

NAVSEA S5090-B1-TAB-010

TRAINING AID BOOKLET FOR DAMAGE CONTROL EQUIPMENT

This manual supersedes S5090-B1-TAB-01B dated 16 November 1992

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PUBLISHED BY DIRECTION OF COMMANDER, NAVAL SEA SYSTEMS COMMAND.

30 SEPTEMBER 2002 REVISION 1

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S5090-B1-TAB-010

DAMAGE CONTROL TRAINING AID BOOKLET

RECORD OF CHANGES

Change No.	Date of Change	Title or Brief Description	Entered By

LIST OF EFFECTIVE PAGES

Dates of Original and Changes Pages are:

Total number of pages in this publication is XXX consisting of the following:

Original	0	29 November 1991
Revision	1	30 September 2002

Page No.	Rev No.	Page No.	Rev No.
#Title Page	1	I-1 through I-8 (blank)	1
#Table of Contents.....	1	J-1 through J-4 (blank)	1
#Record of Changes.....	1	K-1 through K-22.....	1
#List of Effective Pages	1	L-1 through L-6.....	1
#Recommendation/Suggestion Form.....	1	M-1 through M-4 (blank)	1
#Executive Summary	1	N-1 through N-4 (blank)	1
A-1 through A-12.....	1	O-1 through O-2 (blank)	1
B-1 through B-10	1	P-1 through P-48 (blank)	1
C-1 through C-30 (blank).....	1	R-1 through R-10 (blank).....	1
D-1 through D-4.....	1	S-1 through S-22	1
E-1 through E-8.....	1	T-1 through T-8.....	1
F-1 through F-8	1	V-1 through V-2 (blank)	1
G-1 through G-6 (blank).....	1	W-1 through W-18	1
H-1 through H-12 (blank).....	1	Cross Reference Index	1

#Pages are printed single-sided.

RECOMMENDATION/SUGGESTION FORM

**TRAINING AID BOOKLET
FOR
DAMAGE CONTROL EQUIPMENT**

In the interest of continually improving the Training Aid Booklet for Damage Control Equipment (Training Aid), we would like to receive your suggestions for making this document a more effective tool for Navy personnel. To ensure that your suggestions are processed quickly and accurately, please forward each recommendation on a separate form with all of the requested information filled in. New changes will be presented at the CNO's DC/FF Working Group. Thank you for your time and effort in helping us to improve this booklet.

ORIGINATOR INFORMATION:

Name: _____
Ship/Station: _____
Address: _____
Daytime phone number: _____
Date: _____

RECOMMENDATION/ SUGGESTION:

What is the most recent change incorporated into your Training Aid? _____

Does this suggestion pertain to incorrect information contained in the Training Aid? _____
(Yes or No)? Circle one.

If yes, which page(s) and paragraph(s) contain the error(s)? _____

Suggested improvement(s): _____

Forward Recommendations/Suggestions to:

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EXECUTIVE SUMMARY

*Revision "I" of this booklet
supercedes and cancels all
previous issues.*

This Training Aid Booklet for Damage Control Equipment was prepared by the Naval Sea Systems Command for the Chief of Naval Operations' Damage Control and Firefighting Working Group (DC/FF WG). Its purpose is to provide DC personnel an encyclopedia that identifies DC equipment. This Training Aid booklet provides DC equipment information including illustrations and is arranged in alphabetical order by Allowance Equipage List (AEL) titles in most cases. Some titles were modified to make this document more readable and to make certain items easier to find or to group similar items together. The booklet is a valuable reference document for conducting onboard training to answer questions about DC equipment. In addition, this booklet can be used as a design reference tool to develop stowage requirements for DC equipment (approximate volume and weight information is provided for individual items).

The fleet DC AELs should be used for all equipment ordering and replacement. This booklet is intended to supplement the AELs and will be updated via change pages as equipment is added to or deleted from DC inventories. This booklet has been completely re-written and is published in a new electronic format. A "Cross Reference Index, NSN to Item Name" has been added at the end of this booklet. This document is also available on CD-ROM in PDF format and is also on the Damage Control Web site at "www.navsea.navy.mil/05p9".

Recommendations for improvement to this document are requested and will be presented to the DC/FF WG as part of the Fleet Damage Control AEL Review.

SECTION A

ADAPTER - DUCT 10" MALE

NSN 4730-01-378-5288

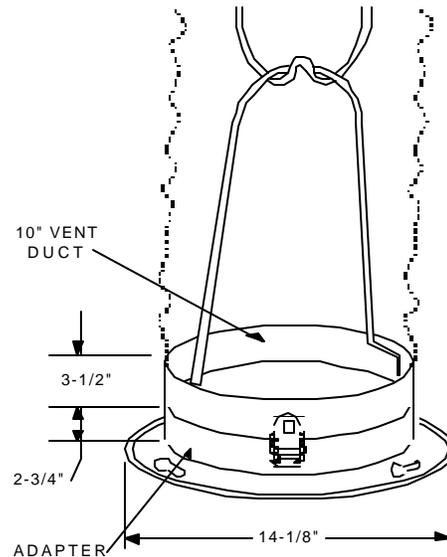
WT. 3.0 lbs VOL. in³

DESCRIPTION: Flexible vent duct adapter

USE: Used to connect 10" air duct to the water driven fan to bring outside air into a compartment or to de-smoke a compartment

USE TIP: Avoid sharp bends or crushing of the duct.
Two per kit.

REF: Desmoking Equipment Kit.



ADAPTER - (FLANGE TO HOSE THREADS)
3" FLANGE / 2-1/2" NH (M) HOSE

NSN 4730-00-289-2046

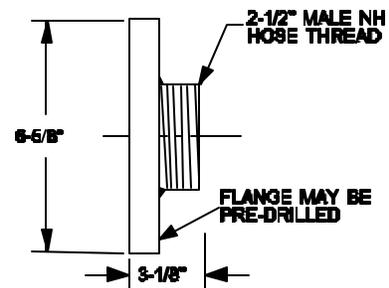
WT. 7.0 lbs. VOL. 137.0 in.³

DESCRIPTION: This flange is made of bronze and is a variation of a solid blank flange plate except that the center is cut away, and the hole is surrounded by a short threaded pipe.

USE: The adapter may be bolted to any similar flange on a pipeline, and a hose may be coupled to the pipe threads for rigging a jumper hose; a plug or cap may be installed to blank the line. Maximum operating pressure for steam is 100 PSI at 425° F; for water, oil, and gas, 150 PSI at 150° F. The fittings are intended for use with copper tube, copper nickel tube, brass tube, and nickel copper alloy tube.

USE TIP: The installation of these flanges is intended to be accomplished by silver brazing without exceeding a temperature of 1400° F. All the items with bolt holes or slots must have the required nuts, bolts, and gaskets attached.

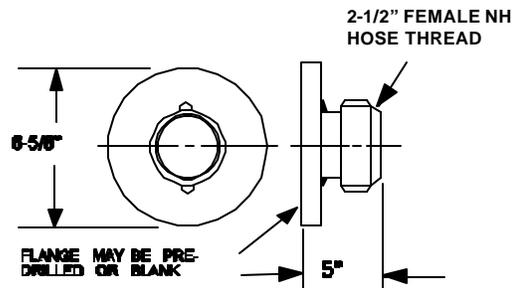
REF: Adapters/Connections Kit.



ADAPTER - (FLANGE TO HOSE THREADS)
3" FLANGE / 2-1/2" NH (F) HOSE

NSN 4730-00-277-3379

WT. 9.5 lbs. **VOL.** 296.4 in.³



DESCRIPTION: This flange is made of bronze and is a variation of a solid blank flange plate except that the center is cut away, and the hole is surrounded by a short threaded pipe.

USE: The adapter may be bolted to any similar flange on a pipeline, and a hose may be coupled to the pipe threads for rigging a jumper hose; a plug or cap may be installed to blank the line. Maximum operating pressure for steam is 100 PSI at 425° F; for water, oil, and gas, 150 PSI at 150° F. The fittings are intended for use with copper tube, copper nickel tube, brass tube, and nickel copper alloy tube.

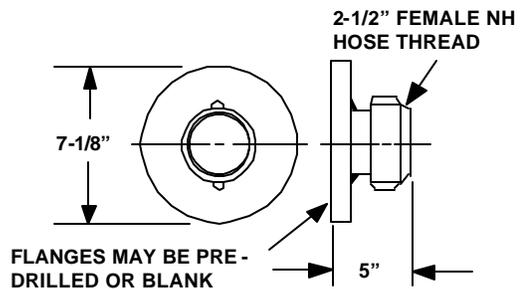
USE TIP: The installation of these flanges is intended to be accomplished by silver brazing without exceeding a temperature of 1400° F. All the items with bolt holes or slots must have the required nuts, bolts, and gaskets attached.

REF: Adapters/Connections Kit.

ADAPTER - (FLANGE TO HOSE THREADS)
3-1/2" / 2-1/2" (F) HOSE

NSN 4730-00-277-3380

WT. 9.0 lbs. **VOL.** 258.3 in.³



DESCRIPTION: This is a variation of a solid blank flange plate except that the center is cut away, and the hole is surrounded by a short threaded pipe. Adapter has swivel nut, gasket, threaded external hose connection and a 2-1/2" female hose thread.

USE: The adapter may be bolted to any similar flange on a pipeline, and a hose may be coupled to the pipe threads for rigging a jumper hose; a plug or cap may be installed to blank the line. Maximum operating pressure for steam is 100 PSI at 425°F; for water, oil, and gas, 150 PSI at 150°F.

USE TIP: The installation of these flanges is intended to be accomplished by silver brazing without exceeding a temperature of 1400° F. The fittings are intended for use with copper tube, copper nickel tube, brass tube, and nickel copper alloy tube. All the items with bolt holes or slots must have the required nuts, bolts, and gaskets attached.

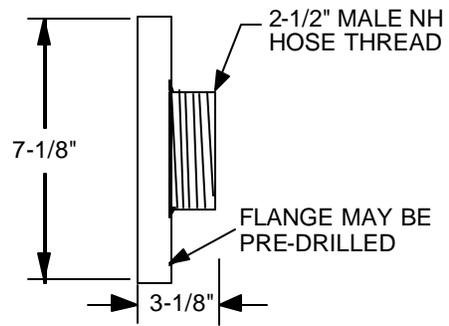
REF: Adapters/Connections Kit.

ADAPTER - (FLANGE TO HOSE THREADS)
3-1/2" FLANGE / 2-1/2" NH (M) HOSE

NSN 4730-00-289-2047

WT. 7.0 lbs. **VOL.** 187.7 in.³

DESCRIPTION: This flange is made of bronze and is a variation of a solid blank flange plate except that the center is cut away, and the hole is surrounded by a short threaded pipe.



USE: The adapter may be bolted to any similar flange on a pipeline, and a hose may be coupled to the pipe threads for rigging a jumper hose; a plug or cap may be installed to blank the line. Maximum operating pressure for steam is 100 PSI and 425° F. For water, oil, and gas, 150 PSI at 150° F. The fittings are intended for use with copper tube, copper-nickel tube, brass tube, and nickel copper alloy tube.

USE TIP: The installation of these flanges is intended to be accomplished by silver brazing without exceeding a temperature of 1400° F. All the items with bolt holes or slots must have the required nuts, bolts, and gaskets attached.

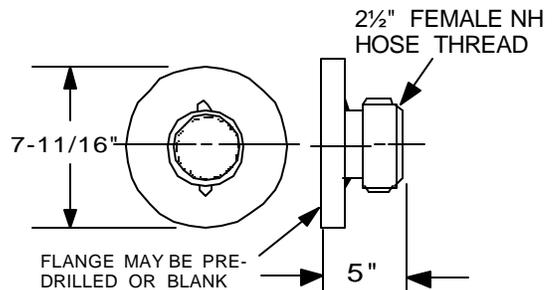
REF: Adapters/Connections Kit.

ADAPTER - (FLANGE TO HOSE THREAD)
4" FLANGE / 2-1/2" NH (F) HOSE

NSN 4730-00-277-3381

WT. 10.0 lbs. **VOL.** 294.9 in.³

DESCRIPTION: This flange is made of bronze and is a variation of a solid blank flange plate except that the center is cut away, and the hole is surrounded by a short threaded pipe with a swivel nut gasket seal and a threaded internal hose connection. NH thread 2-1/2 - 7-1/2. Non Spec.



USE: The adapter may be bolted to any similar flange on a pipeline, and a hose may be coupled to the pipe threads for rigging a jumper hose; a plug or cap may be installed to blank the line. Maximum operating pressure for steam is 100 PSI at 425° F; for water, oil, and gas, 150 PSI at 150° F. The fittings are intended for use with copper tube, copper nickel tube, brass tube, and nickel copper alloy tube.

USE TIP: The installation of these flanges is intended to be accomplished by silver brazing without exceeding a temperature of 1400° F. All the items with bolt holes or slots must have the required nuts, bolts, and gaskets attached.

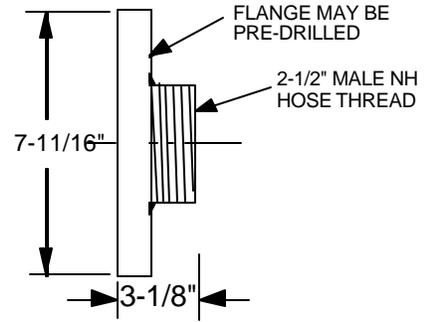
REF: Adapters/Connections Kit.

ADAPTER - (FLANGE TO HOSE THREAD)
4" FLANGE / 2-1/2" NH (M) HOSE

NSN 4730-00-289-2048

WT. 9.0 lbs. **VOL.** 187.7 in³

DESCRIPTION: This is a variation of a solid blank flange plate except that the center is cut away and the hole is surrounded by a short threaded pipe.



USE: The adapter may be bolted to any similar flange on a pipeline, and a hose may be coupled to the pipe threads for rigging a jumper hose; a plug or cap may be installed to blank the line. Maximum operating pressure for steam is 100 PSI at 425° F; for water, oil, and gas, 150 PSI at 150° F. The fittings are intended for use with copper tube, copper nickel tube, brass tube, and nickel copper alloy tube.

USE TIP: The installation of these flanges is intended to be accomplished by silver brazing without exceeding a temperature of 1400° F. All the items with bolt holes or slots must have the required nuts, bolts, and gaskets attached.

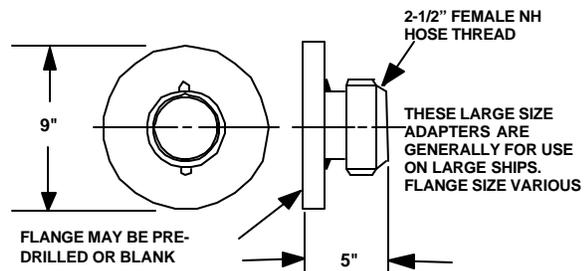
REF: Adapters/Connections Kit.

ADAPTER - (FLANGE TO HOSE THREAD)
5" FLANGE / 2-1/2" NH (F) HOSE-FEMALE

NSN 4730-00-277-3382

WT. 13.0 lbs. **VOL.** 232.9 in.³

DESCRIPTION: This is a variation of a solid blank flange plate except that the center is cut away, and the hole is surrounded by a short threaded pipe. Adapter has a 2-1/2 inch female hose thread with swivel nut, gasket seal and threaded internal hose connection.



USE: The adapter may be bolted to any similar flange on a pipeline, and a hose may be coupled to the pipe threads for rigging a jumper hose; a plug or cap may be installed to blank the line. Maximum operating pressure for steam is 100 PSI at 425° F; for water, oil, and gas, 150 PSI at 150° F. The fittings are intended for use with copper tube, copper nickel tube, brass tube, and nickel copper alloy tube.

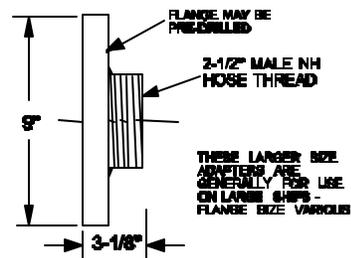
USE TIP: The installation of these flanges is intended to be accomplished by silver brazing without exceeding a temperature of 1400°F. All the items with bolt holes or slots must have the required nuts, bolts, and gaskets attached.

REF: Adapters/Connections Kit.

ADAPTER - (FLANGE TO HOSE THREAD)
5" FLANGE / 2-1/2" NH (M) HOSE

NSN 4730-00-289-2049

WT. 12.0 lbs. **VOL.** 187.7 in.³



DESCRIPTION: This is a variation of a solid blank flange plate except that the center is cut away, and the hole is surrounded by a short threaded pipe. Adapter has a threaded external hose connection with a 2-1/2 inch male hose thread.

USE: The adapter may be bolted to any similar flange on a pipeline, and a hose may be coupled to the pipe threads for rigging a jumper hose; a plug or cap may be installed to blank the line. Maximum operating pressure for steam is 100 PSI at 425° F; for water, oil, and gas; 150 PSI at 150° F. The fittings are intended for use with copper tube, copper nickel tube, brass tube, and nickel copper alloy tube.

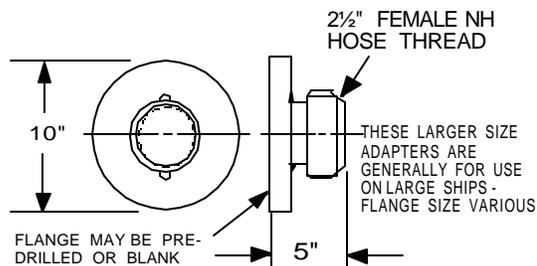
USE TIP: The installation of these flanges is intended to be accomplished by silver brazing without exceeding a temperature of 1400° F. All the items with bolt holes or slots must have the required nuts, bolts, and gaskets attached.

REF: Adapters/Connections Kit.

ADAPTER - (FLANGE TO HOSE THREAD)
6" FLANGE / 2-1/2" NH (F) HOSE

NSN 4730-00-277-3383

WT. 15.0 lbs. **VOL.** 194.6 in.³



DESCRIPTION: This is a variation of a solid blank flange plate, and the hole is surrounded by a short threaded internal hose connection and a 2-1/2 inch female hose thread.

USE: The adapter may be bolted to any similar flange on a pipeline, and a hose may be coupled to the pipe threads for rigging a jumper hose; a plug or cap may be installed to blank the line. Maximum operating pressure for steam is 100 PSI at 425° F; for water, oil, and gas; 150 PSI at 150° F. The fittings are intended for use with copper tube, copper nickel tube, brass tube, and nickel copper alloy tube.

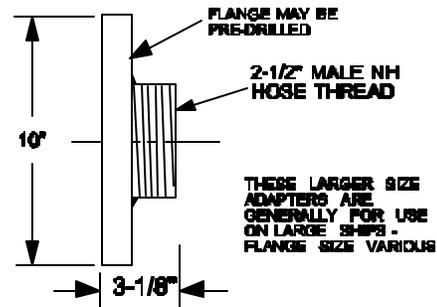
USE TIP: The installation of these flanges is intended to be accomplished by silver brazing without exceeding a temperature of 1400° F. All the items with bolt holes or slots must have the required nuts, bolts, and gaskets attached.

REF: Adapters/Connections Kit.

ADAPTER - (FLANGE TO HOSE THREAD)
6" FLANGE / 2-1/2" NH (M) HOSE

NSN 4730-00-289-2050

WT. 17.0 lbs. **VOL.** 281.9 in.³



DESCRIPTION: This is a variation of a solid blank flange plate except that the center is cut away, and the hole is surrounded by a short threaded pipe. Adapter has threaded external hose connection for a 2-1/2 inch male hose thread.

USE: The adapter may be bolted to any similar flange on a pipeline, and a hose may be coupled to the pipe threads for rigging a jumper hose; a plug or cap may be installed to blank the line. Maximum operating pressure for steam is 100 PSI at 425° F; for water, oil, and gas, 150 PSI at 150° F. The fittings are intended for use with copper tube, copper nickel tube, brass tube, and nickel copper alloy tube.

USE TIP: The installation of these flanges is intended to be accomplished by silver brazing without exceeding a temperature of 1400° F. All the items with bolt holes or slots must have the required nuts, bolts, and gaskets attached.

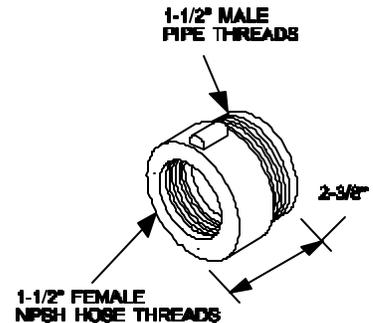
REF: Adapters/Connections Kit.

ADAPTER - HOSE TO PIPE THREADS
1-1/2" (F) NPSH X 1-1/2" (M) PIPE

NSN 4210-01-037-6265

WT. 1.5 lbs **VOL.** 21.3 in.³

DESCRIPTION: Hose to pipe adapter made of copper alloy overall, NPT pipe thread at one end and NPSH hose thread at the other end. Type 16, Class C and Class D. 1-1/2" NPSH, 1-1/2 NPT.



USE: Used to make a connection from a flange pipe to a hose or jumper.

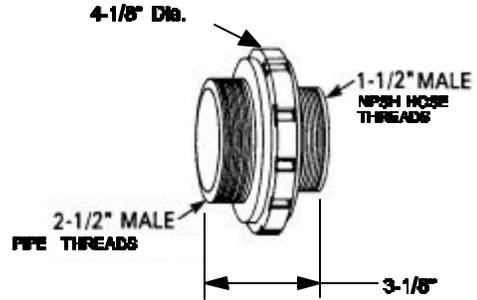
USE TIP: Avoid damage to threads.

REF: Adapters/Connections Kit.

