OF THE	USES
PARACH	TUTE
SIGNALS	5
FIRST AID	8
SHELTER	10
CLOTHING	16
HUNTING AND FISH	HING 19
TRAVEL PACKS	22
MISCELLANEOUS	24
SEWING TIPS	27

AIR FORCE MANUAL NO. 64-15\* DEPARTMENT OF THE AIR FORCE WASHINGTON, 1 JULY 1956

#### **FOREWORD**

This manual has only one purpose—to aid and insure your survival and rescue regardless of geographic location or climatic condition. It tells you how to use your parachute to improvise signals, shelter, clothing, and personal equipment needed in a survival situation.

The procedures shown were developed during World War II by the Arctic, Desert, Tropic Information Center and the AAF Arctic Training School. Since that time the value of these procedures has been proven in numerous survival incidents and in many field tests. This manual cannot show all the survival uses of the parachute. Use your ingenuity to devise what you need if it is not shown here.

Recommendations for the improvement of this manual are invited. Recommendations should be forwarded to Director of Training, Headquarters USAF, Washington 25, D. C.

BY ORDER OF THE SECRETARY OF THE AIR FORCE:

OFFICIAL: N. F. TWINING
E. E. TORO Chief of Staff, United States Air Force
Colonel, USAF
Oir Adjutant General

This manual contains no copyright material.

DISTRIBUTION:	
Headquarters USAF	į
Bases	2
(Base commanders will requisition additional copies to	>
provide one copy for each parachute.)	

\*This manual supersedes AFM 64–15, February 1945, including Change 64–15A, 28 June 1954.

# SIGNALS

# GROUND TO AIR EMERGENCY CODE

These signals can be made from strips of parachute cloth, approximately 3 feet by 12 feet, or from branches or other natural materials.

Use material which gives the maximum contrast with the background.



Require
doctor—
serious injuries



7. Am proceeding in this direction



13. Nonegative



2. Require medical supplies



8. Will attempt to take off



14. Yes affirmative



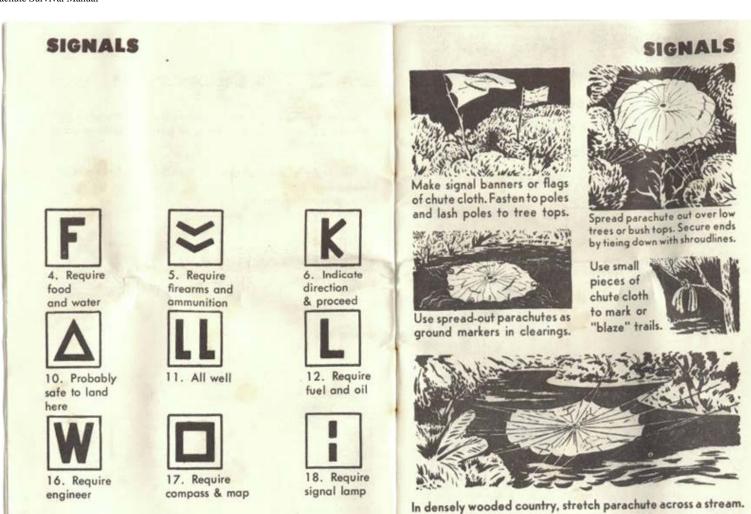
Unable to proceed



9. Aircraft badly damaged



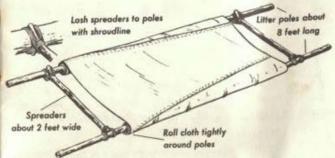
15. Not understood







### IMPROVISED LITTER



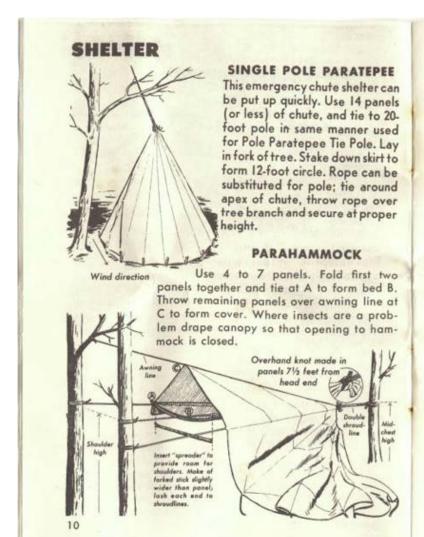
Improvise simple litter from rectangle of chute cloth, about 3 panels wide and 6 feet long. Roll cloth tightly on stout poles to proper width. Insert and lash spreaders to poles to make a rigid assembly. Parachute harness shoulder straps attached to litter poles will help bearer in carrying the litter.

#### ARM SPLINT

Use chute cloth to pad and bandage any type of improvised splint. Adapt wire of pack frame to make proper splints.

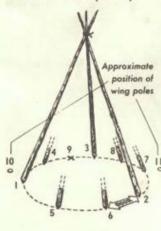


394088 O - 56 - 2





ADAPTING THE CANOPY: Cut 14 panel sections from canopy; remove pilot chute and apex. Cut off all apex shroud-lines except 16" of lines on panels No. 6 and No. 7-these are tied to Tie Pole (No. 9).



