

**UNIT MAINTENANCE MANUAL, INCLUDING
REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL) FOR

ANCILLARY EQUIPMENT FOR:
PERSONNEL TROOP PARACHUTE SYSTEM**

**CASE, PARACHUTISTS, INDIVIDUAL WEAPON, M-1950 (NYLON)
(NSN: 8465-01-109-0702)
CASE, PARACHUTISTS, INDIVIDUAL WEAPON, M-1950 (COTTON)
(NSN: 8465-00-261-4995)
CASE, PARACHUTISTS, WEAPON & INDIVIDUAL EQUIPMENT
(NSN: 8465-00-753-6549)
EXTENSION, STATIC LINE, STANDARD, 5-FOOT (NSN: 1670-00-368-4225)
ACCESSORY, SET SCUBA, (NSN: 1670-00-064-5735)
LINE, LOWERING, 15-FOOT (NSN: 1670-01-067-6838)
JUMP, PACK, DRAGON MISSILE, (NSN: 1670-01-035-7727)
HARNESS, SINGLE POINT RELEASE, (NSN: 1670-01-227-7992)
PACK, ASSEMBLY, AT4, (NSN: 1670-01-259-5932)
JUMP, PACK, STINGER MISSILE, (NSN: 1670-01-352-9264)
RELEASE ASSEMBLY, (NSN: 1670-01-415-0035)
CONTAINER, FRONT MOUNT (AIRPAC) (NSN: 1670-01-414-2757)
CONTAINER, SIDE MOUNT (AIRPAC) (NSN: 1670-01-413-7836)
DROP BAG, PARACHUTE, W/7-FOOT LOWERING LINE
(1670-01-508-9051)
DROP BAG, PARACHUTE, W/15-FOOT LOWERING LINE
(1670-01-508-9053)**

DISTRIBUTION STATEMENT A – Approved for public release; distribution is unlimited.

*This manual supersedes TM 10-1670-299-20&P, 15 September 1995.

HEADQUARTERS, DEPARTMENT OF THE ARMY

30 JUNE 2004

***ARMY TM 10-1670-299-20&P
AIR FORCE TO 14D1-2-470-2
NAVAIR 13-1-41**

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 30 JUNE 2004

**UNIT MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST**

ANCILLARY EQUIPMENT FOR: PERSONNEL TROOP PARACHUTE SYSTEM

CASE, PARACHUTISTS, INDIVIDUAL WEAPON, M-1950 (NYLON), (NSN: 8465-01-109-0702)
CASE, PARACHUTISTS, INDIVIDUAL WEAPON, M-1950 (COTTON)(NSN: 8465-00-261-4995)
CASE, PARACHUTISTS, WEAPON & INDIVIDUAL EQUIPMENT, (NSN: 8465-00-753-6549)
EXTENSION, STATIC LINE, STANDARD, 5-FOOT (NSN: 1670-00-368-4225)
ACCESSORY, SET SCUBA, (NSN: 1670-00-064-5735)
LINE, LOWERING, 15-FOOT (NSN: 1670-01-067 6838)
JUMP, PACK, DRAGON MISSILE, (NSN: 1670-01-035-7727)
HARNESS, SINGLE POINT RELEASE, (NSN: 1670-01-227-7992)
PACK, ASSEMBLY, AT4, (NSN: 1670-01-259-5932)
JUMP, PACK, STINGER MISSILE, (NSN: 1670-01-352-9264)
RELEASE ASSEMBLY, (NSN: 1670-01-415-0035)
CONTAINER, FRONT MOUNT (AIRPAC) (NSN: 1670-01-414-2757)
CONTAINER, SIDE MOUNT (AIRPAC) (NSN: 1670-01-413-7836)
DROP BAG, PARACHUTE, W/7-FOOT LOWERING LINE
(1670-01-508-9051)
DROP BAG, PARACHUTE, W/15-FOOT LOWERING LINE
(1670-01-508-9053)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

ARMY

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 together with DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2, located in the back of this manual, directly to: Commander, US Army Tank-automotive & Armament Command, ATTN: AMSTA-LC-CECT, Kansas Street, Natick, MA 01760. You may also send in your recommended changes by email directly to amssbriml@natick.army.mil. A reply will be furnished to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

AIR FORCE

Reports by U.S. Air Force units should be submitted on AFTO Form 22 (Technical Order Publication Improvement Report and Reply) and forwarded to the address prescribed above for the Army. An information copy of the prepared AFTO Form 22 shall be furnished to WP-ALC/TILTA, 420 2nd Street, Suite 100, Robins AFB, GA 31098-1640.