ADAPTER - HOSE TO PIPE THREADS
1-1/2" (M) NPSH HOSE / 2-1/2" (M) PIPE

NSN 4210-00-277-3378

WT. 2.5 lbs. **VOL.** 53.2 in.³



DESCRIPTION: Pipe to hose adapter made of copper alloy overall, NPT pipe thread at one end and NPSH hose thread at the other end. Type 16, Class C and Class D. 2-1/2" NPSH, 1-1/2" NPT.

USE: Used to make a connection from a flange pipe to a hose or jumper.

USE TIP: Avoid damage to threads.

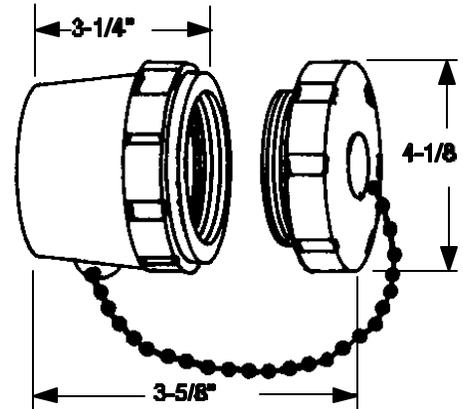
REF: Adapters/Connections Kit.

ADAPTER - HOSE DOUBLE FEMALE
2-1/2" (F) PIPE / 2-1/2" (F) HOSE

NSN 4210-00-355-4862

WT. 5.5 lbs. **VOL.** 48.0 in.³

DESCRIPTION: Female pipe to female hose adapter with plug and chain.



USE: Used to join one fire hose male end together with 2-1/2 inches in diameter male pipe connection during a jumper operation between two fire plugs.

USE TIP: Avoid damage to threads.

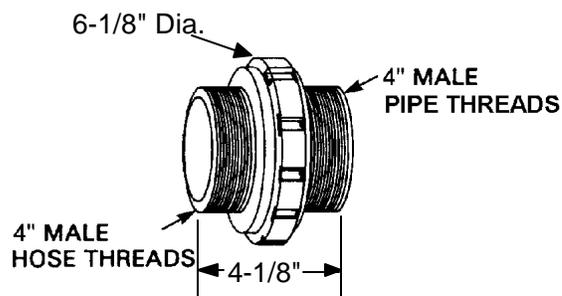
REF: Adapters/Connections Kit.

**ADAPTER - DOUBLE (M) 4" DISCHARGE
DESANNE MOD 74-7**

1HM0000-LL-CQA-0077

WT. 3.0 lbs **VOL.** 154.7 in³

DESCRIPTION: Bronze, swivel nut, gasket seal for threaded internal hose connection.



USE: Used to connect a 4 inch eductor discharge hose to overboard female connection. A hose may be coupled to the pipe threads for rigging a jumper hose. A plug or cap may be installed to blank the line. Maximum operating pressure for steam is 100 PSI at 425° F. For water, oil, and gas, 150 PSI at 150° F.

USE TIP: The fittings are intended for use with copper tube, copper nickel tube, brass tube, and nickel copper alloy tube.

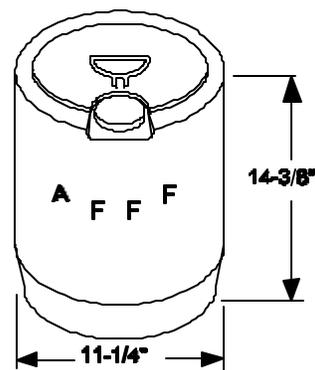
REF: Adapters/Connections Kit.

**AFFF FOAM CONCENTRATE - TYPE 6 (6 PERCENT)
5 GALLONS**

NSN 4210-01-056-8343

WT. 45.0 lbs **VOL.** 1,983.8 in³

DESCRIPTION: Aqueous film forming foam, AFFF (light water) is a noncorrosive, nontoxic chemical concentrate. AFFF is provided in 5 gallon plastic (molded polyethylene) containers which last approximately three minutes. AFFF acts to separate the fuel and air to enhance extinguishment and prevent reflash.



USE: Used to develop a foaming fire extinguishing agent that will extinguish Class "B" fires. For use with Proportioner, Foam Liquid Injection Pump, In-line Eductor, Nozzle, and Fire Hose.

USE TIP: Must be properly proportioned at 6 parts concentrate to 94 parts of water and properly aerated.

REF: Firefighting/Access Equipment Kit.

ALARM - PERSONNEL ALERT

NSN 6340-01-414-0302

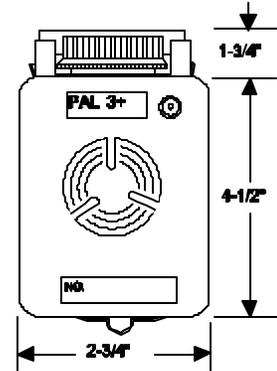
WT. 0.6 lbs **VOL.** 21.7 in³

DESCRIPTION: This safety alarm is carried by firefighting personnel to warn of areas containing an insufficient amount of oxygen in the air for survival.

USE: Five issued per ship. Weight includes battery, 9 volt.

USE TIP: Stowage determined by Gas Free Engineer.

REF: NDI Equipment



AMPLIFIER - SOUND/POWERED PHONE

NSN 5996-01-414-7676

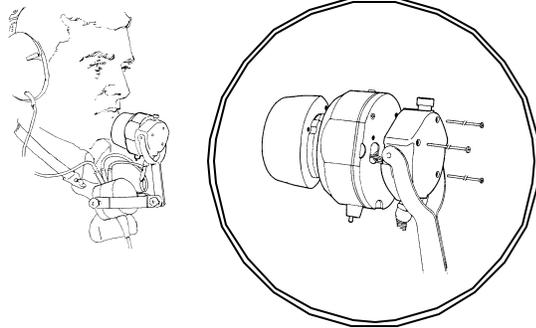
WT. 0.5 lbs **VOL.** 18.0 in³

DESCRIPTION: Amplifies sound for sound powered phone communications with the DC party.

USE: Can be used without electrical power.

USE TIP: Two per DCRS.

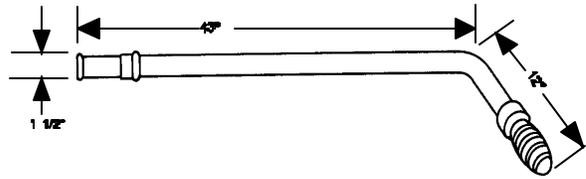
REF: Emergency Communications Kit.



APPLICATOR NOZZLE - 4 FEET

NSN 4210-00-372-0864

WT. 5.0 lbs. **VOL.** 924.0 in.³



DESCRIPTION: 4 foot all purpose nozzle attaches to 1-1/2" hose with enclosed copper nickel strainer. Head end of tubing is bent at a 60° angle.

USE: Provides cooling using low velocity fog head. One end fitted with low velocity fog head; other end fitted with bayonet joint which snaps into position in the nozzle. Used with three-position water nozzles.

USE TIP: Use to reach around obstructions.

REF: Firefighting/Access Equipment Kit. NAVSEA Dwg No. 810-1385834.

APRON-WELDERS - BIB-SPLIT LEG TYPE, 0.025" THICK CATTLE WIDE LEATHER

NSN 8415-00-250-2531

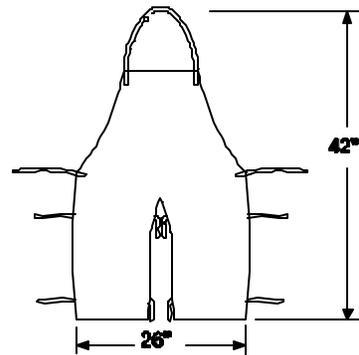
WT. 2.0 lbs **VOL.** 68.2 in³

DESCRIPTION: Natural Chrome-tanned cattle hide leather apron. Bib and split-leg type. Equipped with leather straps and six socket type snap fasteners.

USE: Used to protect welders during welding operations.

USE TIP: Replacement item.

REF: Welding Equipment Kit.



ATROPINE - INJECTION

NSN 6505-00-926-9083

WT. 0.3 lbs **VOL.** 15.0 in³



DESCRIPTION: Nerve agent antidote. Quick acting injection provides protection against nerve agent poisoning.

USE: To be used during a nerve agent attack.

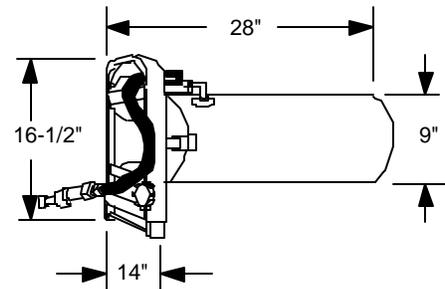
USE TIP: This is a BUMED control item. Listed for information and stowed as directed by the Medical Department. Shipboard allowance is to be computed from requirements provided in NAVMED P-5041.

REF: CBR Personnel CP Equipment Kit.

ATTACHMENT - PORTABLE WATER BLOWER
Multiplier/Mister

NSN 4140-01-414-0670

WT. 17.0 lbs **VOL.** 4,158.0 in³



DESCRIPTION: Lightweight attachment to a water driven fan which develops an air stream with a low flow mist.

USE: Provides a water medium that reduces the effects of heat and smoke particles on firefighters (can have the cooling effect of 90 GPM manned fog nozzles). Can produce an unmanned fire boundary.

USE TIP: One per DCRS.

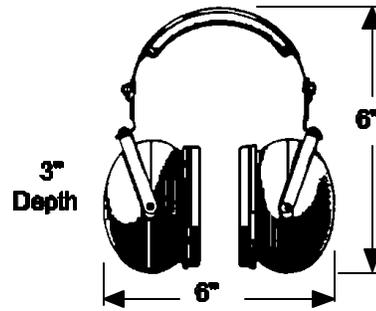
REF: NDI item. Desmoking Equipment Kit.

AURAL PROTECTOR, HEADSET -

NSN 4240-00-759-3290

WT. 0.6 lbs **VOL.** 108.0 in³

DESCRIPTION: Earmuff, sound protector kit, consists of headpad assembly headband spring, 1 pair of ear seals, dome and filter. 1 package of 10 retaining rings and stirrup assembly.



USE: Used to provide hearing protection against noises encountered by flight deck crews during flight deck operations, engine room personnel in machinery spaces, and by all other personnel who are exposed to hazardous noises.

USE TIP: Aural protectors should fit snugly over the ears, and should not dig into the back of the ears. Five per kit.

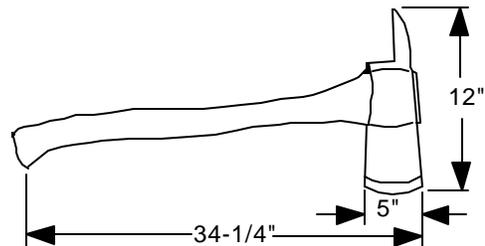
REF: Portable Pump Accessories Kit.

**AX-PICK HEAD - CARBON STEEL
TYPE II 5" CUTTING EDGE**

NSN 4210-00-142-4949

WT. 8.4 lbs. **VOL.** 545.5 in.³

DESCRIPTION: Head is 11-3/4 inches long with a 5 inch cutting edge and a 34-1/4 inches long handle. The head weighs 6 lbs.



USE: Used by fire fighters as a tool for access, forcible entry/post fire overhaul operations with a cutting edge and a punch end.

USE TIP: Recommend providing a protective cover for the ax blade. Paint ax head red.

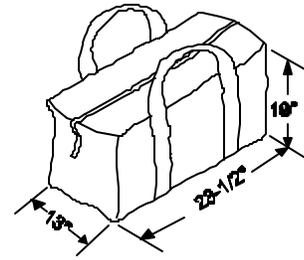
REF: Firefighting/Access Equipment Kit.

SECTION B

BAG-KIT – FLYER'S

NSN 8460-00-606-8366

WT. 2.3 lbs VOL. 5,804.5 in³



DESCRIPTION: Canvas storage and tote bag with sage green webbing, handles and zipper.

USE: Used as a tool bag for the Unit Patrol Station/Damage Control Repair Station.

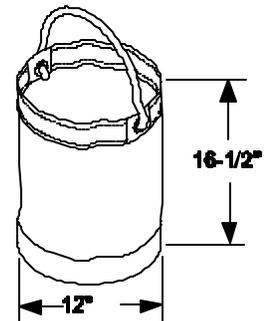
USE TIP: Label bag with 2" high black letters that describe the kit stowed inside.

REF: CBR Personnel CP Equipment Kit, CPS Repair Kit, Desmoking Equipment Kit, Dewatering Equipment Kit, Emergency Lighting Kit, Engineering Spaces Kit, Firefighting /Access Personnel Kit, Pipe Patching Kit, Plugging Kit, Shoring Material Kit, Shoring Tool Kit, or Welding Equipment Kit.

BAG, LINEMAN TOOL -

NSN 5140-00-288-7763

WT. 3.1 lbs VOL. 594.0 in³



DESCRIPTION: Canvas storage and tote bag for carrying lineman's tools.

USE: Tool bag used to carry damage control equipment and miscellaneous tools.

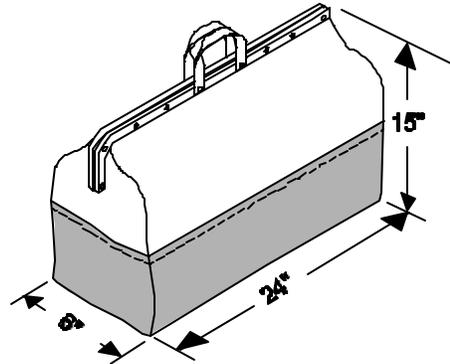
USE TIP: Stencil bag in 2 inch high letters with kit name.

REF: Emergency Communication Kit, Firefighting/Access Equipment Kit, CBR Monitoring Equipment, Pump Accessories and Sounding Kit.

BAG-TOOL SATCHEL -

NSN 5140-00-293-2379

WT. 3.9 lbs **VOL.** 2,160.0 in³



DESCRIPTION: Canvas storage and tote bag.

USE: Used as a tool bag for Jubilee Pipe Patches, Plastic Patch - Pipe Repair Kit, Electrical Repair Kit, Electronic Repair Kit and Adapters/Connections Kit.

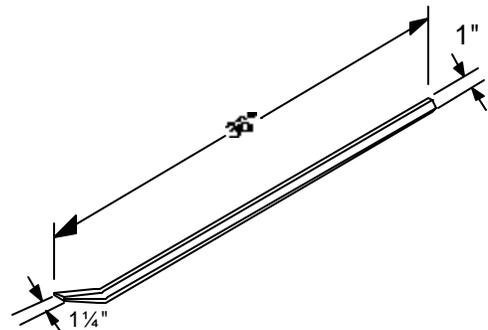
USE TIP: Label bag with 2" high black letters that describe the kit stowed inside.

REF: Jubilee Pipe Patches, Plastic Patch - Pipe Repair Kit, Electrical Repair Kit, Electronic Repair Kit and Adapters/Connections Kit.

BAR CHISEL - 36" PINCH BAR

NSN 5110-00-240-6031

WT. 7.0 lbs. **VOL.** 40.8 in.³



DESCRIPTION: 3 foot bar for prying with one end being a 60° chisel point and the other end being blunt.

USE: Used for cold cutting and prying.

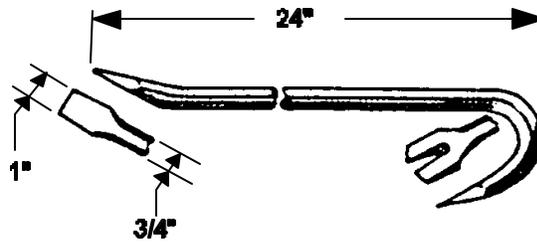
USE TIP: Use correct body position when prying in order to prevent injury.

REF: Firefighting/Access Equipment Kit.

BAR-WRECKING - 24"
STOCK DIA 3/4"

NSN 5120-00-224-1393

WT. 5.0 lbs **VOL.** 13.5 in³



DESCRIPTION: Forged steel wrecking bar.

USE: Used for demolition and access work, razing structures, opening boxes and crates. Claw for pulling nails; offset pinch point.

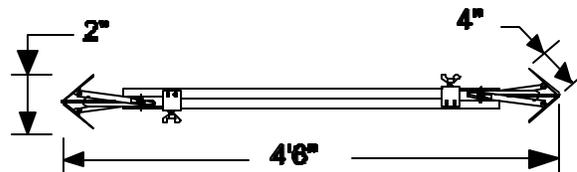
USE TIP: Use correct body position when prying in order to prevent injury.

REF: Unit Patrol Station

BATTEN-SHORING - 2" X 2" X 4'6" to 7'

NSN 5210-01-418-4746

WT. 2.0 lbs **VOL.** 864.0 in³
270.0 in³ (old)



DESCRIPTION: Telescoping adjustable shore measuring batten, 2" x 2" x 54"-84".

USE: Used as the most rapid and accurate measuring method for cutting shores. Provides angles to transpose rise and run of angles for cutting wood shoring.

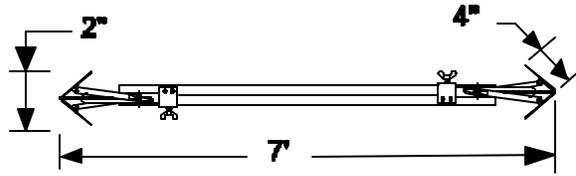
USE TIP: Stow in DCRS locker or in vicinity of wooden shoring rack. Shoring batten is fragile. Stow with care.

REF: Shoring Tool Kit. NAVSEA Drawing No. 8801-851664.

BATTEN-SHORING - 2" X 2" X 7' TO 12'

NSN 5210-01-418-4748

WT. 3.0 lbs **VOL.** 1,316.0 in³
390 in³ (old)



DESCRIPTION: Telescoping adjustable shore measuring batten 2" x 2" x 84"-144".

USE: Used as the most rapid and accurate measuring method for cutting shores. Provides angles to transpose rise and run of angles for cutting wood shoring.

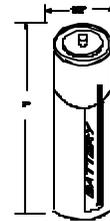
USE TIP: Stow in DCRS locker or in vicinity of wooden shoring rack. Shoring batten is fragile. Stow with care.

REF: Shoring Tool Kit. NAVSEA Drawing No. 8801-851664.

BATTERY - ALKALINE - 1.5 VOLTS (AA)

NSN 6135-00-985-7845

WT. 0.1 **VOL.** 0.5 in³



DESCRIPTION: Type AA 1-1/2 volt dry cell battery.

USE: Used for the Thermal Imager (battery cartridge box requires 10 AA batteries). Also used for head lanterns (requires 4 AA batteries).

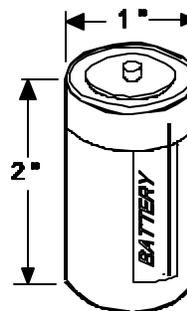
USE TIP: Replace complete set of batteries in unit immediately upon first sign of corrosion.

REF: Parent AEL

BATTERY D CELL - 1.5 VOLTS

NSN 6135-00-835-7210

WT. 0.5 lbs **VOL.** 2.0 in³



DESCRIPTION: Type D Cell 1-1/2 volt dry cell battery.
Flat surface contacts.

USE: Used in waterproof flashlight (two batteries required).

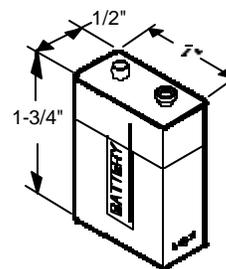
USE TIP: Replace complete set of batteries in unit immediately upon first sign of corrosion.

REF: Parent AEL

BATTERY DRY CELL - 9 VOLTS

NSN 6135-00-900-2139

WT. 2.0 oz **VOL.** 0.9 in³



DESCRIPTION: Type 9 volt alkaline dry cell battery.

USE: Used in audio projection sets and Fire Finder.

USE TIP: Replace immediately upon first sign of corrosion.

REF: Parent AEL

BATTERY DRY CELL - BA 200
6 VOLTS
COIL SPRING CONTACTS
PKG OF 6

NSN 6135-00-050-3280

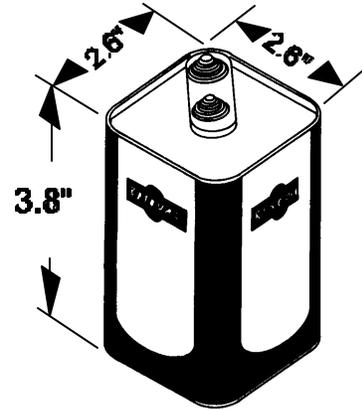
WT. 2.0 lbs. **VOL.** 29.7 in.³

DESCRIPTION: Type 6 volt dry cell battery. Non rechargeable. Coil spring contacts 2.6 x 2.6 x 3.8, Ba-200/u.

USE: Used to power battle lanterns. (Two batteries required per lantern).

USE TIP: Replace immediately upon first sign of corrosion.

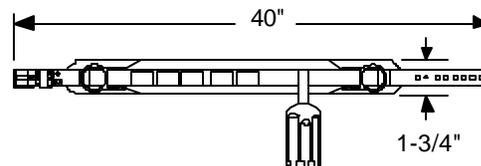
REF: Engineering Spaces Kit.



BELT – INVESTIGATOR
TOOL CARRIER

NSN 5140-00-529-1889

WT. 1.0 lbs. **VOL.** 22.5 in.³



DESCRIPTION: Adjustable size. Tool belt used by investigators.

USE: Used to carry investigator's tools and to allow free movement of hands during the investigation process.

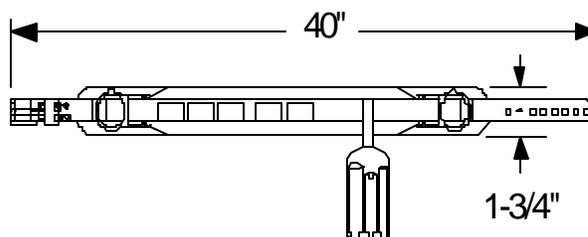
USE TIP: Carry only those tools required for specific investigation zone.