2 ERECTING POLE FRAME: Poles should be about 14 feet long, straight and smooth. Tie poles 1, 2 and 3 together in a tripod-distance from tieing point to base of poles is same as length of chute panel. Place poles 4, 5, 6, 7 and 8 loosely against tripod to form temporary 12-foot circle. Place Tie Pole (No. 9) which is attached to chute at panel No. 6 (see 1) in proper position opposite door. Wing poles are numbered 10 and 11.

### SHELTER

### POLE PARATEPEE

3 APPLYING CANOPY TO FRAME: Starting from Tie Pole (No. 9) to which canopy is tied, bring each outer edge of chute around framework toward door. Tie shroudline of panel No. 1 temporarily to No. 12 panel line. (Panels 13 and 14 form door overlay.) Push all poles outward until chute covering is tight. Then stake down bottom with pegs. In very cold weather use an inner liner staked to the ground and reaching 4 to 5 feet up the poles. This will keep a direct draft from the occupants but will still give a draft to the fire.

COMPLETED PARATEPEE:
The Paratepee sleeps 3 men comfortably and will accommodate more. Fire can be built inside for warmth, cooking and drying of clothes. Makes a prominent "marker" signal on the ground; fire inside makes the Paratepee look like a beacon at night.

Overlop should be arranged inside tent if wind is opposite different to the provided in the provided



SHADE SHELTERS FOR HOT AREAS

Leave 1 to 2 foot open space at bottom for maximum air circulation

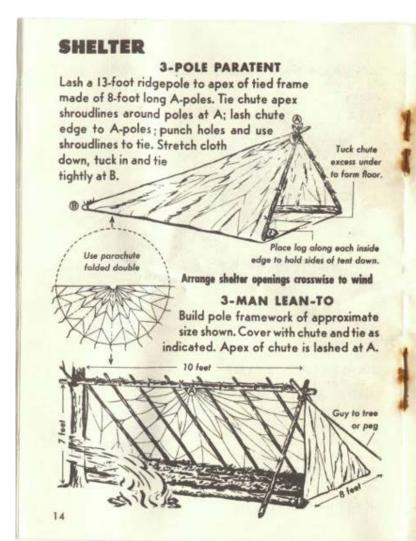
Use two parachutes with air space between to provide insulation. Attach top chute over top aileron; fasten bottom chute from underside of aileron.

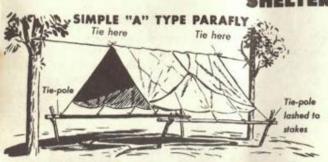
Use airplane tubing, rocks or wood stakes to secure chutes

### SIMPLE SHADE SHELTER

Make shade shelter of chute cloth as illustrated. Use two layers of cloth separated by an air space of about 12-20 inches. In hot desert areas-scoop down into sand-it will be cooler.





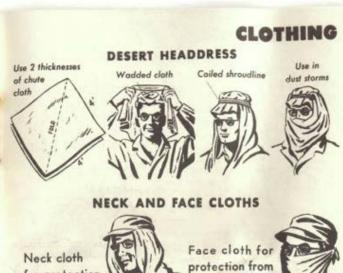


Rig shroudline or pole between two trees and throw chute over it. Fold back edges until fly is about 4 panels wide. Lash chute to tie poles with shroudlines. Build parafly high enough so beds can be raised off ground.



To make a sleeping bag suitable for cold weather use, take 12 panels of chute fabric and fold in one direction, two panels at a time. After making first fold, place grass, leaves, or other dry material between folds. Tuck open end under and crawl into roll from open end between layers of the first fold.





IMPROVISED EYE SHIELD

for protection

from sun.

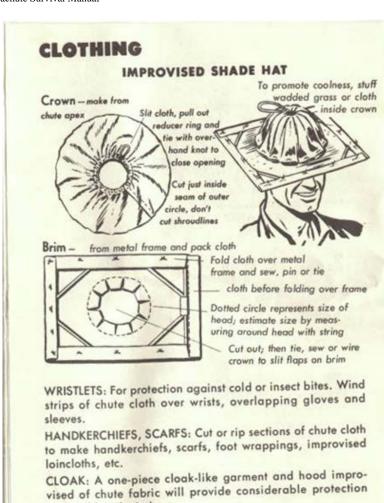
For protection against sun glare and snowblindness.

Make the shield of webbing or 2½-inch wide strip of pack cloth.

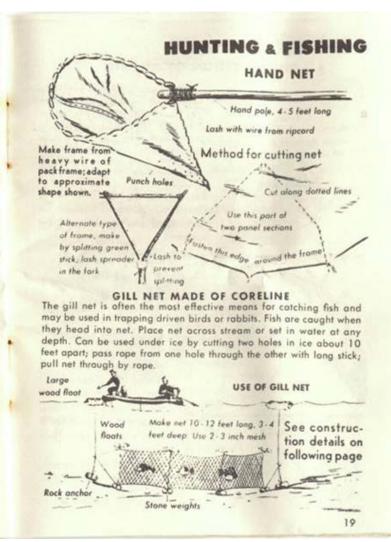
Cut or rip %-inch eye slits. Fray the edges to reduce glare. Blacken cloth with soot to reduce glare.

