

SECTION P

PAIL - 3 GALLON

NSN 7240-00-274-3875

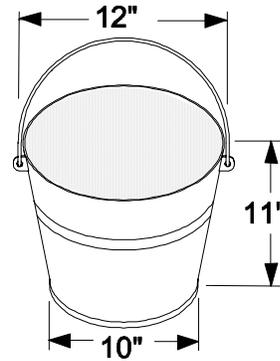
WT. 2.0 lbs. **VOL.** 1,320.0 in³

DESCRIPTION: Galvanized steel pail with a heavy wire handle.

USE: Used as a bucket patch with J, T or L bolts.

USE TIP: Can also contain sand.

REF: Shoring Tool Kit.



PASTE - WATER INDICATOR

NSN 6850-00-001-4194

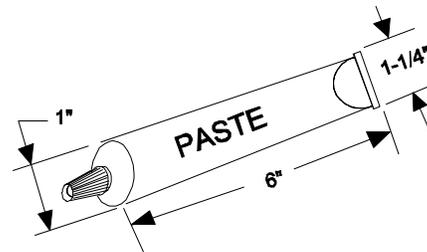
WT. 1.0 oz **VOL.** 28.3 in³

DESCRIPTION: Tube of colored, water indicating paste

USE: Applied to sounding bob to indicate if water is present in the bottom of a fuel tank.

USE TIP: Wipe sounding bob with rag after use.

REF: Sounding Kit.



PATCH-BOX - VARIOUS SIZES
REPAIR PARTY MANUAL 7104.L

1HS0000-LL-CJ7-5880

ASSY 1:

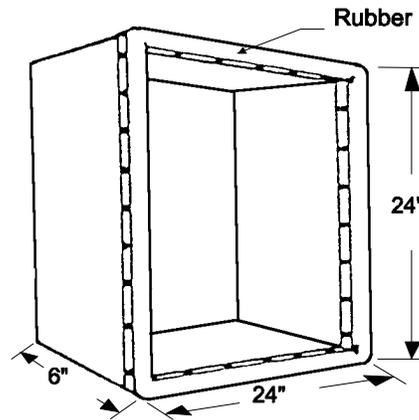
WT. 24.1 lbs. **VOL.** 1,200.0 in³ 12" x 12" x 6"

ASSY 2:

WT. 34.3 lbs **VOL.** 2,730.0 in³ 16" x 16" x 6"

ASSY 3:

WT. 51.5 lbs **VOL.** 5,136.0 in³ 24" x 24" x 6"
(illustrated)



DESCRIPTION: The box is open at one end and has a gasket running along the face edges. The gasket may be rubber or canvas stuffed with oakum.

USE: Used to cover small holes having jagged edges protruding inward on the ships deck, hull, or bulkheads. Can be secured with J, T, or L bolts, shoring or welded clips.

USE TIP: Larger patches should be reinforced with shoring. Use with required J, T, or L bolts. Marline around the stock to within ½" of end will help prevent slipping and allow improved grip.

NOTE:

Various sizes to be manufactured by ships force - edges with gaskets: made of wood or steel.

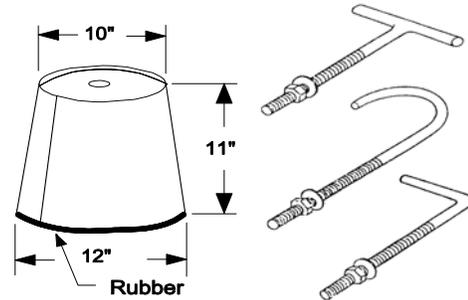
REF: NAVSEA Drawing No. 804-5959236. Parent AEL.

PATCH-BUCKET -

1HS0000-LL-CJ7-5881

WT. 2.0 lbs.

VOL. 1,320.0 in³



DESCRIPTION: Similar to the Box Patch, the bucket patch box is open at one end and has a gasket running along the face edges. The gasket may be rubber or canvas stuffed with oakum.

USE: Used in a variety of ways to stop leaks. It can be pushed into a hole bottom first as a metal plug or to cover small holes from protruding side in bulkheads or ship's hull. Secured with J, T, or L bolts.

USE TIP: Manufactured by ship's force. Use metal bucket with 1/2" gasket material on edge. Use with J, T or L bolts. Marline around the stock to within 1/2" of end will help prevent slipping and allow improved grip.

REF: NAVSEA Drawing No. 804-5959243. Parent AEL.

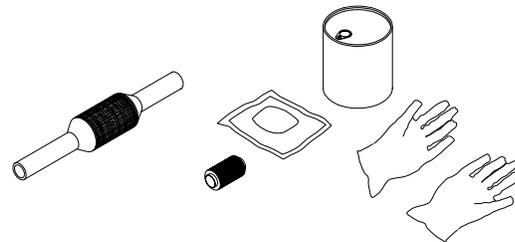
PATCH - EMERGENCY ACTIVATED REPAIR

NSN 4730-01-242-6186 SZ 1 - (2" X 62")

NSN 4730-01-253-9953 SZ 2 - (4" X 180")

WT. 0.3 lbs.

VOL. 20.0 in³



DESCRIPTION: The syntho-glass fiberglass tape is a densely woven and strong fiberglass tape with resin impregnated into the fiberglass cloth.

USE: Used for emergency repair needs as well as to seal cracks or holes below the waterline. It will retain internal pressure when used to repair hydraulic, water, fuel, exhaust or waste lines where operational pressure does not exceed 150 psi.

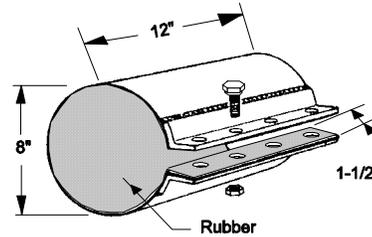
USE TIP: All of the tape must be used at one time. Wear rubber gloves/eye safety glasses during application. Cut and wet patch in water for 20 seconds.

REF: Pipe Patching Kit. Plastic Patch-Pipe Repair Kit.

PATCH - JUBILEE PIPE PATCHES

ASSY 1 one piece assy for pipe sizes 6";8" & 12"
WT. 2.0 lbs APPROX **VOL.** 768.0 in³

ASSY 2 two piece assy for pipe sizes 1/2";2";4";6";8" & 12"
WT. 2.5 lbs APPROX **VOL.** 432.0 in³



1HS0000-LL-CJ7-5897

DESCRIPTION: The jubilee pipe is a modified hose clamp. There are several sizes formed of sheet metal. Flanges stiffen the ends of the gaps and are drilled for 3-5 bolts to secure patch.

USE: Used to patch small holes/cracks in low pressure piping systems up to 100 PSI.

USE TIP: For storage purposes, place smaller patches inside the large ones. Up to five (5) small patches can be stowed inside the large patch. Manufactured by ship's force.

REF: NAVSEA Drawing No: 804-5959240..

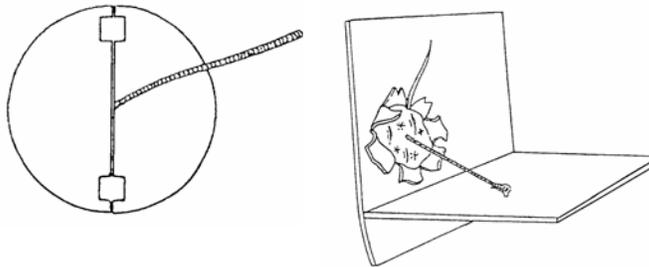
PATCH - PLATE PATCHES

SQUARE PLATE PATCHES:

- PATCH #1** (6" sq.) **WT.** 2.6 lbs
- PATCH #2** (12" sq.) **WT.** 10.3 lbs
- PATCH #3** (18" sq.) **WT.** 23.3 lbs
- PATCH #4** (24" sq.) **WT.** 41.3 lbs

FOLDING PLATE PATCHES:

- PATCH #1** (10" dia) **WT.** 7.6 lbs
- PATCH #2** (14" dia) **WT.** 13.9 lbs
- PATCH #3** (18" dia) **WT.** 21.9 lbs



1HS0000-LL-CJ7-5892

WT. Various **VOL.** Various

DESCRIPTION: Folding plate patches 18 inches or less in diameter.

USE: Used to make temporary repairs on holes in ship's structure where surface is relatively flat- exterior side of hull. Secured with T, J, L bolts.

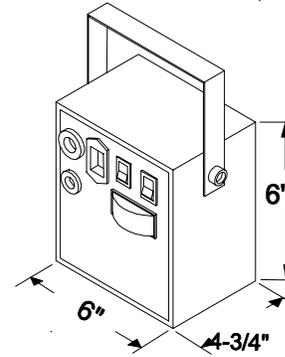
USE TIP: Larger plate patches can have an eye bolt welded to plate and lowered over the side and secured in place by welding for temporary repairs. Manufactured by ship's force.

REF: NAVSEA Drawing No. 804-5959239. Parent AEL.

PECU - BATTERY - PACKAGE WITH CHARGER

1H 0000-LL-CQA-2491

WT. 10.0 lbs. **VOL.** 200.7 in³



DESCRIPTION: Battery assembly designed specifically for use with the PECU.

USE: Used to provide power to ignite the fuel rod initially. The PECU requires only the use of a twelve volt battery, with a minimum of 100 amp output, to make cutting possible.

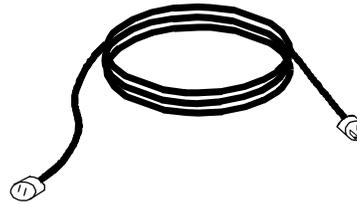
USE TIP: Do not use any torch that does not contain the mating connection with this battery assembly.
NOTE: When using a battery for ignition when cutting without power be sure to follow the manufacturer's recommended care and maintenance procedures.

REF: PECU Kit.

PECU - CABLE - BATTERY CHARGER

NSN 6150-01-323-2144

WT. 1.0 lbs. **VOL.** 196.0 in³



DESCRIPTION:

USE: Used to recharge the PECU battery.

USE TIP: Although an experienced operator can obtain 100 strikes or more from a fully charged battery assembly, the casual user can expect between 30 and 40 strikes before depleting the charge. If attempts to ignite a rod are continued, the battery will no longer readily ignite and the battery will be over-discharged. This will result in shorter battery life and a longer time to recharge, (up to 72 hours). The charger is designed not to harm the battery from over-charging if left on for up to a week continuously. However, for general safety purposes, the charger should be disconnected after the battery has charged for 72 hours. The battery will gradually lose its charge over a period of time, so to insure peak performance when needed, place the battery on charge 24 hours per week while inactive.

REF: PECU Kit.