REF: Investigator Kit.

BELT - TOOL ADJUSTABLE

NSN 5140-00-391-1069

WT. 1.0 lbs. **VOL.** 22.5 in³



DESCRIPTION: Adjustable size.
Canvas belt for Electrician's Tool Kit.

USE: Holds pliers, fuse pullers, screwdriver, insulation tapes, twine and adjustable open-end wrenches.

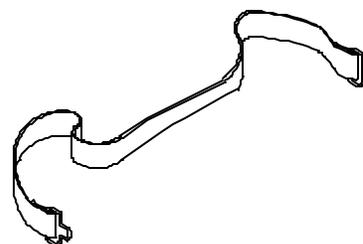
USE TIP: Carry only those tools required for specific investigation zone.

REF: Electrical Repair Kit. NAVSEA Drawing No. 56202-73125.

BELT-WEBB -

0000-LL-CQA-3803 - (select size)
NSN 8465-01-322-1966 - for waists 30" and above.
NSN 8465-01-322-1965 - for waists under 30"

WT. 0.5 lbs **VOL.** 20.0 in³



DESCRIPTION: Canvas belt with an adjustable latch type metal buckle.

USE: Used to carry a 1 quart water canteen.

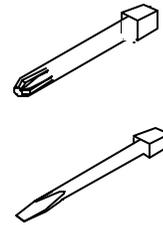
USE TIP: Store with the water canteen.

REF: CBR Personnel CP Equipment Kit.

BIT-SET -

NSN 5120-01-372-4965

WT. 0.5 lbs **VOL.** 20.0 in³



DESCRIPTION: Hardened steel tools include: 1/4" square drive, 1/2" socket adapter, insert bits No. 1 and 2 Phillips, Nos. 6-8, 10-12 slotted: magnetic bit holder.

USE: Used on MHC 51 Class ships for emergencies involving GRP repairs.

USE TIP: Kit stowed in the damage control repair station or the DC repair station area of responsibility with the CO's approval.

REF: Shoring Supplement/GRP Repair Kit.

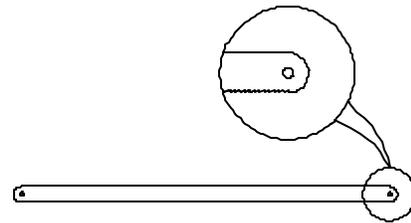
BLADE - HACKSAW 12"

Teeth Size
(24 Teeth per inch)

NSN 5110-00-277-4590

(BOX OF 10)

WT. 0.5 lbs. **VOL.** 3.8 in³



DESCRIPTION: Steel hand hacksaw blades.
1/2 in wide by 0.025 in thick saw blade. 12" length.

USE: Used with adjustable hacksaw to cut metal, tubing and small steel stock.

USE TIP: Fits standard hacksaw frame. Ensure blade teeth point forward when inserting in hacksaw frame.

REF: Electrical Repair Kit and Engineering Spaces Kit.

BLANKET - BED, GRAY

NSN 7210-00-082-5668

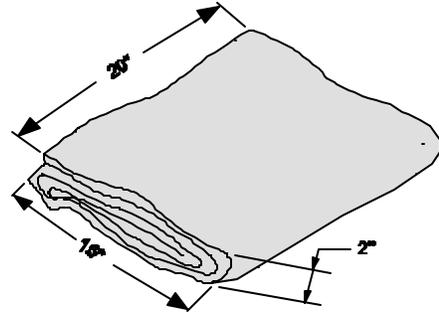
WT. 3.0 lbs **VOL.** 640.0 in³

DESCRIPTION: Gray wool and mohair blanket.
84" long x 60" wide.

USE: For use in rescue and assistance to cover injured personnel, to serve as a stretcher and to act as a smoke curtain when wet.

USE TIP: Stow and fold 16" x 20" x 2".

REF: Rescue and Assistance Reentry Locker.



BRUSH - PAINT

NSN 8020-00-721-9650

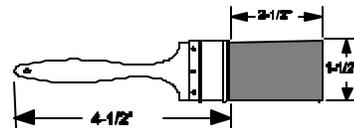
WT. 0.3 lbs. **VOL.** 6.0 in³

DESCRIPTION: Flat bronzing brushes with long handles. Soft hog bristles, or blend of 1/3 hog and 2/3 goat hair. 1-1/2" x 1-3/8" x 5/16".

USE: Used on hard-to-reach metal surfaces.

USE TIP: Wash with cleaner after use.

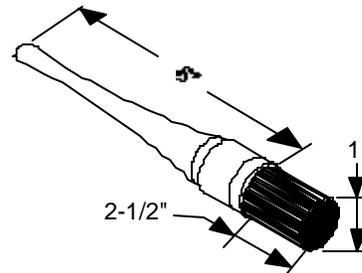
REF: Damage Control Petty Officer (DCPO) Kit.



BRUSH - STENCIL

NSN 7520-00-369-4714

WT. 0.2 lbs. **VOL.** 6.0 in³



DESCRIPTION: Stencil brush. 8-1/2" total length.

USE: Used for stenciling damage control bags and other stenciling operations.

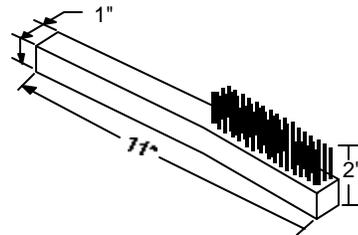
USE TIP: Wash with cleaner after use.

REF: Damage Control Petty Officer (DCPO) Kit.

BRUSH - WIRE

NSN 7920-00-291-5815

WT. 1.0 lbs **VOL.** 26.0 in³



DESCRIPTION: Copper-Beryllium bristles set in a plastic or wood block-handle.

USE: Used for cleaning metal, masonry, wood and other materials of rust, scales, paint and other coatings.

USE TIP: This brush is nonsparking and should be used wherever flammable gases, explosives and other hazardous conditions exist. This is not a corrosion resistant steel brush and should not be used to clean aluminum, corrosion resisting steel and monel.

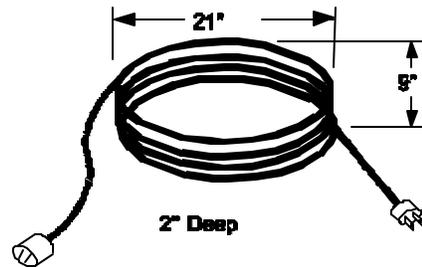
REF: Damage Control Petty Officer (DCPO) Kit.

SECTION C

CABLE - ASSEMBLY
POWER 25 FT

NSN 6150-00-449-1189

WT. 2.6 lbs. **VOL.** 756.0 in³



DESCRIPTION: Electrical power cable 25 feet in length.

USE: Used with Emergency Lighting and Desmoking Kits.

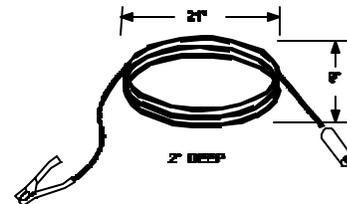
USE TIP: Keep the connection and receptacle dry.

REF: Emergency Lighting Kit and Desmoking Kit.

CABLE - ASSEMBLY
GROUND 25 FEET

1HM0000-LL-CQA-5025

WT. 16.0 lbs. **VOL.** 378.0 in³



DESCRIPTION: Ground cable assembly for welding machine.

USE: Used to ground equipment for welding operations. The ground lead male connection is attached to the 300 ST welder (female connection).

USE TIP: Fabricate 25 foot cable from SHOF 23 TRXF-84, size 1 cable (NSN 9Z 6145-00-914-9010) for ground lead. Procure grounding clamp with NSN 5940-00-156-3322. 1 ea female terminal and 1 ea male terminal (NSN 9G 5940-00-196-2289 to fit into 300 ST Welder female ground connection).

REF: Welding Equipment Kit.

CABLE - ASSEMBLY - WELD
50 FT

1HM0000-LL-CQA-5024

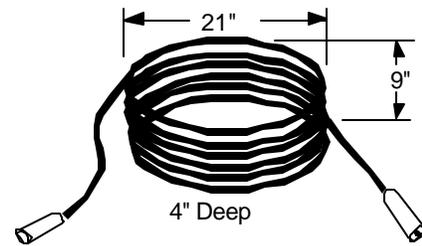
WT. 32.0 lbs. **VOL.** 756.0 in³

DESCRIPTION: Cable assembly for welding machine.

USE: Used with Welding Equipment Kit. The 300 ST welder has female connections for the cable weld lead terminal and ground lead terminal.

USE TIP: Fabricate 50 foot welding lead from SHOF 23, TRXF-84, size 1 cable (NSN 9Z 6145-00-914-9010). Female connection - 9G 5900-00-197-4963. Male connection - 9G 5940-00-196-2289.

REF: Welding Equipment Kit.



CABLE - ASSEMBLY
PWR-50 FT
1 OUTLET 3 CONDUCTOR
0000-LL-CC1-3787

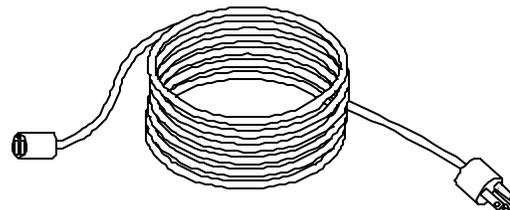
WT. 5.0 lbs. **VOL.** 756.0 in³

DESCRIPTION: 50 foot extension power cable.

USE: Used as an extension power cable. Will be tagged "for emergency use only" IAW NSTM Ch. 300.

USE TIP: Two cables provided in the Emergency Lighting Kit. Fabricate using 50 ft. of NSN 9Z 6145-00-548-1268. 1 each NSN 9N 5935-01-012-3066 and 1 each NSN 9N 5935-01-005-3579. Wire is size 14, 3 conductor OD.610, heavy duty, flexible. Keep connection/receptacle dry.

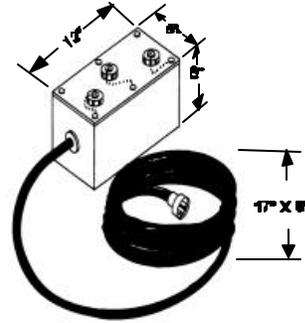
REF: NSTM Ch. 300. Emergency Lighting Kit.



CABLE - ASSEMBLY
POWER ELECTRICAL
40 AMP, 450 VOLT

NSN 6150-00-087-0815

WT. 37.0 lbs. **VOL.** 3468.0 in.³



DESCRIPTION: Extension power cable, 75 ft. 40 amp, 450 vol with a three receptacle connection box.

USE: Extension cable is used to provide power to the submersible pump, 300 ST Welding machine and air compressor.

USE TIP: Two cables are provided in the Dewatering Equipment Kit. This extension cable is plugged into multi purpose 440 volt outlets. Keep connection/receptacles dry.

REF: Dewatering Equipment Kit.

CABLE - CONNECTOR M/F

NSN 5935-01-246-7626

WT. lbs. **VOL.** in.³

DESCRIPTION: Electrical M/F connector for type SHOF 23, TRXF 84 size 1 cable.

USE: Used to provide 440v electrical power to 300 ST Welder.

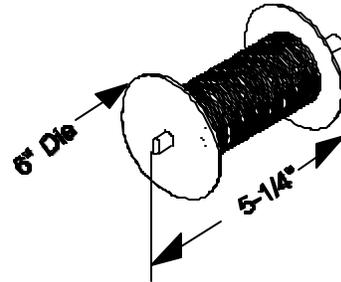
USE TIP: Male/female connector for 50 ft. welding lead. (4 per kit)

REF: Welding Equipment Kit.

CABLE - TEL TY MR-1-D-1 200 FT.

NSN 6145-01-202-7764

WT. 9.0 lbs. **VOL.** 432.0 in.³



DESCRIPTION: Polyethylene cable, orange , cross linked, low smoke. Non-watertight, non-flexing service. Unjacked twisted cable. Stranded copper conductor insulated with polyvinyl chloride. Color coded. Type MR1-D-1.

USE: Used for emergency communications with head sets.

USE TIP: One telephone plug and one telephone jack attached.

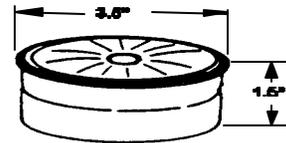
REF: NAVSHIPS plan 9000-S605-74249-SYM2793. Emergency Communications Kit.

CANISTER C2A1 (CP-C2 TYPE) - MCU 2A/P CHEMICAL B)

NSN 4240-01-361-1319

(CAN OF 2)

WT. 1.0 lbs. **VOL.** 34.7 in³



DESCRIPTION: Green canister.

USE: This canister provides full CBR protection when used with the MCU 2A/P mask. It does not protect against carbon monoxide and ammonia or in oxygen deficient atmospheres.

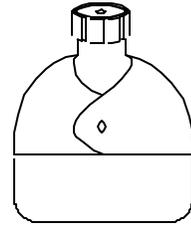
USE TIP: Keep sealed in original container until used.

REF: CBR Personnel CP Equipment Kit.

CANTEEN, WATER - 1 QT

NSN 8465-01-115-0026 - CANTEEN
NSN 8465-00-860-0256 - COVER

WT. 0.5 lbs **VOL.** 52.5 in³



DESCRIPTION: The canteen set consists of a one quart canteen, a canteen cover, cap and a web belt.

USE: Used to carry safe drinking water while conducting damage control evolutions. A quick disconnect coupling and tubing can be attached to the gas mask and used in CBR environments.

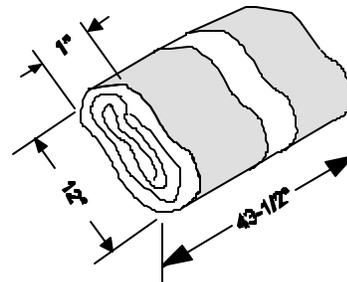
USE TIP: Allowance of canteen sets will be maintained at 105% of Ship's Manning Document (SMD).

REF: CBR Personnel Equipment Kit.

CANVAS - GRAY DUCK CLOTH
36" WIDE ROLL - 6' LENGTH

NSN 8305-00-193-8794

WT. 2.2 lbs. **VOL.** 432.0 in³



DESCRIPTION: 6' x 3' canvas (gray duck cloth)

USE: Used for damage control emergencies in main engineering spaces.

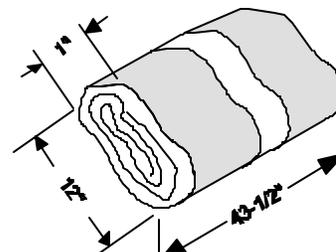
USE TIP: Stow and fold to 12" x 1" x 43-1/2".

REF: Engineering Spaces Kit.

CANVAS - DUCK CLOTH
36" WIDE ROLL - 6' LONG

NSN 8305-01-198-9806

WT. 3.5 lbs. **VOL.** 522.0 in³



DESCRIPTION: 6' x 3' canvas (duck cloth)

USE: Used for pipe patching and plugging operations to prevent plugs and wedges from backing out.

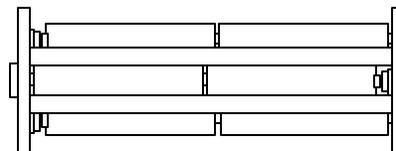
USE TIP: Wrap with line for stowage.

REF: Pipe Patching Kit and Plugging Kit.

CARTRIDGE - BATTERY BOX

NSN 6160-99-779-8099

WT. 1.0 lbs **VOL.** 20.0 in³



DESCRIPTION: Cartridge battery box for storing (10) spare 1.5 volt type AA batteries.

USE: Spare battery cartridge used with the thermal imager.

USE TIP: Battery cartridge will operate NFTI for approx 1-1/2 hours.

REF: Parent AEL

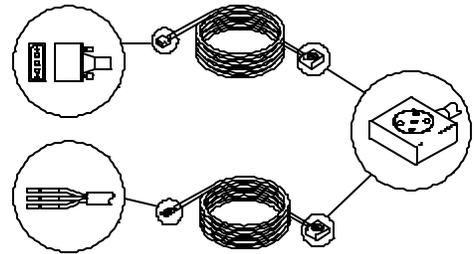
CASUALTY POWER-ADAPTER

440V OUTLET TO CASUALTY POWER OUTLET
WITH GROUNDING WIRE — 10 FT

1HS0000-LL-CJ7-

WT.

VOL.



DESCRIPTION: The casualty power adapter has two versions to work with: the 3 prong connection casualty power system or the single plug type connection system, comprised of 440V outlet, cable 10 feet, and appropriate casualty power connection.

USE: Used for emergencies to connect a portable 440 volt outlet to a casualty power connection in order to run a submersible pump or portable welder (PowCon).

USE TIP: An external grounding lead must be connected to the 440V receptacle end of the adapter cord

REF: Parent AEL.

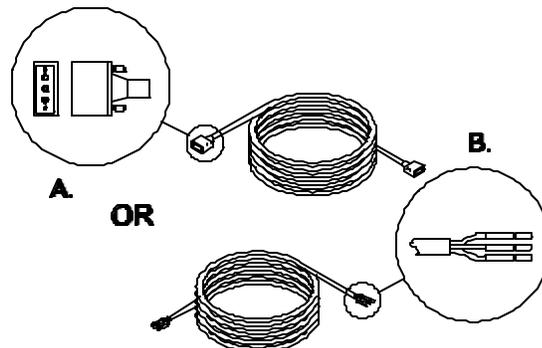
CASUALTY POWER, CABLE ASSEMBLY

75 FT

1HM0000-LL-CQA-0078

WT. 60.0 lbs

VOL. 6,950.0 in³



DESCRIPTION: Casualty power cable assembly.

USE: Used to run emergency casualty power to vital equipment during Condition I. There are two types of casualty power cables used onboard. The older casualty power cable MIL-T-24381 is a three prong connection (pig tails - black, white, red) and uses the casualty power wrench. The newer casualty power system, MIL-T-24552, uses casualty power cables that have a brown single plug connection on both ends and does not require the casualty power wrench.

USE TIP: See Ship's DC Book for listing of lengths and stowage locations.

REF: Parent AEL

**CASUALTY POWER - DANGER -
HIGH VOLTAGE SIGN**

1HS0000-LL-CJ7-5883
(PACKAGE OF 20)

WT. 1.0 lbs. **VOL.** 72.0 in³



DESCRIPTION: Sign with the words "DANGER HIGH VOLTAGE"

USE: Sign used to indicate dangerous high voltage when casualty power system is rigged.

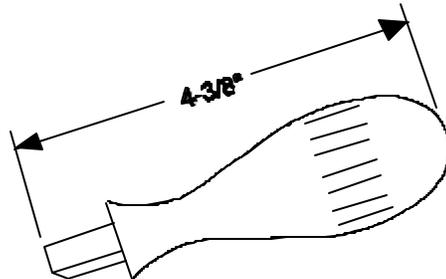
USE TIP: Signs required for personnel safety warning purposes.

REF: Parent AEL

**CASUALTY POWER - WRENCH
(FOR THREE PRONG CASUALTY POWER
SYSTEM USAGE ONLY)**

NSN 5120-00-241-3181

WT. 0.5 lbs **VOL.** 6.5 in³



DESCRIPTION: Special hand tool used with casualty power.

USE: Used to tighten/loosen three pronged (A) (B) (C) casualty power cable to connection box.

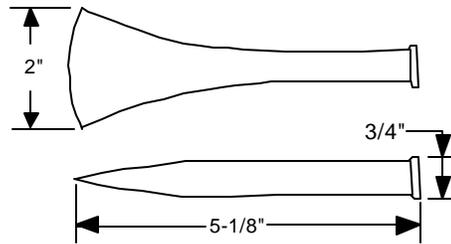
USE TIP: Be sure to be ungrounded when handling power cable connections. Always remember: "Load to source".

REF: Parent AEL

CAULKING - IRON-WD TY 2

NSN 5120-00-222-3241

WT. 2.0 lbs. **VOL.** 7.7 in³



DESCRIPTION: Carbon steel ship-caulking irons. Working end width and overall length as noted. Straight without crease. Caulking iron may also be fabricated out of 1-1/2 inches x 1/8 inch (or 3/16 inch) flat bar approx 4 inches - 6 inches long, and sharpened on one end. DO NOT USE HARDENED STEEL.

USE: Used to stop leaks by driving caulking into split seams or cracks.

USE TIP: Wear safety glasses when striking chisel with hammer. Apply a light coat of oil prior to stowage to prevent rust.

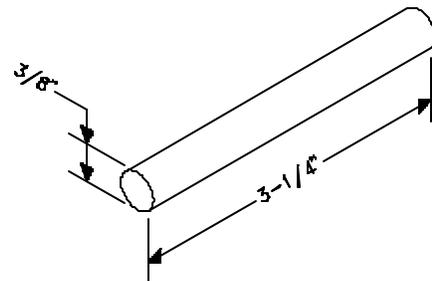
REF: Plugging Kit.

CHALK ASSORTMENT - MARKING

NSN 7510-00-282-6924

(BOX)

WT. 8.0 oz **VOL.** 28.0 in³



DESCRIPTION: Chalk sticks. Assorted colors.

USE: Used to chalk test watertight closures.

USE TIP: Return chalk to kit after use.

REF: Damage Control Petty Officer (DCPO) Kit.

CHALK - MARKING WHITE

NSN 7510-00-223-6706

(BOX)

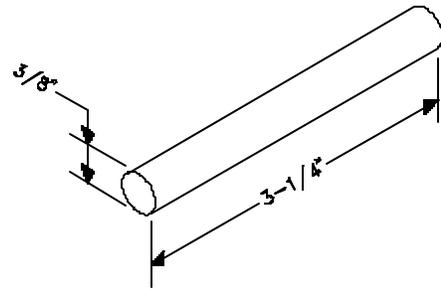
WT. 8.0 oz **VOL.** 28.0 in³

DESCRIPTION: Chalk stick. White only.

