



DEPARTMENT OF THE NAVY

NAVAL SEA SYSTEMS COMMAND
1333 ISAAC HULL AVE SE
WASHINGTON NAVY YARD DC 20376-0001

IN REPLY REFER TO

NAVSEAINST 13512.1F
Ser PMS NSW/075

02 FEB 2004

NAVSEA INSTRUCTION 13512.1F

From: Commander, Naval Sea Systems Command

Subj: PREMEDITATED PERSONNEL PARACHUTING (P3) EQUIPMENT
AUTHORIZED FOR NAVY USE (ANU)

Ref: (a) OPNAVINST 3501.225 (Series)

Encl: (1) Category I List of Life Support P3 Equipment ANU
(2) Category II List of Non-Life Support P3 Equipment ANU
(3) Category III List of Non-Life Support Ancillary
P3 Equipment ANU

1. Purpose. To identify the Premeditated Personnel Parachuting (P3) equipment Authorized for Navy Use (ANU). This revision provides updated lists of ANU equipment, as well as associated restriction/amplification notes, separated into life support, non-life support, and non-life support ancillary categories. It incorporates items approved as additions since issuance of the previous revision, along with changes resulting from the P3 Integrated Product Team (IPT) ANU Screening meeting held on 22 January 2003.

2. Cancellation. NAVSEAINST 13512.1E. This instruction is a major revision and should be read in its entirety.

3. Background. Reference (a) requires that the Program Executive Officer, Littoral and Mine Warfare (PEO LMW) publish an annual revision to the P3 equipment ANU lists.

4. Definition. ANU denotes selected available P3 equipment, tools, accessories, and system components that have undergone design safety reviews, test and evaluation, or both, to ensure parachutist safety. The ANU process addresses three basic categories of equipment:

a. Category I. Parachutist life support equipment (e.g., parachutes, parachute components, harnesses, containers, oxygen breathing equipment, helmets (oxygen related), automatic opening/actuating devices, and altimeters) that is worn by, or otherwise attached to, the parachutist.

b. Category II. Non-life support equipment that is potentially hazardous to the parachutist (e.g., life vests/preservers, equipment bags, and strobe lights).

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02 FEB 2004

c. Category III. Non-life support ancillary equipment typically worn or used in premeditated parachuting which:

(1) is available in a broad selection of acceptable candidates,

(2) the selection harbors no candidates that create a life-threatening hazard to a reasonably prudent Navy parachutist, and

(3) is carried by Navy parachutists in support of mission needs, e.g., a knife.

5. Discussion

a. Category I and II P3 equipment will undergo a design safety assessment, test and evaluation, or both, as appropriate. Replacement items will be reviewed by the Naval Air Warfare Center Weapons Division (NAVAIRWARCENWPNDIV), China Lake, CA to assure that they replicate the item being replaced in all significant areas affecting safety. Results will be forwarded to the Naval Safety Center (NAVSAFECEN) who will endorse the test results or assessments and forward them to PEO LMW (PMS NSW).

b. PEO LMW (PMS NSW) will review all test results, design studies, and documentation to determine acceptability and approve the equipment for use by Navy P3 commands. Where appropriate, Navy standard stock/part numbers and military specifications for equipment and components are listed in enclosures (1), (2), and (3). These listings provide comprehensive source documents identifying authorized P3 equipment, except for those Category III items approved by individual Commanding Officers.

c. Each P3 command is authorized to allow individual parachutist preference on Category III P3 equipment listed in enclosure (3). This ancillary equipment is a part of a parachutist's standard complement for which operational needs will be the primary selection criteria. Final approval will be by the Commanding Officer consistent with command directives and mission requirements. The list of equipment in enclosure (3) is provided for information; it is not intended to be restrictive, except as specifically noted in the enclosure.

(1) In addition, Commanding Officers may grant approval to use other specific ancillary type equipment not listed in enclosure (3). This approval should be based on sound, experienced judgment that the equipment would not endanger the parachutist and that it would enhance the support of mission requirements.

(2) Written documentation of the approval of such Category III equipment shall be maintained locally.

02 FEB 2004

6. Scope. This instruction applies to all U.S. Navy commands and activities conducting premeditated personnel parachuting operations.

7. Policy

a. Unrestricted P3 equipment listed in enclosures (1), (2), and (3) may be procured and used by all U.S. Navy P3 activities.

b. Restricted P3 equipment listed in enclosures (1), (2), and (3) may be procured and used only by the specifically authorized U.S. Navy P3 activities. Other P3 activities, seeking to procure restricted P3 equipment not currently authorized for their use, must obtain permission from CNO via their chain of command and PEO LMW (PMS NSW). Approval will not require test and evaluation, and/or a safety assessment, because it will already have been accomplished in accordance with paragraph 5 above. Upon approval, such equipment will be appropriately listed in subsequent instruction revisions.

c. NAVAIRWARCENWPNDIV and other activities designated in writing by PEO LMW (PMS NSW), in conjunction with the ANU process or in the performance of parachute-related RDT&E (including necessary training), are authorized to use Category I and II equipment not listed in enclosures (1) and (2). For such evolutions, equipment configurations will be reviewed and approved as appropriate by the Live Jump and Equipment Review Board process. PEO LMW (PMS NSW) shall be informed of program results.

d. Only the Navy Parachute Team, the Leap Frogs, is authorized to procure and use commercially available equipment not listed in enclosures (1) and (2) (e.g., selected main/reserve canopies and smoke flare brackets) which have been evaluated for safety and approved by PEO LMW (PMS NSW).

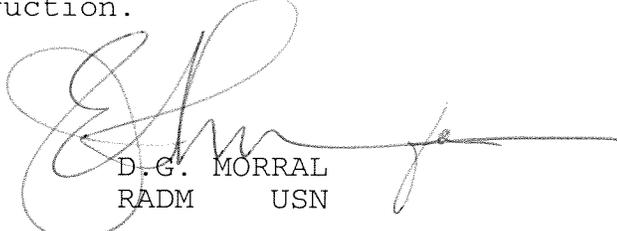
e. For organizations other than NAVAIRWARCENWPNDIV and the Navy Parachute Team, a request for a waiver to procure and use non-ANU equipment must be approved by the Chief of Naval Operations (CNO) (N75). Waiver requests should be submitted to CNO via PEO LMW (PMS NSW).

f. Personal parachuting equipment is not authorized for use on military P3 operations, even though the item(s) may be listed in enclosures (1), (2), or (3).

g. Recommended additions or deletions to enclosures (1), (2), and (3) will be submitted to PEO LMW (PMS NSW) through the proper chain of command. The equipment will be reviewed at P3 Integrated Product Team (IPT) meetings to determine its applicability to other commands.