MARINE CORPS

Marine Corps personnel submit NAVMC 10772 form to Commander, ATTN: (Code 850), Marine Corps Logistics Bases, 814 Radford Blvd., Albany, GA 31704-1128.

NAVY

Submit NAVSEA form 4160/1 (REV 2-99) to Commander, NSDSA Code 5E30, NAVSURFCENDIV, 4363 Missile Way, Port Hueneme, CA 93043-4307. A reply will be sent to you.

DISTRIBUTION STATEMENT A – Approved for public release. Distribution is unlimited.

*This manual supersedes TM 10-1670-299-20&P, 15 September 1995.

TABLE OF CONTENTS

WP Sequence No.

WARNING SUMMARY

HOW TO USE THIS MANUAL

GENERAL INFORMATION	0001 00
---------------------------	---------

CHAPTER 1. DESCRIPTION AND THEORY OF OPERATION

Equipment Description and Data	0002 00
Theory of Operation	0003 00

CHAPTER 2. UNIT MAINTENANCE

Service Upon Receipt	0004 00
Preventative Maintenance Checks and Services (PMCS), Introduction.....	0005 00
Unit Preventative Maintenance Checks and Services (PMCS)	0006 00
Unit Maintenance, Introduction	0007 00
Inspection.....	0008 00
Cleaning and Drying	0009 00
Airing	0010 00
Salt/Fresh-Water Contamination Test	0011 00
Sewing Procedures.....	0012 00
Searing and Waxing.....	0013 00
Marking and Restenciling.....	0014 00
Snap Fastener and Grommets	0015 00
5-Ft Extension Static Line, Standard	0016 00
Accessory Set, SCUBA.....	0017 00
Line, Lowering.....	0018 00
Jump Pack, Dragon Missile	0019 00
Harness, Single Point Release	0020 00
Pack Assembly, AT4.....	0021 00
Case, Parachutist's Individual Weapon M-1950 (Cotton).....	0022 00
Case, Parachutist's Individual Weapon M-1950 (Nylon)	0023 00
Parachutist's Weapons and Individual Equipment Pack and Harness Assembly	0024 00
Jump Pack, Stinger Missile.....	0025 00
Release Assembly	0026 00
Container, Front Mounted	0027 00
Container, Side Mounted	0028 00
Parachute Drop Bag (PDB).....	0029 00
Preparation for Storage.....	0030 00
Preparation for Shipment	0031 00

CHAPTER 3. SUPPORTING INFORMATION

References.....	0032 00
Maintenance Allocation Chart - Introduction	0033 00

TABLE OF CONTENTS – continued

Maintenance Allocation Chart (MAC)	0034 00
Repair Parts And Special Tools List (RPSTL) Introduction	0035 00
Repair Parts And Special Tools List – Extension, Static Line, Standard, 5-Foot	0036 00
Repair Parts And Special Tools List – Accessory Set, SCUBA.....	0037 00
Repair Parts And Special Tools List – Line, Lowering, 15-Foot	0038 00
Repair Parts And Special Tools List – Jump Pack, Dragon Missile	0039 00
Repair Parts And Special Tools List – Harness, Single Point Release	0040 00
Repair Parts And Special Tools List – Pack, Assembly, AT4	0041 00
Repair Parts And Special Tools List – Case, Parachutist’s Individual Weapon, M-1950, Cotton	0042 00
Repair Parts And Special Tools List – Case, Parachutist’s Individual Weapon, M-1950, Nylon	0043 00
Repair Parts And Special Tools List – Parachutist’s Weapons and Individual Equipment and Harness Assembly	0044 00
Repair Parts And Special Tools List – Jump Pack, Stinger Missile	0045 00
Repair Parts And Special Tools List – Release, Parachutist’s, Individual Equipment.....	0046 00
Repair Parts And Special Tools List – Container, Front Mount	0047 00
Repair Parts And Special Tools List – Container, Side Mount	0048 00
Repair Parts And Special Tools List – Parachute Drop Bag.....	0049 00
National Stock Number Index	0050 00
Part Number Index	0051 00
Expendable and Durable Item Index.....	0052 00
Illustrated List of Manufactured Items	0053 00
ALPHABETICAL INDEX	Index-1