USE: This chalk is also used to mark off contaminated areas and indicate dose rates and stay times.

USE TIP: One dozen sticks required per kit. Use chalk on oil free surfaces.

REF: Monitoring Team , CBR Kit.



CHALK - CARPENTERS WHITE

NSN 7510-00-272-9256

(BOX)

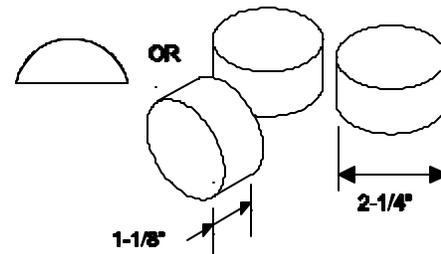
WT. 10.0 oz **VOL.** 105.0 in³

DESCRIPTION: Assorted round or half-round pieces of chalk.

USE: Used to mark sounding tape/bob to determine liquid levels of tanks and voids.

USE TIP: Return chalk to kit after use.

REF: Sounding Kit.



CHEST TOOL - 36" x 26" x 20"
RESCUE AND ASSISTANCE

1HM0000-LL-CQA-0086

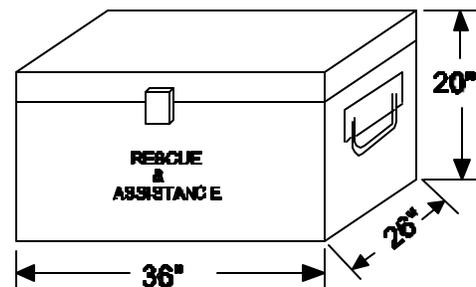
WT. 25.0 lbs. **VOL.** 18,720.0 in³

DESCRIPTION: Red sheet metal box with 8" long, 3" deep hinged handles on both ends.

USE: Used to stow and carry rescue and assistance tools and equipment.

USE TIP: Some ship classes have two chests. Total weight = 105 lbs. including chest.

REF: Rescue and Assistance Chests Kit.



CHEST TOOL KIT - 23" x 9" x 11"

NSN 5140-00-369-4927

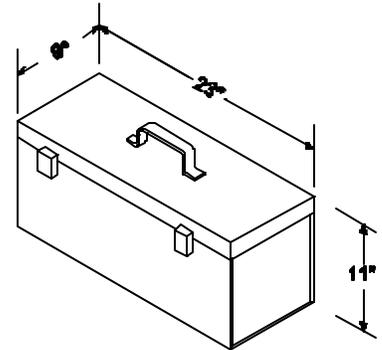
WT. 6.0 lbs. **VOL.** 2,277.0 in³

DESCRIPTION: Sheet metal box with a fixed handle on lid.

USE: Used to stow and carry tools from the Repair Locker Tool Kit.

USE TIP: Stencil chest in two inch high letters. Two chests provided. Coat tools with a preservative oil before storing. Ensure lid is tightly latched before carrying. Total weight = 26 lbs.

REF: Repair Locker Tool Kit.



CHISEL - BLACKSMITH

NSN 5110-00-221-1075

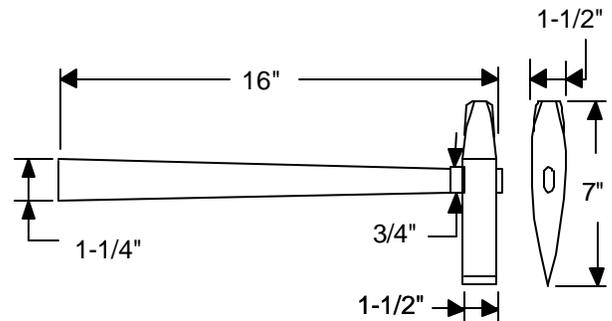
WT. 5.0 lbs. **VOL.** 35.4 in.³

DESCRIPTION: The blacksmith chisel is made of hardened steel and has a 16" long hickory handle. One end of the chisel is blunt for pounding and the other end is tapered to a knife edge for cutting.

USE: Used for cutting cold metals and for working hot iron or steel.

USE TIP: Provide a light coat of oil to prevent rust before storing.

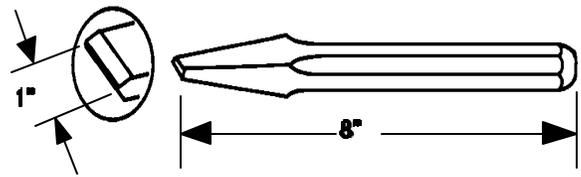
REF: Repair Locker Tool Kit.



CHISEL - COLD

NSN 5110-00-234-1944

WT. 1.5 lbs. **VOL.** 6.3 in.³



DESCRIPTION: 8" Hexagonal shaped made of forged steel, cold chisel. One end is blunt for receiving a hammer blow and the other end is a double beveled edge for cutting.

USE: Used for cutting bolts, rivet heads, and steel plate.

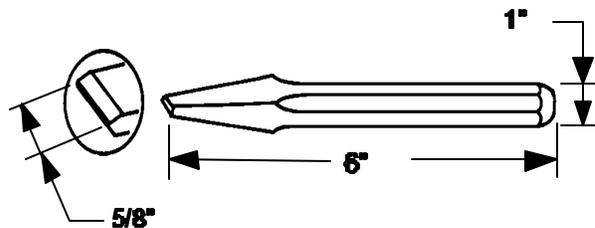
USE TIP: Use safety glasses or goggles when using this tool. Provide a light coat of oil before storing to prevent rust.

REF: Repair Locker Tool Kit.

CHISEL - COLD HAND

NSN 5110-00-221-8132

WT. 1.3 lbs. **VOL.** 2.3 in.³



DESCRIPTION: 6" Hexagonal shaped made of forged steel cold chisel. One end is blunt for receiving a hammer blow and the other end is a double beveled edge for cutting.

USE: Used for cutting bolts, rivet heads, and steel plate.

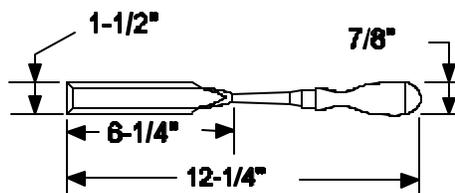
USE TIP: Wear safety glasses or goggles when using this tool. Provide a light coat of oil before storing to prevent rust.

REF: Shoring Tool Kit.

CHISEL – WOOD (FIRMER)

NSN 5110-00-640-5423

WT. 4.0 oz **VOL.** 8.2 in³



DESCRIPTION: Socket type woodworker's chisel. Sharpened and honed with beveled edge. Hand forged and heat treated steel blade with leather capped 6 inch hardwood handle.

USE: Used for notching in shoring, plugging and pipe patching.

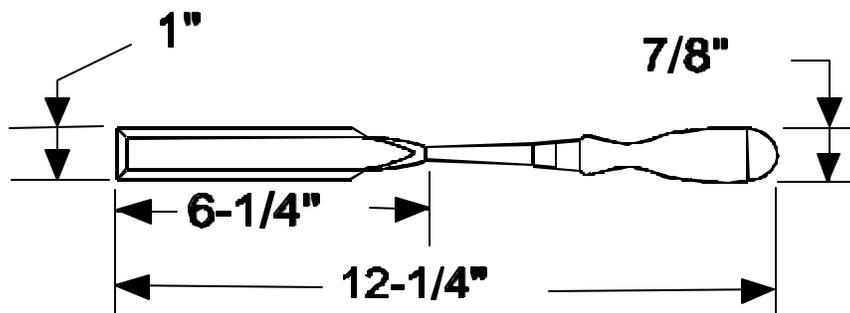
USE TIP: Cutting edges should be padded and padding (cardboard etc.) should be tapped in place to prevent injury and extend the life of the kit bag. Provide light coat of oil before storing to prevent rust. Wear safety glasses or goggles when using this tool.

REF: Engineering Space Kit and Shoring Tool Kit.

CHISEL - WOOD

NSN 5110-00-640-5419

WT. 3.1 oz **VOL.** 6.1 in³



DESCRIPTION: Chisel for wood shaving. Furnished with 6 inch hickory handle. Cutting edge has a 10° angle.

USE: Provided for cutting DC plugs

USE TIP: Cutting edge should be padded to prevent injury and extend the life of the storage bag. Provide light coat of oil before storing to prevent rust.

REF: Pipe Patching Kit.

CLAMP - DAMAGE CONTROL

NSN 4210-01-416-1585 - 1-1/2"
NSN 4210-01-415-1022 - 2-1/2"

WT. 1.5 lbs VOL. 27.5 in³



DESCRIPTION: Made of steel with lever hinged jaws with geared action. The clamp has a spanner wrench built into handle.

USE: Single action design shuts off water in seconds. Effective clamp to remove debris from clogged strainers. Clamp hoses up to 125 psi.

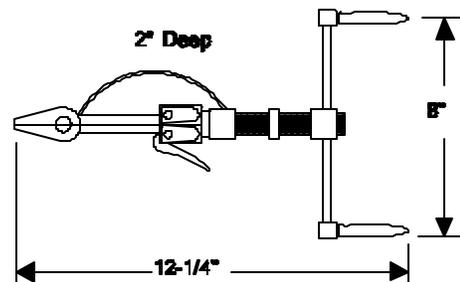
USE TIP: To operate simply roll the hose into the open jaws and press the handle to lock into place. Stow within DCRS on a shelf or in a bin. One each size per DCRS.

REF: Safety/Survivability NDI Equipment.

CLAMPING TOOL - STRAP

NSN 5120-00-278-9925

WT. 3.0 lbs. VOL. 159.3 in.³



DESCRIPTION: Cutting and tensioning tool for steel strapping.

USE: Used in pipe patching repair operations. Also used in splicing/electrical welding cable, tying conduit or cable to pipe lines or girders, and making cable line taps. Handles 1/2 inch wide and 0.025 inch through 0.030 inch thick, 100 ft in length. Metal strapping at tensions up to 2700 lbs when attaching pliable strapping to rigid tubing.

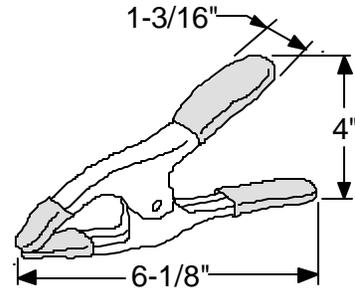
USE TIP: Damage control banding tool kits contain material which is to be used for temporary repairs to fluid systems where operating temperatures are 250°F or less. The exact pressure that can be contained depends on the size of the pipe; the type, size, and shape of the hole; the surface condition of the pipe; the number of straps applied; and the skill of the operator. The larger the pipe diameter and the hole size, the less the pressure that can be contained. Wear safety glasses or goggles when using this clamping tool. Spray or wipe with oil before stowing.

REF: Banding Tool Kit.

CLAMP SPRING - SMOKE CURTAIN

NSN 5120-01-121-5023

WT. 6.0 oz **VOL.** 29.1 in³



DESCRIPTION: Spring clamp made of steel.

USE: Used to secure smoke curtains in doorways to maintain a smoke boundary with fire hose rigged.

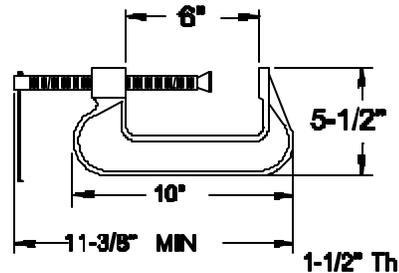
USE TIP: Eight provided with each smoke curtain.

REF: NAVSEA Drawing No. 803-5959318. Desmoking Kit.

**CLAMP "C" -
6" OPENING**

NSN 5120-00-203-6431

WT. 6.0 lbs. **VOL.** 101.3 in.³



DESCRIPTION: "C" clamp with a 6" opening.

USE: Used to hold plugs, flanges, plates or patches in place. For example, a block of soft wood may be rough-shaped to fit over a damaged area in a pipe, and the pad may be held in place tightly with two thumb clamps. Other uses include securing block and tackle to overhead I-beam while I-hook is not installed and also for securing shores.

USE TIP: Care must be taken to reinspect patches held in place by clamps, as they have a tendency to work loose under shock or vibration. Keep screw threads lubricated.

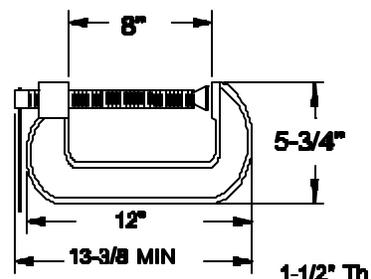
REF: Repair Locker Tool Kit.

**CLAMP "C" -
8" OPENING**

NSN 5120-00-840-3358

WT. 8.0 lbs **VOL.** 175.5 in³

DESCRIPTION: "C" clamp with an 8" opening.



USE: Used to hold plugs, flanges, plates or patches in place. For example, a block of soft wood may be rough-shaped to fit over a damaged area in a pipe, and the pad may be held in place tightly with two thumb clamps. Other uses include securing block and tackle to overhead I-beam while I-hook is not installed and also for securing shores.

USE TIP: Care must be taken to reinspect patches held in place by clamps, as they have a tendency to kick loose under shock or vibration. Keep screw threads lubricated.

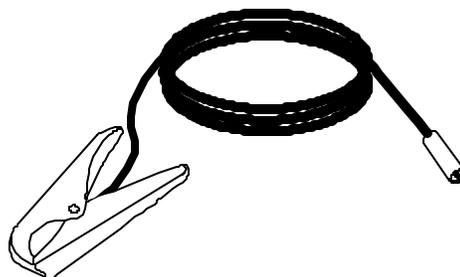
REF: Repair Locker Tool Kit.

CLAMP WELDING GROUNDING

NSN 3439-00-156-3322

WT. 8.0 oz. **VOL.** 24.0 in³

DESCRIPTION: Welding cable grounding clamp.



USE: Connect lead to portable 300 ST welding machine ground clamp which will be attached to ship's hull or other satisfactory ground during welding operations.

USE TIP: Use champ – welding grounding NSN 5940-00-156-3322 and attach to cable grounding cable assembly 25' type SHOF-23 TRXF-84.

REF: Welding Equipment Kit.

CLIPBOARD

NSN 7520-00-240-5503

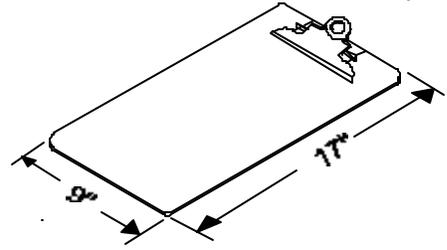
WT. 0.2 lbs **VOL.** 19.1 in³

DESCRIPTION: Composition Hardboard with a 5-1/2 inch non-rusting metal clip. 1 inch capacity.

USE: Used for general damage control operations.

USE TIP: Clipboard has hole for hanging on wall.

REF: DAMAGE CONTROL UNIT LOCKER (DCUL)



CLOTH - SILICA WELDER'S - 1/8" THICK

NSN 8305-01-035-1058

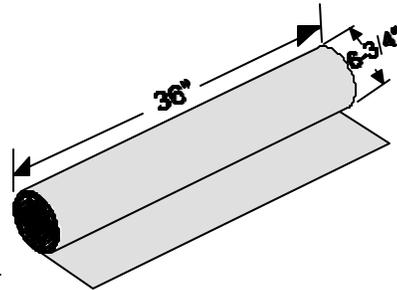
WT. 6.0 lbs **VOL.** 1,640.0 in³

DESCRIPTION: Welder's cloth

USE: Used as a protection of equipment, decks, carpets and furnishings from slag spray during welding or PECU operations.

USE TIP: Roll up to stow.

REF: Welding Equipment Kit.

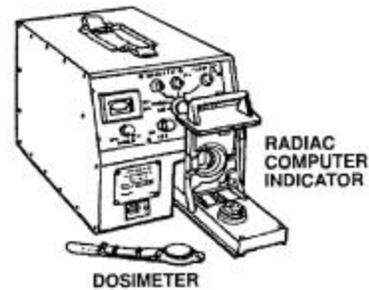


COMPUTER – INDICATOR (RADIAC)
CP-95/PD

NSN 6665-00-526-8645RE

WT. 20.0 lbs

VOL. 1,420.0 in³



DESCRIPTION: The computer indicator operates satisfactorily over a range from 0-200 roentgens in 10 roentgen steps and 0-1000 roentgens in 20 roentgen steps with each 100 roentgen being a major subdivision.

USE: CP-95/PD Radiac Dosimeter Reader for DT--60/PD has the dual function of computing and indicating x-ray and gamma radiation to which the Radiac Detector DT-60 has been exposed.

USE TIP: See AEL 2-770004200 Series for ship class applicability and additional CBR equipment quantities.

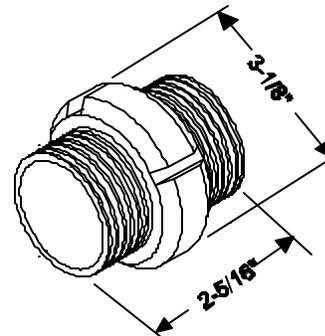
REF: CBR Detection Equipment Kit.

CONNECTION - HOSE
DOUBLE MALE 1-1/2" NPSH
WITH ROCKER LUGS

NSN 4210-00-277-3374

WT. 0.5 lbs.

VOL. 21.3 in.³



DESCRIPTION: Copper alloy fitting with identical male NPSH hose connections at each end.

USE: Used to connect two 1-1/2 inch female end hose connections.

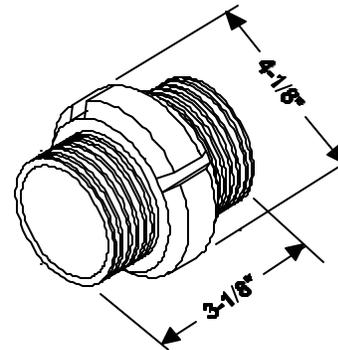
USE TIP: Avoid damage to threads.

REF: Repair Locker Tool Kit.

CONNECTION - HOSE
DOUBLE MALE 2-1/2" NH
WITH ROCKER LUGS

NSN 4210-00-277-3375

WT. 1.0 lbs. **VOL.** 53.2 in.³



DESCRIPTION: Copper alloy fitting with identical male NPSH hose connections at each end.

USE: Used to connect two 2-1/2 inch female end hose connections.

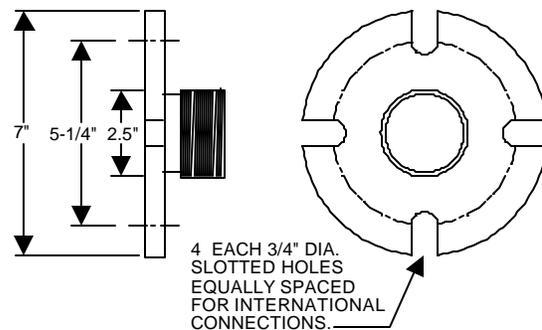
USE TIP: Avoid damage to threads.

REF: Repair Locker Tool Kit.

CONNECTION - INTERNATIONAL SHIP

NSN 4730-00-932-4753

WT. 9.0 lbs. **VOL.** 153.1 in.³



DESCRIPTION: Ship to shore firemain fitting with variable bolt circle diameter (slots) to permit use in foreign ports.

USE: Allows charging of the ship's firemain from shore in any US or overseas port. There are four each 3/4 inch diameter slotted holes equally spaced for connections. The bolt slots allow connection between flanges of difference bolt circles. All the items with bolt holes or slots must have the required nuts, bolts, and gaskets attached..

USE TIP: Two international shore connections are required as discussed in Repair Party Manual (CNSL INST 3541.1 Series).

REF: NSTM 079 Vol 2 Sect 43.162. Rescue and Assistance Chests - Kit.

CONNECTION - TRI GATE

2-1/2" NH INLET x TWO 1-1/2" NPSH OUTLETS X
ONE 2-1/2" NH OUTLET

NSN 4210-01-038-6001

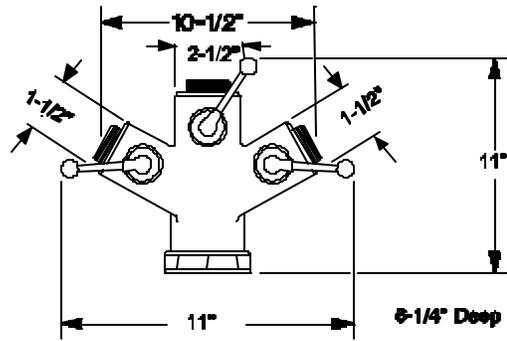
WT. 15.3 lbs **VOL.** 425.5 in³

DESCRIPTION: Three way hose connection.

USE: Used with P-100 and P-250 pumps which have two 1-1/2 inch outlets to attach two 1-1/2 inch lines and one 2-1/2 inch outlet for supplying an eductor.

USE TIP: Some P-250 pumps may still be in inventory. Handle trigate with care. Protect threads and coat with silicone.

REF: Portable Pump Accessories Kit.



**CONNECTOR PLUG - ELECTRIC
CASUALTY POWER SYSTEM**

5935-01-005-6401

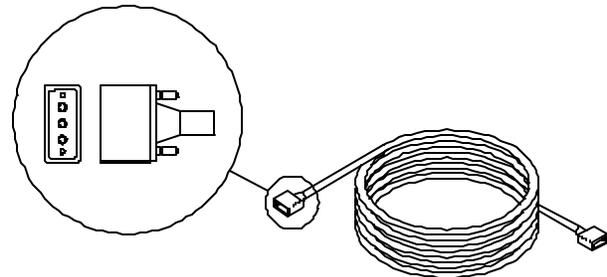
WT. 1.2 lbs. **VOL.** 52.5 in³

DESCRIPTION: Electrical connector plug.