02 FEB 2004

8. Action. U.S. Navy commands and activities authorized to conduct Navy P3 training and operations will ensure that procurement and use of P3 equipment is strictly in accordance with the policy in this instruction.



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02 FEB 2004

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NAVSEAINST 13512.1F

02 FEB 2004

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02 FEB 2004

CATEGORY I LIST OF LIFE SUPPORT P3 EQUIPMENT ANU

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>NSN/ PART NUMBER</u>	<u>MANUFACTURER CAGE/SOURCE</u>	<u>NOTES</u>
ALTIMETER, ALTIMASTER II	WRIST MOUNTED	COMMERCIALY AVAILABLE	1NNV4	1
ALTIMETER, ALTIMASTER III	WRIST MOUNTED SMALL	COMMERCIALY AVAILABLE	1NNV4	1/2
ALTIMETER, FT-50	WRIST MOUNTED	COMMERCIALY AVAILABLE PN: FT-50	U.S. DISTRIBUTORS	1
ALTIMETER, MA2-30	WRIST MOUNTED LIGHTED (WHITE FACE)	6660-01-213-9035 11-1-3513	81337	3/4
ALTIMETER, MA2-30A	WRIST MOUNTED LIGHTED (BLACK FACE)	6660-01-228-3597 MA2-30A	1NNV4	3/4
ALTIMETER, MA2-30-EL	WRIST MOUNTED LIGHTED WATERPROOF	COMMERCIALY AVAILABLE	1NNV4	2/4
ALTIMETER, PARACHUTIST, MILITARY FREE FALL	WRIST MOUNTED LIGHTED (WHITE FACE, MODEL PA-200)	6660-01-213-9035 11-1-3513	81337	2/3/ 4
AUTOMATIC RIPCORDER RELEASE (AR2)	MODEL 451 RESERVE ACTIVATION (WITHOUT POWER CABLE ASSY)	9E 1670-01-369-7914 11-1-6905-1	81337/ 26309	3/5/ 6/7
AR2 POWER CABLE ASSY	26.19-INCH (DETACHABLE EYE)	6150-01-390-4711 11-1-6906-2	81337/ 26309	2/3/ 5/6/ 7
		COMMERCIALY AVAILABLE PN: 451-100-2	26309	6
AR2 POWER CABLE ASSY	26.19-INCH (FIXED EYE) (DEVGRU VARIANT)	6150-01-390-4711 PN: 11-1-6906-3	26309	6/8

Encl (1)

NAVSEAINST 13512.1F

02 FEB 2004

CATEGORY I LIST OF LIFE SUPPORT P3 EQUIPMENT ANU

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>NSN/ PART NUMBER</u>	<u>MANUFACTURER CAGE/SOURCE</u>	<u>NOTES</u>
CYPRES (EXPERT), AUTOMATIC RIPCORDER RELEASE AND RIGGERS INSTALLATION KIT	RESERVE ACTIVATION	COMMERCIALY AVAILABLE	AUTHORIZED U.S. DISTRIBUTORS	9
EXTENSION, STATIC LINE	5-FOOT	9E 1670-00-368-4225 53D6887	98750/ 80049	10/ 11/ 12
EXTENSION, STATIC LINE	10-FOOT	SEE NOTE 13	LOCAL MANUFACTURE	13
FF-2 AUTOMATIC RIPCORDER RELEASE	MAIN CANOPY ACTIVATION (WITHOUT POWER CABLE ASSY)	7H 1670-01-213-8145 11-1-2155-2	81337	3/4
FF-2 POWER CABLE ASSY	12.25-INCH USED WITH MT- 1XS/SL (BEST FIT), MC-5 AND MT-2XX/SL	9E 1670-01-184-6108 ID-62-6639-503	09511	3/14 /15/ 16
FF-2 POWER CABLE ASSY	10.25-INCH USED WITH MT-1XS/SL AND MT-2XX/SL	9G 1670-01-184-6107 ID-62-6639-501	09511	3/4/ 14/ 16
HELMET, FLYER'S HGU-55/P	MEDIUM LARGE X-LARGE	9D 8475-01-128-8268 81D5330-4 9D 8475-01-128-8269 81D5330-5 9D 8475-01-128-8270 81D5330-6	72724 72724 72724	3/ 17
HELMET, PARACHUTIST'S GENTEX	MEDIUM LARGE X-LARGE	8475-01-281-2012 G022-4602-04 8475-01-281-2013 G022-4602-05 8475-01-281-2014 G022-4602-06	60240 60240 60240	3/ 18
HELMET, PRO-TEC	PLASTIC	COMMERCIALY AVAILABLE	63266	19/ 20/ 21

CATEGORY I LIST OF LIFE SUPPORT P3 EQUIPMENT ANU

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>NSN/ PART NUMBER</u>	<u>MANUFACTURER CAGE/SOURCE</u>	<u>NOTES</u>
OXYGEN MASK ASSY TYPE MBU-12/P	EXTRA-LONG LONG REGULAR SHORT	9G 1660-01-081-2368 834-75-04 G012-1050-04 9G 1660-01-073-7596 834-75-03 G012-1050-03 9G 1660-01-073-7595 834-75-02 G012-1050-02 9G 1660-01-081-9157 834-75-01 G012-1050-01	 53655 60240 53655 60240 53655 60240 53655 60240	3/ 22
OXYGEN PRE-BREATHING SYSTEM PORTABLE	SIX PERSON, 1292 CU. IN. (1800 PSI) (2100 PSI)	7H 1660-01-108-8640 7920171-1 7920171-3	 31441 04577/31441/ 62323	2/3/ 23 3/23
OXYGEN SYSTEM PORTABLE 106 CU. IN.	(1800 PSI)	9G 1660-01-138-8623 8020130-3	04577/62323	2/3/ 23
100 CU. IN.	(2100 PSI)	1660-01-384-6589 9320113-3	04577/31441/ 62323	23
PARA ASSY MC1-1B	35 FT DIA, NETTING STATIC LINE MANEUVERABLE	9E 1670-00-598-0751 11-1-900-1	81337	2/24 /25/ 26
PARA ASSY MC1-1C	35 FT DIA, NETTING STATIC LINE F-111 NOPO MANEUVERABLE	9E 1670-01-262-2359 11-1-900-2	81337	2/25 /26 /27
PARA ASSY MC1-1D	MC1-1C PARA ASSY W/USL	9E 1670-01-487-0777 11-1-900-3	81337	25/ 26/ 27/
PARA ASSY MC1-1E	MC1-1B PARA ASSY W/USL	9E 1670-01-499-6573 11-1-900-4	81337	24/ 25/ 26