HOW TO USE THIS MANUAL

This Technical Manual contains General Information, Unit Maintenance Instructions, Preventive Maintenance Checks and Services (PMCS), Troubleshooting, and Maintenance Information for the Ancillary Equipment For: Personnel Troop Parachute System.

Chapter 1 contains introductory information on the Ancillary Equipment For: Personnel Troop Parachute System and any associated equipment as well as a Location and Description of Major Components. Chapter 2 contains service upon receipt, initial receipt, receipt of used parachute assembly, and preventative maintenance checks and services information and instructions. Chapter 2 also contains maintenance procedures authorized at the unit level. Chapter 3 contains references, expendable durable items list, maintenance allocation chart, repair parts and special tools list, national stock number index, part number index, and illustrated list of manufactured items. Rear matter consists of alphabetical index, DA Form 2028, authentication page, and back cover.

Manual Organization and Page Numbering System. The Manual is divided into three major chapters that detail the topics mentioned above. Within each chapter are work packages covering a wide range of topics. Each work package is numbered sequentially starting at page 1. The work package has its own page numbering scheme and is independent of the page numbering used by other work packages. Every work package has an even number of pages so that it does not interfere with any other work package. Each page of a work package has a page number of the form XXXX YY-ZZ where “XXXX” is the work package number (e.g. 0010 is work package 10). “YY” is a number that allows for a work package to be inserted between two existing work packages without disturbing the remainder of the TM (e.g. WP 0010 01 would fall between WP 0010 and WP 0011). “ZZ” represents the number of the page within that work package. A page number such as 0010 00-1/(2 Blank) means that page 1 contains information but page 2 of that work package has been intentionally left blank. A page number such as 0010 00-(1 Blank)/2 means that page 1 of that work package has been intentionally left blank but page 2 contains information.

Illustrations. Illustrations for procedures in this manual always follow the procedure. For example, if given a procedural instruction such as “1. Locate the main canopy (1).”, the (1) references the photo or illustration immediately *following* the procedure.

Finding Information. The Table of Contents permits the reader to find information in the manual quickly. The reader should start here first when looking for a specific topic. The Table of Contents lists the topics contained within each chapter and the work package sequence number where it can be found.

Example: If the reader were looking for instructions on “The 5-FT Static Line Extension”, which in this manual is a Unit Maintenance topic, the Table of Contents indicates that Unit Maintenance information can be found in Chapter 2. Scanning down the listings for Chapter 2, “The 5-FT Static Line Extension” information can be found in WP 0016 00 (i.e. Work Package 16).

An Alphabetical Index can be found at the back of the manual. It lists specific topics with the corresponding work package.

UNIT MAINTENANCE
ANCILLARY EQUIPMENT FOR PERSONNEL PARACHUTE SYSTEMS
GENERAL INFORMATION

SCOPE

This manual contains an equipment description, operating instructions and maintenance procedures for Ancillary Equipment for Personnel Troop Parachute Systems. This manual also provides a Repair Parts and Special Tools List, located in WP 0035 00 through WP 0049 00.

Purpose of Equipment. The Ancillary Equipment for Personnel Troop Parachute System provides a capability to safely deliver an airborne soldier, and individual equipment, from an aircraft in flight, for a vertical assault on an enemy.

MAINTENANCE FORMS AND PROCEDURES

Department of the Army forms and procedures used for Ancillary Equipment for equipment maintenance shall be those prescribed by DA PAM 738-750, The Army Maintenance Management System (TAMMS). Maintenance forms and records used by Marine Corps personnel are prescribed by TM 4700-15/1.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your equipment needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on a SF 368 (Product Quality Deficiency Report). Mail it to Commander, U.S. Army Tank-automotive and Armament Command, ATTN: AMSTA-LC-R, Kansas Street, Natick, MA 01760-5052. We will send you a reply.