PECU-CARRY CASE - ALUMINUM
(SPARE BOX KIT)

1H 0000-LL-CQA-2488

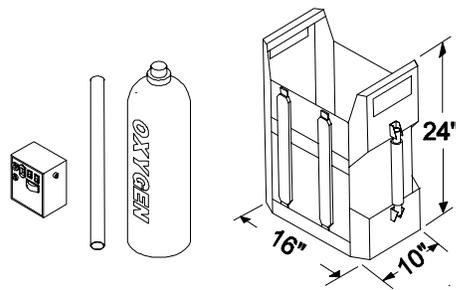
WT. 12.0 lbs. **VOL.** 4,000.0 in³

DESCRIPTION: Light weight red aluminum carrying case for the PECU.

USE: Used for radio deployment of the PECU.

USE TIP: Case is stenciled "PECU" in 2" letters.

REF: PECU Kit.



PECU-CARRY CASE - AUXILIARY CYLINDER

1H 0000-LL-CQA-2490

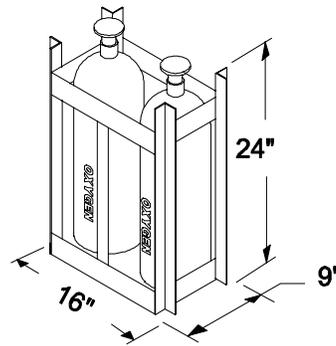
WT. 9.0 lbs. **VOL.** 3,564.0 in³

DESCRIPTION: Red aluminum framed carrying case.

USE: Contains two spare green oxygen cylinders, allowing them to be safely and easily transported to the damaged area.

USE TIP: Case is stenciled "PECU" in 2" letters.

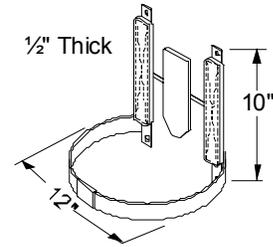
REF: PECU Kit.



PECU-CARRY HARNESS - BACKPACK

1H 0000-LL-CQA-2489

WT. 3.0 lbs. **VOL.** 60.0 in³



DESCRIPTION: The lightweight backpack can hold the torch, striker and 25 cutting rods. The backpack also can carry a 12 volt battery with integral charger, protective face shield, and a 40 ft³ oxygen bottle.

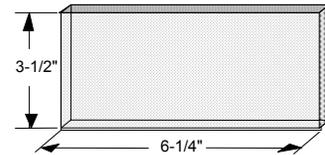
USE: Used to transport the PECU to the scene.

USE TIP: There is also room for an optional 6 ft. by 4 ft protective blanket. 25 inches x 18-1/8 inches x 8 inches.

REF: PECU Kit.

**PECU- OBA CLIP ON ADAPTER, MASK, WELDER
FILTER PLATE**

NSN: 4240-01-250-8263
4240-01-248-8021 – LENS, HELMET, WELDER
(SHADE 6) - QTY 1
4240-00-276-8941 - LENS, HELMET, WELDER
(RAYFOE FILTER SHADE 12) - QTY 2



WT. 0.1 lbs. **VOL.** 1.1 in³

DESCRIPTION: Adapter to enable welder mask to clip on to OBA

USE: Shaded lens fits OBA face piece.

USE TIP: Stowed with PECU or on OBA face piece.

REF: PECU Kit.

PECU-CYLINDER - OXYGEN 48 FT³

NSN 6830-01-333-3151 (FULL BOTTLE)
NSN 6830-01-333-3152 (REFILL GAS)
NSN 8120-01-326-6750 (EMPTY BOTTLE)

WT. 30.0 lbs. **VOL.** 962.0 in³

DESCRIPTION: Oxygen cylinder containing 48 ft³ of oxygen. Cylinder has no white marking.



USE: Used for supplying oxygen in PECU operations

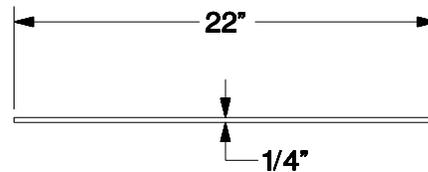
USE TIP: . To order cylinder only see empty bottle (above). To order oxygen only see refill gas (above). To order filled cylinder see full bottle (above). Don't drop. Keep away from flame or sparks.

REF: PECU Kit.

PECU-ELECTRODE, CUTTING T
1/4" x 22"

NSN 3439-01-325-7641

WT. 7.0 lbs. **VOL.** 143.8 in³
(Shipping box 2 1/2" x 1 1/2" x 23"L)



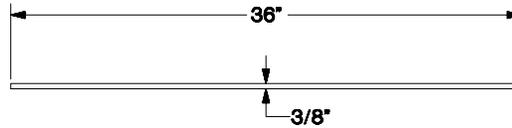
DESCRIPTION: Cutting rods constructed to provide the safest possible operation.

USE: Used in PECU operations for cutting and provides the proper oxygen balance to sustain the exothermic reaction.

USE TIP: These rods provide the most efficient cut. U/I box of 25 cutting electrodes.

REF: PECU Kit.

PECU-ELECTRODE, CUTTING, T
3/8" x 36"



NSN 3439-01-325-7642

WT. 34.0 lbs. **VOL.** 243.8 in³
(Shipping box 2½" x 2½" x 39"L)

DESCRIPTION: Electrode cutting rod constructed to provide the safest possible operation and the proper oxygen balance to sustain the exothermic reaction.

USE: Used when cutting/piercing though heavier plate and steel decks.

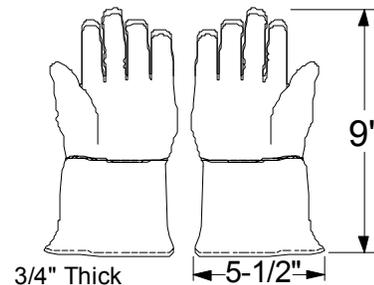
USE TIP: These rods provide the most efficient cut. Tremendous amounts of heat are released through combustion of the metal fuel rod in an oxygen atmosphere. U/I box of 25 cutting electrodes.

REF: PECU Kit.

PECU-GLOVES - WELDERS

1H 000-LL-CQA-2493 (SELECT SIZE)
NSN 8415-00-268-7860 SIZE MED
NSN 8415-00-268-7859 SIZE LRG

WT. 1.5 lbs **VOL.** 74.2 in³



DESCRIPTION: Heavy leather gloves.

USE: Used to protect users hands, wrists and arms during PECU operations.

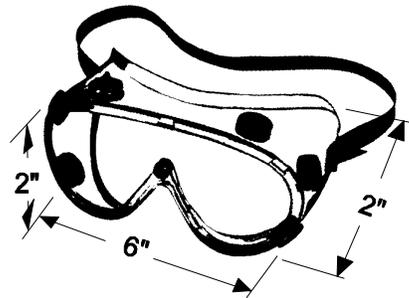
USE TIP: Limit use to welding in order to avoid unnecessary wear.

REF: PECU Kit.

PECU-GOGGLES - INDUSTRIAL

NSN 4240-00-203-3804

WT. 4.0 oz **VOL.** 45.0 in³



DESCRIPTION: Plastic glasses with large front and covered sides large enough to fit over regular eye glasses.

USE: Used as part of the PECU to provide eye protection during cutting/piercing operations.

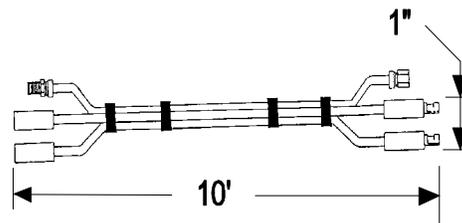
USE TIP: Goggles must be worn when cutting with the PECU equipment. When cutting with the PECU, use a number 5 or higher welding lens. *NOTE: When piercing use a shaded face shield or welding helmet.*

REF: PECU Kit.

PECU-HOSE-EXTENSION - CABLE/OXYGEN

1HM 0000-LL-CQA-2492

WT. 6.0 lbs. **VOL.** 120.0 in³



DESCRIPTION: Hose assembly between the oxygen cylinder and torch.

USE: Provides for the transfer of oxygen from the oxygen cylinder to the torch assembly.

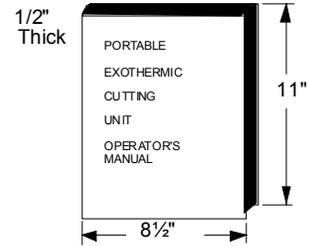
USE TIP: Use only for its intended purpose.

REF: PECU Kit.

PECU-MANUAL - OPERATORS

1HM 0000-LL-CQA-2500

WT. 1.5 lbs. **VOL.** 46.8 in³



DESCRIPTION: Manual with instructions for operating PECU.

USE: Provides specific warnings, cautions, and safety requirements for the safe operation of the PECU unit.

USE TIP: Manual S6290-AQ-MMC-010/09687

REF: PECU Kit.

PECU-PIERCING TORCH ASSEMBLY -

8" x 5" x 2"W

NSN 4240-01-323-1258 SHIELD, ARC VIEWING WT 0.4 lbs

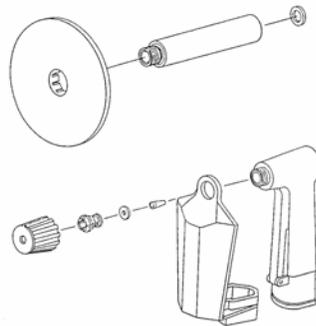
NSN 3433-01-321-3342 3/8" COLLET, WT 0.5 lbs.

NSN 3460-01-321-9161 3/8" NUT COLLET, WT 0.5 lbs.

NSN 4933-01-325-6683 SHIELD, SAFETY, RECUP, 0.8 lbs.

NSN 3433-01-321-4195 EXTENSION, COLLET, WT 2.0 lbs.

WT. 4.2 lbs. **VOL.** 51.0 in³



DESCRIPTION: Unlike any other cutting technology used today, the Portable Exothermic Cutting Unit (PECU) can cut, burn, melt or vaporize virtually any metallic, non-metallic or composite material. The PECU uses a special torch that supplies oxygen and power to the exothermic cutting rod. A spark from the striker assembly is all that is needed to ignite the rod.

USE: Used to cut metal.

USE TIP: If the PECU is used with a welding machine while working with conductive materials, the cutting rod produces over 10,000° F. But even without current, it still produces temperatures hot enough to melt stainless steel.

The collet chuck and the collet nut assembly secures the cutting rod to the hand held torch assembly. The piercing torch shield provides protection of the hands from slag during normal cutting operations.

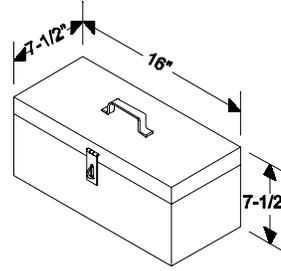
The collet nut extension and shield should be used for all piercing operations. It will enhance torch life and provides greater operator comfort and safety.