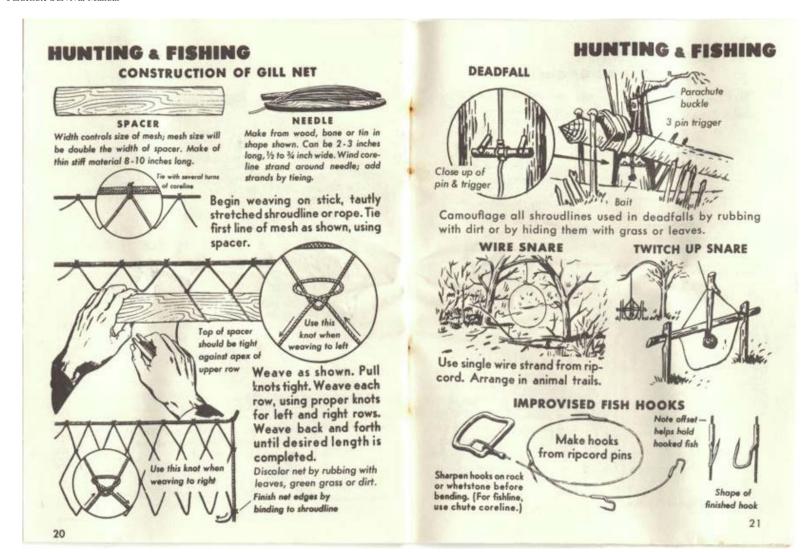
wind, blowing

sand or snow



from cold and wind.



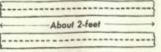




# PACK STRAP WITH TUMPLINE

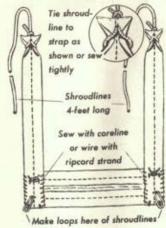
This heavy-duty pack is simple to construct. With proper use of tumpline, loads up to 100 pounds can be carried. Pack strap and tumpline weigh less than I pound.

#### SHOULDER STRAPS



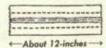
Made of single-thickness of harness webbing

## COMPLETED PACK-STRAP



22

#### CHEST STRAP



depending on width of shoulders. Make of doublethickness harness webbing ripped along one edge and unfolded to form single thickness strap of double width.

#### PACK ASSEMBLED



# TRAVEL PACKS

MAKING TUMPLINE



Make tumpline of chute cloth



loops for adjusting

Tie with slipknot to allow for easy adjustment of pack to tumpline

Tie with slipknot to allow for securing pack tightly or for removing.

### FOR CARRYING

Roll supplies in chute cloth. Camouflage pack with dirt, mud, soot, etc. if necessary. Provide a loop at bottom of each side of pack for attaching and adjusting tumpline.





In rough seas, rig sea anchor to bow of raft; keep sea anchor line long so that when raft is at crest of wave, sea anchor stays in trough of wave. If larger sea anchor is needed, wrap chute canopy around oar and tie securely.



### RAFT AWNING

Rigawning to provide warmthin cold areas and to reduce thirst and prevent sunburn in warm areas. Leave ventilation at sides in warm areas; in cold bring edges down to sides.



Toehole 3¼ inches long and 4¼ inches wide. Distance from heelplate to end of toehole approximately 14 inches. Make shoe frame of 1-inch sapling, 5 feet long, spread to 12 inches at widest point. Weave webbing of shroudline; draw taut.

Binding—make as shown; from continuous length of split harness webbing or from braided shroudlines.





# MISCELLANEOUS

USE CHUTE CLOTH FOR PACKAGES

Pack food and small articles in bags made of chute cloth. Wrap bags together in large piece of chute cloth for easier packing.

#### SKETCH MAPS



Map course of travel on chute cloth. Withstands wear and wetness.

# FACTS ABOUT SHROUDLINES



Each chute will provide 24 shroudlines, each about 14 feet long (total of 336 feet). There are 7 to 9 corelines in each shroudline; each coreline pulls out separately. Use shroudlines for lashing and tieing, for lifelines, etc. Use corelines also for sewing, weaving, tieing and for fishlines.

### ROPE

Make a rope suitable for use in mountain climbing by braiding or knotting three shroudlines together.

CHUTE SILK FOR BARTER: Chute silk is valued by natives in remote areas all over the world. Trade squares of silk for foc and help, but do your trading economically—don't wast cloth.

26

#### **SEWING TIPS**

Use coreline for thread. Keep it from unravelling by melting ends in flame or by knotting ends after needle is threaded. Coreline is nylon and does not absorb moisture; therefore, wetting ends will not aid in threading needle. Needle will thread easily if coreline is doubled. Use single strand of coreline for sutures in sewing up wounds. If you do not have a needle, improvise one from piece of wire, sliver of hard wood or bone, or a ration can opener.

U. S. GOVERNMENT PRINTING OFFICE: 1956 O - 394088