USE: Used with casualty power system. New style system only.

USE TIP: Provided to fleet operating ships as NAVSEA funds are available.

REF: Parent AEL



**CONTAINER - STRAPPING
DISPENSER - PRESSURE**

NSN 7520-01-420-4595

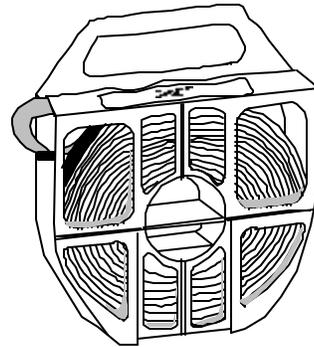
WT. 1.5 lbs **VOL.** 121.0 in³

DESCRIPTION: Steel strapping material and plastic storage container.

USE: Used to stow steel strapping.

USE TIP: Cut hole in case to insert bitter end of strapping for safety.

REF: Banding Tool Kit.



COTTER PIN - ASSORTMENT

NSN 5315-00-598-5916

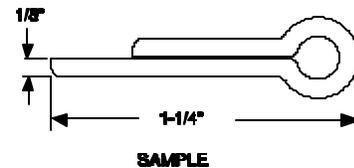
WT. VARIOUS **VOL.** VARIOUS

DESCRIPTION: Stainless steel or bronze cotter pins.

USE: Inserted through locking holes, shafts or locking nuts to hold machinery components in place.

USE TIP: The cotter pin is put through hole and tips are then bent to prevent it from sliding out. The pin is removed by bending the tips straight and pulling the loop end with pliers.

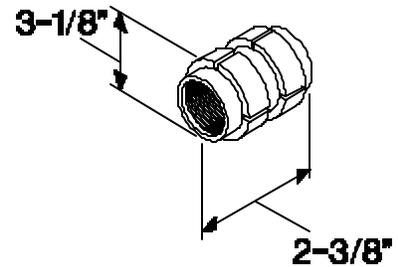
REF: Damage Control Petty Officer (DCPO) Kit.



COUPLING HOSE - HOSE 1-1/2" NPSH
DOUBLE FEMALE,

NSN 4210-00-307-4699

WT. 2.5 lbs. **VOL.** 18.2 in.³



DESCRIPTION: Hose coupling fitting made of copper alloy with standard 1-1/2 inch, NPSH female threads on both ends.

USE: Used to facilitate connecting two male couplings and for connecting a male coupling to a fire plug or wye/tri-gate.

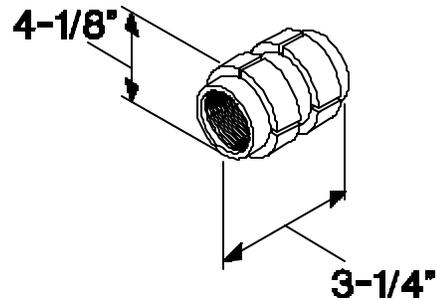
USE TIP: Both ends are identical with swivels, rocker and gasket seals.

REF: Adapters/Connections Kit.

COUPLING HOSE - HOSE 2-1/2" NH
DOUBLE FEMALE,

NSN 4210-00-288-8816

WT. 4.0 lbs. **VOL.** 53.2 in.³



DESCRIPTION: Hose coupling made of copper alloy with 2-1/2" NH female threads on both ends.

USE: Used to facilitate connecting two male couplings, make up jumperline assemblies and connecting to a male connector on a fire plug.

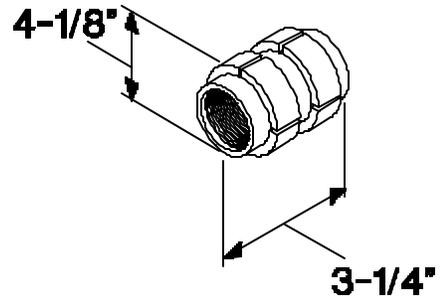
USE TIP: Both ends are identical with swivels, rocker and gasket seals.

REF: Adapters/Connections Kit.

**COUPLING HOSE - HOSE 2-1/2" F NH TO 3" F NH
DOUBLE FEMALE**

NSN – (to be determined)

WT. 6.0 lbs. **VOL.** 75.0 in.³



DESCRIPTION: Hose coupling fitting made of copper alloy with standard 2-1/2" female NH thread at one end and standard 3" female thread on the other end.

USE: Used to connect P-100 pumps for tandem pumping operations. Connected to 2-1/2" discharge hose on pump No. 1 and 3" (inlet) suction side on pump No. 2.

USE TIP: With swivels, rocker and gasket seals.

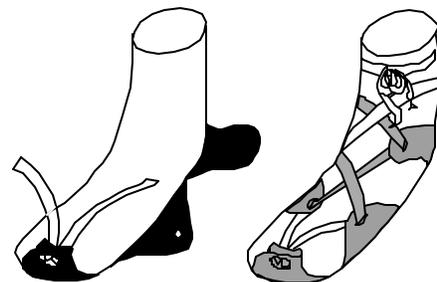
REF: Adapters/Connections Kit.

CP-FOOTWEAR COVERS - CHEMICAL PROTECTION

NSN 8430-01-021-5978 **SIZE** LRG

BOX OF 20

WT. 54.0 lbs. **VOL.** 6480.0 in³



DESCRIPTION: Strap on protective covers for footwear.

USE: The footwear cover to be worn over shoes is intended to provide protection of the feet from chemical agents.

USE TIP: See AEL 2-770004243 series for ship class applicability and CBR equipment quantities.

REF: CBR Personnel CP Equipment Kit.

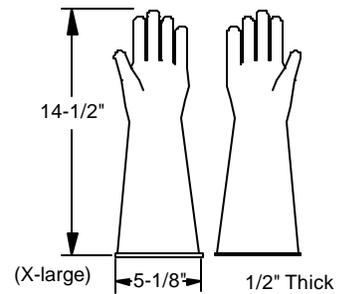
CP-GLOVES - CBR PROTECTIVE

1HM0000-LL-CQA-2499 (SELECT SIZE)
NSN 8415-01-033-3517 SIZE SML
NSN 8415-01-033-3518 SIZE MED
NSN 8415-01-033-3519 SIZE LRG
NSN 8415-01-033-3520 SIZE X-LRG

BOX OF 72

WT. 36.0 lbs
(0.5 lb pr)

VOL. 5316.5 in³
(74.3 in³ pr)



DESCRIPTION: The glove set is comprised of an outer glove and an inner glove. The outer glove is an unsupported dipped glove with a rolled edge around the gauntlet. The inner glove is ambidextrous.

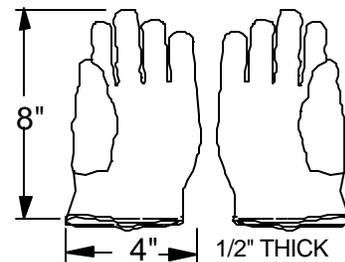
USE: Used for protection of the hands in a chemical warfare environment.

USE TIP: The outer pair of gloves is rubber and the inner pair is CP cotton.

REF: CBR Personnel CP Equipment Kit.

CP-GLOVE INSERT - COTTON

NSN 0000-LL-CQA-4938 - SELECT SIZE
NSN 8415-01-144-1862 - X-SML
NSN 8415-01-138-2494 - SML
NSN 8415-01-138-2495 - MED
NSN 8415-01-138-2496 - LRG
WT. 1.5 oz **VOL.** 32.0 in³



DESCRIPTION: Cotton glove inserts in selected sizes.

USE: Used in Type II chemical protective gloves during CBR training and emergency evolutions.

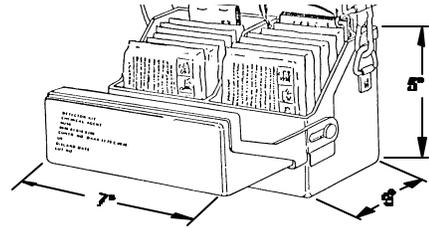
USE TIP: Used with the outer pair of CP rubber gloves.

REF: CBR Personnel CP Equipment Kit.

CP-KIT - M256A1 DETECTOR

NSN 6665-01-133-4964

WT. 1.2 lbs **VOL.** 105.0 in³



DESCRIPTION: Detector for chemical warfare agents.

USE: This kit identifies all equipment used for the function of detecting the presence of lethal gases or liquids in a chemical warfare environment.

USE TIP: Kit consists of 12 sample detectors, instruction card and a book of M8 chemical agent detector paper.

REF: .CBR Detection Equipment Kit.

CP-KIT, M291 DECON

NSN 6850-01-276-1905

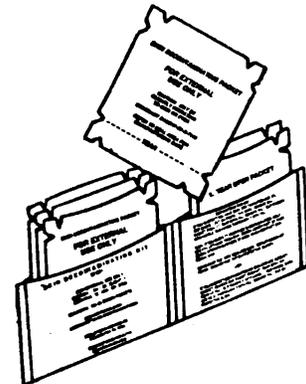
WT. 3.2 oz **VOL.** 19.2 in³

DESCRIPTION: Personnel skin decontamination kit.

USE: Provided for DC repair parties.

USE TIP: See AEL 2-770004243 series for ship class applicability and CBR equipment quantities.

REF: CBR Personnel CP Equipment Kit.

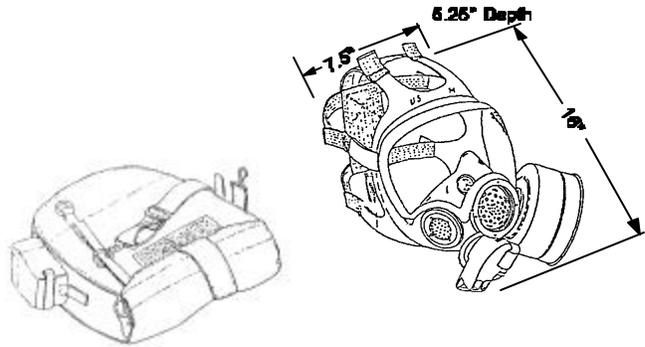


CP-MASK - MCU 2A/P

1HM0000-LL-CQA-3202 (SELECT SIZE)
NSN 4240-01-327-4148 SIZE SML

NSN 4240-01-327-4149 SIZE MED
NSN 4240-01-327-4150 SIZE LRG

WT. 6.4 lbs **VOL.** 575.9 in³



DESCRIPTION: Face mask for CBR protection which consists of a unimolded, silicone rubber face piece with an attached, transparent, flexible lens; a single screw-on filtration canister; front and side voicemitters; inlet valve assembly; head harness; exhalation valve assembly with an integral drinking tube; and a rigid lens protective outset. It has an internal nose cup to prevent fogging.

USE: The mask provides full CBR protection. It accommodates the use of tri-service/NATO canisters (C2).

USE TIP: This mask does not protect against carbon monoxide and ammonia or in oxygen deficient atmospheres.

REF: CBR Personnel CP Equipment Kit.

CP-OVERGARMENT

1H 0000-LL-CQA-2504 (SELECT SIZE)
NSN 8415-01-214-8289 SIZE SML
NSN 8415-01-214-8290 SIZE MED
NSN 8415-01-214-8291 SIZE LRG
NSN 8415-01-214-8292 SIZE X-LRG

(BOX)

WT. 3.3 lbs. **VOL.** 305.3 in³ (STOWED 6" X 11" X 4-5/8")



DESCRIPTION: Two piece upper and lower garment. The shirt-like upper garment has a hood and has hook, pile and tape fastenings at the wrist and waist. The trousers have suspender type fittings located at the waist and across the shoulders, front typing, and hook and pile fastenings at base of each leg for adjustment. A two inch wide white band is painted around the sleeves of jumper and trouser legs.

USE: Used to protect against all CBR agents and is permeable to water vapor.

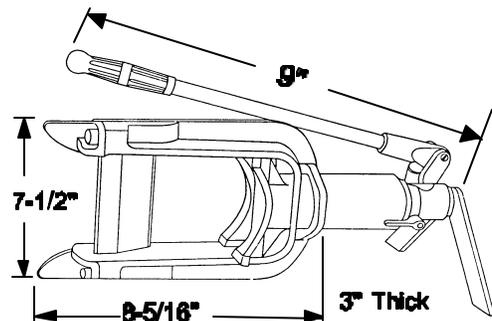
USE TIP: Once removed from its protective envelope it has a shelf life of 14 days in a non-chemical environment. Once the suit is unpackaged or damaged, it should be used for training purposes and marked so as to be readily identifiable and not mistaken for effective CBR ensembles. Once exposed to chemical contamination, the CBR suit provides six hours of continuous protection after which it is to be removed.

REF: NAVSEA Document NCTRF/PD 10-84. CBR Personnel CP Equipment Kit.

CUTTER - CABLE, HAND OPERATED

NSN 5110-00-595-8267

WT. 16.0 lbs. **VOL.** 427.5 in³



DESCRIPTION: Hydraulic powered large diameter cable cutter.

USE: Used for cutting in-place armored and lead sheathed cables up to 2-1/2 inch diameter. Consists of pump, necessary valves and allied mechanisms. Minimum pressure of 9000 PSI.

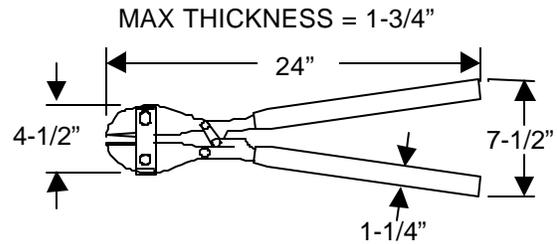
USE TIP: Keep cutting edge lubricated.

REF: Repair Locker Tool Kit (Engineer DCRS only).

CUTTER - BOLT

NSN 5110-00-596-9156

WT. 7.0 lbs. **VOL.** 171.9 in.³



DESCRIPTION: Adjustable rigid-head bolt cutter. 24 inches in length, 3/8 inch capacity. Clipper cut (close-cutting).

USE: Used as damage control access tool. Used to cut locks, wrought-iron, annealed soft-steel bolts, rivets, and cold-drawn screw stock.

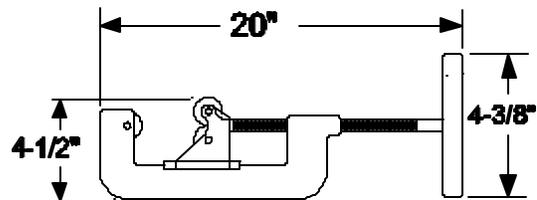
USE TIP: Keep cutting edge and hinges lubricated.

REF: Firefighting/Access Equipment Kit.

CUTTER - PIPE
1/8" TO 2"

NSN 5110-00-293-0460

WT. 12.0 lbs. **VOL.** 180.0 in³



DESCRIPTION: Pipe cutter has one cutter wheel and two rollers. Sliding hand feed.

USE: Used for cutting steel or wrought iron pipe from 1/8 inch to 2 inches.

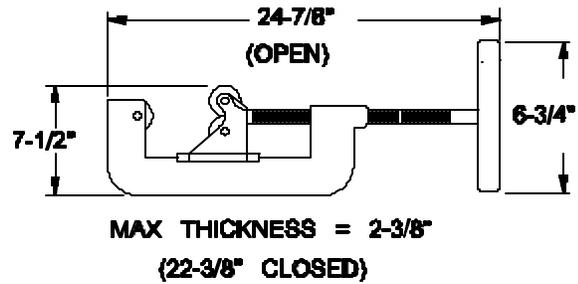
USE TIP: Keep cutter and threads lubricated with light coat of oil.

REF: Repair Locker Tool Kit.

CUTTER - PIPE
2-1/2" TO 4"

NSN 5110-00-221-1049

WT. 19.0 lbs. **VOL.** 443.8 in.³



DESCRIPTION: Pipe cutter has one cutter wheel and two rollers. Sliding hand feed.

USE: Used for cutting steel or wrought-iron pipe from 2-1/2 inches to 4 inches.

USE TIP: Keep cutter and threads lubricated with light coat of oil.

REF: Repair Locker Tool Kit.

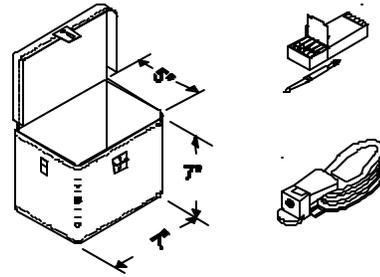
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SECTION D

DETECTOR KIT - GAS TOXIC "DRAEGER" - MOD 400

NSN 6665-00-710-7815

WT. 3.0 lbs. **VOL.** 253.8 in³



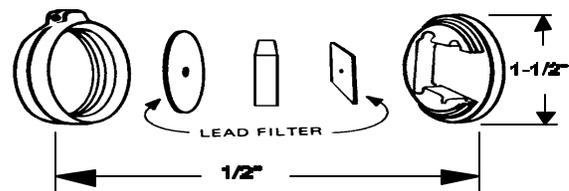
DESCRIPTION: The two essential components of the Draeger Kit are the gas detector bellow pump and the associated tubes. The pump and the particular tube together form a complete unit. The bellow pump simultaneously sucks in and measures the gas volume.

USE: Used to check/test compartments, tanks, and voids for the following toxic gases: Carbon dioxide, carbon monoxide, ethylene oxide, hydrocarbons, hydrocyanic acid, hydrogen chloride, hydrogen fluoride, hydrogen sulphide, nitrogen dioxide, phosgene and vinyl chloride. It can be operated with one hand and sucks in 100 CM³ per stroke. The gas detector tubes contain a chemical which is designed to measure atmospheric concentrations of various gases. Measurements are made by breaking the tips of the glass tube and inserting them into the detector tube pump. The pump draws in a measured sample of gas into the tube. The chemical agent in the tube reacts with the atmospheric gas to be monitored and changes in color, which is shown on a scale.

USE TIP: Tubes should be discarded after being read. See AEL 2-870004169 for list of tubes required.

REF: Gas Free Engineer Kit.

DETECTOR - RADIAC
DT-60
CASUALTY PERSONNEL DOSIMETER
RANGE 25R TO 600R OR 10R TO 600R
DEPENDING ON MODEL



NSN 6665-00-526-7836

(BOX OF 30)
WT. 1.9 lbs. **VOL.** 179.2 in³

DESCRIPTION: Non self-reading personnel dosimeter.

USE: Used to record accumulative dosage of gamma radiation.

USE TIP: ; The D-60 is inserted into the CP95 to be read. There is a seven digit serial number affixed to back plate for accountability.

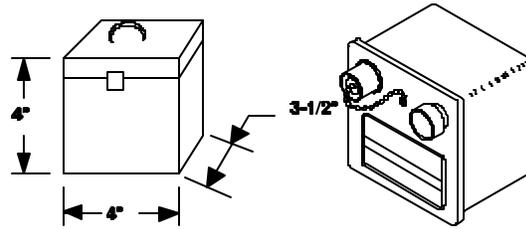
REF: CBR Personnel CP Equipment Kit.

DOSIMETER CHARGER -

PP-4276/PD

NSN 6665-00-489-3106RE

WT. 13.5 oz **VOL.** 56.0 in³



DESCRIPTION: Radiation monitoring equipment charger.

USE: Used to charge or reset the pocket dosimeter IM143-PD to zero.

USE TIP: See AEL 2-770004200 series for ship class applicability and additional CBR equipment quantities.

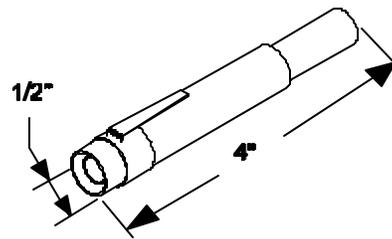
REF: CBR Detection Equipment Kit.

DOSIMETER - HIGH RANGE

IM-143/PD

NSN 6665-00-764-6395RE

WT. 2.0 oz **VOL.** 4.0 in³



DESCRIPTION: Self-reading personnel dosimeter.
Range 0-600 Roentgens.

USE: Used to read accumulative exposure to gamma radiation.

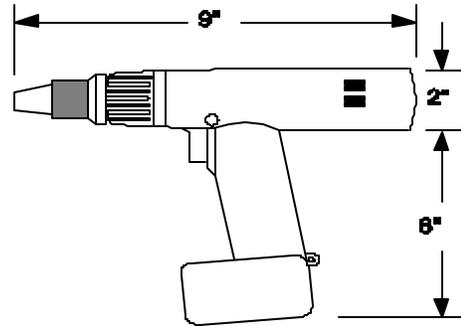
USE TIP: See AEL 2-770004200 series for ship class applicability and additional CBR equipment quantities.

REF: CBR Detection Equipment Kit.

DRILL, ELECTRIC, PORTABLE

NSN 5130-01-284-3063

WT. 3.0 lbs **VOL.** 100.0 in³



DESCRIPTION: Cordless drill/screwdriver. Reversible, high torque, 12volt, 800 RPM with removable battery pack.

USE: Used in DC emergencies and GRP repair. Used to drill pilot holes and drive lag bolts.

USE TIP: For MHC Class ships.

REF: Shoring Supplement/GRP Repair Kit.

DRILL TWIST BIT -

NSN 5133-00-227-9650 1/8"

NSN 5133-00-227-9654 3/16"

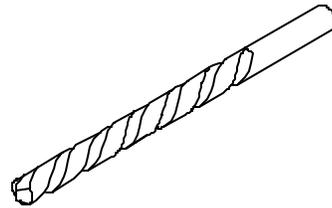
NSN 5133-00-227-9658 1/4"

NSN 5133-00-227-9666 3/8"

NSN 5133-00-227-9672 1/2"

(1 DOZ EA SIZE PER SET)

WT. 10.0 lbs. **VOL.** 120.0 in³



DESCRIPTION: Drill bit made of high speed steel available in diameters (size) listed above.