REF: PECU Kit.

PECU-SPARE PARTS PACKAGE

1H 0000-LL-CQA-PECU

WT. 13.0 lbs. **VOL.** 900.0 in³



DESCRIPTION: Carrying case with spare parts.

USE: Used to provide spare parts for PECU.

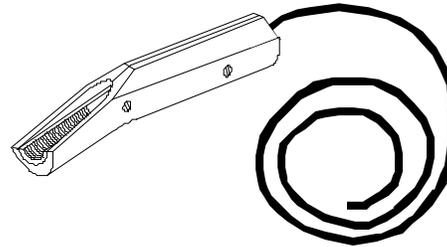
USE TIP: Part of initial outfitting.

REF: PECU Kit.

PECU-STRIKER-ASSEMBLY - WITH CABLE

1HM 0000-LL-CQA-2486

WT. 4.0 lbs. **VOL.** 27.0 in³



DESCRIPTION: Assembly consisting of striker with serrated surface, cable and battery.

USE: Used to provide a starting spark for the PECU.

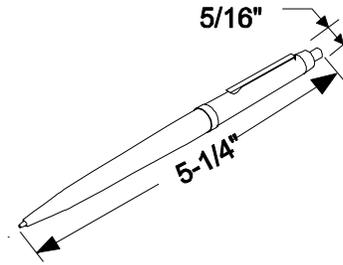
USE TIP: To be used only with a 12 volt battery. To use, strike the cutting rod on the striker by touching the cutting rod to the exposed serrated metal surface on the striker. At the same time rotate your wrist and use a slight back and forth motion against the serrated surface. This technique allows for the most rapid ignition of the rod and increases the number of strikes between battery charges. The resulting arc will ignite the cutting rod.

REF: PECU Kit.

PEN - BALL POINT

NSN 7520-00-935-7136

WT. 0.5 oz **VOL.** 0.6 in³



DESCRIPTION: Ball point pen with black ink.

USE: Used to record messages/notes and mark wooden shoring for cutting.

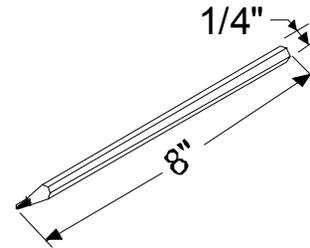
USE TIP: Pencils may also be used to write messages.

REF: Sounding Kit. Investigator Kit.

PENCIL - CARPENTERS

NSN 7510-00-275-7213

WT. 0.5 oz **VOL.** 0.5 in³



DESCRIPTION: Wide, flat pencil containing soft pencil lead.

USE: Used to mark lumber shores to be cut to size.

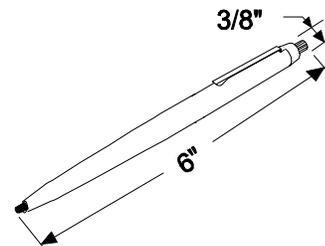
USE TIP: Use only to mark lumber in order to avoid unnecessary wear.

REF: Shoring Tool Kit.

PENCIL - CHINA MARKER BLACK

NSN 7510-00-240-1526

WT. 0.5 oz **VOL.** 0.6 in³



DESCRIPTION: Pen-like housing with wax type marker.

USE: Used to plot data during emergencies on damage control diagrams at damage control stations.

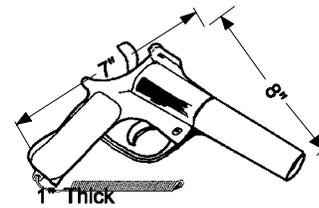
USE TIP: Can easily mark plastic or other surfaces in a wet environment.

REF: Monitoring Team, CBR Kit.

PISTOL - PYRO AN/M8

NSN 1095-00-726-5820

WT. 2.0 lbs. **VOL.** 84.0 in³



DESCRIPTION: Also known as a flare gun.

USE: Used in rescue and assistance operations off the ship.

USE TIP: Six spare flares should be stowed with the pistol.

REF: Rescue and Assistance Kit.

**PLASTIC PIPE PATCHING-CHALK LINE -
100 FT. REEL**

NSN 4020-00-243-3152

WT. 0.5 lbs. **VOL.** 5.5 in³



DESCRIPTION: Coiled string in a housing containing powdered chalk.

USE: Wrapped around the PVC film to hold the patch together while curing (30/40 minutes).

USE TIP: Chalk is available in various colors.

REF: Plastic Patch - Pipe Repair Kit.

**PLASTIC PIPE PATCHING
ABRASIVE CLOTH**

NSN 5350-00-192-5047

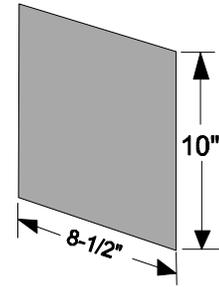
WT. 1.0 oz **VOL.** 5.5 in³

DESCRIPTION: Abrasive cloth size 8" x 36"

USE: Used to smooth metal surfaces and edges.

USE TIP: Cloth-woven roving size 10" x 14"; void cover size 8" x 36"; film-polyvinylchloride size 30" x 73".

REF: Plastic Patch - Pipe Repair Kit.



**PLASTIC PIPE PATCHING - CLOTH -
GLASS WOVEN, ROVING**

1HS0000-LL-CE6-7634

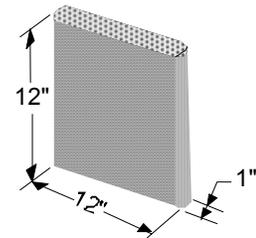
WT. 10.0 oz **VOL.** 144.0 in³

DESCRIPTION: Woven roving – fiberglass cloth.

USE: Used in plastic patch - pipe repair to provide the principle strength for the plastic soft patch.

USE TIP: Place over void cover and extend 3 inches beyond void cover edges. Wrap cloth around void cover at least 3-4 times. Wrap entire patch in PVC film extending this beyond the woven cloth.

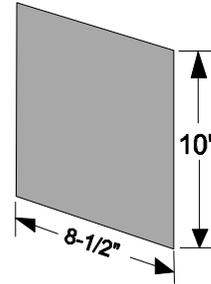
REF: Plastic Patch - Pipe Repair Kit.



PLASTIC PIPE PATCHING-COVER - VOID

1HS0000-LL-CE6-7636

WT. 1.0 oz **VOL.** 5.3 in³



DESCRIPTION: A resin treated glass cloth.

USE: Used in plastic patch and pipe repair procedures as primary strength/shape covering splits or cracks in pipes, to support the patching material (resin/hardener).

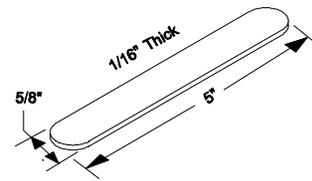
USE TIP: Extend 1 inch beyond the rupture.

REF: Plastic Patch - Pipe Repair Kit.

PLASTIC PIPE PATCHING-DEPRESSOR - TONGUE

NSN 6515-00-324-5500

WT. 1.0 oz. **VOL.** 0.2 in³



DESCRIPTION: Flat, oblong wood stick with rounded ends.

USE: Used to mix and spread activated resin.

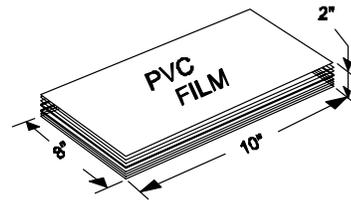
USE TIP: Dispose of properly after use.

REF: Plastic Patch - Pipe Repair Kit.

**PLASTIC PIPE PATCHING-FILM -
POLYVINYLCHLORIDE**

1HS0000-LL-CE6-7637

WT. 3.0 **VOL.** 160.0 in³



DESCRIPTION: Polyvinylchloride film (plastic), size 30" x 73".

USE: Used in plastic patch - pipe repair to retain resin/hardener to form patch cover. In making a flat patch, it is used between the patch and strongback.

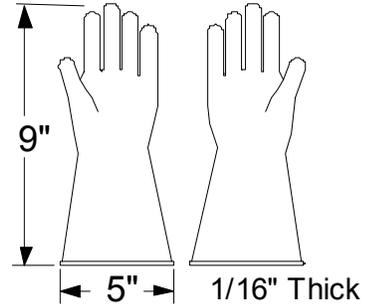
USE TIP: Prevents the strongback from adhering to the patch.

REF: Plastic Patch - Pipe Repair Kit.

PLASTIC PIPE PATCHING-GLOVES -
POLYETHYLENE FILM
SIZE 10 OR 11 LARGE

1HS0000-LL-CE6-7638
(PAIR)

WT. 3.0 oz **VOL.** 4.4 in³



DESCRIPTION: Gloves made of polyethylene film.

USE: Used in plastic patch and pipe repair.

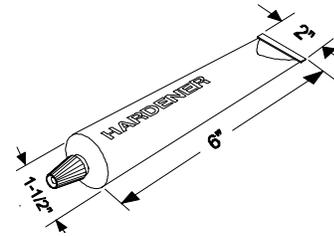
USE TIP: Protects hands from activated resin burns.

REF: Plastic Patch - Pipe Repair Kit.

PLASTIC PIPE PATCHING-HARDENER – PASTE KIT 2

1HS0000-LL-CE6-7640

WT. 6.0 oz **VOL.** 21.2 in³



DESCRIPTION: Tube of hardener paste.

USE: Used in plastic pipe repair operations.

USE TIP: Squeeze tube gradually to avoid waste.

REF: Plastic Patch - Pipe Repair Kit.

PLASTIC PIPE PATCHING-HARDENER - LIQUID

1HS0000-LL-CE6-7639

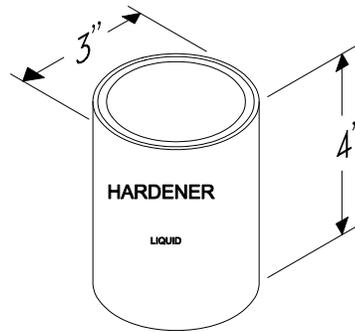
WT. 10.0 oz **VOL.** 28.3 in³

DESCRIPTION: Can of liquid hardener.

USE: Used in plastic pipe repair operations.

USE TIP: Shelf life is two years. Replacement hardener and resin are available as an adhesive under NSN 9Z 8040-00-543-4067.

REF: Plastic Patch - Pipe Repair Kit.



PLASTIC PIPE PATCHING-RESIN - LIQUID
400 GRAMS PER CAN

1HS0000-LL-CE6-7641

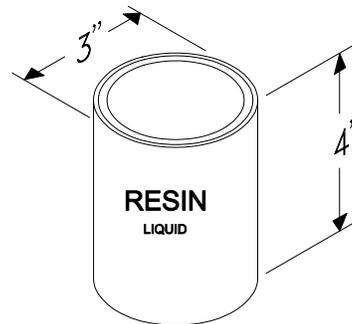
WT. 14.0 oz **VOL.** 36.0 in³

DESCRIPTION: Can of liquid resin. Basic epoxy used to form a liquid pipe patch.