NAVSEAINST 13512.1F

02 FEB 2004

CATEGORY I LIST OF LIFE SUPPORT P3 EQUIPMENT ANU

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>NSN/ PART NUMBER</u>	<u>MANUFACTURER CAGE/SOURCE</u>	<u>NOTES</u>
PARA ASSY MC-4	7-CELL MAIN 7-CELL RESERVE FREE FALL	9E 1670-01-306-2100 11-1-3516	81337	28/ 29
PARA ASSY MC-5	7-CELL MAIN 7-CELL RESERVE STATIC LINE OR FREE FALL	1670-01-367-0304 810200-0X	57172	15
PARA ASSY MC-5D	7-CELL MAIN 7-CELL RESERVE FREE FALL (DEVGRU VARIATION OF MT-1XS/SL)	COMMERCIALY AVAILABLE	57172	8
PARA ASSY MILITARY TANDEM VECTOR (MTV)	PD 421 MAIN, PD 421 OR PD 360 RESERVE	COMMERCIALY AVAILABLE PN:MTV/-/-/-/PH/-/S	0HAS4	30
PARA ASSY MT-1SS	5-CELL MAIN 5-CELL RESERVE FREE FALL	COMMERCIALY AVAILABLE PN: 811900-0	57172	31
PARA ASSY MT-1XS/SL	7-CELL MAIN 5-CELL RESERVE STATIC LINE OR FREE FALL	COMMERCIALY AVAILABLE PN: 811800-0	57172	2/14
PARA ASSY MT-2XX/SL	7-CELL MAIN 7-CELL RESERVE STATIC LINE OR FREE FALL	COMMERCIALY AVAILABLE PN: 810400-1X	57172	16
PARA ASSY PD-SERIES MAIN	F111, 7-CELL AND F111, 9-CELL	COMMERCIALY AVAILABLE	0VBY7	2/32
PARA ASSY PD-SERIES MAIN, LIGHTNING	F111, 7-CELL AND ZERO POROSITY, 7-CELL	COMMERCIALY AVAILABLE	0VBY7	33

CATEGORY I LIST OF LIFE SUPPORT P3 EQUIPMENT ANU

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>NSN/ PART NUMBER</u>	<u>MANUFACTURER CAGE/SOURCE</u>	<u>NOTES</u>
PARA ASSY PD-SERIES MAIN, SILHOUETTE		COMMERCIALY AVAILABLE	0VBY7	32
PD SI-170	9-CELL, MAIN 170 SQ FT	PN: SI-170		
PD SI-190	9-CELL, MAIN 190 SQ FT	PN: SI-190		
PD SI-210	9-CELL, MAIN 210 SQ FT	PN: SI-210		
PD SI-230	9-CELL, MAIN 230 SQ FT	PN: SI-230		
PD SI-260	9-CELL, MAIN 260 SQ FT	PN: SI-260		
PARA ASSY PD-SERIES MAIN, SPECTRE	ZERO POROSITY, 7-CELL	COMMERCIALY AVAILABLE	0VBY7	33
PD SP-150	7-CELL, MAIN 150 SQ FT	PN: SP-150		
PD SP-170	7-CELL, MAIN 170 SQ FT	PN: SP-170		
PD SP-190	7-CELL, MAIN 190 SQ FT	PN: SP-190		
PD SP-210	7-CELL, MAIN 210 SQ FT	PN: SP-210		
PD SP-230	7-CELL, MAIN 230 SQ FT	PN: SP-230		
PARA ASSY PD-SERIES RESERVE		COMMERCIALY AVAILABLE	0VBY7	32
PD 160R	7-CELL, RESERVE 160 SQ FT	PN: PD160R		
PD 176R	7-CELL, RESERVE 176 SQ FT	PN: PD176R		
PD 193R	7-CELL, RESERVE 193 SQ FT	PN: PD193R		
PD 218R	7-CELL, RESERVE 218 SQ FT	PN: PD218R		

NAVSEAINST 13512.1F

02 FEB 2004

CATEGORY I LIST OF LIFE SUPPORT P3 EQUIPMENT ANU

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>NSN/ PART NUMBER</u>	<u>MANUFACTURER CAGE/SOURCE</u>	<u>NOTES</u>
PD 235R	7-CELL, RESERVE 235 SQ FT	PN: PD235R		
PD 253R	7-CELL, RESERVE 253 SQ FT	PN: PD253R		
PD 281R	7-CELL, RESERVE 281 SQ FT	PN: PD281R		
PARA ASSY PERSONNEL RESERVE, TROOP CHEST	24-FT RESERVE	9E 1670-00-892-4218 62C4317	98750/ 80049	34/ 35
PARA ASSY SWIFT PLUS	7 CELL RESERVE 175 SQ FT	COMMERCIALY AVAILABLE	57172	2/32
PARACHUTE DEPLOYMENT BAG	USED W/MC1-1B AND -1C PARA RUBBER BAND	9G 1670-01-094-0687 56D6276-4	98750	36/ 37
PARACHUTE HARNESS/ CONTAINER	JAVELIN	COMMERCIALY AVAILABLE PN: JAVELIN	OWRL1	32
PARACHUTE HARNESS/ CONTAINER	MILITARY INSTRUCTOR VECTOR (MIV)	COMMERCIALY AVAILABLE MIV/-/-/S (COLOR)	0HAS4	2/32
PARACHUTE HARNESS/ CONTAINER	TALON HC 2000 W/CRW MOD ON RESERVE FLAP	COMMERCIALY AVAILABLE	0ESB2	2/32
PARACHUTE HARNESS/ CONTAINER	TALON 2 F.A.S.T. TM MULTI-FLEX TM STANDARD	COMMERCIALY AVAILABLE PN:6111- (2)F.A.S.T. TM PN:6111-(2)MULTI- FLEX TM PN:6111-(2)STANDARD	0ESB2	2/32
UNIVERSAL STATIC LINE (USL)	USED W/MC1-1B AND -1C PARA	SEE NOTE 38	81337	24/ 27/ 38

