot Climate Survival Kit			
1.	Case	Holes, cuts, frays, tears; loose or broken stitching; defective or broken slide fastener; cut, frayed, or broken carrying strap; missing or illegible kit markings; dampness or mildew; defective snap fasteners.		X
2.	Inspection record	Date phased inspection due.	X	X
3.	Magnetic compass	Cracked or broken dial face cover; operation; original stowed position; missing operations instructions.		X



Seq. No.	Item to be inspected	Procedures (inspect for)	P	C
4.	Insect headnet	Holes or tears in netting; broken or loose stitching; missing or broken elastic headband; loose or missing grommets; missing or broken drawstring and elastic pocket attaching loops; insect repellent on elastic; missing or illegible instruction ticket.		X
5.	Plastic spoon	Wrapping missing or torn; previous use; evidence of finger marks, dirt, or grease; cracked or broken.		X
6.	Survival manual (AFM 64-5 or FM 21-76)	Torn; pages missing; dampness; legibility.		X

Seq. No.	Item to be inspected	Procedures (inspect for)	P	C
7.	Matches (non-safety)	Serviceability and container condition.		X
8.	Food packet	Severe dent or a dent causing a sharp ridge; rust which cannot be removed by wiping with a soft cloth; packet punctured or leaking; can opener missing; illegible printed instructions, date of manufacture.		X
9.	Compressed trioxane fuel	Container not sealed on four sides; instructions on container missing or illegible; crushed fuel bar.		X

Seq. No.	Item to be inspected	Procedures (inspect for)	P	C
10.	Fishing tackle kit	Broken seal around perimeter of container; corrosion of kit contents; broken or cracks container; missing instruction booklet; evidence of tampering.		X
11.	Plastic water bag	Tears, cuts, holes, cracks, breaks, or abrasions; sharp creases or wrinkles; attaching components loose or missing; foreign material on bag inside which may damage container or injure user; stickiness, oily film.		X

Seq. No.	Item to be inspected	Procedures (inspect for)	P	C
12.	Smoke and illumination signal	Damage, severe dents, or deformity; broken seals; labeling on day and night ends; embossed projections on night end available; lot numbers and date of manufacture.		X
13.	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
14.	Signaling mirror	Scratches, chipped, cracks, distortion; illegible operating instructions; broken or missing lanyard.		X

Seq. No.	Item to be inspected	Procedures (inspect for)	P	C
15.	Waterproof matchbox	Penetration of water; cracks, cuts, or tears in sealing gasket; loose or missing sealing gasket; cap striking disc torn or grit missing; striking bar chipped, cracked, or dented; cap threads broken or stripped; free movement of cap on threads; broken or damaged cap or body; corrosion on striking bar.		X
16.	Snare wire (20-ft-long)	Kinks, twists, cracks, slivers.		X
17.	Plastic ball whistle	Cork ball, eyelet rivet, or helical split ring missing; body cracked or broken; cracks, chips, or broken edges on mouthpiece;		X

Seq. No.	Item to be inspected	Procedures (inspect for)	P	C
17.	Plastic ball whistle	evidence of dirt or foreign (cont) material; lanyard torn, cut, or missing.		
18.	Tarpaulin	Holes, cuts, frays, tears, burns; loose or broken stitching; damaged grommets; legible instructions.		X
19.	Hand saw assembly	Blade bent, kinked, or broken; blade mounting screws missing; ring bent and will not rotate in blade holder.		X
20.	Packing list	Torn or missing; legibility.		X
21.	Operator's manual	Torn; pages missing; legibility; dampness.		X

Seq. No.	Item to be inspected	Procedures (inspect for)	P	C
22.	Can, drinking water	Corroded or rusty; severe dent or buckling of can; punctured or leaking can; vacuum retention test.		X
23.	Frying pan	Dents, cracks, corrosion, sharp edges, burrs, silvers; cleanliness.		X
24.	Sunburn-preventive preparation	Damage to the container; evidence of seepage or leakage; illegible instructions.		X
25.	Butane lighter fire starter	Breaks or dents in container; evidence of seepage or leakage; illegible instructions.		X
26.	Additional components	As necessary.		X

Seq.	Item to be inspected	Procedures (inspect for)	P	C
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Seq. No.	Item to be inspected	Procedures (inspect for)	P	C
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**By Order of the Secretary of the Army:**

**Official:**

**ROBERT M. JOYCE**

***Brigadier General, United States Army  
The Adjutant General***

**E. C. MEYER**

***General, United States Army  
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 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

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