USE: Used in plastic pipe patching operations.

USE TIP: Shelf life is two years. Replacement hardener and resin are available as an adhesive under NSN 9Z 8040-00-543-4067.

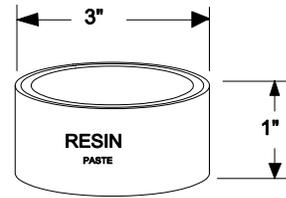
REF: Plastic Patch - Pipe Repair Kit.



PLASTIC PIPE PATCHING-RESIN - PASTE KIT 2
75 GRAMS PER CAN

1HS0000-LL-CE6-7642

WT. 6.0 oz **VOL.** 9.0 in³



DESCRIPTION: Paste epoxy used to patch small holes or cracks.

USE: Used in plastic pipe patching operations.

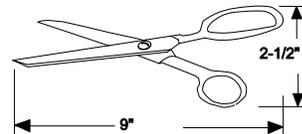
USE TIP: Shelf life is two years. Replacement hardener and resin are available as an adhesive under NSN 9Z 8040-00-543-4067.

REF: Plastic Patch - Pipe Repair Kit.

PLASTIC PIPE PATCHING-SHEARS -
STRAIGHT TRIM

NSN 5110-00-161-6912

WT. 0.3 lbs **VOL.** 5.6 in³



DESCRIPTION: Standard office scissors.

USE: Used to cut woven roving-fiberglass material for plastic patch and pipe repair in emergencies.

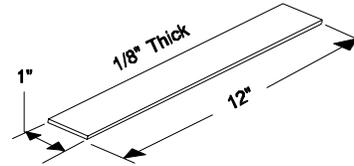
USE TIP: Stow in a closed position.

REF: Plastic Patch - Pipe Repair Kit.

PLASTIC PIPE PATCHING-SPATULA – WOOD KIT 2.

1HS0000-LL-CE6-7643

WT. 0.5 oz **VOL.** 0.7 in³



DESCRIPTION: Flat, oblong wooden stick.

USE: Used to mix resin and hardener.

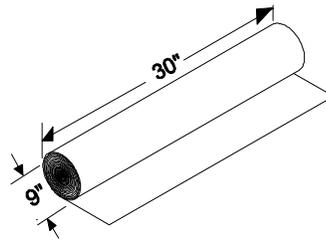
USE TIP: Also used to spread activated resin on woven roving cloth.

REF: Plastic Patch - Pipe Repair Kit.

**PLASTIC SHEET -
ROLLED 30" WIDE - 9" SPOOL**

NSN 8135-00-579-6487

WT. 70.0 lbs **VOL.** 1,908.5 in³



DESCRIPTION: Sheet of plastic.

USE: Used in CPS repair to reinstate integrity of the ship's CPS zone(s) by providing a temporary cover over cracks in the hull/superstructure.

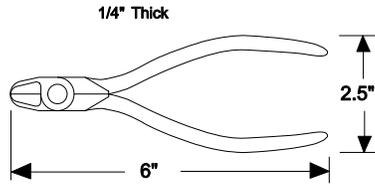
USE TIP: Also used to cover warped doors to reinstate integrity of the ship's CPS zone(s).

REF: Collective Protection System (CPS) Repair Kit.

PLIERS - DIAGONAL CUTTING 6"

NSN 5110-00-239-8253

WT. 5.0 oz **VOL.** 3.7 in³



DESCRIPTION: Regular nose, diagonal-cutting pliers. Cutting edges have an angle of approximately 15° w/plane of handle.

USE: Used for cutting wire and cotter pins close to flat surfaces.

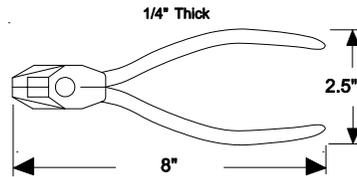
USE TIP: All metal tools shall be insulated to prevent electrical shock IAW NSTM 300.

REF: Electrical Repair Kit.

PLIERS - LINEMAN 8"

NSN 5120-00-239-8251

WT. 7.0 oz **VOL.** 5.0 in³



DESCRIPTION: Lineman's pliers (without wire skinner); plain handle.

USE: For heavy-duty cutting and handling wire.

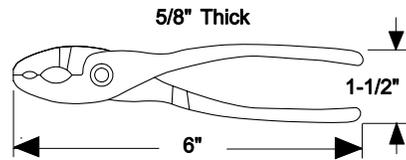
USE TIP: All metal tools shall be insulated to prevent electrical shock IAW NSTM 300.

REF: Electrical Repair Kit.

PLIERS - SLIP JOINT 6"

NSN 5120-00-223-7396

WT. 6.0 oz **VOL.** 5.6 in³



DESCRIPTION: Straight nose combination jaw with wire cutter, slightly curved, toothed jaws, and a hinge that can be "slipped" to make the jaw opening wide or narrow.

USE: Used for DC PMS maintenance.

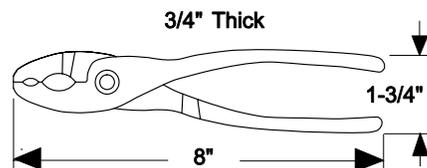
USE TIP: All metal tools shall be insulated to prevent electrical shock IAW NSTM 300.

REF: Damage Control Petty Officer (DCPO) Kit.

PLIERS - SLIP JOINT 8"

NSN 5120-00-240-6217

WT. 8.0 oz **VOL.** 10.5 in³



DESCRIPTION: Straight nose combination jaw with wire cutter, slightly curved, toothed jaws, and a hinge that can be "slipped" to make the jaw opening wide or narrow.

USE: Used for general DC maintenance.

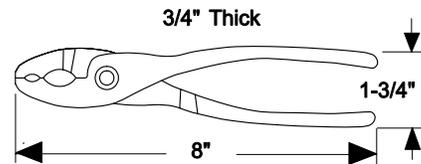
USE TIP: All metal tools shall be insulated to prevent electrical shock IAW NSTM 300.

REF: Damage Control Petty Officer (DCPO) Kit.

PLIERS - SLIP JOINT 8"

NSN 5120-00-223-7397

WT. 8.0 oz **VOL.** 10.5 in³



DESCRIPTION: Straight nose; combination jaw with cutter.

USE: Used in electrical repair works.

USE TIP: All metal tools shall be insulated to prevent electrical shock IAW NSTM 300.

REF: Electrical Repair Kit.

PLUG - WOOD, TAPERED

1" x 0" DIA x 3"

NSN 5510-00-260-8953

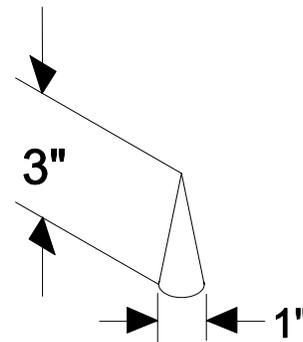
WT. 1.0 oz **VOL.** 0.7 in³

DESCRIPTION: Tapered, conical plug made of soft wood.

USE: Used in patching/plugging operations.

USE TIP: For low pressure lines select a plug of soft wood such as soft fir of the proper size, cover with cloth and drive into pipe to keep the pipe from backing out under pressure.

REF: NAVSEA Drawing No. 803-5184291. Pipe Patching Kit. Plugging Kit.



PLUG - WOOD, TAPERED
2" x 0" DIA x 4"

NSN 5510-00-260-8958

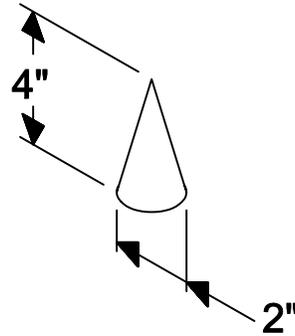
WT. 0.1 lbs **VOL.** 4.2 in³

DESCRIPTION: Tapered, conical plug made of soft wood.

USE: Used in patching/plugging operations.

USE TIP: For low pressure lines select a plug of soft wood such as soft fir of the proper size, cover with cloth and drive into pipe to keep the pipe from backing out under pressure.

REF: NAVSEA Drawing No. 8035184291. Pipe Patching Kit. Plugging Kit.



PLUG - WOOD, TAPERED
3" x 0" DIA x 8"

NSN 5510-00-260-8962

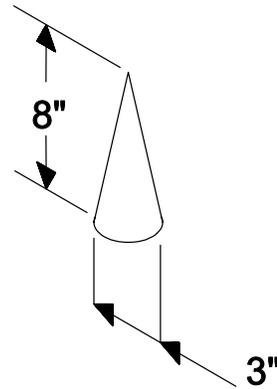
WT. 0.4 lbs **VOL.** 18.8 in³

DESCRIPTION: Tapered, conical plug made of soft wood.

USE: Used in patching/plugging operations.

USE TIP: For low pressure lines select a plug of soft wood such as soft fir of the proper size, cover with cloth and drive into pipe to keep the pipe from backing out under pressure.

REF: NAVSEA Drawing No. 8035184291. Pipe Patching Kit. Plugging Kit.



PLUG - WOOD, TAPERED
5" x 1" DIA x 10"

NSN 5510-00-260-8966

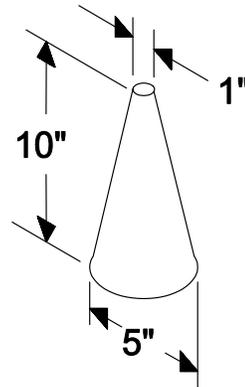
WT. 1.9 lbs **VOL.** 50.0 in³

DESCRIPTION: Tapered, conical plug made of soft wood.

USE: Used in patching/plugging operations.

USE TIP: For low pressure lines select a plug of soft wood such as soft fir of the proper size, cover with cloth and drive into pipe to keep the pipe from backing out under pressure.

REF: NAVSEA Drawing No. 8035184291. Plugging Kit.



PLUG - WOOD, TAPERED
7" x 3" DIA x 10"

NSN 5510-00-260-8969

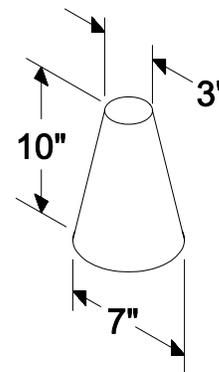
WT. 4.8 lbs **VOL.** 206.8 in³

DESCRIPTION: Tapered, conical plug made of soft wood.

USE: Used in patching/plugging operations.

USE TIP: For low pressure lines select a plug of soft wood such as soft fir of the proper size, cover with cloth and drive into pipe to keep the pipe from backing out under pressure.