CATEGORY I LIST OF LIFE SUPPORT P3 EQUIPMENT ANU

02 FEB 2004

NOTES

- Note 1: The altimeter shall be tested initially in an altitude test chamber upon receipt, and every 90 days per procedures listed in TM 10-1670-300-20&P.
- For Altimaster II and III: When conducting the Functional Test, modify test procedures in TM 10-1670-300-20&P to evacuate to an altitude of 18,000 feet vice 30,000 feet to prevent damaging the altimeter. This modification reduces the number of altimeter tolerance checks to five, instead of the normally required six.
- For FT-50: When conducting the Functional Test, modify test procedures in TM 10-1670-300-20&P to evacuate to an altitude of 14,000 feet vice 30,000 feet to prevent damaging the altimeter. This modification reduces the number of altimeter tolerance checks to four, instead of the normally required six.
- Note 2: Item being phased out. Authorized to use inventory currently on hand. Not authorized for re-procurement.
- Note 3: Use in accordance with FM 31-19/MCWP 3-15.6/AFI 11-411(I)/NAVSEA SS400-AG-MMO-010 Oct 99 - Military Free-Fall Parachuting Tactics, Techniques, and Procedures.
- Note 4: Use in accordance with TM 10-1670-300-20&P/TO 14D1-2-469-2/NAVAIR 13-1-42 Jul 95 - Unit Maintenance Manual including Repair Parts and Special Tools List for Ancillary Equipment for: Military Free-Fall System: Helmet, Free-Fall, Parachutist's, Type I (NSN 8415-01-018-4910/-4911/-4912); Helmet, Free-Fall, Parachutist's, Type II (NSN 8415-01-018-4913/-4914/-4915; Goggles, (NSN 8465-01-004-2893); Altimeter, Parachutist's (NSN 6660-01-213-9035); Sling Assembly, Equipment Attaching (NSN 1670-01-008-7755); Line, Equipment Lowering (XXXX-XX-XXX-XXXX); Release Assembly, Ripcord, Automatic, Type FF2 (NSN 1670-01-213-8145).
- Note 5: Use in accordance with TM 10-1670-305-23&P/TO 14D2-11-1/NAVSEA SS400-AY-MMO-010/TM 1670-23&P Jun 00 - Unit and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List), Automatic Ripcord Release, AR2, Model 451 (NSN 1670-01-369-7914); Test Chamber Assembly, AR2, Model 452 (NSN 1670-01-370-0752); and Electronic Test Chamber Assembly, AR2, Model 453 (NSN 1670-01-468-9471).
- Note 6: Minimum actuation setting shall be 1500 feet Above Ground Level (AGL).
- Note 7: Install AR2 on MT-1XS/SL and MT-2XX/SL Ram Air Parachute Assemblies per respective technical manuals NAVAIR 13-1-21/NAVSEA SS400-AA-MMO-010 and NAVSEA SS400-AX-MMO-010.

CATEGORY I LIST OF LIFE SUPPORT P3 EQUIPMENT ANU

NOTES

- Note 8: Restriction: Naval Special Warfare Development Group use only per command directive.
- Note 9: Restriction: Used with non-standard parachuting equipment.
- Note 10: Use in accordance with FM 57-220/MCWP 3-1.5.7/TO 14D1-2-1-121 Aug 96 - Static Line Parachuting Techniques and Training.
- Note 11: Use in accordance with NAVAIR 13-1-20/TO 14D1-2-396 Apr 86 (Chg 8 - Sep 98) - Operational and Service Instructions, Personnel Parachute, Types A/P28S-17 and -18.
- Note 12: Use in accordance with TM 10-1670-299-20&P/TO 14D1-2-470-2/NAVAIR 13-1-41 Sep 95 - Unit Maintenance Manual including Repair Parts and Special Tools List for Ancillary Equipment for: Personnel Troop Parachute System: Case, Parachutist, Individual Weapon, M-1950, NSN 8465-00-261-4995; Case, Parachutists, Weapon & Individual Equipment, NSN 8465-00-753-6549; Extension, Static Line, NSN 1670-00-368-4225; Accessory, Set Scuba, NSN 1670-00-064-5735; Line Lowering, 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, Aerial Delivery, Weapons & Equipment, NSN 1670-01-414-2757; Container, Aerial Delivery, General Purpose Individual Equipment, NSN 1670-01-413-7836.
- Note 13: Manufacture and use in accordance with NAVSEA TO300-AW-MMO-010.
- Note 14: Use in accordance with NAVAIR 13-1-21/NAVSEA SS400-AA-MMO-010 Jul 99 (Chg 1 - Sep 01) - Organizational Maintenance with Illustrated Parts Breakdown, Ram Air Parachute Assembly, MT-1XS/SL.
- Note 15: Use in accordance with TM 09770A-12&P/1A Jan 97 (Chg 4 - Apr 00) - Operational Instructions and Organizational Maintenance With Illustrated Parts Breakdown, Ram Air Parachute Assembly, MC-5, NSN 1670-01-367-0304.
- Note 16: Use in accordance with NAVSEA SS400-AX-MMO-010 Apr 98 (Chg A - Sep 01) - Organizational Maintenance with Illustrated Parts Breakdown, Ram Air Parachute Assembly, MT-2XX/SL.
- Note 17: Use in accordance with TO 14P3-4-151 Sep 98 (Chg 8 - Nov 02) - Operation and Maintenance Instructions with Illustrated Parts Breakdown, HGU-55/P Flyer's Helmet.