Navy submit NAVSEA Form 4160/1 (Rev 2-99) to:

Commander, NSDSA Code 5E30, NAVSURFCENDIV
4363 Missile Way, Port Hueneme, CA 93043-4307.

A reply will be sent directly to you.

CORROSION PREVENTION AND CONTROL

Corrosion Prevention and Control (CPC) of U.S. Army materiel is a continuing concern. It is important that any corrosion problems with the Ancillary Equipment for Personnel Troop Parachute System be reported so that the problem can be corrected and improvements made to prevent the problem in future items. While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials, such as rubber and plastic. Unusual cracking, softening, swelling or breaking of these materials may be considered a corrosion problem. If a corrosion problem is identified, it can be reported using a Standard Form 368 Product Quality Deficiency Report. Using key words such as "corrosion," "rust," "deterioration," or "cracking" will assure that the information is identified as a CPC problem. This form should be submitted to the address specified in DA PAM 738-750, Functional Users Manual for the Army Maintenance Management System (TAMMS).

CHAPTER 1

**DESCRIPTION
AND
THEORY OF OPERATION**

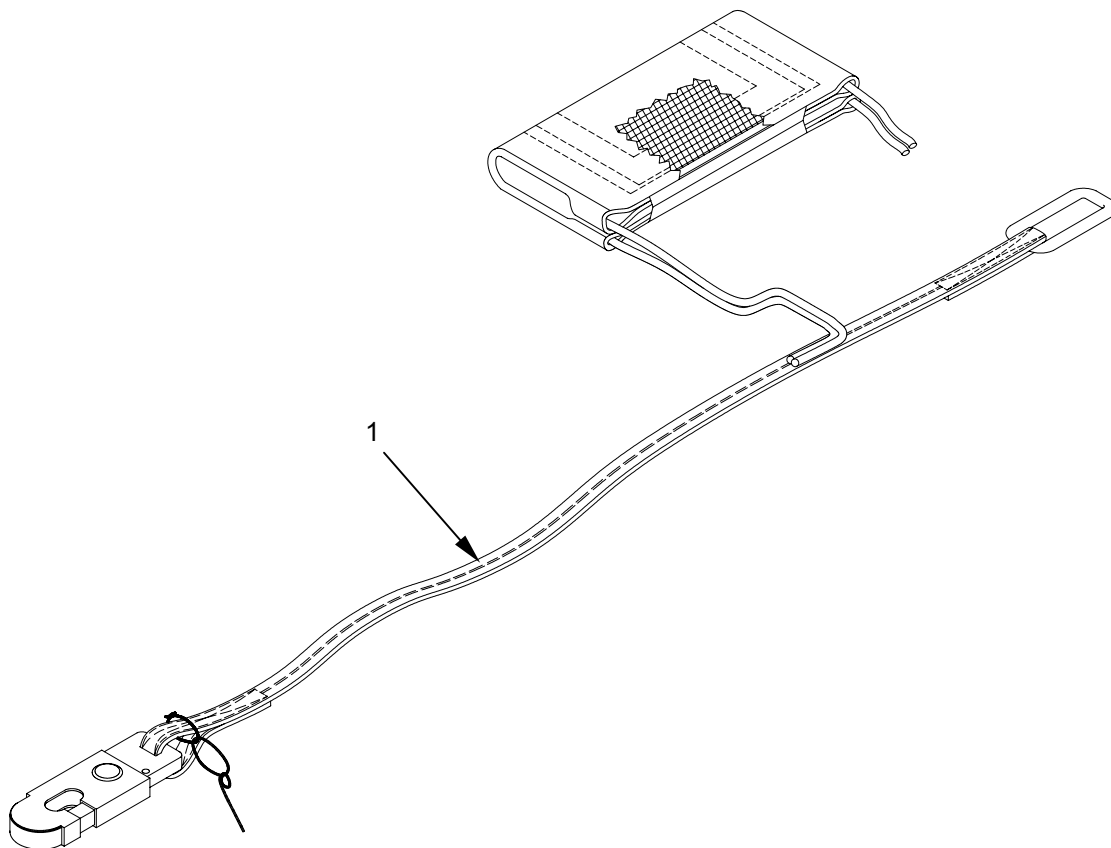
**ANCILLARY EQUIPMENT FOR:
PERSONNEL TROOP PARACHUTE SYSTEM**

UNIT MAINTENANCE
ANCILLARY EQUIPMENT FOR PERSONNEL TROOP PARACHUTE SYSTEM
EQUIPMENT DESCRIPTION AND DATA