USE: Used with 1/2 inch electric drill motor in DC emergencies for drilling holes into ferrous and nonferrous material.

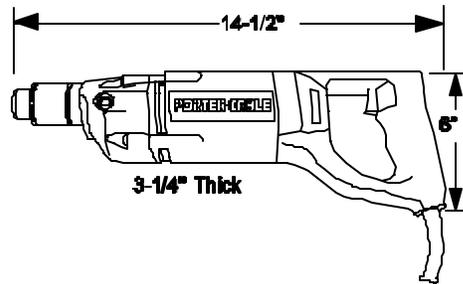
USE TIP: Keep bit lubricated when drilling in hard materials such as steel and aluminum.

REF: Repair Locker Tool Kit.

DRILL - ELECTRIC PORTABLE
1/2"

NSN 5130-00-293-1849

WT. 6.6 lbs **VOL.** 282.8 in³



DESCRIPTION: Electric hand drill with a "D" Type handle for high torque jobs. Comes with a chuck that accepts bits up to 1/2" in diameter.

USE: Used in DC emergencies on waterless systems and above the ship's waterline. Can be used to drill holes at the end of cracks in hull/superstructure and bulkheads to help prevent cracks from extending in metal plate.

USE TIP: Do not use while standing in water or in areas where water is likely to spray on the drill.

REF: Repair Locker Tool Kit.

DUCT - MANHOLE/SCUTTLE
SADDLE VENT

NSN 4240-01-414-3530

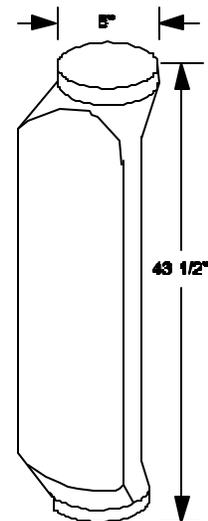
WT. 8.0 lbs **VOL.** 3,418.5 in³

DESCRIPTION: Metal duct section that accepts an 8 inch diameter flexible duct hose at each end.

USE: Used to provide ventilation to a space or void and still permit access to and from the manhole or scuttle. A hatch bolt is used to secure vent saddle.

USE TIP: One per DCRS. Stow with desmoking equipment.

REF: NDI Equipment

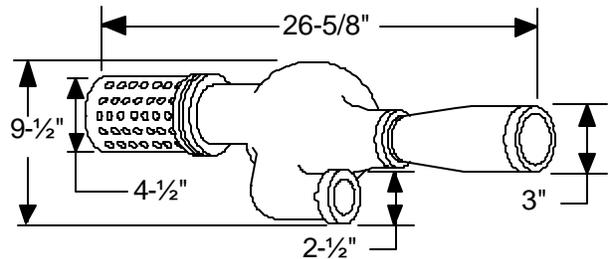


SECTION E

EDUCTOR - 1-1/2" NPSH
1-1/2" NPSH INLET x 2-1/2" NH OUTLET

NSN 4320-00-217-0938

WT. 20.0 lbs. **VOL.** 2,227.5 in³



DESCRIPTION: In eductors, the velocity of the high pressure water jet creates a vacuum which sucks additional water from the flooded compartment into the eductor combining chamber, where the high pressure stream picks it up and carries it along through the discharge hose. The total amount of water discharged is the entire capacity of the P-100 pump. All the water from the pump plus the water picked up from the compartment through the vacuum produced passes through the eductor. While it may appear that something is obtained for nothing, the action actually represents a conversion process in which a high pressure stream of a certain volume contains sufficient energy to move a water stream of larger volume against a lower pressure. This action, when compared to direct pumping, results in increased dewatering capacities at static discharge heads up to 55'.

USE: Used in dewatering operations to remove water from a flooded space. Used with 1-1/2 inch fire hose for supply and 2-1/2 inch fire hose for discharge for dewatering compartments in superstructure or spaces forward and aft of main/auxiliary engineering spaces not covered by the main and secondary drainage system. Valuable for pumping out compartments with fuels since eductor operation involves no fire/explosive hazard. Also used to remove water from compartments where the suction lift of a pump is exceeded. Used in connection with a P-100 pump if the suction lift is over 20'.

USE TIP: The eductor is attached to the lower end of the suction hose instead of the regular foot valve assembly. A built-in foot valve and strainer are part of the eductor. The 2-1/2" pressure hose from the three-way gate valve (which is attached to the discharge opening of the impeller housing) is connected to the pressure connection of the eductor.

The eductor must be fully submerged; otherwise severe damage could occur to the P-100 pump. The discharge from the pump unit through the eductor raises the water part of the distance to the pump, while the suction of the pump itself raises it the rest of the way. Thus, lifts of more than 20' may be accomplished. The pump must always be primed manually whenever the eductor is used. Capacity: 265 GPM.

To prime the pump manually:

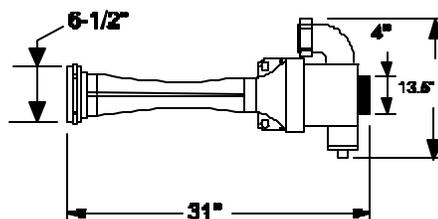
- a. Loosen the wing nut securing the manual priming lever and lift the lever.
- b. Fill the impeller housing and suction hose with water through the bowl.
- c. Close and lock the priming lever with the wing nut.
- d. Start the pump.

REF: Dewatering Equipment Kit.

EDUCTOR - PERI-JET
2-1/2" NH INLET x 4" OUTLET

NSN 4320-00-256-8206

WT. 35.0 lbs. **VOL.** 2,720.0 in³



DESCRIPTION: In eductors, the velocity of the high pressure water jet creates a vacuum which sucks additional water from the flooded compartment into the eductor combining chamber, where the high pressure stream picks it up and carries it along through the discharge hose. The total amount of water discharged is the entire capacity of the P-100 pump. All the water from the pump plus the water picked up from the compartment through the vacuum produced passes through the eductor. While it may appear that something is obtained for nothing, the action actually represents a conversion process in which a high pressure stream of a certain volume contains sufficient energy to move a water stream of larger volume against a lower pressure. This action, when compared to direct pumping, results in increased dewatering capacities at static discharge heads up to 55'.

USE: Used in dewatering operations with a portable pump or off the firemain to remove water and small debris from a flooded space. Used with the 2-1/2 inch fire hose for supply and the 4 inch hose for discharge. Can be used in engineering spaces to augment the main drainage system or other large compartments with significant flooding. Valuable for pumping out compartments with fuels since eductor operation involves no fire/explosive hazard.

USE TIP: The eductor must be fully submerged; otherwise severe damage could occur to the P-100 pump. The discharge from the pump unit through the eductor raises the water part of the distance to the pump, while the suction of the pump itself raises it the rest of the way. Thus, lifts of more than 20' may be accomplished. The pump must always be primed manually whenever the eductor is used.

To prime the pump manually:

- a. Loosen the wing nut securing the manual priming lever and lift the lever.
- b. Fill the impeller housing and suction hose with water through the bowl.
- c. Close and lock the priming lever with the wing nut.
- d. Start the pump.

In eductors, the velocity of the high pressure water jet creates a vacuum which sucks additional water from the flooded compartment into the eductor combining chamber, where the high pressure stream picks it up and carries it along through the discharge hose. Capacity 530 gpm, discharge head of 30 ft. A 50 ft. section of rope should be attached and wrapped around the body of the eductor for compact stowage.

REF: Dewatering Equipment Kit. Portable Pump Accessories Kit.

EEBD - EMERGENCY ESCAPE BREATHING DEVICE

32 MINUTE SUPPLY

NSN 4240-01-439-5937 EEBD (OCENCO M-20.2)

NSN 4240-01-459-0078 EEBD TRAINER

WT. TBD **VOL.** TBD

DESCRIPTION: The EEBD consists of a compressed oxygen unit, in a case, with mouthpiece, nose clip and an attached hood.

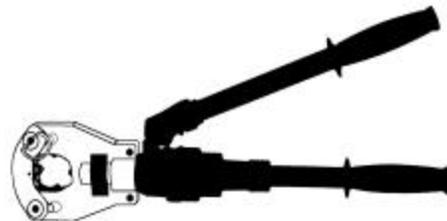
USE: Used only for escape from smoke and toxic atmospheres and provides oxygen to trapped personnel awaiting rescue in contaminated atmospheres. Provides 32 minutes of oxygen for the wearer. It can be donned in seconds; simply unlatch the case, pull out the unit, and insert the mouthpiece and attach the nose clip. The attached hood can be donned at anytime during the escape. The compressed oxygen and mouthpiece combination allows the EEBD to be donned in a smoke-filled environment.

USE TIP: The EEBD shall not be used for firefighting. The compact Oceanco M-20.2 EEBD can be belt-worn in all confined spaces.

REF: TBD

**ELECTRICAL CABLE REPAIR -
CRIMPING TOOL - HYDRAULIC**

NSN 5180-01-220-1807 – KIT, CRIMPING TOOL



WT. 60.0 lbs. **VOL.** 1,073.0 in³

DESCRIPTION: Hydraulic crimping tool . The copper color head denotes use with copper connectors only.

USE: The hydraulic compression tool (hand operated) is used to perform compression crimps from #8 through #750 MCM copper. The flip-top latch provides clear and easy removal from larger connectors and in limited spaces.

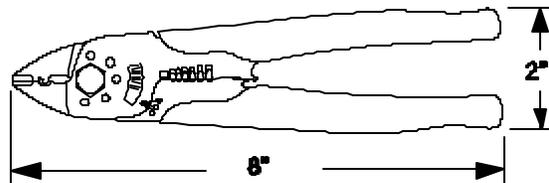
USE TIP: This NSN provides a complete kit. Note: Due to the high pressure produced by this tool, it is not to be used on aluminum connectors or cables.

REF: Electrical Cable Repair Kit.

**ELECTRICAL CABLE REPAIR -
CRIMPING TOOL**

NSN 5120-00-278-2423

WT. 0.5 lbs. **VOL.** 8.0 in³



DESCRIPTION: 8" combined crimping tool, wire stripper and cutter.

USE: Used to cut, strip and crimp insulated and non-insulated terminals and connectors No. 22 through No. 10.

USE TIP: It will cut No. 4 through No. 10 bolts while cleaning and reshaping threads.

REF: Electrical Cable Repair Kit.

**ELECTRICAL CABLE REPAIR
HYDRAULIC - OPER X SERV**

1HS0000-LL-CQA-0136

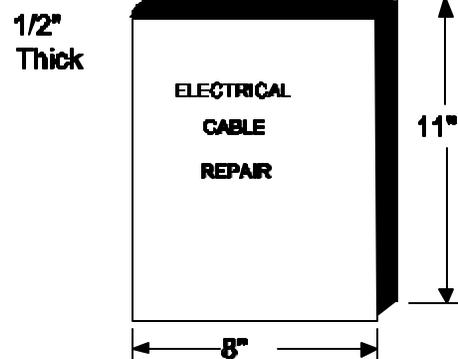
WT. 1.5 lbs. **VOL.** 46.8 in³

DESCRIPTION: Operator's Manual for electrical cable repair.

USE: Describes cable repair operations.

USE TIP: Read before performing cable repairs. Use only prescribed tools and equipment.

REF: Electrical Cable Repair Kit.



**ELECTRICAL CABLE REPAIR
MANUAL – KIT
ENCL X STOW**

1HS0000-LL-CQA-0135

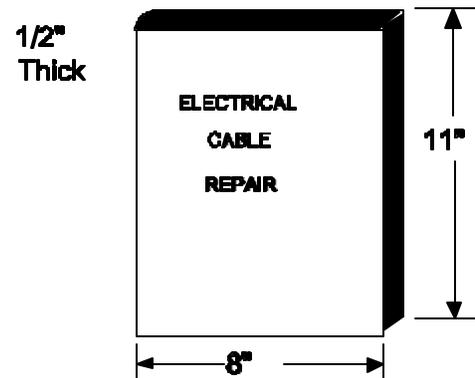
WT. 1.5 lbs. **VOL.** 46.8 in³

DESCRIPTION: Operator's manual. Contains maintenance procedures, operating instructions, testing and repair procedures.

USE: Describes tool operation.

USE TIP: Read manual before using tool.

REF: Electrical Cable Repair Kit.



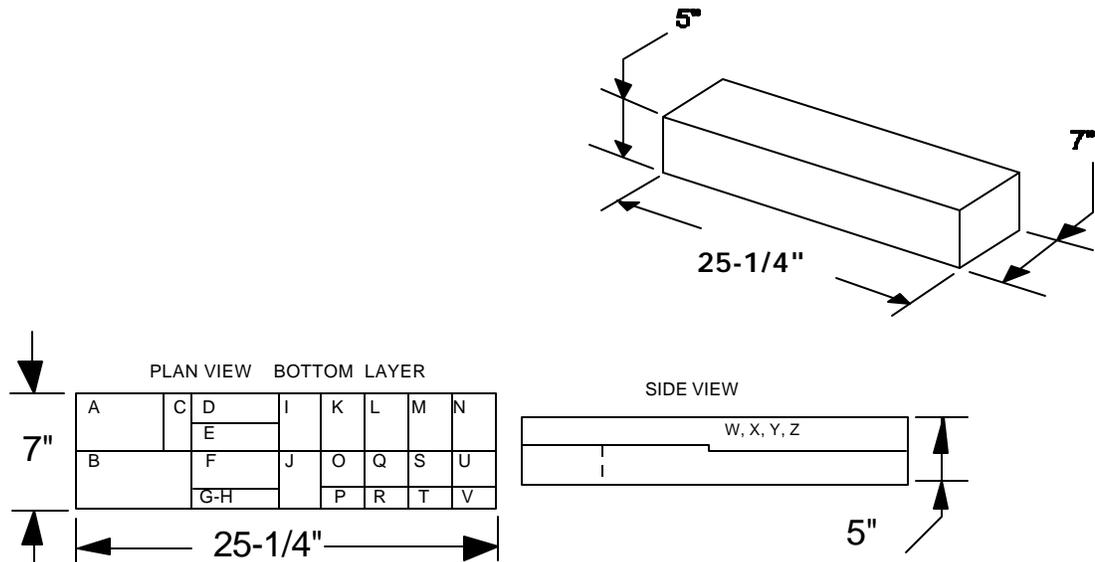
ELECTRICAL CABLE REPAIR - KIT

1HM0000-LL-CQA-2448 - KIT

1HS0000-LL-CQA-0131 – KIT, TOOL BOX

WT. 60.0 lbs.

VOL. 883.7 in³



DESCRIPTION: Kit includes electrical cable repair parts stowed in a compartmentalized tool box for easy access.

USE: Kit required for damage control emergencies.

USE TIP: Stow items together. Label box with 2" high letters. Stow in Damage Control Repair Station No. 5. For replacement items see AEL listed below.

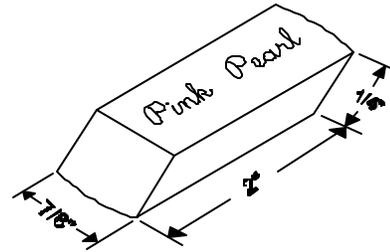
REF: Electrical Cable Repair Kit. Individual items are listed in AEL 2-88044-242 (also see NAVSEA Manual S5090-BL-DCB-010).

ERASER - RUBBER

NSN 7510-00-223-7046

WT. 1.0 oz

VOL. 0.4 in³



DESCRIPTION: Rubber eraser.

USE: Used to remove carbon lead pencil.

USE TIP: Keep dry and away from grease, oil and dirt.

REF: Damage Control Petty Officer (DCPO) Kit.

EXTINGUISHER - FIRE, AFFF

2.5 gal

NSN 4210-01-147-1091 - EXTINGUISHER

NSN 4210-01-112-1097 - BRACKET

WT. 28.0 lbs.

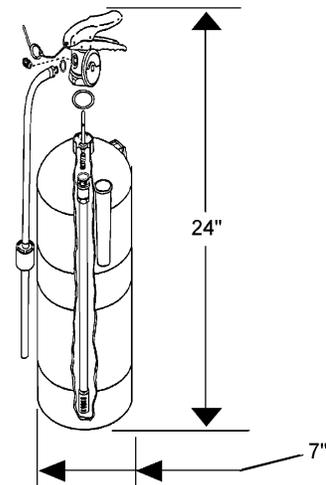
VOL. 1176.0 in.³

DESCRIPTION: 2.5 gallon AFFF extinguisher.

USE: Used primarily to smother small Class B (flammable liquid and oil spray) fires.

USE TIP: Will replace one CO₂ 15 lb. portable extinguisher in the DCRS. For non W.T. critical ships, two (2) AFFF extinguishers will be added to each DCRS.

REF: Parent AEL



EXTINGUISHER - FIRE
CO₂ 15 LB. PORTABLE
SHIPBOARD USE

NSN 4210-00-203-0217 - MAGNETIC
0099-LL-H45-3077 - NON-MAGNETIC
4210-01-454-9161 - (15 LB)

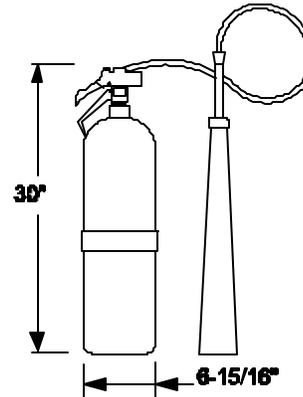
WT. 50.0 lbs. **VOL.** 3000.0 in.³

DESCRIPTION: 15 lb portable CO₂ extinguisher with a squeeze-grip control device and standard charge design.

USE: Used as a local application extinguisher in locations where Class C (electrical) fires are possible.

USE TIP: Stowed in passageway to provide immediate access.

REF: Parent AEL



EXTINGUISHER - FIRE
PKP - 18 LB. PORTABLE

NSN 4210-00-989-4589 - MAGNETIC
NSN 4210-00-935-1656 - NON-MAGNETIC

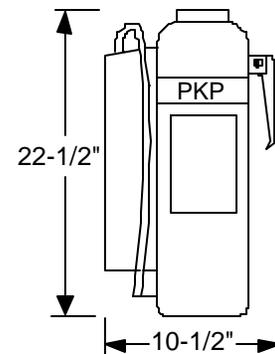
WT. 52.5 lbs. **VOL.** 3,632.8 in.³

DESCRIPTION: Hand actuated, portable extinguisher for purple powder, potassium bicarbonate dry chemical extinguishing agent. that is charged and rechargeable with mounting brackets. 18 lb capacity.

USE: Used primarily on Class B (flammable liquid and oil spray) fires with a minimum effective range of 19 ft.

USE TIP: Stowed in passageway to provide immediate access.

REF: Parent AEL

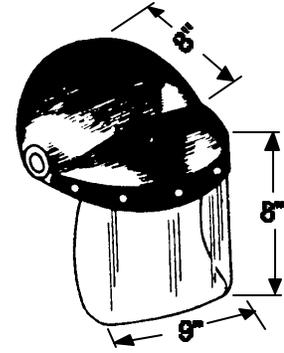


SECTION F

FACE SHIELD - INDUSTRIAL

NSN 4240-00-542-2048

WT. 0.8 lbs. VOL. 640.0 in³



DESCRIPTION: Head cover with hinged face protector.

USE: Used in electrical emergency repairs.

USE TIP: Also used for other industrial activities such as grinding, hammering, sharpening, etc.

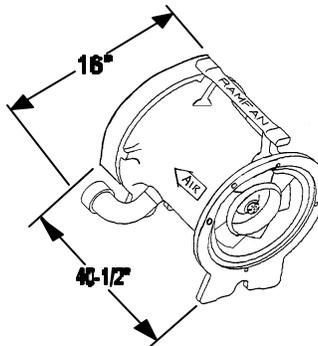
REF: Electrical Repair Kit.

FAN - WATER DRIVEN

NSN 4140-01-333-2224

WT. 35.0 lbs.

VOL. 2,448.0 in³



DESCRIPTION: This portable water-driven fan is a high velocity blower that provides 2,500 cfm with 10" ducts and powered by a high speed water turbine. The turbine is driven by water from the ship's firemain or the P-100 emergency fire pump through a standard 1-1/2" fire hose. The inlet water coupling is equipped with a wire mesh strainer to prevent large particles from obstructing water flow to the turbine (Replacement for Red Devil Blower).

USE: Used for emergency ventilation and desmoking and bulkhead cooling while maintaining fire boundaries. Discharge water is directed overboard through navy standard 1-1/2" fire hose via an overboard discharge connection or by directing the fire hose over the side. The water-driven fan will operate with inlet water pressure from 50 to 180 PSIG, and its performance still varies according to the inlet water pressure and the discharge water back pressure. As in any turbine-driven piece of equipment, it is the pressure drop across the turbine that provides the power to drive the equipment. Low inlet water pressure, clogged inlet straining, or a high back pressure on the discharge water hose will reduce the fan's performance.

USE TIP: Note: *The strainer **must** be inspected and cleaned to insure proper operation of the water-driven fan.* Care must be taken when running the supply and discharge water hoses, as kinks in either hose can adversely affect the fan's performance. It is approved for use in explosive atmospheres. A 10" x 15' vent hose is used with the water-driven fan. Use adapter NSN 4730-01-378-5288 for connecting the vent hose. 50 psig water pressure will move about 700 cfm of air. 180 psig water pressure will provide optimum air movement of 2500 cfm. Also may be used with mister attachment.