02 FEB 2004

CATEGORY I LIST OF LIFE SUPPORT P3 EQUIPMENT ANUNOTES

- Note 18: Use in accordance with TO 14P3-4-171 Dec 01 - Operation and Maintenance Instructions with Illustrated Parts Breakdown, Parachutist Helmet Assembly.
- Note 19: Helmet configurations may consist of standard foam linings procured with helmet shell, or the Pro-Tec Helmet Liner Upgrade Kit, commonly known as the Free Fall Liner (FFL).
- Note 20: Refer to Installation Procedures for Attaching Bayonet Receiver Assembly to Pro-Tec Helmet, which were promulgated by PEO EXW letter Ser 325/0306 of 17 May 01, when converting helmet for use with the MBU-12/P Oxygen Mask Assembly.
- Note 21: The Pro-tec half-shell helmet is authorized for water jumps only.
- Note 22: Use in accordance with TO 15X5-3-6-1/TM 55-1660-247-12 Apr 81 (Chg 31, May 02) - Operation, Fitting, Inspection, and Maintenance Instructions with Illustrated Parts Breakdown, MBU-12/P, Pressure-Demand Oxygen Mask.
- Note 23: Use in accordance with TO 15X-2-6-11/TM 10-1660-276-12&P/NAVSEA SS400-AV-MMO-010/USMC TM 1670-12&P Aug 97 - Operation and Maintenance Instructions with Illustrated Parts Breakdown, Parachute Oxygen Systems.
- Note 24: Use in accordance with TM 10-1670-272-23&P/TO 14D1-2-463-2/TM 04296C-23&P/1/NAVSEA SS400-AS-MMI-010 Feb 02 - Unit and Direct Support (DS) Maintenance Manual (Including Repair Parts and Special Tools List) For Parachute, Personnel Type: 35-Foot Diameter, MC1-1B Troop Back Parachute Assembly, NSN 1670-00-598-0751 and Parachute, Personnel Type: 35-Foot Diameter, MC1-1E Troop Back Parachute Assembly, NSN XXXX-XX-XXX-XXXX.
- Note 25: Modify and use in accordance with Modification Work Order 10-1670-293-20-1, Aug 96.
- Note 26: Modify and use in accordance with Modification Work Order 10-1670-293-20-2, Apr 02.
- Note 27: Use in accordance with TM 10-1670-292-23&P/TO 14D1-2-466-2/TM 04296D-23&P/2 Feb 02 - Unit and Direct Support (DS) Maintenance Manual (Including Repair Parts and Special Tools List) For Parachute, Personnel Type: 35-Foot Diameter, MC1-1C Troop Back Parachute Assembly, NSN 1670-01-262-2359 and Parachute, Personnel Type: 35-Foot Diameter, MC1-1D Troop Back Parachute Assembly, NSN 1670-01-487-0777.

02 FEB 2004

CATEGORY I LIST OF LIFE SUPPORT P3 EQUIPMENT ANUNOTES

- Note 28: Use in accordance with TM 10-1670-287-23&P/TO 14D1-2-468-2/TM 09011A-23&P/NA 13-1-38 Jan 92 (Chg 2, Nov 93) - Organizational and Direct Support (DS) Maintenance Manual Including Repair Parts and Special Tools List, MC-4 Ram Air Free-Fall Personnel Parachute System, NSN 1670-01-306-2100.
- Note 29: Modify and use in accordance with Modification Work Order 10-1670-287-20-1, Apr 02.
- Note 30: Restriction: Naval Special Warfare Development Group use only per command directive. Use in accordance with manufacturer's instructions.*
- Maximum Exit Altitude: 13,000 Ft Above Mean Sea Level
 Minimum Opening Altitude: 3,500 Ft Above Ground Level
 Maximum Suspended Weight: 450 Pounds
- Note 31: Use for Water Operations only.
- Limitations:*
- Maximum Suspended Weight: 250 Pounds
 Maximum Opening Altitude: 12,500 Ft
 Maximum Air Speed: Free Fall - 150 Knots Indicated Air Speed
- Use in accordance with NAVSEA Maintenance Plan No. 1170417BB-781-D-O-M.44, MT-1SS Ram Air Parachute Assembly.
- Use NAVAIR 13-1-21/NAVSEA SS400-AA-MMO-010 (Organizational Maintenance with Illustrated Parts Breakdown, Ram Air Parachute Assembly, MT-1XS/SL) for guidance, until a manual for the MT-1SS Ram Air Parachute Assembly is published.
- Note 32: Restriction: Navy personnel who are trained and authorized to use non-standard equipment per command directive.
- Note 33: Restriction: Navy Parachute Team use only per command directive.
- Note 34: Use in accordance with TM 10-1670-269-23&P/TO 14D1-2-462-2/TM 01135B-23&P/1 Aug 01 - Unit and Direct Support (DS) Maintenance Manual (Including Repair Parts and Special Tools List) For Parachute, Personnel Type: 24-Foot Diameter, Troop, Chest, Reserve, NSN 1670-00-892-4218, Modified Improved Reserve Parachute System (MIRPS), NSN 1670-01-420-4256.
- Note 35: The Navy authorized configuration of Parachute Assembly, Personnel, 24 ft Reserve, Troop Chest does not include a Pilot Chute.
- Note 36: Authorized per USBCCOM (AMSSB-RIM-A(N)) Natick, MA memo of 7 Apr 99

02 FEB 2004

CATEGORY I LIST OF LIFE SUPPORT P3 EQUIPMENT ANUNOTES

Note 37: Authorized per MSG 062310Z Sep 85, NAVWPNCEN CHINA LAKE CA.
Modified with standard 15-foot static line.

Note 38: The Universal Static Line (USL) consists of a Static Line, 15ft
(PN: 11-1-6993-1, NSN 1670-01-476-3068), Snap, Static Line (PN:
11-1-6991-1, NSN 1670-01-476-3142), Deployment Bag (PN: 11-1-
6994-1, NSN 1670-01-476-3131, and Extension, Static Line, 5ft
(PN: 11-1-6993-2, NSN 1670-01-476-3130).

*A waiver from PEO LMW (PMS NSW) is required to exceed maximum altitude,
minimum opening altitude, maximum suspended weight, or maximum air speed.