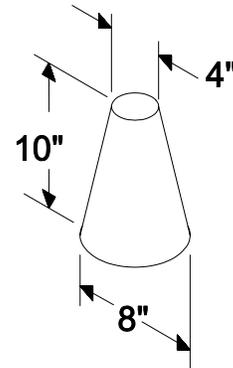
REF: NAVSEA Drawing No. 8035184291. Plugging Kit.



PLUG - WOOD, TAPERED
8" x 4" DIA x 10"

NSN 5510-00-260-8973

WT. 6.8 lbs **VOL.** 293.2 in³



DESCRIPTION: Tapered, conical plug made of soft wood.

USE: Used in patching/plugging operations.

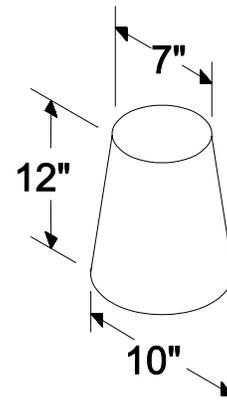
USE TIP: For low pressure lines select a plug of soft wood such as soft fir of the proper size, cover with cloth and drive into pipe to keep the pipe from backing out under pressure.

REF: NAVSEA Drawing No. 8035184291. Plugging Kit.

PLUG - WOOD, TAPERED
10" x 7" DIA x 12"

NSN 5510-00-260-8949

WT. 15.9 lbs **VOL.** 688.0 in³



DESCRIPTION: Tapered, conical plug made of soft wood.

USE: Used in patching/plugging operations.

USE TIP: For low pressure lines select a plug of soft wood such as soft fir of the proper size, cover with cloth and drive into pipe to keep the pipe from backing out under pressure.

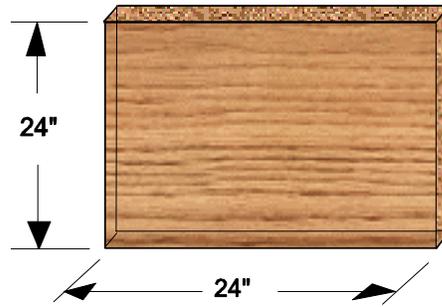
REF: NAVSEA Drawing No. 8035184291. Pipe Patching Kit. Plugging Kit.

PLYWOOD

AA EXTERIOR - 96" x 48"

NSN 5530-00-129-7749 (3/8" x 24" x 24") illustrated
NSN 5530-00-129-7833 (3/4" x 18" x 18")

WT. 35.0 lbs **VOL.** 1,728.0 in³ - 3/8"
WT. 70.0 lbs **VOL.** 3,456.0 in³ - 3/4"



DESCRIPTION: AA exterior grade plywood cut from 96" x 48" sheets.

USE: 3/8" is used for patches. Patch size generally will not exceed 24" x 24" or 8 patches total stowed in Repair 2 or UPL. 3/4" is used for backing plate doubler plates.

USE TIP: One sheet will provide 14 each 12" x 12" and 8 each 18" x 18" backing plate doubler plates.

REF: Shoring Supplement/GRP Repair Kit.

**POLE - MAN OVERBOARD
RESCUE**

NSN 2050-01-414-4583

WT. lbs **VOL.** in³

DESCRIPTION: Long telescoping pole.

USE: Extended outboard by deckhand to reach man overboard in rescue operations.

USE TIP: Two per ship. Stowage to be determined by the First Lieutenant.

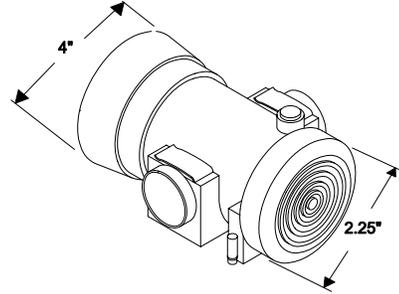
REF: Safety Survivability/ NDI equipment.



PP-AUDIO PROJECTION VOICE AMPLIFIER

NSN 5830-01-350-6428

WT. 2.3 lbs. **VOL.** 50.0 in³



DESCRIPTION: Portable, light weight, battery operated (one 9 volt) device which amplifies the voice and greatly reduces the attenuation and distortion of the voice when the OBA/SCBA face mask is worn. Easily maintained unit fits on the OBA/SCBA mask. Most of the weight is placed behind the hoses and close to the mask to minimize torque and vision impairment. It has a voice operated switch (VOX), a battery test circuit, two LED indicators for immediate low battery indication and on/off condition.

USE: Used to provide local area speech projection for the OBA/SCBA.

USE TIP: If the voice amplifiers are exposed to water, post maintenance shall include: opening the battery box and allowing the unit to air dry in a low humidity atmosphere for 3 to 4 hours.

REF:

- OBA/SCBA - AV-2000 Face Piece.
- MCU 2A/P - CBR mask. NSN 5830-01-364-4593.
- EAB mask - 5830-LL-HB5-0675, Part No. B181060.

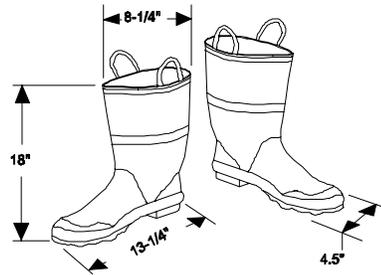
Each type voice amp has a different mounting bracket.

PP-BOOTS - FIREMAN

- 1H 0000-LL-CJ6-8462** SELECT SIZE
- NSN 8430-00-753-5935** SIZE 05
- NSN 8430-00-753-5936** SIZE 06
- NSN 8430-00-753-5937** SIZE 07
- NSN 8430-00-753-5938** SIZE 08
- NSN 8430-00-753-5939** SIZE 09
- NSN 8430-00-753-5940** SIZE 10
- NSN 8430-00-753-5941** SIZE 11
- NSN 8430-00-753-5942** SIZE 12
- NSN 8430-00-753-5943** SIZE 13
- NSN 8430-00-753-5944** SIZE 14
- NSN 8430-00-753-5945** SIZE 15

(PAIR)

WT. 6.7 lbs **VOL.** 3,935.2 in³



DESCRIPTION: The boots have steel safety toes and puncture proof steel insoles. The boots are worn under the FFE coverall and on the outside of the blue fire retardant coverall.

USE: Used to protect the feet, ankles, and lower legs of repair party personnel who participate in fire fighting, electrical repair, and damage control work. Worn by personnel who participate in fire fighting and damage control work.

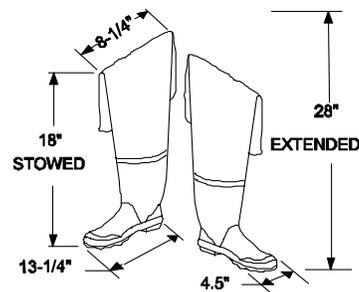
USE TIP: When wearing boots in flooded compartments, they will accumulate between 5-7 lbs of water which reduces mobility. Therefore, drain boots upon exiting flooded space.

REF: Parent AEL.

PP-BOOTS - HIP

- NSN 8430-00-147-1036** SIZE 10
- NSN 8430-00-147-1038** SIZE 12

WT. 8.0 lbs **VOL.** 3,935.2 in³



DESCRIPTION: Waterproof boots which provide protection

USE: Used in damage control emergencies involving dewatering, and fire fighting operations where fire fighters must work in compartments flooded with hot or boiling water.

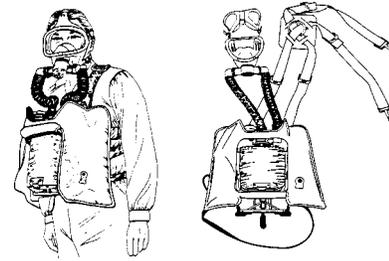
USE TIP: Hip boots may also be worn over the fire fighter's coveralls.

REF: Parent AEL.

PP-BREATHING APPARATUS - OBA A-4

NSN 4240-01-297-5986

WT. 15.5 lbs **VOL.** 3,366.0 in³



DESCRIPTION: Self-contained, closed-circuit device which generates oxygen by chemicals in a green canister, independent of the surrounding atmosphere. Consists of a body harness and pad, facepiece, valve assembly, breathing tubes, breathing tube couplings, a plunger, a breathing bag, a pressure relief valve and pull tab, a bail assembly handle in standby position, a breast plate, a timer, a waist strap, a canister and a canister release strap. PP-COVER-LENS for OBA face piece (NSN 4240-01-052-9901).

USE: Used by damage control repair party personnel to enable them to work in atmospheres that are either toxic, oxygen deficient or smoke filled.

USE TIP: The effective time limit of the oxygen supply is 45 minutes plus. The OBA timer may be set for 30 minutes.

REF: Parent AEL.

PP-BREATHING APPARATUS, SELF-CONTAINED (SCBA)

NSN 4240-01-486-1946 SCBA (30 MIN)
NSN 4240-01-486-1939 SCBA CYLINDER (30 MINUTE SPARE CYLINDER)
NSN 4240-01-449-3106 SCBA FACEPIECE SZ SML
NSN 4240-01-449-3120 SCBA FACEPIECE SZ X-LRG

WT. TBD **VOL.** TBD

DESCRIPTION: The SCBA Damage Control/Firefighting (DC/FF) shipboard equipment is the replacement for the current Oxygen Breathing Apparatus (OBA). It consists of a composite cylinder for high pressure (4,500 psi) air storage and regulators to reduce air pressure to useable levels. Air is provided to the user at above ambient pressure to provide a positive pressure in the facepiece and prevent hazardous gases from entering.

USE: The SCBA provides the firefighter with air for breathing while in a fire or another hazardous environment.

USE TIP: The SCBA can be recharged in one minute using the quick-fill connection. The quick-fill consists of a quick disconnect and manifold, which transfers air from the Air Booster Pump Assembly (ABPA) and automatically stops when cylinder pressure equals the ABPA set point of 4,500 psig.

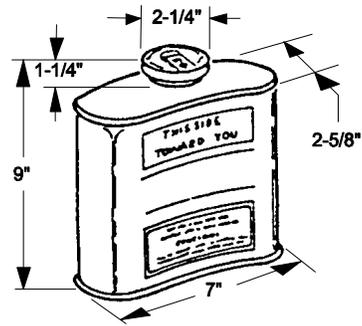
REF: TBD.

**PP-CANISTER - OXYGEN GENERATOR
(GREEN)**

NSN 4240-00-174-1365

(BOX OF 6 CANISTERS)

WT. 4.0 lbs **VOL.** 178.1 in³



DESCRIPTION: Quick starting (self activating) canister containing chemicals which generate oxygen for breathing and removing CO² and water vapor from the exhaled air. The canister is green in color and also contains an oxygen generating candle for quick starting.