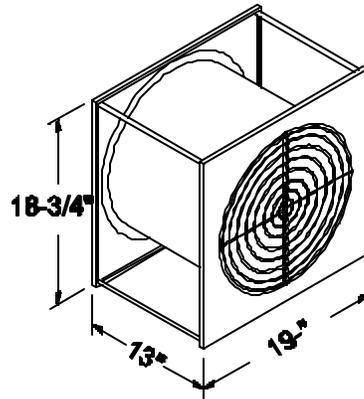
REF: MIP/MRC numbers 6641/006, 25B9 WKN, 63B9 WLN. Desmoking Equipment Kit.

**FAN - TUBEAXIAL – 3200 cfm
(BOX FAN)**

NSN 4140-01-272-6060

WT. 51.0 lbs.

VOL. 4,692.0 in³



DESCRIPTION: The portable, electric driven, 115 v. medium capacity fan is a tube axial type. It provides 3200 ft³ per minute with no ventilation hose attached.

USE: This fan is intended for use without any ventilation. It supplements existing portable fans by providing a rapid desmoking capability of spaces near the weather. When certified explosion proof, the fan is approved for use in explosive atmospheres such as gasoline, benzene, butane, hexane, propane, naphtha, alcohol, and lacquer solvent vapors.

USE TIP: The fans may be set in tandem, hung or stacked at openings. **Note:** *The fan is certified explosion proof when it has an intact security seal and wire threaded through one of its motor through bolts.*

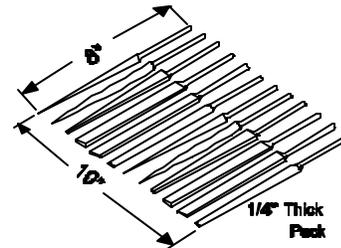
REF: Refer to the medium capacity fan's tech manual S9512-CA-MMC-010-93457 for further information. MIP/MRC numbers are 6641/006 and 25B9 AUN. Desmoking Equipment Kit.

FILE SET - HAND

NSN 5110-00-204-2685

WT. 2.4 lbs

VOL. 20.0 in³



DESCRIPTION: Assorted needle files in plastic case. One each: barrette, crossing, equaling, flat, half-round, joint (round edge), knife, marking (half-round), round, slitting, square, and three-square. 6-1/4 inches.

USE: Files various surfaces to make them smooth.

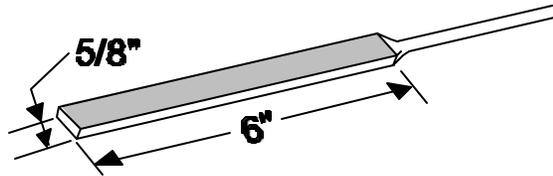
USE TIP: Clean with metal brush after each use.

REF: Damage Control Petty Officer (DCPO) Kit.

FILE - HAND
SMITH 6-1/4"

NSN 5110-00-234-6532

WT. 3.0 oz **VOL.** 0.5 in³



DESCRIPTION: Hand held file, 6 inches x 5/8 inch, Style C.

USE: Used to sharpen tools, remove burrs, clean surfaces, smooth cuts on metal surfaces.

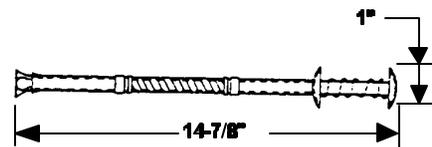
USE TIP: Clean with a metal brush after each use.

REF: Damage Control Petty Officer (DCPO) Kit.

FINGER - MECHANICAL

NSN 5120-00-629-6258

WT. 3.0 oz **VOL.** 2.8 in³



DESCRIPTION: Mechanical pick-up tool.

USE: Used for retrieving screws, bolts, nuts, etc, from tight or inaccessible places.

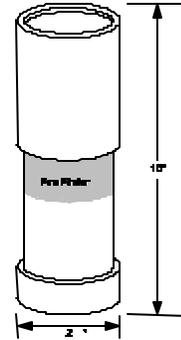
USE TIP: Return to kit after use.

REF: Damage Control Petty Officer (DCPO) Kit.

FIREFINDER
SENSOR, PORTABLE INFRARED HEAT

NSN 4210-01-207-9687

WT. 2.0 lbs **VOL.** 50.6 in³



DESCRIPTION: Infrared heat sensor will detect a small hot spot.

USE: Indicates the way to the fire area without demanding any eye attention. It operates in full sunlight or in dense smoke and gives an instantaneous audible alarm where the pitch is proportional to the temperature of the fire.

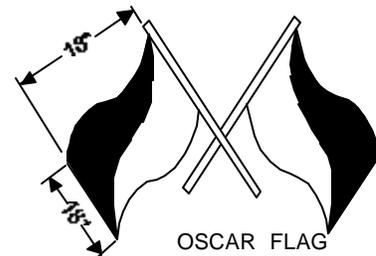
USE TIP: NDI equipment. Two per DCRS. Uses 9 volt battery. It has an audible self test to indicate condition of batteries and electronics.

REF: Investigator Kit.

FLAGS - COMMUNICATION
PROVIDED BY OPS DEPT
(RESCUE & ASSISTANCE)

NSN 8345-00-946-7899

WT. 0.5 lbs. **VOL.** 20.0 in³



DESCRIPTION: Hand held oscar flags.

USE: Used by the rescue and assistance team signalman when semaphore communications are needed.

USE TIP: Store in DCREL. Replace flags when they become torn.

REF: DC Rescue and Assistance Reentry Locker (DCREL)

FLANGES - BLANK

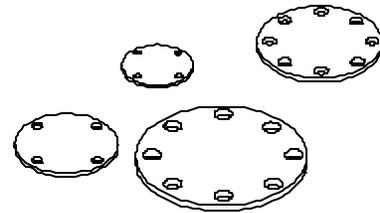
1" TO 4"

ASSORTED SIZES

MANUFACTURED BY SHIPS FORCE

GEN NOTE: NOT FOR USE IN LINES
EXCEEDING 400 PSI.

(4 BOLTS, 8 BOLTS
PATTERN MAY BE
USED.)



1HS0000-LL-CJ7-5885

WT. 102.8 lbs.

VOL. 85.0 in.³

**6-1/8" DIA.,
SIZE TYPICAL,
THICKNESS VARIOUS**

DESCRIPTION: A blank flange is a flat plate of heavy metal, circular in shape, and provided with standard bolt holes. A gasket of sheet packing is normally used with most low pressure flanges, and special gaskets on steam lines. Whenever possible, such gaskets should be used, even when making rapid repairs during battle to prevent excessive leakage.

USE: Used to blank pipe lines.

USE TIP: Not intended for lines exceeding 400 PSI. Tighten bolts opposite of each other to apply even pressure. C-clamps may be used as a temporary securing device. The flange will carry as much pressure as the line was designed to hold.

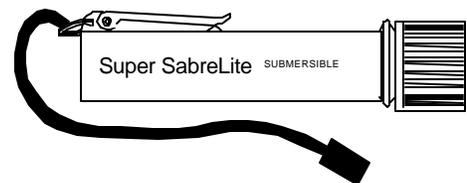
REF: NAVSEA Drawing No. 804-5959235 is the guide for making the flanges. Parent AEL.

FLASHLIGHT - INVESTIGATOR

NSN 6230-01-281-3775

WT. 1.5 lbs

VOL. 62.5 in.³



DESCRIPTION: Flashlight with a 30 hour lamp, made of industrial grade resin. Watertight to 2,000 ft. Produces a tightly focused white light beam.

USE: Used by DC personnel to provide portable lighting.

USE TIP: NDI equipment. Two per DCRS. Spare xenon high performance laser spot lamp, module part # 2000LMS.

REF: Investigator's Kit.

FLASHLIGHT - WATERPROOF

NSN 6230-00-270-5418

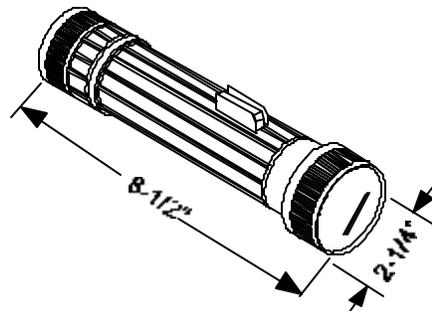
WT. 3.0 oz **VOL.** 43.1 in³

DESCRIPTION: Watertight plastic body. Ring type mounting, with two lamps, switch, replaceable battery feature, and removable light filters. Fixed and flashing light beam.

USE: Used by DC personnel to provide portable lighting.

USE TIP: Uses two "D" cell batteries.

REF: Investigator Kit.



**FLOOR MATTING - RUBBER
ELECTRICAL REPAIR**

NSN 7220-00-267-4630

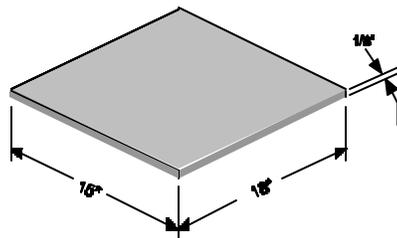
WT. 7.0 lbs. **VOL.** 67.5 in³

DESCRIPTION: Type II, smooth surface. 25 yd L x 1 yd W x .125. 1/8" inch thick rubber matting. Cut piece shown.

USE: Protects personnel against accidental exposure to electrical potentials not exceeding 3000 volts.

USE TIP: The mat is cut to required length to be provided with kit.

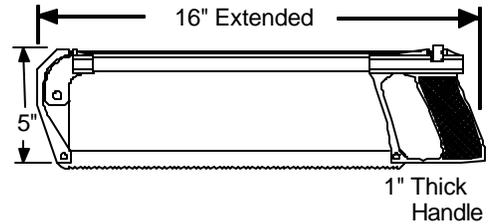
REF: Electrical Repair Kit.



FRAME - HAND HACKSAW

NSN 5110-00-289-9657

WT. 2.4 lbs. **VOL.** 90.2 in.³



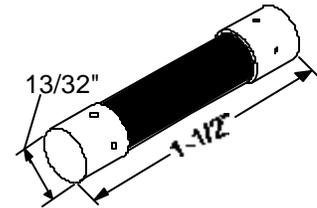
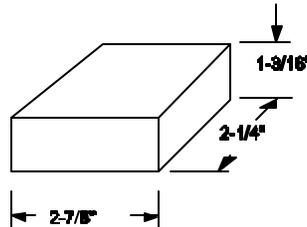
DESCRIPTION: Pistol-grip hacksaw frame. Bright chrome or nickel-plated steel flat frame, adjustable for 10 in or 12 in. Four 90° blade positions tensioned by wing nut. Sure-grip composition handle.

USE: Used to cut metal, pipe, or bolts of damaged sections for replacement.

USE TIP: When inserting blade, assure teeth are pointing forward. All metal tools shall be insulated to prevent electrical shock.

REF: Electrical Repair Kit. Engineering Space Kit. NSTM 300

**FUSE – 15 AMP QUICK ACTING
SUB-PUMP
CARTRIDGE 440V
10 AMP TIME DELAY**



NSN 5920-00-823-0751

WT. 0.4 lbs. **VOL.** 12.1 in.³

DESCRIPTION: Box of three fuses.

USE: Used for submersible pumps. Three fuses are used in each switch box for the 3 phases.

USE TIP: During emergencies, fuses required in DCRS zone of responsibility should be obtained from the electric shop. Ships order fuses for DCRS area of responsibility.

REF: Electrical Repair Kit.

SECTION G

GASKET, HOSE - 1-1/2" NON-METALLIC

NSN 5330-00-239-1873

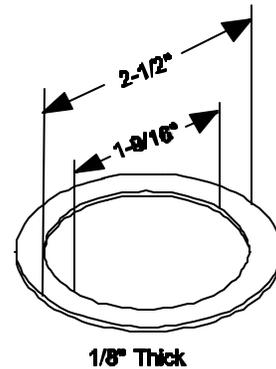
WT. 0.1 lbs **VOL.** 0.5 in³

DESCRIPTION: 1-1/2" synthetic rubber gasket provides a watertight seal for 1-1/2" hose connections.

USE: Used in 1-1/2 inch fire hose female coupling.

USE TIP: Stow in package of ten secured with piece of marline.

REF: Dewatering Equipment Kit, Parent AEL, Portable Pump Accessories Kit and Repair Locker Tool Kit.



GASKET, HOSE - 1-9/16" FLAT, RUBBER

NSN 5310-00-728-7702

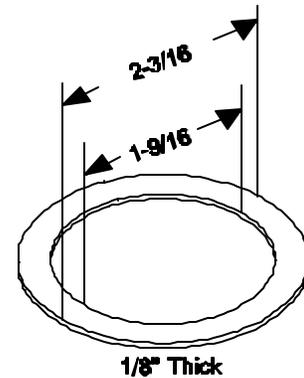
WT. 0.1 lbs **VOL.** 0.4 in³

DESCRIPTION: Rubber gasket provides a seal for 1-1/2" hose Connections.

USE: Used in 1-1/2 inch fire hose female coupling/nozzle.

USE TIP: Stow in pack of two (10 each) secured with piece of marline.

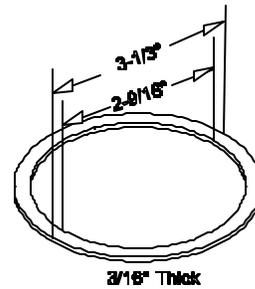
REF: Repair Locker Tool Kit.



GASKET, HOSE - 2-1/2" RUBBER

NSN 5330-00-239-1877

WT. 0.1 lbs **VOL.** 1.2 in³



DESCRIPTION: Rubber gasket provides a watertight seal for sub-pump hose connection.

USE: Used in 2-1/2 inch sub-pump female connector and fire hose female coupling.

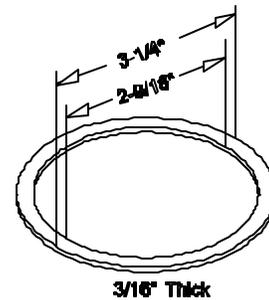
USE TIP: Stow in packs of five secured with a piece of marline.

REF: Repair Locker Tool Kit.

GASKET, HOSE - 2-1/2" NON-METALLIC

NSN 5330-00-246-2914

WT. 0.1 lbs **VOL.** 1.3 in³



DESCRIPTION: Non-metallic gasket provides a watertight seal for the submersible pump hose connection.

USE: Used in 2 1/2 inch fire hose female coupling and wye/tri-gate female connector.

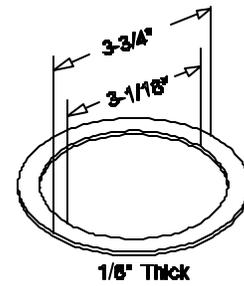
USE TIP: Stow in packs of 25 (1 unit) secured with a piece of marline.

REF: Dewatering Equipment Kit, Portable Pump Accessories Kit and Repair Locker Tool Kit.

GASKET, WASHER - 3" RUBBER

NSN 5330-00-239-1879

WT. 0.2 lbs **VOL.** 1.4 in³



DESCRIPTION: Rubber gasket provides a watertight seal for P-100 pump accessories.

USE: Used in 3 inch suction hose, P-250 female fitting and footvalve.

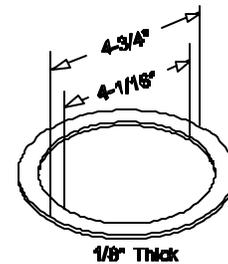
USE TIP: Stow in packs of five secured with a 12" piece of marline.

REF: Dewatering Equipment Kit. Portable Pump Accessories Kit.

GASKET, WASHER - 4" RUBBER

NSN 5310-00-239-1882

WT. 0.2 lbs **VOL.** 1.5 in³



DESCRIPTION: Rubber gasket provides a watertight seal.

USE: Used in 4 inch discharge hose female coupling and 4 inch eductor female coupling.

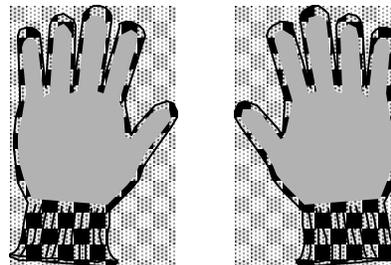
USE TIP: Stow in packs of 10 secured with a piece of marline.

REF: Dewatering Equipment Kit. Portable Pump Accessories Kit.

GLOVES, DIVERS (CUT RESISTANT)

1HS0000-LL-CQA-4568 (select size)
NSN 4220-01-397-7348 - sz med
4220-01-397-7349 - sz lg

WT. 0.5 lbs. **VOL.** 56.0 in.³



DESCRIPTION: Gloves covered with rubber studs. Provides protection against cuts and also provides grip when working with steel banding.

USE: Used during banding operations and when installing Jubilee Patches.

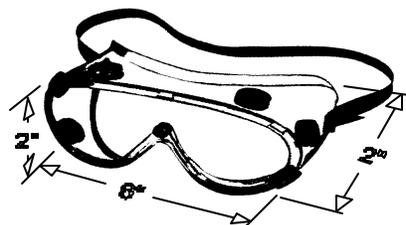
USE TIP: Always wear gloves - cut resistant type, eye protection and long sleeves for personnel safety. Two pair per kit.

REF: Banding Tool Kit. Pipe Patching Kit.

GOGGLES - INDUSTRIAL

NSN 4240-01-063-5996

WT. 0.4 lbs. **VOL.** 24.0 in.³



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

USE: Provides general eye protection for various DC equipment maintenance.

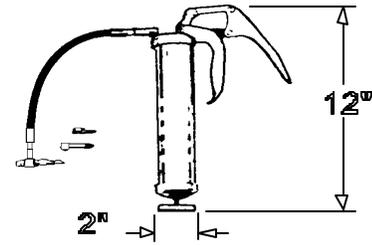
USE TIP: Adjust strap for comfortably secure fit.

REF: Damage Control Petty Officer (DCPO) Kit.

**GUN - GREASE, PISTOL GRIP
WITH 12" GREASE HOSE
14 OZ. CARTRIDGE**

NSN 4930-00-965-0288

WT. 3.0 lbs. **VOL.** 50.0 in³



DESCRIPTION: Grease gun with replaceable cartridge for refilling.

USE: Used to perform PMS functions where lubrication is required.

USE TIP: Wipe unit clean before storing.

REF: Damage Control Petty Officer (DCPO) Kit.

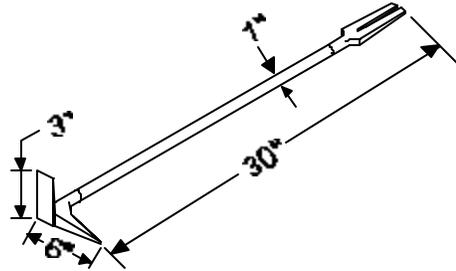
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SECTION H

HALLIGAN TOOL - QUICBAR

NSN 5120-00-009-5044

WT. 10.0 lbs. VOL. 180.0 in³



DESCRIPTION: Separate claw and head sections that are drop forged from high alloy steel. Claw and head are press-fitted and welded to a 1 inch stress-proof bar. Claw is sharpened for easy entry and slotted to fit hasps, locks, hatches, etc. Pick end is long, sharp and tapered. Flat "duckbill" side of the heads used for forcing windows and interior doors open. All tool parts are heat treated for strength and durability. High gloss chrome plated finish for appearance and easy maintenance.

USE: Used for gaining entrance to aircraft during firefighting/rescue operations.

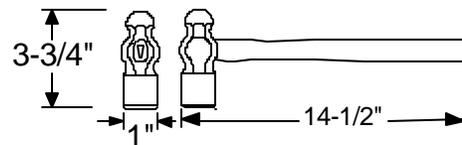
USE TIP: Apply leverage carefully to avoid injury due to tool slipping. Do not use a pipe for additional leverage.

REF: Parent AEL (No. 211 only).

HAMMER - HAND

5120-00-061-8543

WT. 1.5 lbs VOL. 54.4 in³



DESCRIPTION: Forged steel head. Polished face and peen. 14-1/2 inch hickory handle. Flat striking surface on one face, round striking peen on the other.

USE: Used for driving metal punches, working on sheet metal,

USE TIP: Wear safety glasses when striking brittle objects that may shatter.

REF: Electrical Repair Kit.

HAMMER - MACHINIST
1-1/2 LB.

NSN 5120-00-061-8545

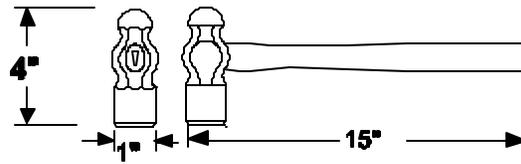
WT. 2.0 lbs. **VOL.** 60.0 in³

DESCRIPTION: Forged steel head. Polished face and peen. 15 inch hickory handle,

USE: Used to perform certain DC PMS functions and to tap down buckle ears in pipe banding operations.

USE TIP: Wear safety glasses when striking brittle objects that may shatter.

REF: Damage Control Petty Officer (DCPO) Kit. Banding Tool Kit.



HAMMER - HAND, BALLPEEN
MACHINIST 2 LB.

NSN 5120-00-061-8546

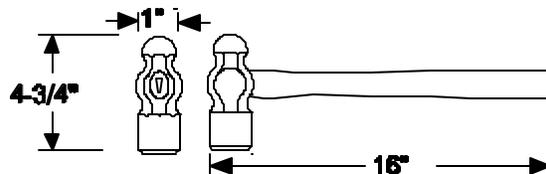
WT. 2.5 lbs **VOL.** 76.0 in³

DESCRIPTION: Forged steel head. Polished flat striking surface on one face and round striking peen on the other end. 16 inch hickory handle. Head weight - 12 oz.

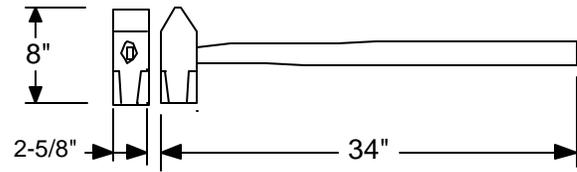
USE: Used in metal work, pipe repair and other DC functions.