NAVSEAINST 13512.1F
02 FEB 2004

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CATEGORY II LIST OF NON-LIFE SUPPORT P3 EQUIPMENT ANU

02 FEB 2004

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>NSN/ PART NUMBER</u>	<u>MANUFACTURER CAGE/SOURCE</u>	<u>NOTES</u>
ALTIMETER, PANEL CUSHION	PILLOW	COMMERCIALY AVAILABLE	63266	
ANEMOMETER	KESTREL, 1000 POCKET WIND METER	COMMERCIALY AVAILABLE	NIELSEN- KELLERMAN	
ANEMOMETER	KESTREL, 2000 POCKET THERMO WIND METER	COMMERCIALY AVAILABLE	NIELSEN- KELLERMAN	
ANEMOMETER	SIMS CUP TYPE	COMMERCIALY AVAILABLE	63266	1
ANEMOMETER	TURBO METER WINDSPEED INDICATOR	9G 6660-01-361-7465 A2271	58502	1
BAG, PARACHUTIST'S EQUIPMENT	COMBAT EQUIPMENT	SEE NOTE 2 PN: 7243370-1 PN: 7243370-33	LOCAL PURCHASE	2
BRACKET, SMOKE	FOOT MOUNTED DEMO TEAM	COMMERCIALY AVAILABLE		3
CASE, PARACHUTIST'S	INDIVIDUAL WEAPONS M-1950, ADJUSTABLE	8465-01-109-0702 MIL-C-10922	81349	4/5 /6 /7
HANGING SMOKES	MISSION ESSENTIAL	VARIOUS	LOCAL PURCHASE	3/8
HARNESS	H-TYPE	9E 1670-00-897-8629 11-1-147	81337	1/9
HARNESS	SINGLE POINT RELEASE ASSY	9E 1670-01-227-7992 11-1-3008	81337	4/5 /9
LARGE FLAG AND HARNESS	MISSION ESSENTIAL	VARIOUS	VARIOUS	3/8
LIFE PRESERVER	INCREASED CAPACITY LIFE PRESERVER UNIT (ICLPU)	1H 4220-01-499-8807 7243372	53711	10
	CARTRIDGE, INFLATOR	1H 4220-01-499-8806 7243372-3	53711	10

NAVSEAINST 13512.1F

02 FEB 2004

CATEGORY II LIST OF NON-LIFE SUPPORT P3 EQUIPMENT ANU

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>NSN/ PART NUMBER</u>	<u>MANUFACTURER CAGE/SOURCE</u>	<u>NOTES</u>
LIFE VEST	UDT	9Z 4220-00-276-8929 MIL-L-16383	81349	9/ 11
LIGHT	SDU-5/E STROBE	9Z 6230-00-067-5209 MIL-L-38217	81349	1/9 /12 13
LIGHT	SDU-39/N STROBE	9Z 6230-01-411-8535 ACR/MS-2000M	18560	9/ 12/ 13
LINE, LOWERING	15 FT	9G 1670-01-067-6838 11-1-2530-1	81337	4/5 /9 /14
MARINE BUOYANT DEVICE	SHERMAN™ PERSONAL FLOTATION DEVICE (PFD)	COMMERCIALY AVAILABLE	LOTUS DESIGNS INC.	15/ 16
PARA ASSY MILITARY TANDEM VECTOR BUNDLE SYSTEM	EQUIPMENT HARNESS AND CONTAINER USED WITH MTV	COMMERCIALY AVAILABLE	7D602	17
POCKET PARACHUTE, LIGHT	ATTACHED TO THE MT-SERIES RESERVE RIPCORD PIN PROTECTOR FLAP TO HOLD CHEMLIGHTS	SEE NOTE 2 PN: 7243371-1	LOCAL PURCHASE	2
PYROTECHNICS	MISSION ESSENTIAL	VARIOUS	VARIOUS	3
SLING, EQUIPMENT ATTACHING	SPIDER TYPE HARNESS IMPROVED/ MODIFIED USED TO RIG COMBAT PACKS TO HARNESS	9E 1670-01-008-7755 11-1-2529	81337	4/9 /18
SMALL FLAG	MISSION ESSENTIAL	VARIOUS	VARIOUS	3/8

02 FEB 2004

CATEGORY II LIST OF NON-LIFE SUPPORT P3 EQUIPMENT ANU

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>NSN/ PART NUMBER</u>	<u>MANUFACTURER CAGE/SOURCE</u>	<u>NOTES</u>
SMOKE/FLARE	MK-13 MOD 0	2T 1370-00-309-5028 LD165580	10001	1
SMOKE/FLARE	M18 (GREEN)	2T1330-00-289-6851 2T1330-00-540-9147 1330-G940	99999 99999	
	M18 (YELLOW)	2T1330-00-289-6854 2T1330-00-540-9145 1330-G945	99999 99999	
	M18 (RED)	2T1330-00-289-6852 1330-G950	99999	
	M18 (VIOLET)	2T1330-00-289-6853 1330-G955	99999	
SMOKE/FLARE	MK-124 MOD 0	2T 1370-01-030-8330 DL3139734	10001	13

02 FEB 2004

CATEGORY II LIST OF NON-LIFE SUPPORT P3 EQUIPMENT ANUNOTES

- Note 1: Item being phased out. Authorized to use inventory currently on hand. Not authorized for re-procurement.
- Note 2: Manufacture in accordance with drawing/sample provided by Naval Air Warfare Center Weapons Division (461100D), 1 Administration Circle, China Lake, CA 93555-6100.
- Note 3: Restriction: Navy Parachute Team use only.
- Note 4: Use in accordance with FM 57-220/MCWP 3-1.5.7/TO 14D1-2-1-121 Aug 96 - Static Line Parachuting Techniques and Training.
- Note 5: Use in accordance with TM 10-1670-299-20&P/TO 14D1-2-470-2 /NAVAIR 13-1-41 Sep 95 - Unit Maintenance Manual including Repair Parts and Special Tools List for Ancillary Equipment for: Personnel Troop Parachute System: Case, Parachutist, Individual Weapon, M-1950, NSN 8465-00-261-4995; Case, Parachutists, Weapon & Individual Equipment, NSN 8465-00-753-6549; Extension, Static Line, NSN 1670-00-368-4225; Accessory, Set Scuba, NSN 1670-00-064-5735: Line Lowering, 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, Aerial Delivery, Weapons & Equipment, NSN 1670-01-414-2757; Container, Aerial Delivery, General Purpose Individual Equipment, NSN 1670-01-413-7836.
- Note 6: Case, Parachutists, Individual Weapon, M-1950 (Cotton Material), PN MIL-C-10922, NSN 1670-00-261-4995 is authorized for use, but is being phased out.
- Note 7: Modify, if necessary, in accordance with Minor Alteration (IAW AR 750-10), Minor Alteration of the Nylon Case, Parachutists, Individual Weapon, M-1950 (NSN 8465-01-109-0702).
- Note 8: Manufacture/modify in accordance with Navy Parachute Team template.
- Note 9: Use in accordance with FM 31-19/MCWP 3-15.6/AFI 11-411(I)/ NAVSEA SS400-AG-MMO-010 1 Oct 99 - Military Free-Fall Parachuting Tactics, Techniques, and Procedures.
- Note 10: Use in accordance with NAVSEA Maintenance Plan No. 1170417BB-781-D-O-M.50, Increased Capacity Life Preserver Unit (ICLPU).
- Note 11: Use in accordance with NAVSEA 00C ltr 10560 Ser 00C/3212 of 15 May 97 (Updated 13 Jan 03) - Diving Equipment Authorized for U.S. Navy Use.

