

# 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 **facilitates 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.

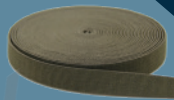
### LPU Consumables



TEX 90 Thread



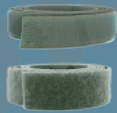
Plain Weave  
Aramid Fabric



1" Elastic



8/4 Waxed &  
Double-Waxed Thread



5/8" Hook & Loop



Braided Nylon Cord

### LPU 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

For more information or questions regarding procurement, please contact: [Info@tiax-llc.com](mailto:Info@tiax-llc.com).

### LPU Special Tools



ALPIU  
Opening Tool



ALPIU  
Closing Tool



Digital Scale



ALPIU  
Hydrostatic Blanking Cap

### 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



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:

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