USE: Each container shall have incorporated in and on the canister bottom, one oxygen candle capable of supplying oxygen at the beginning of use of the canister and at the end of the useful life of the canister.

USE TIP: Used with the OBA NSN 4240-00-270-4515.

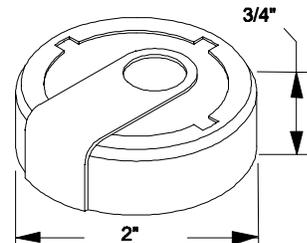
REF: Parent AEL.

PP-CAP OBA CANISTER -

NSN 4240-00-089-7963

(10 CAPS PER BOX)

WT. 0.5 lbs **VOL.** 23.5 in³



DESCRIPTION: Tear-off pulls, 10 per carton.

USE: Used to cover canisters.

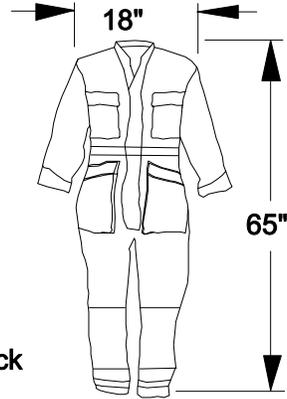
USE TIP: Also used to protect foil from puncture once original metal cap is removed.

REF: Mine Safety Appliance Co. Ref No. 454076. Parent AEL.

PP-COVERALLS - FIRE RETARDANT

MENS

- 1H 0000-LL-CJA-1091** (SELECT SIZE)
- NSN 8405-01-286-6336** SIZE 36S
- NSN 8405-01-286-6337** SIZE 36R
- NSN 8405-01-286-6338** SIZE 38S
- NSN 8405-01-286-6339** SIZE 38R
- NSN 8405-01-286-6340** SIZE 38L
- NSN 8405-01-286-6341** SIZE 40S
- NSN 8405-01-286-6342** SIZE 40R
- NSN 8405-01-286-6343** SIZE 40L
- NSN 8405-01-286-6344** SIZE 42S
- NSN 8405-01-286-6345** SIZE 42R
- NSN 8405-01-286-6346** SIZE 42L
- NSN 8405-01-286-6347** SIZE 44S
- NSN 8405-01-286-6348** SIZE 44R
- NSN 8405-01-286-6349** SIZE 44L



1/8" Thick

- NSN 8405-01-286-6350** SIZE 46S
- NSN 8405-01-286-6351** SIZE 46R
- NSN 8405-01-286-6352** SIZE 46L
- NSN 8405-01-286-6353** SIZE 48R
- NSN 8405-01-286-6354** SIZE 48L

WT. AVG 1.0 LB **VOL.** AVG 108.0 in³ (FOLDED 18"X12"X½")

DESCRIPTION: Blue engineer's coveralls. These are the same coveralls used by engineering personnel.

USE: Used to protect personnel from the immediate threat of injury from short duration flame (flash) exposure. Worn as an extra layer of protection over battle dress by fire party personnel. Also worn by all DC team members in DC emergencies and by all damage control repair station personnel not wearing the fire fighters ensemble suit in fire fighting evolutions. The coveralls should also be the standard uniform for quick response fire teams.

USE TIP: Coveralls must be clearly marked to avoid usage for other purposes. "DC" and the repair station number should be stenciled in red on the back of each coverall with minimum 3-inch letters.

REF: Parent AEL.

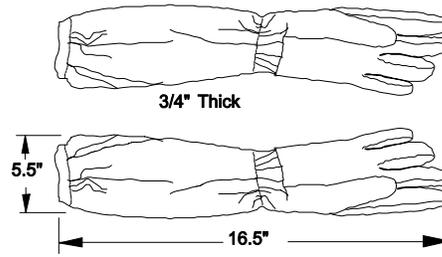
PP-GLOVES - ANTIFLASH

NSN 8415-01-267-9661

(PAIR)

WT. 1.0 oz

VOL. 11.3 in³



DESCRIPTION: The gloves are made from fire retardant cotton and one size fits all. Features a long gauntlet with elastic closures at wrist and elbow.

USE: Used to protect personnel from immediate threat of injury from short duration flame (flash) exposure and are worn at battle dress stations as part of GQ gear.

USE TIP: Companion item to hood, anti-flash.

REF: Parent AEL.

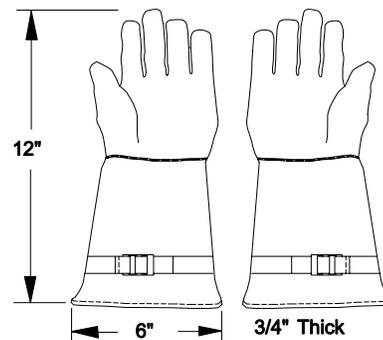
PP-GLOVES - FIREMAN

- 1HM0000-LL-CQA-2201** SELECT SIZE
- NSN 8415-01-421-1368** SIZE SML
- NSN 8415-01-421-1371** SIZE MED
- NSN 8415-01-421-1373** SIZE LRG
- NSN 8415-01-421-1375** SIZE X-LRG
- NSN 8415-01-421-1376** SIZE XX-LRG

(PAIR)

WT. 2.0 lbs.

VOL. 108.0 in³



DESCRIPTION: The five fingered leather gauntlet glove is a Gunn-cut design that has a waterproof vapor barrier and fire retardant liner.

USE: Used to protect fire fighter's hands and wrists against abrasions, short duration flame (flash) exposure and heat.

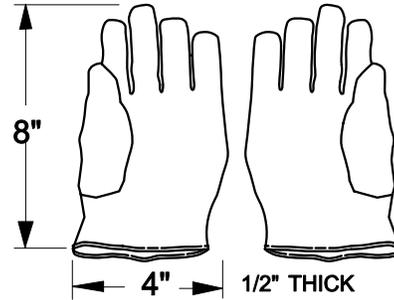
USE TIP: One set of Fireman's Gloves for each OBA/SCBA in DCRS.

REF: Firefighting/Access Personnel Kit.

PP-GLOVES - CLOTH

NSN 8415-00-268-8330
(PAIR)

WT. 1.5 oz **VOL.** 32.0 in³



DESCRIPTION: Cotton flannel work gloves with knitted wristlets. Natural color.

USE: Used when performing general equipment maintenance.

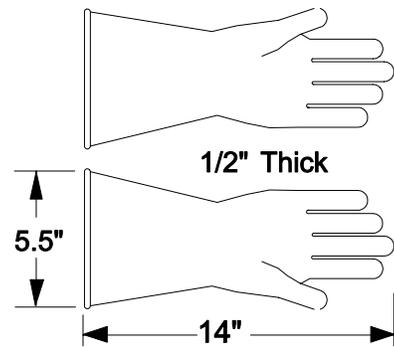
USE TIP: Do not use when finger dexterity is required.

REF: Damage Control Petty Officer (DCPO) Kit.

PP-GLOVES – Electrical
7500 VOLT RESISTANCE

NSN 8415-01-158-9450
(PAIR)

WT. 1.0 lb **VOL.** 77.0 in³



DESCRIPTION: Rubber gloves which feature a gauntlet cuff.

USE: Used by repair party electrician in DC emergencies.

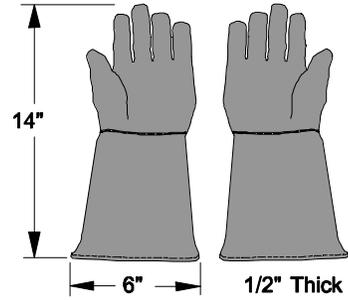
USE TIP: Ensure gloves are properly PMS'd and that talc powder is available to expedite donning the gloves.

REF: ASTM Document D-120-79A. Electrical Repair Kit.

PP-GLOVES - SHELL ELECTRICAL

NSN 8415-00-264-3618
(PAIR)

WT. 1.5 lbs **VOL.** 84.0 in³



DESCRIPTION: Rubber gloves which feature a gauntlet cuff.

USE: Used by the repair party electricians as an outer glove.

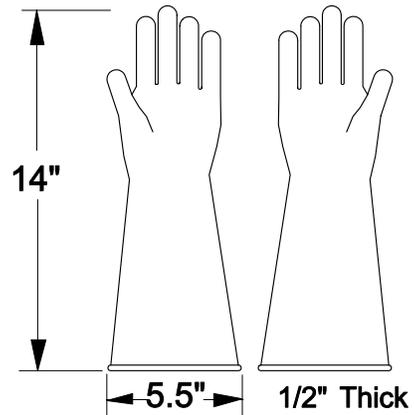
USE TIP: Intended to prevent puncture of the inner rubber glove.

REF: Electrical Repair Kit.

PP-GLOVES - TOXICOLOGICAL
PROTECTIVE 14" LENGTH

1HM0000-LL-CQA-5023 SELECT SIZE
NSN 8415-00-753-6552 SIZE MED
NSN 8415-00-753-6553 SIZE LRG
NSN 8415-00-753-6554 SIZE X-LRG
(PAIR)

WT. 1.0 lbs **VOL.** 77.0 in³



DESCRIPTION: Black impermeable butyl rubber gloves. Features a gauntlet cuff with rolled edges and without closure ring. Type M2, ND and M3. 14 inches long.

USE: Used for handling solvents used in PMS.

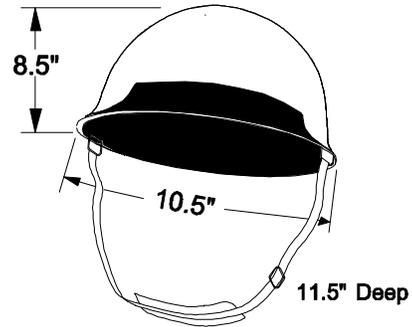
USE TIP: Back side of gloves marked "GLOVES, TOXICOLOGICAL AGENTS PROTECTIVE".

REF: Damage Control Petty Officer (DCPO) Kit.

PP-HELMET - BATTLE

1HS0000-LL-CJ7-5888

WT. 3.0 lbs **VOL.** 1,025.4 in³



DESCRIPTION: Composed of a steel shell and plastic liner.

USE: Used to protect the wearer against head injuries caused by falls and impacting objects.

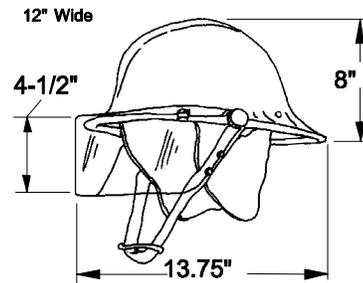
USE TIP: The MK I steel helmet is being phased out and replaced by the MK V, Mod 0 Battle Helmet for battle station personnel and the fireman's helmet for repair party personnel.

REF: Parent AEL.

PP-HELMET - FIREMAN

NSN 8415-01-271-8069

WT. 2.9 lbs **VOL.** 1,320.0 in³



DESCRIPTION: Consists of a shell, faceshield, suspension system, chin strap and antflash hood.

