Life Preserver Unit (LPU)

Special Tools, Support Equipment, Consumables, & Spare Parts

Maintenance tasks for the PRU-75/P (LPU) include **leak testing, inspection for cleanliness/damage, repair,** and **removal/replacement** of damaged parts.

The design **faciliates easy routine maintenance** such as inflation unit removal/replacement, LPU cover/tear repair, and build-up of LPU assembly. Maintenance procedures are described in the **IAE Technical Order 14P3-1-191.**

Special tools, support equipment, consumables, and **spare parts** are needed for the various maintenance tasks associated with the procurement and issuance of the LPU. See reverse for a list of each item with its associated part number.

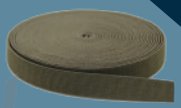
The PRU-75/P (LPU) is **currently fielded** to the United States Air Force F-22 pilots.

For more information or questions regarding procurement, please contact: **Info@tiax-llc.com.**

LPU Consumables

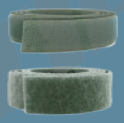
TEX 90 Thread

Plain Weave Aramid Fabric



1" Elastic

8/4 Waxed & Double-Waxed Thread



5/8" Hook & Loop

Braided Nylon Cord

LPU Special Tools

ALPIU Opening Tool

ALPIU Closing Tool

Digital Scale

ALPIU Hydrostatic Blanking Cap

LPU Spare Parts

Automatic Life Preserver Inflation Units (ALPIUs)

LPU Rear Harness Attachment

LPU Operating Handle

LPU Chest Adjustment

LPU Cover

LPU Restrainer

LPU Right & Left Bladder

LPU Support Equipment

Threaded Hose Adapter w/ O-ring*

Test Adapter* w/ Clamp

Digital Thermometer

Control Box (EPL Test Kit)

Digital Manometer*

*Assembly Required

LEADING EDGE PROTECTION

FOR THE 21st-CENTURY WARFIGHTER

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LPU – Special Tools			
Part Number	**NSN**	**Nomenclature**	**Use**
TXF210310-A	4220-01-696-1602	Automatic Life Preserver Inflation Unit (ALPIU) Closing Tool	Holds the actuator housing in the correct orientation when it is installed on the ALPIU
TXF210311-A	5340-01-682-1309	Automatic Life Preserver Inflation Unit (ALPIU) Hydrostatic Blanking Cap	Protects the hydrostatic valve opening of the ALPIU during packing/inspection/testing
TXF210312-A	4220-01-696-1597	Automatic Life Preserver Inflation Unit (ALPIU) Opening Tool	Release the actuator housing on the ALPIU during replacement
1722T12	Pending	Scale, Digital	Check weight of the ALPIU Body Assembly
LPU – Support Equipment			
Part Number	**NSN**	**Nomenclature**	**Use**
TXF200010-A	Pending	Control Box	Part of the EPL Leak test kit; Connects to shop air source and controls flow of air for LPU leak testing
TXF210318-A	1680-01-682-9559	Threaded Hose Adapter with O-ring	LPU Bladder testing
TXF210319-A	1680-01-682-9567	Test Adapter with Clamp	LPU Bladder testing
477B-4	6685-01-679-4060	Digital Manometer	LPU Bladder testing
445703	6685-01-588-4791	Digital Thermometer	LPU Bladder testing
LPU – Consumables			
Part Number	**NSN**	**Nomenclature**	**Use**
TXF200003-A	Pending	Elastic, Woven, 1 inch, 80 Percent Minimum Elasticity, Sage Green	Fabricate Elastic Keepers for LPU
TXF200004-A	Pending	Fabric, Plain Weave Aramid, 6.5 oz	Hole and Tear repairs for LPU Cover
A-A-55126	8315-01-010-7203	Fastener, Hook, 5/8 Inch, Type 1 Class 1, Sage Green	LPU hook-and-loop fastener replacement
A-A-55126	8315-01-010-7204	Fastener, Loop, 5/8 Inch, Type 1 Class 1, Sage Green	LPU hook-and-loop fastener replacement
A-A-52094	8310-00-530-7473	Thread, 8/4, Type IVB, Waxed, Sage Green	Tacking LPU to Rear Harness Attachment slide fastener
A-A-52094	8310-00-530-1178	Thread, 8/4, Type V, Double Waxed, Sage Green, Cotton	Tacking LPU Elastic Keepers
A-A-59963	8310-00-988-1300	Thread, 100 percent Polyester, TEX 90, Continuous Multifilament Twisted, Bonded, Multiple Cord, Type II, Class 1, Sage Green	LPU Cover Repairs
PIA-C-5040	4020-01-607-1751	Cord, Braided Nylon, Type IA, Sage Green 1590 (FED STD 595), 125 pound	Attach/replace LPU neckpiece (eyelets) to LPU Rear Harness Attachment
LPU – Spare Parts			
Part Number	**NSN**	**Nomenclature**	**Units Per Assembly**
TXF100301-A	4220-01-682-2552	LPU Cover Assembly	1
TXF100302-A	4220-01-682-2472	LPU Restrainer	1
TXF100303-A-L	4220-01-681-8724	LPU Left Bladder Assembly	1
TXF100303-A-R	4220-01-682-2475	LPU Right Bladder Assembly	1
TXF210301-A	5325-01-682-1117	LPU Rear Harness Attachment	1
TXF210302-A	5340-01-682-1220	LPU Operating Handle Assembly	2
TXF210303-A	5340-01-682-2547	LPU Chest Adjustment Assembly	2
TXF210305-A	4220-01-706-9401	Automatic Life Preserver Inflation Unit (ALPIU)	2

For more information contact:
Info@tiax-llc.com
tiaxllc.com

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