02 FEB 2004

CATEGORY II LIST OF NON-LIFE SUPPORT P3 EQUIPMENT ANUNOTES

- Note 12: Various design DZ signaling devices are necessary to obtain visual airdrop references (FM 57-220/MCWP 3-1.5.7/TO 14D1-2-1-121, TC 31-24, FM 3-21.38), i.e., smoke, signal panels, etc.
- Note 13: Use in accordance with NAVAIR 13-1-6.5 Aug 00 (Chg 3, Sep 02) - Aviation - Crew Systems, Rescue and Survival Equipment.
- Note 14: Lowering line modified to 8-foot length for use with MT-Series Ram Air Parachute Assembly per TM 10-1670-300-20&P/TO 14D1-2-469-2/NAVAIR 13-1-42.
- Note 15: Restriction: Naval Special Warfare Development Group may use as a primary flotation device for Second-Class Swimmers and above. Others may use device as an aid to flotation only.
- Note 16: Not to be used during parachute operations from rotary aircraft.
- Note 17: Restriction: Naval Special Warfare Development Group use only per command directive. Use in accordance with manufacturer's instructions.*

Maximum Exit Altitude: 13,000 Ft Above Mean Sea Level
Minimum Opening Altitude: 3,500 Ft Above Ground Level
Maximum Suspended Weight: 450 Pounds

- Note 18: Use in accordance with TM 10-1670-300-20&P/TO 14D1-2-469-2/NAVAIR 13-1-42 Jul 95 - Unit Maintenance Manual including Repair Parts and Special Tools List for Ancillary Equipment for Military Free-Fall System: Helmet, Free-Fall, Parachutist's, Type I (NSN 8415-01-018-4910/-4911/-4912); Helmet, Free-Fall, Parachutist's, Type II (NSN 8415-01-018-4913/-4914/-4915); Goggles, (NSN 8465-01-004-2893); Altimeter, Parachutist's (NSN 6660-01-213-9035); Sling Assembly, Equipment Attaching (NSN 1670-01-008-7755); Line, Equipment Lowering (XXXX-XX-XXX-XXXX); Release Assembly, Ripcord, Automatic, Type FF2 (NSN 1670-01-213-8145).

*A waiver from PEO LMW (PMS NSW) is required to exceed maximum exit altitude, minimum opening altitude, or maximum suspended weight.

NAVSEAINST 13512.1F

02 FEB 2004

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02 FEB 2004

CATEGORY III LIST OF NON-LIFE SUPPORT ANCILLARY P3 EQUIPMENT ANU

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>NSN/ PART NUMBER</u>	<u>MANUFACTURER CAGE/SOURCE</u>	<u>NOTES</u>
ACCESSORY POUCH	MISSION ESSENTIAL	VARIOUS	VARIOUS	
AUDIBLE ALTITUDE WARNING DEVICE	MISSION ESSENTIAL	VARIOUS	VARIOUS	1/2
BOOTS	MISSION ESSENTIAL	VARIOUS	VARIOUS	2/3
	SKI BOOTS PER MISSION REQUIREMENTS	COMMERCIALY AVAILABLE		4
FINS	SWIMMER'S	COMMERCIALY AVAILABLE	DIVER PREFERENCE	5/6
GAME BALL HARNESS	MISSION ESSENTIAL	VARIOUS	LOCAL PURCHASE	7/8
GLOVES	MISSION ESSENTIAL	VARIOUS	VARIOUS	2/9
	FLYER'S FIRE RESISTANT, SUMMER	REFER TO NA 00-35QH-2 NAVAIR ALLOWANCE LIST FOR SIZE/NSNs MIL-G-81188	81349	
GOGGLES	MISSION ESSENTIAL	VARIOUS	VARIOUS	2
	KROOP, REGULAR/CLEAR	COMMERCIALY AVAILABLE	0YR10	10
	KROOP, SUN, WIND, DUST GOGGLES OVER THE EYEGLASSES	COMMERCIALY AVAILABLE	0YR10	10
	SUN, WIND, DUST SYNTHETIC RUBBER FRAME PLASTIC LENS	9D 8465-01-004-2893 MIL-G-43914	81349	10/ 11
	SUN, WIND, DUST GOGGLES OVER THE EYEGLASSES	9D 8465-01-328-8268 MIL-G-43914	81349	10