Equipment Characteristics, Capabilities, and Features. The ancillary equipment components of the Personnel Troop Parachute System are designed to facilitate the adaptation of various types of personal equipment and weapons to the individual parachute. Their use is dictated by the nature and equipment requirements of each particular mission. There are no unique maintenance related requirements or characteristics. Ancillary equipment components are constructed of various types of fabric materials and require only the kind of maintenance normally associated with personal equipment items.

Location and description of major components. Equipment location information shall be prepared including external and internal views of the equipment used to show general features and all major components. This information shall not duplicate information contained in the equipment data requirements and the equipment characteristics, capabilities, and features.

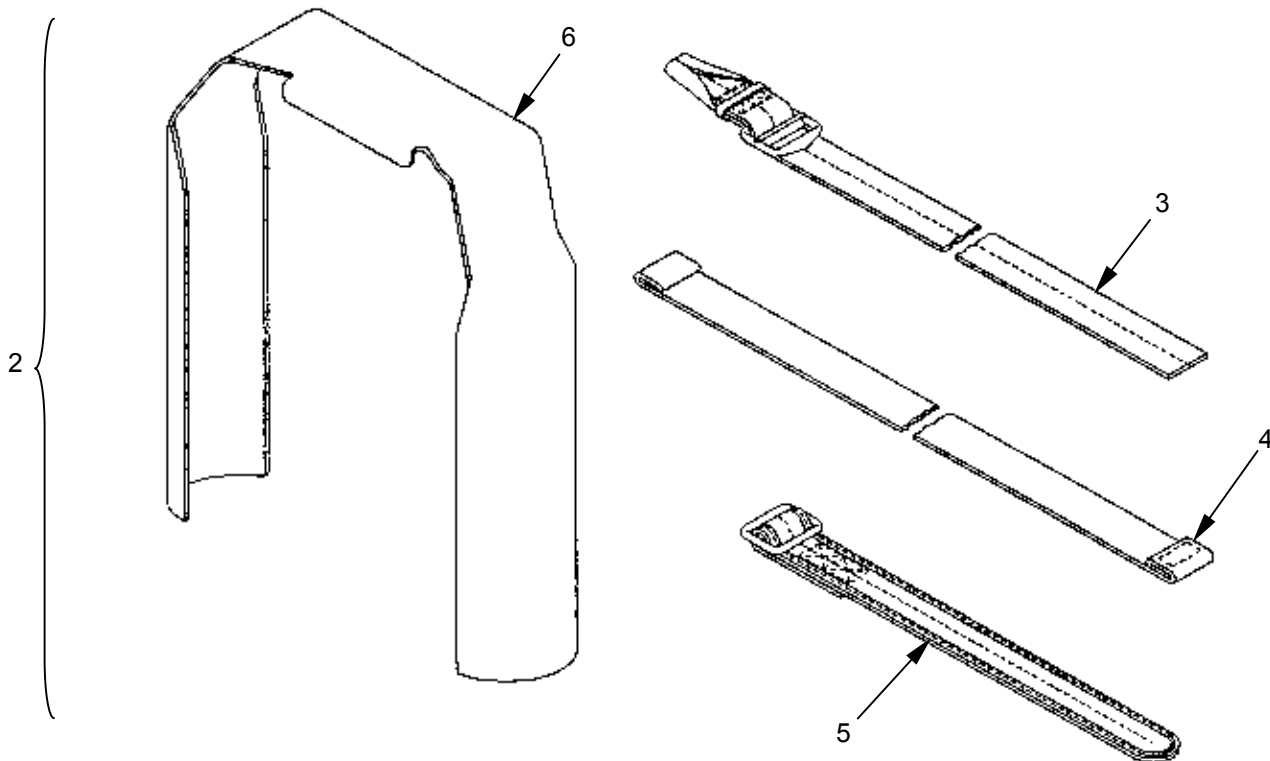
Extension, Static Line, Standard, 5-Foot (1). The static line extension (1) is constructed of Type VIII nylon. It comes with a permanently attached cover that is placed over the snap hook connection when the extension is used with the standard 15-foot static line. The extension is 5 feet long. The cover is constructed of two strands of nylon cord, separated by a strip of pressed felt material, enclosed in a cotton duck fabric sleeve. The extension has a snap hook on one end and an attaching ring on the other.