USE: Used to provide head, neck and face protection to repair party personnel. The fire fighter's helmet is intended for use in fighting below-deck fires onboard ships.

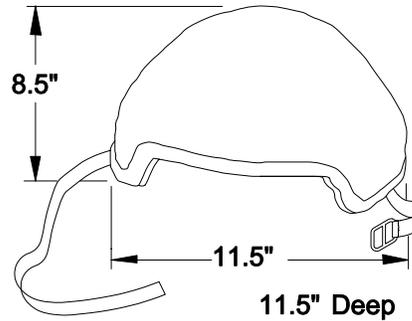
USE TIP: The helmet is worn in conjunction with Fireman's Coveralls, Firemen's Gloves, Fireman's Boots and Fireman's Hood.

REF: Firefighting/Access Personnel Kit.

PP-HELMET - PHONE TALKER
MARK 4 MOD 0

NSN 8470-01-127-7337

WT. 4.0 lbs. **VOL.** 1,124.0 in³



DESCRIPTION: Composed of a steel shell and plastic liner.

USE: Used to protect the wearer against head injuries while wearing phone talker equipment.

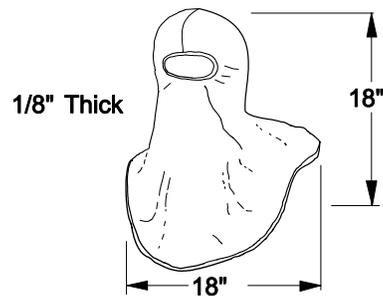
USE TIP: Tighten strap to a comfortable, secure fit.

REF: Parent AEL.

**PP-HOOD – ANTIFLASH,
FLAME RESISTANT**

NSN 4210-01-493-4694

WT. 2.0 oz **VOL.** 20.2 in³



DESCRIPTION: Hood which provides protection to the head, neck, and face (except eyes), and one size fits all.

The new GQ anti-flash hood can be identified by its straight tube shape and **gray heather** color. This hood is manufactured from two layers of Kevlar/FR Rayon. It is considerably more durable and costs less than the previous brown colored anti-flash hood. This new GQ anti-flash hood is a phased replacement of the current anti-flash hood. The existing anti-flash hood (brown color) can still be worn for GQ until stock is depleted.

USE: Used to protect personnel from transient, elevated air temperatures resulting from the use of high explosive weapons and from burns caused by fire. It is designed to protect personnel from flash fire and is used in conjunction with anti-flash flame resistant gloves and goggles if not worn with an OBA or SCBA.

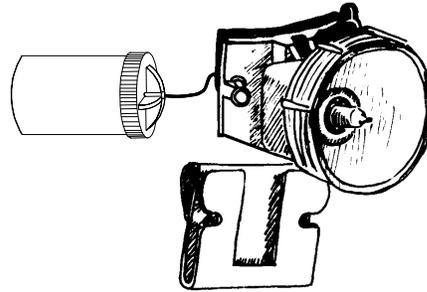
USE TIP: Part of the fire fighter ensemble and general quarters gear.

REF: Firefighting/Access Personnel Kit.

PP-LANTERN HEAD - (USES FOUR SIZE AA BATTERIES)

NSN 6135-00-985-7845 SIZE AA BATTERIES
NSN 6230-01-285-4396 ASSEMBLY
PHILLIPS HPR-40 OR REPLACEMENT
OSRAM 640721 HALOGEN BULB

WT. 1.0 lbs **VOL.** 117.0 in³



DESCRIPTION: Electric head lantern, flexible cable connects light to battery case. Part of General Quarters' gear.

USE: Attached to fireman's helmet to provide light for individuals on investigating, damage control and fire fighting teams. Used to provide light to personnel entering a smoke filled environment.

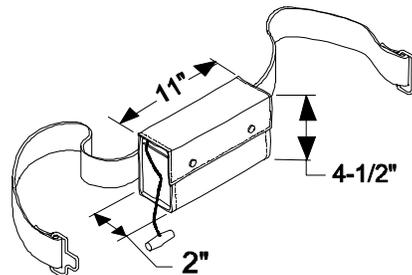
USE TIP: Lantern furnished with one lamp installed, and one separate. Batteries must be purchased separately. All lanterns are stowed in DCRSs.

REF: Firefighting/Access Personnel Kit.

**PP-LIFE PRESERVER
YOKE, INFLATABLE**

NSN 4220-00-289-1891

WT. 3.0 lbs. **VOL.** 60.0 in³



DESCRIPTION: One-piece and consists of a buoyancy chamber, CO₂ inflator, oral inflation valve with tube, lifting harness, waist belt, toggle line, and pouch. Buoyancy chambers are made of a sea rescue orange-colored neoprene coated nylon fabric and are inflated either by CO₂ or orally. Adult size inflatable by CO₂ cartridge, NSN 4220-00-372-0585 (not included) or orally. Synthetic rubber coated nylon envelope, collar, and belt with aluminum belt buckle.

USE: Used by shipboard personnel as a portable inflatable life preserver at general quarters, rough seas, and abandon ship.

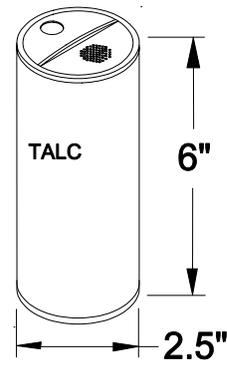
USE TIP: The life preserver is provided with a whistle, distress marker light, and sea-dye marker.

REF: Parent AEL.

PP-POWDER - TALC

NSN 8510-00-817-0295

WT. 6.0 oz **VOL.** 37.5 in³



DESCRIPTION: Container of fine powder made from talc.

USE: Used to protect rubber gloves during storage, and for application on the hands to dry them prior to donning electrical rubber gloves.

USE TIP: Dry hand allow for easy and rapid donning of rubber gloves.

REF: Electrical Repair Kit.

PP-SOCKS - MENS FIREMAN (WINTER)

1HM0000-LL-CQA-5056 (SELECT SIZE)

NSN 8440-01-053-6388 SZ 7

NSN 8440-01-053-6389 SZ 8

NSN 8440-00-261-4897 SZ 9

NSN 8440-00-153-6717 SZ 10

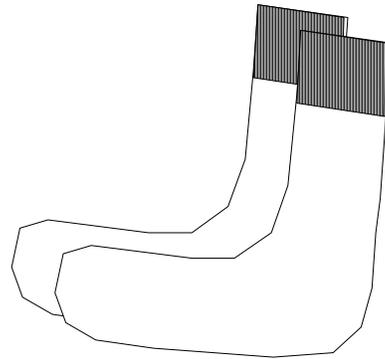
NSN 8440-00-153-6718 SZ 11

NSN 8440-00-153-6719 SZ 12

NSN 8440-00-153-6720 SZ 13

NSN 8440-00-153-6721 SZ 14

WT. 0.1 lbs **VOL.** 7.0 in³



DESCRIPTION: Cotton/wool socks.

USE: Used over regular socks and inside Fire Fighting Boot.

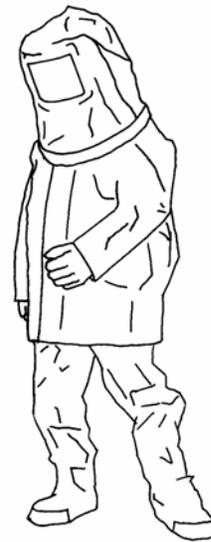
USE TIP: Provides the additional padding needed in the boot.

REF: Firefighting/Access Personnel Kit.

**PP-SUIT - FIREFIGHTER'S COMBINATION
(STRUCTURAL AND AIRCRAFT RESCUE)**

COVER, FIREMAN'S TROUSERS (ALUM)

- NSN 8415-01-304-3092** SIZE 34R
- NSN 8415-01-304-3093** SIZE 34L
- NSN 8415-01-304-3094** SIZE 36R
- NSN 8415-01-304-3095** SIZE 36L
- NSN 8415-01-304-3096** SIZE 38R
- NSN 8415-01-304-3097** SIZE 38L
- NSN 8415-01-304-3098** SIZE 40R
- NSN 8415-01-304-3099** SIZE 40L
- NSN 8415-01-304-3100** SIZE 42R
- NSN 8415-01-304-3101** SIZE 42L
- NSN 8415-01-304-3102** SIZE 44R
- NSN 8415-01-304-3103** SIZE 44L
- NSN 8415-01-304-3104** SIZE 46R
- NSN 8415-01-304-3105** SIZE 46L



LINER, FIREMAN'S TROUSERS

- NSN 8415-01-304-6472** SIZE 34R
- NSN 8415-01-304-6473** SIZE 34L
- NSN 8415-01-304-6474** SIZE 36R
- NSN 8415-01-304-6475** SIZE 36L
- NSN 8415-01-304-6476** SIZE 38R
- NSN 8415-01-304-6477** SIZE 38L
- NSN 8415-01-304-6478** SIZE 40R
- NSN 8415-01-304-6479** SIZE 40L
- NSN 8415-01-304-6480** SIZE 42R
- NSN 8415-01-304-6481** SIZE 42L
- NSN 8415-01-304-6482** SIZE 44R
- NSN 8415-01-304-6483** SIZE 44L
- NSN 8415-01-304-6484** SIZE 46R
- NSN 8415-01-304-6485** SIZE 46L

COAT, FIREMAN'S (STRUCTURAL)

- NSN 8415-01-304-3081** SIZE SML
- NSN 8415-01-304-3082** SIZE MED
- NSN 8415-01-304-3083** SIZE LRG
- NSN 8415-01-304-3084** SIZE XLRG

COVER, FIREMAN'S COAT (ALUM)

- NSN 8415-01-304-3085** SIZE SML
- NSN 8415-01-304-3086** SIZE MED
- NSN 8415-01-304-3087** SIZE LRG
- NSN 8415-01-304-3088** SIZE XLRG

TROUSER, FIREMAN'S (STRUCTURAL)

- NSN 8415-01-304-6459** SIZE 34R
- NSN 8415-01-304-6460** SIZE 34L
- NSN 8415-01-304-6461** SIZE 36R
- NSN 8415-01-304-6462** SIZE 36L
- NSN 8415-01-304-6463** SIZE 38R
- NSN 8415-01-304-6464** SIZE 38L
- NSN 8415-01-304-6465** SIZE 40R
- NSN 8415-01-304-6466** SIZE 40L
- NSN 8415-01-304-6467** SIZE 42R
- NSN 8415-01-304-6468** SIZE 42L
- NSN 8415-01-304-9757** SIZE 44R
- NSN 8415-01-304-6469** SIZE 44L
- NSN 8415-01-304-6470** SIZE 46R
- NSN 8415-01-304-6471** SIZE 46L

WT. 15.0 lbs **VOL.** 5,264.0 in³

DESCRIPTION: Suit to provide the wearer with thermal protection while approaching and operating close to large fires.