NAVSEAINST 13512.1F

02 FEB 2004

CATEGORY III LIST OF NON-LIFE SUPPORT ANCILLARY P3 EQUIPMENT ANU

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>NSN/ PART NUMBER</u>	<u>MANUFACTURER CAGE/SOURCE</u>	<u>NOTES</u>
HELMET	MISSION ESSENTIAL	VARIOUS	VARIOUS	2
HELMET, VIDEO	MISSION ESSENTIAL	VARIOUS	VARIOUS	2/12
JUMP SUIT	MISSION ESSENTIAL	VARIOUS	VARIOUS	2/9/ 13
	COVERALL, FLYER'S CWU-27/P NOMEX, FLT	REFER TO NA 00-35QH-2 NAVAIR ALLOWANCE LIST FOR SIZE/NSNs MIL-C-83141	81349	9/13
KIT BAG, FLYERS'	SAGE GREEN	9D 8460-00-606-8366 MIL-K-41835	81349	4/14
KNIFE, FIXED BLADE	MISSION ESSENTIAL	VARIOUS	VARIOUS	2
	DIVERS/COMBAT MK-1	9C 1095-00-391-1056 5830050	53711	5
KNIFE, HOOK BLADE	MISSION ESSENTIAL	VARIOUS	VARIOUS	2
	HOOK BLADE, AIRCREW	9G 1670-01-088-4654 823AS101-1	30003	
	JACK THE RIPPER HOOK KNIFE	COMMERCIALY AVAILABLE	63266	
LIGHT, SAFETY	CHEM	VARIOUS	VARIOUS	
LIGHT, SAFETY	BATTERY OPERATED	COMMERCIALY AVAILABLE	VARIOUS	
MICROWAVE VIDEO TRANSMITTER	MISSION ESSENTIAL	VARIOUS	VARIOUS	7
NAVIGATION EQUIPMENT, PARACHUTIST	COMPASS BOARD, JUMP	COMMERCIALY AVAILABLE	LOCAL MANUFACTURE	
RADIO, HANDHELD	JUMPER TO JUMPER COMMUNICATION	COMMERCIALY AVAILABLE	VARIOUS	

02 FEB 2004

CATEGORY III LIST OF NON-LIFE SUPPORT ANCILLARY P3 EQUIPMENT ANU

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>NSN/ PART NUMBER</u>	<u>MANUFACTURER CAGE/SOURCE</u>	<u>NOTES</u>
RUCKSACK/ FIELD PACK	MISSION ESSENTIAL	VARIOUS	VARIOUS	2/4 /15
RUCKSACK/ FIELD PACK	LARGE	9D 8465-00-001-6481 MIL-F-43832	81349	4/11 /15 /16
RUCKSACK/ FIELD PACK	LARGE	9D 8465-01-019-9103 MIL-F-43832	81349	4/11 /15 /16
RUCKSACK/ FIELD PACK	LARGE W/ INTERNAL FRAME AND COMBAT PATROL PACK	9D 8465-01-286-5356 MIL-F-44324	81349	4/15 /16
RUCKSACK/ FIELD PACK	MEDIUM ARMY ISSUE	9D 8465-01-019-9102 MIL-F-43833	81349	4/11 /15 /16
RUCKSACK/ FIELD PACK, COMBAT	MEDIUM ARMY ISSUE	9D 8465-01-253-5335 MIL-F-43833	81349	4/15 /16
RUCKSACK/ FIELD PACK, FRAME	ARMY ISSUE	9D 8465-01-073-8326 MIL-F-43834	81349	4/15 /16
SHOES, RUNNING	LOW TOP	COMMERCIALY AVAILABLE	VARIOUS	12
SKIS/ SNOWSHOES	PER MISSION REQUIREMENTS	VARIOUS	VARIOUS	4/14
SMOKE BAG	MISSION ESSENTIAL	VARIOUS	LOCAL PURCHASE	7/8
WEAPON, ASSAULT	PER MISSION REQUIREMENTS	NSN		4/17

02 FEB 2004

CATEGORY III LIST OF NON-LIFE SUPPORT ANCILLARY P3 EQUIPMENT ANU

NOTES

- Note 1: Training lesson guides, jumpmaster's briefs, and SOPs must contain the following warning:
The audible altitude warning devices are an aid to safety and cannot be used as the sole source of altitude awareness. The units must be calibrated at each selected drop zone. A warning beep altitude must be preset prior to each jump. The units are armed only if the exit altitude is at least 1000 feet above the preset warning beep altitude.
- Note 2: Local approval may be granted by Commanding Officers on a case-by-case basis to use similar items not listed. Such approval should be based on sound, experienced judgment that the equipment would not endanger the parachutist and that it would enhance the support of mission requirements.
- Note 3: Different types of boots may be necessary depending on the degree of environmental protection needed, as well as follow-on mission requirements. Items must meet the following criteria:
- provide a reasonable amount of ankle support
- be constructed of various materials (leather/man made)
- soles may vary from rigid to semi-rigid with various sole patterns
Some examples of acceptable footwear are: Danner, Jungle, Desert, Addidas Assault, and Combat.
- Note 4: Use in accordance with FM 31-19/MCWP 3-15.6/AFI 11-411(I)/NAVSEA SS400-AG-MMO-010 Oct 99 - Military Free-Fall Parachuting Tactics, Techniques, and Procedures.
- Note 5: Use in accordance with NAVSEA 00C ltr 10560 Ser 00C/3212 of 15 May 97 (Updated 13 Jan 03) - Diving Equipment Authorized for U.S. Navy Use.
- Note 6: Worn for Static Line/Free Fall parachuting per SOP.
- Note 7: Restriction: Navy Parachute Team use only.
- Note 8: Manufacture/modify in accordance with Navy Parachute Team template.
- Note 9: Different types of gloves and flight suits may be necessary depending upon the degree of environmental protection required. Item must not interfere with jumper's ability to perform.

02 FEB 2004

CATEGORY III LIST OF NON-LIFE SUPPORT ANCILLARY P3 EQUIPMENT ANUNOTES

- Note 10: Authorized use of commercially procured goggles provided they are compatible with the helmet and issued oxygen mask. All goggles used for eye protection shall be made of shatterproof materials and should be made of clear plastic for oxygen jumps.
- Note 11: Item being phased out. Authorized to use inventory currently on hand. Not authorized for re-procurement.
- Note 12: Restriction: Used with non-standard parachuting equipment.
- Note 13: Use of mission compatible jump suits, i.e., camouflage pants/jacket and/or wet suit/dry suit combinations to meet command mission requirements are authorized.
- Note 14: Use in accordance with FM 57-220/MCWP 3-1.5.7/TO 14D1-2-1-121 Aug 96 - Static Line Parachuting Techniques and Training.
- Note 15: Must be compatible with authorized combat equipment harnesses.
- Note 16: Use in accordance with TM 10-8400-203-23 May 90 (Chg 10, Mar 02) - Unit and Direct Support Maintenance Manual, General Repair Procedures for Individual Equipment.
- Note 17: Weapon used per SOP must meet approved rigging requirements per FM 57-220/MCWP 3-1.5.7/TO 14D1-2-1-121 Aug 96 - Static Line Parachuting Techniques and Training.