EXTENSION, STATIC LINE

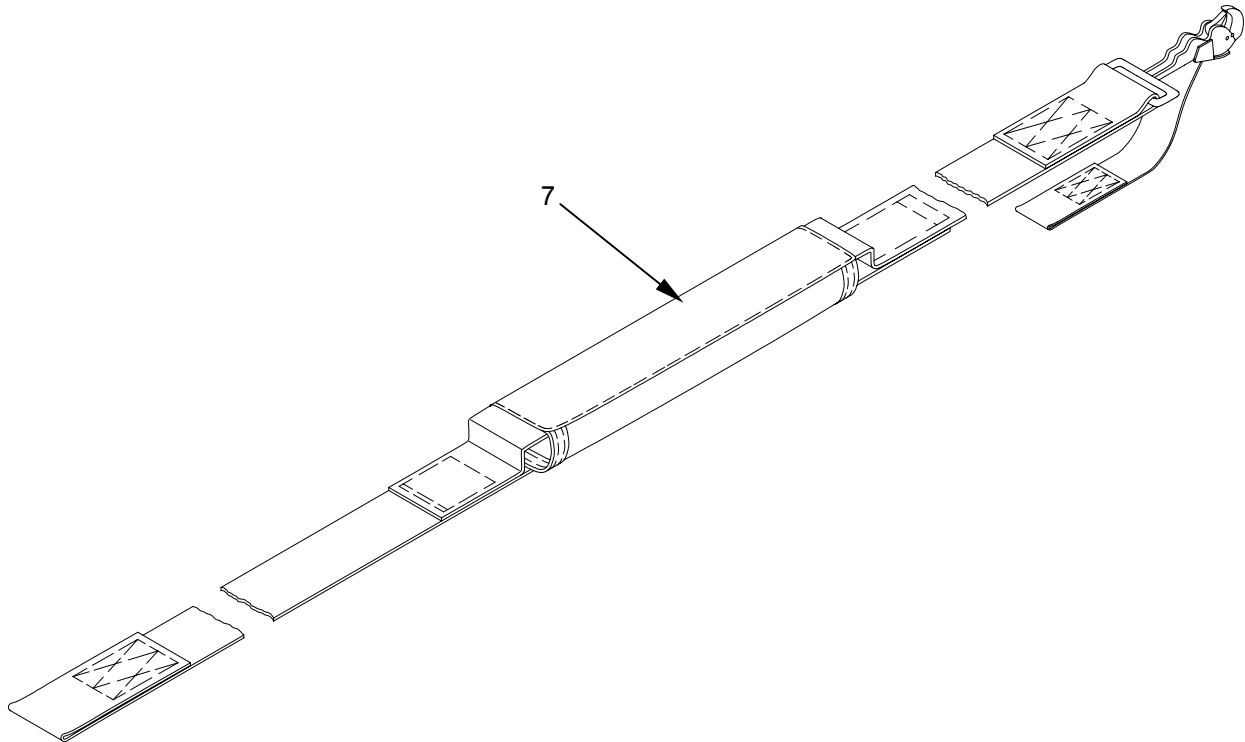
Accessory Set, SCUBA (2).