USE: Used primarily by aircraft firefighting teams.

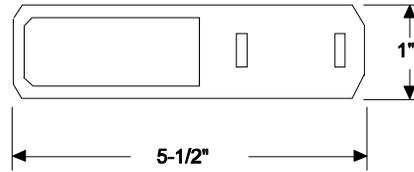
USE TIP: Select clothing properly for intended use. Structural coat and trousers are best for building type fires. The aluminum outer cover must be attached for combating high intensity fuel fires.

REF: United States Navy Shipboard Protective Clothing Catalog NSN: 0910-LP-553-3400.

PP-WRENCH - SPANNER, OBA

NSN 5120-01-290-1804

WT. 0.5 lb. **VOL.** 2.0 in³



DESCRIPTION: Spanner wrench for OBA, Type A4

USE: Used to remove valve cap for replacing diaphragm and gasket.

USE TIP: Return to tool kit after use.

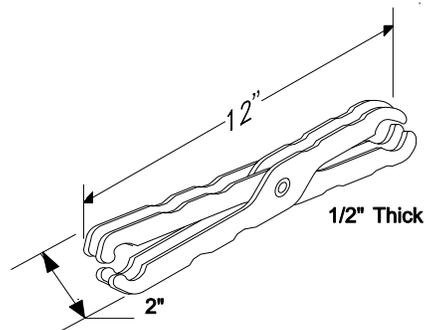
REF: Repair Locker Tool Kit.

PULLER - FUSE

SIZE 3

NSN 5120-00-243-2776

WT. 2.0 oz **VOL.** 12.0 in³



DESCRIPTION: Scissor type, double ended fuse puller made of phenolic plastic.

USE: Provides protection from electric shock during removal or insertion of fuses.

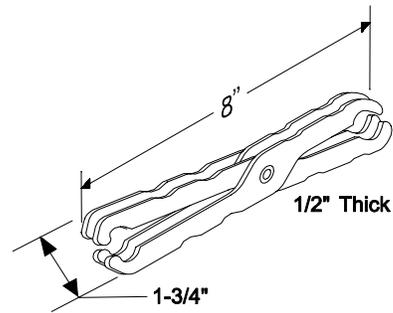
USE TIP: Also known as cartridge fuse puller.

REF: Electrical Repair Kit.

PULLER - TYPE B

NSN 5120-00-224-9456

WT. 1.5 oz **VOL.** 7.0 in³



DESCRIPTION: Scissor type, double ended fuse puller made of phenolic plastic.

USE: Provides protection from electric shock during removal or insertion of fuses.

USE TIP: Also known as cartridge fuse puller.

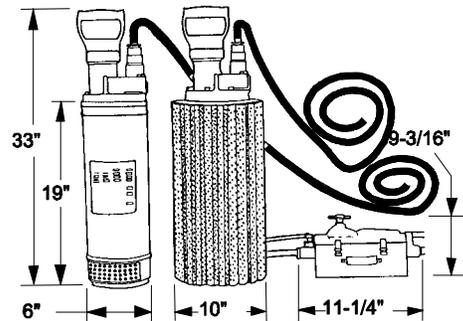
REF: Electrical Repair Kit.

PUMP

PORTABLE SUBMERSIBLE (BRASS or ALUMINUM)
CENTRIFUGAL

NSN 4320-00-368-3186 - SUBPUMP ASSEMBLY
NSN 4820-01-251-0619 - FOOT VALVE STRAINER
NSN 5920-00-823-0951 - 10 AMP TIME DELAY

WT. 100.0 lbs. **VOL.** 2297.1 in.³



DESCRIPTION: The 440V three-phase AC or DC motor is connected directly to a high-speed centrifugal pump and delivers power to operate the pump. It is a high-speed centrifugal pump that pumps 140 gpm at a 70' static head, or 180 gpm at a 50' static head with a maximum lift of 16 inches. The pump is separated from the electric motor by carbon seals. 180 gpm radial flow, vertical pump operating speed 3450 rpm. 50 ft total head; single centrifugal pump impeller suction type; self priming; 5 h.p. 440 Volt alternating current. The pump uses three fuses in the fuse box.

USE: Used to provide a means of dewatering compartments aboard ship..

USE TIP: More than one submersible pump may be required to control flooding. For each pump in actual use, a standby pump rigged and ready for replacement is recommended. Electricians and other repair personnel should remain at the scene, available for quick repair work should pumps fail. Portable electric cables capable of carrying the power load of five pumps, and fitted with a three receptacle jack plug, should be available for running more than one pump at a time. Two pumps can be coupled for series operation when necessary to meet increased demands. See the Damage Control Equipment Layout Booklet for illustration of pumps wired in series.

CAUTION

Do not use submersible pumps to pump gasoline, heavy oil, or hot water. Since the liquid pumped circulates around the motor for cooling purposes, there is a possibility that sufficient gasoline will leak into the motor to form an explosive mixture. When pumping heavy fuel oil, the higher viscosity imposes a greater load on the motor, and the oil carries away less heat; therefore, there is a danger of burning out the motor. In an emergency, when conditions warrant the risk of burning out a motor, two submersible pumps rigged in series may be used for pumping fuel oil. Diesel Fuel Marine (DFM), JP-5, and Navy Distillate (ND), however, may be pumped safely without overloading the pump motor.

Portable electric submersible pumps are fitted with strainers to prevent debris from getting into the pump and clogging the impeller. These strainers are necessary because a clogged impeller will prevent pumping, even though it may be turning over at the design speed. Frequent checks of discharge flow must be made to verify pump and strainer operation.

CAUTION

Do not operate the pump at any time without the suction strainer attached.

Priming. When using a suction hose with a submersible pump, attach the foot valve to the suction end of the suction hose. The pump will then have to be primed. Under some circumstances the pump can be primed by lowering the pump into the water without the discharge hose attached. If this cannot be done, a firehose or any other water supply could be used to fill the pump and suction hose. The foot valve will keep the priming water from draining out of the suction hose.

The most critical part of the submersible pump is the point where the electric cable passes through the watertight casing to the motor. The packing gland provided at this point shall be carefully inspected and maintained watertight, together with the electric cable and connections. The pump shall not be lifted or handled by the electric cable. On surface ships, a 50', 2" circumference nylon rope (double-braided or plaited) should be used for lowering and raising the pump through hatches into/out of flooded compartments. When using wire rope, or manila rope with seizing wire wound in the lay, there is a possibility of electric shock through contact with damaged hot cables in the area. Rubber gloves and boots are to be worn.

A foot valve is not required and is not to be used when the pump is operated while submerged. It shall be attached to the suction end of the suction hose when the pump is operated while not submerged. No more than 20' of suction hose should be used.

Hatches may be opened for lowering submersible pumps into flooded compartments if inclined ladders obstruct lowering the pumps through scuttles. Ensure that flooding has stopped or is under control before opening the hatch and commencing dewatering operations.

The following safety precautions should be observed when the pump is being placed in operation and in actual use:

- Be sure pump controller is in the "off" position before plugging into or disconnecting from ships power supply.
- Keep handling line, electric cable, and discharge hose clear, so the pump can be removed quickly. Keep all hose free of kinks and sharp bends.
- Use the strainer.
- Keep suction lift and discharge head as low as possible.
- Keep the suction end of the pump or the end of the suction hose in the water while the pump is operating.
- Keep the strainer clean at all times.

Personnel Safety Information

A person in the water with an operating pump is electrically unsafe unless all of the following conditions

exist:

- Any part of the circuitry is grounded to the pump frame.
- The ground wire is unbroken.
- The person does not touch a grounded part of the pump.

REF: Navy Technical Manual 0910-LP-091-3501.

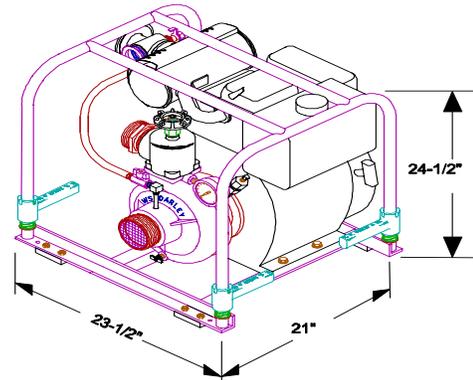
PUMP - CENTRIFUGAL
(P-100)

NSN 4320-01-387-2869

VOL: 12,091 in³

DESCRIPTION: The P100 pump is a commercial diesel engine driven portable pump designed for firefighting and limited dewatering functions aboard ships. The pump is fuelled by either JP-5 or F-76 fuels. Lube oil capacity is .44 gal of 30 weight oil. Fuel oil tank capacity of 1.45 gal diesel operates the pump for over 2 hours. Coolant is forced air. Starter is manual recoil.

Fuel injection, 1 cylinder, 4 cycle engine, 10 hp, 100-250 GPM capacity single suction 3" NH male connector, discharge connection 2-1/2" NH male connector.



USE: Used to provide an emergency source of high pressure water 90 to 125 psig for combating shipboard fires.

USE TIP:

- **SUCTION INLET:** One 3" NPTF.
- **DISCHARGE:** One 2-1/2" NPTF with combination discharge valve and check valve.
- **PUMP FEATURES:** High-strength aluminum alloy casing and discharge valve, aluminum alloy engine adapter, bronze impeller and wear rings, stainless steel impeller shaft, injection-style packing, direct drive.
- **ENGINE FEATURES:** 10 HP Yanmer L100EE diesel engine, four-cycle, air-cooled, direct injection, single cylinder, 406 cc displacement, rope start, dry replacement air cleaner, aluminum alloy engine block 1.45-gallon fuel tank, exhaust primer.
- **OPTIONS:** Alloy roll cage, battery kit, adapters and caps, and hand primer.
- **DIMENSIONS:** 23" x 24" L x 24" W (584 mm x 609 mm x 609 mm)
- **WEIGHT:** 163 lbs. (74 kg)
- **Navy version 2BE10YDN:** includes marinized pump & engine NST adapter & caps, precision engine, exhaust primer, roll cage, and exhaust hose.

REF: Navy Technical Manual 0910-LP-794-4400. Portable Pump Accessories Kit.

PUNCH-DRIFT - 3/8"

NSN 5120-00-242-0764

WT. 0.3 lbs. **VOL.** 0.4 in³



DESCRIPTION: Made of hexagon shaped cold formed steel.

USE: Used to remove hinge pins from watertight doors and hatches and other similar functions.

USE TIP: Keep punch drift lightly oiled when in storage to prevent rust.

REF: Damage Control Petty Officer (DCPO) Kit.