1. **Support Strap (3).** Two support straps (3) are used with the SCUBA set. They are constructed of Type III Nylon Webbing with a quick fit adapter at one end and approximately 66-inches long.
2. **Backstrap, Harness (4).** The backstrap harness (4) is approximately 96-inches long and constructed of Type XIII Nylon Webbing.
3. **Strap, Waistband Extension (5).** The waistband extension strap (5) is constructed of Type VIII Nylon Webbing that is enclosed in Type III Nylon Duck Cloth. The Strap is 24.5-inches long, with one end is rounded, and an adjuster attached to the other end. Type III Nylon Tape is sewn to one side of the strap.
4. **Shield (6).** The shield is a U-shaped metal plate (6) installed over the SCUBA tank regulators to prevent the static line from becoming entangled in the regulator valves.



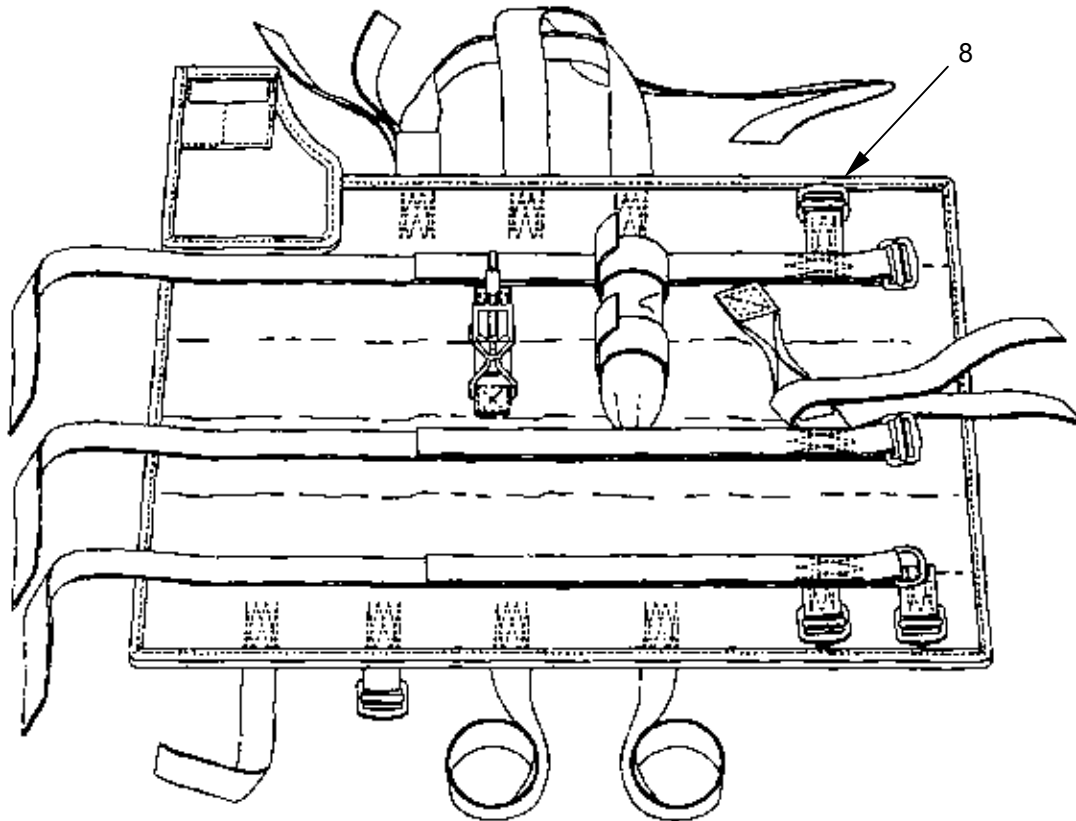
ACCESSORY SET, SCUBA

Line, Lowering 15-Foot (7). The lowering line (7) is constructed of nylon webbing with a snap hook at one end. An extension extractor fabricated of nylon duck material is located at the center. The adapter web has attaching hardware on one end.



LINE, LOWERING

Jump Pack, Dragon Missile (8). The dragon pack (8) is fabricated from nylon or cotton duck, webbing and various types of tapes. The pack incorporates adjustable straps with quick fit and release hardware listed in WP 0039 00. A 15-foot lowering line and stowage pocket is attached to the exterior of the pack.



JUMP PACK, DRAGON MISSILE