USE TIP: Wear safety glasses when striking brittle objects that may shatter.

REF: Pipe Patching Kit.



HAMMER - BLACKSMITH SLEDGE
12 LB.
CROSSPEEN HEAD



NSN 5120-00-224-4130

WT. 12.0 lbs. **VOL.** 678.1 in.³

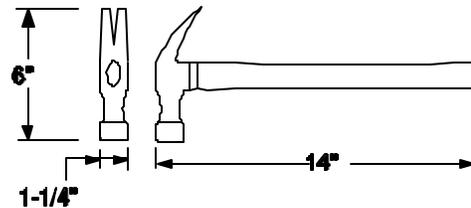
DESCRIPTION: Engineer's hammer, extra heavy head. Forged steel crosspeen head.

USE: Used in DC/fire fighting access and post casualty salvage operations.

USE TIP: Make sure to have enough room to swing this long handled hammer to avoid personnel injury or broken handle.

REF: Firefighting/Access Equipment Kit.

HAMMER - RIPPING
CARPENTER'S STRAIGHT CLAW
1-1/4 LB. HEAD



NSN 5120-00-892-5744

WT. 1.8 lbs. **VOL.** 105.9 in.³

DESCRIPTION: Carpenter's straight claws ripping hammer. Forged steel head. Bright polished plain bellface.

USE: Used in shoring operations.

USE TIP: Wear safety glasses when using hammer.

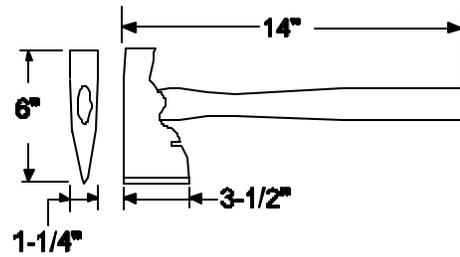
REF: Shoring Tool Kit.

HATCHET - HALF TYPE C

NSN 5110-00-228-3161

WT. 2.1-2.6 lbs

VOL. 112.5 in³



DESCRIPTION: 3-1/2 inch wide cutting edge, Headweight - 18 to 26 oz., beveled slot for removing nails.

USE: Used in shoring , plugging and pipe patching.

USE TIP: Cutting edges should be padded (cardboard etc.) to prevent injury and extend the life of the kit bag.

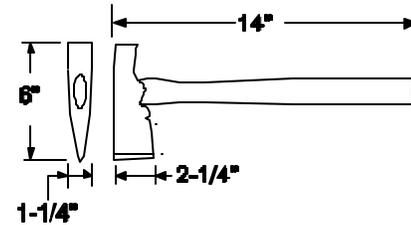
REF: Shoring Tool Kit. Pipe Patching Kit. Plugging Kit.

HATCHET - LATHING
2-1/4" CUTTING EDGE

NSN 5110-00-223-5379

WT. 2.1-2.6 lbs

VOL. 112.5 in³



DESCRIPTION: Beveled slot for drawing nails. The head contains machine cut checkered serration. Cutting edge 2-1/4 inches wide. Head weight 12 to 17 oz.

USE: Used in plugging operations.

USE TIP: Cutting edges should be padded (cardboard etc.) to prevent injury and extend the life of the kit bag.

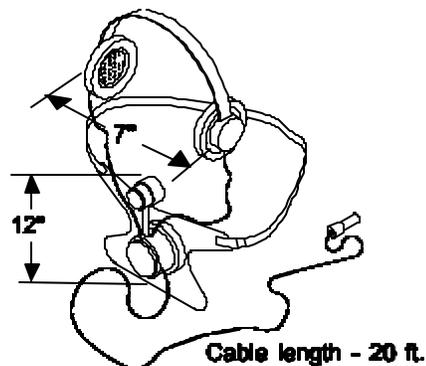
REF: Plugging Kit.

**HEADSET CHEST SET -
SOUND POWER PHONES**

NSN 5965-00-900-6401

WT. 4.0 lbs

VOL. 472.9 in.³



DESCRIPTION: Complete, assembled set includes: headband assembly, two 1200-ohm earphone assemblies, 110-ohm microphone assembly w/mouth-piece and push-button switch, chest plate assembly with junction box and DCOP-1-1/2 cable assembly with H-39A plug jack. Type H-2000/U and H-202/U.

USE: Used in DC communications. Sound powered telephone headset chest sets designed for shipboard use.

USE TIP: Adjust to assure microphone is proper distance from mouth.

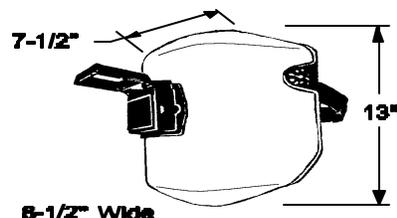
REF: Emergency Communications Kit.

HELMET - WELDER

NSN 4240-00-540-0623

WT. 1.8 lbs.

VOL. 828.7 in³



DESCRIPTION: Face protection that covers front of head and provides eye protection with the use of dark welders lens.

USE: Used while conducting TIG/ARC welding operations.

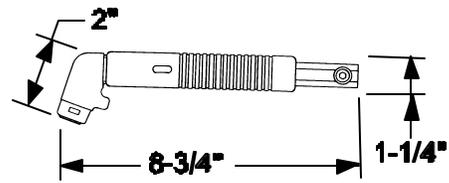
USE TIP: 12 clear lenses and shades provided in kit.

REF: Welding Equipment Kit.

HOLDER - ELECTRODE WELD

NSN 3439-00-238-1638

WT. 1.1 lbs **VOL.** 34.0 in³



DESCRIPTION: A handle which holds the electrode and enables the welder to guide the arc during welding operations.

USE: Used to hold electrode while performing arc welding operations.

USE TIP: Complete protective gear must be worn during welding operations.

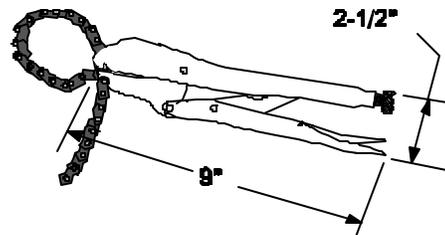
REF: Welding Equipment Kit.

HOLDING TOOL

WRENCH - CHAIN TYPE

NSN 5120-00-889-2050

WT. 3.0 lbs **VOL.** 162.0 in.³



DESCRIPTION: Vice grip type of wrench for holding pipes. Has an 18" chain.

USE: Used with the strongback in pipe patching operations..

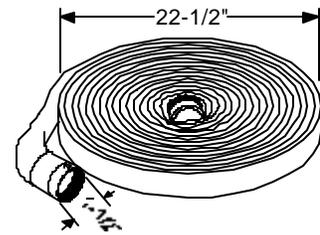
USE TIP: Dry wrench after use. Keep lubricated and wrapped with a rag, to prevent rusting. NAVSEA will outfit as funds are available.

REF: Banding Tool Kit.

**HOSE ASSEMBLY - 1-1/2" NPSH x 50 FT.
NON-METALLIC, SYNTHETIC JACKETED**

NSN 4210-01-131-0249

WT. 25.0 lbs. **VOL.** 1,772.0 in.³



DESCRIPTION: Type 1, Class A hose, double jacketed polyamide fiber with a rubber lining. The outer jacket is impregnated with hypalon which contains an orange color pigmentation. Mildew resistant.

USE: Used for fire fighting from a fire plug or wye connection. Also used in dewatering as the inlet hose for the 1-1/2 inch eductor.

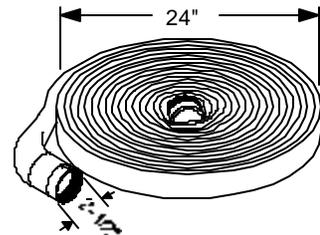
USE TIP: Hydrostatic test pressure 300 PSI, burst pressure 600 PSI. Use female to male couplings.

REF: Dewatering Equipment Kit. Firefighting/Access Equipment Kit. Portable Pump Accessories Kit.

**HOSE ASSEMBLY - 2-1/2" NH x 50 FT.
NON-METALLIC**

NSN 4210-01-131-0247

WT. 35.0 lbs. **VOL.** 2,890.0 in.³



DESCRIPTION: Type 1, Class A hose, double jacketed polyamide fiber with a rubber lining. The outer jacket is impregnated with hypalon which contains an orange color pigmentation. Mildew resistant.

USE: Used for fire fighting from a fire plug or P-100 or P-250 pump. Used in dewatering as follows: discharge hose for submersible pump and 1-1/2 inch eductor, inlet for peri-jet eductor; also as a jumper line.

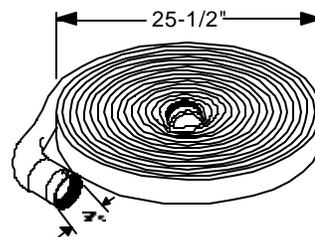
USE TIP: Hydrostatic test pressure 300 PSI, burst pressure 600 PSI. Use female to male couplings.

REF: Dewatering Equipment Kit. Portable Pump Accessories Kit.

HOSE ASSEMBLY - 4"
NON-METALLIC

NSN 4210-01-220-6648

WT. 60.0 lbs. **VOL.** 4,064.0 in³



DESCRIPTION: It is a double jacketed, cotton, rubber lined 50' hose used to discharge water overboard from an eductor.

USE: Used to connect to Peri-jet eductor discharge side during dewatering operations.

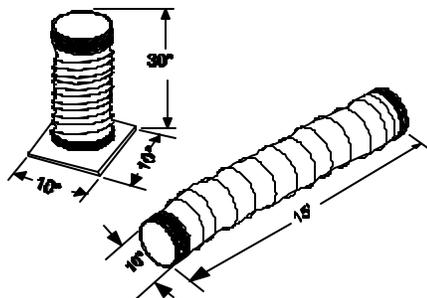
USE TIP: Connects with 4 inch double male to overboard discharge connection. Use female to male couplings.

REF: Dewatering Equipment Kit. Portable Pump Accessories Kit.

HOSE ASSEMBLY - AIR DUCT
10" DIA EXTENDS TO 15' LENGTH
INTENDED FOR USE WITH PORTABLE WATER
DRIVEN FAN.

NSN 4720-01-378-6044

WT. 21.0 lbs. **VOL.** 3,000.0 in³



DESCRIPTION: Cotton duct fabric reinforced with helically wound continuous supported zinc plated wire, and impregnated with synthetic rubber. Issued by the foot unless otherwise indicated. Fitted with steel, zinc plated self-locking couplings, one female and one male. 10 inch ID, 15 ft long.

USE: Used for desmoking and gas freeing operations with portable ventilating equipment.

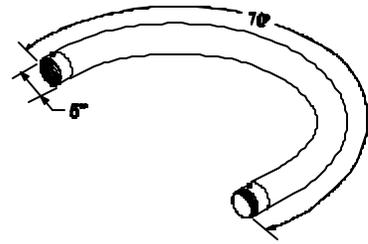
USE TIP: Four per kit.

REF: Desmoking Equipment Kit.

HOSE ASSEMBLY – NON-METALLIC
SUCTION, 3" x 10'

NSN 4210-00-725-9234

WT. 30.0 lbs. **VOL.** 3,000.0 in³



DESCRIPTION: Rubber tubing covered by first layer of rubber impregnated fabric; second layer helix steel coil; outer layer of molded rubber. Fuel, oil and ozone resistant. Female to male RH/NH threaded copper alloy coupling.

USE: Used as a suction hose to deliver water from the footvalve to the portable P-100 pump, also for fresh water use.

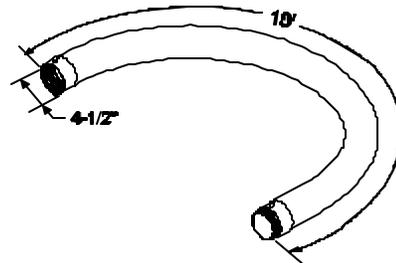
USE TIP: Quantity depends on freeboard.

REF: Portable Pump Accessories Kit.

HOSE ASSEMBLY – NON-METALLIC
2-1/2" x 10 FT.

NSN 4720-00-221-8763

WT. 16.0 lbs. **VOL.** 2,430.0 in³



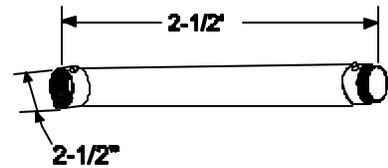
DESCRIPTION: Synthetic rubber, 1st layer spiral laid steel wire. 2nd layer braided steel wire, outer layer chloroprene molded rubber. ID 2.500 inches, OD A/A. Water resistant. First end straight, gasket seal swivel nut, threaded internal hose. 2.500 - 7-1/2 NH RH. Second end straight, plain threaded external hose. 2.500 - 7-1/2 NH RH. Brass fittings. Hard suction line.

USE: Used as suction hose with submersible pump. Use with 2-1/2" foot valve/strainer.

USE TIP: Four per kit. MHC 51 Class requires 2 per kit. Prime hose line before operating pump.

REF: Dewatering Equipment Kit.

HOSE ASSEMBLY - NON-METALLIC
JUMPER DISCHARGE HOSE FOR P-250
TO WYE-GATE/SIAMESE CONNECTION
2-1/2" x 18"



NSN 4210-01-273-4727

WT. 6.8 lbs **VOL.** 607.5 in³

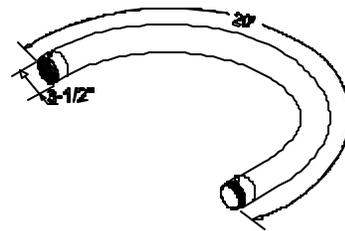
DESCRIPTION: Rubber or synthetic rubber hose.

USE: Used for P-250 pump operation as a jumper discharge hose from pump discharge to wye-gate/tri-gate; siamese connection.

USE TIP: Provides easy access to the connection.

REF: Portable Pump Accessories Kit.

HOSE ASSEMBLY - RUBBER EXHAUST HOSE, BLACK
2" x 20 FT.



NSN 4210-00-776-0657

WT. 23.0 lbs. **VOL.** 2,940.0 in³

DESCRIPTION: Rubber chloroprene hose covered with rubber impregnated fabric, second layer of coiled helix steel and an outer layer of molded chloroprene rubber.

USE: Used to transfer exhaust fumes and gases to an outside atmosphere in cases where the P-250 pump is used in a confined space below decks.

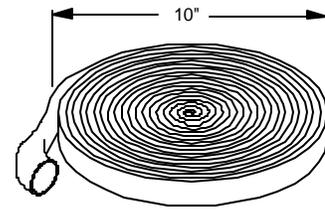
USE TIP: Hydrostatic test pressure at 100 lbs PSI.

REF: Portable Pump Accessories Kit.

HOSE - NON-METALLIC
1-1/2" X 15' HOSE - NO FITTINGS
FOR SAW BLADE PROTECTION

NSN 4720-00-230-6481

WT. 6.3 lbs. **VOL.** 133.2 in³



DESCRIPTION: Rubber or synthetic rubber smooth bore tube, reinforced with wrapped fabric or braided yarn, and a rubber cover. Resistant to oil, cold alkalis, and rust.

USE: Used to protect saw blades from being damaged when not in use. Cut to specific length.

USE TIP: This item is not listed on the AEL and can be acquired from damaged hoses. Cut to required length and shape with a utility knife.

REF: Repair Locker Tool Kit.

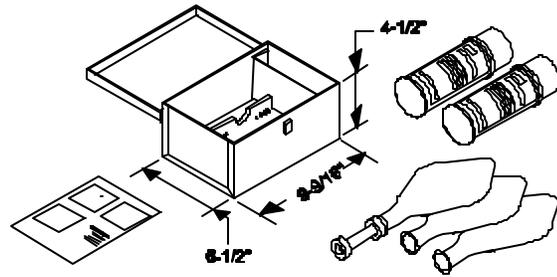
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SECTION I

INDICATOR CALIBRATION KIT BACHARACH GN TYPE "E" II

NSN 6665-01-188-4542

WT. 5.0 lbs. VOL. 279.6 in.³



DESCRIPTION: Calibration kit.

USE: Used to calibrate the Bacharach GN Type "E" II Combustible Gas Indicator.

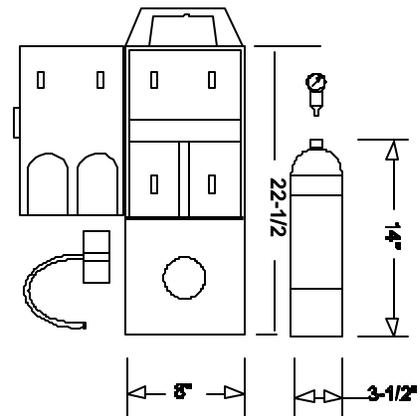
USE TIP: Requires test gas: acetylene P/N 51-2270.

REF: Gas Free Engineering Kit.

INDICATOR CALIBRATION KIT - BIO-SYSTEMS FOUR GAS ANALYZER

NSN 4240-LL-H52-9750

WT. 4.7 lbs. VOL. 810.0 in.³



DESCRIPTION: Bio Systems calibration kit for the Four Gas Analyzer.

USE: Used to calibrate the Four Gas Analyzer

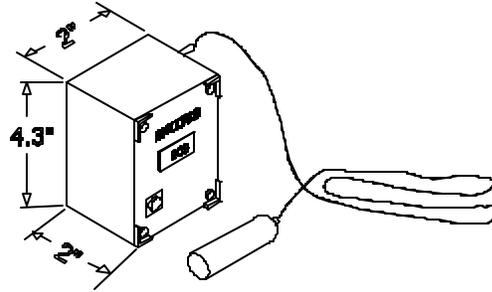
USE TIP: Calibrate IAW PMS requirements. Use only Bio System calibration gas (54-9044E).

REF: Gas Free Engineering Kit.

INDICATOR - OXYGEN
MODEL 103 BACHARACH

NSN 6680-01-209-5449

WT. 0.7 lbs. **VOL.** 17.2 in.³



DESCRIPTION: This hand-held, portable unit detects oxygen concentrations between 0-25%. Audible and visual alarms are triggered when the oxygen level falls below the oxygen set point (19.5%). A switch can disable the audible alarm. The audible alarm persists until the oxygen level rises above the alarm set point.

USE: Indicator used for gas free engineering and damage control on surface ships only.

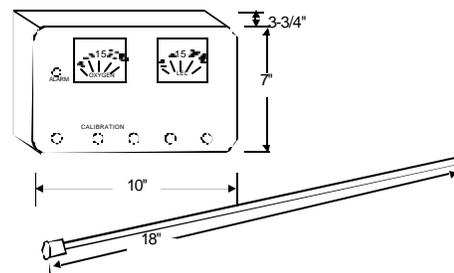
USE TIP: The oxygen concentration detector is started by installing the oxygen cell and the battery. Removing the battery turns the unit off. There is no on/off switch because the oxygen cell functions whether or not the battery is connected. With normal use, the battery life is about three months. A battery symbol is the display that indicates a low battery condition. An oxygen cell provides a working life of approximately six months.

REF: Gas Free Engineering Kit.

INDICATOR - OXYGEN/COMBUSTIBLE
MODEL 260 MSA

NSN 6665-01-115-7666

WT. 7.5 lbs **VOL.** 262.5 in.³



DESCRIPTION: Handheld alarm/indicator which detects oxygen levels and combustible gas levels in the atmosphere.

USE: Alarm/Indicator used for gas free engineering and damage control on surface ships.

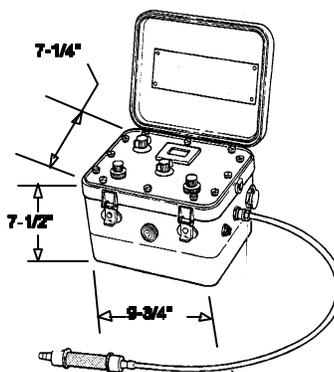
USE TIP: When not in use, remove battery and store with indicator.

REF: Gas Free Engineer Kit.

**INDICATOR - COMBUSTIBLE GAS
BACHARACH (MODEL 514)**

NSN 6665-01-294-8859

WT. 11.0 lbs. **VOL.** 534.3 in.³ (indicator)
WT. 30.0 lbs. **VOL.** 4,431.0 in.³ (indicator w/ carrying case)



DESCRIPTION: The Bacharach Model 514 Combustible Gas Indicator includes: indicator, hydrogen cal. tank, 5 ft hose assembly, regulator assembly, O₂ cell assembly, probe assembly, carrying strap, drying tube, 12V DC charger cord, 120V AC charger cord, 230V AC charger cord, sample line kit, 15 ft hose assembly and methane cal tank.

USE: Used in shipboard gas free operations.

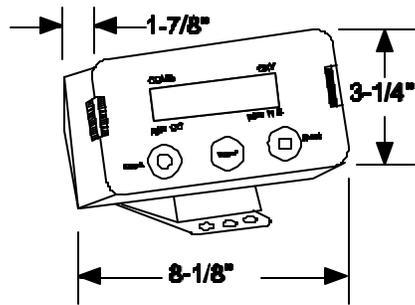
USE TIP: When not in use, remove battery and store with indicator. Not required on MHC Class ships.

REF: Gas Free Engineer Kit.

**INDICATOR - COMBUSTIBLE GAS
FOUR GAS ANALYZER
BIO-SYSTEMS**

NSN 4240-01-467-8854

WT. 6.2 lbs. **VOL.** 53.6 in.³



DESCRIPTION: The lightweight, portable gas analyzer/alarm for both gas free testing and emergency environments. Model 3210-LAP.

USE: Used in Gas Free Operations to test for O₂, CO, H₂S, and Combustible (LEL). A three push-button operation enables the analyzer to be calibrated and measure combustibles, oxygen and toxic gases close-in or at a distance using diffusion or pumped sampling with an add-on low-flow pump module. The portable gas analyzer/alarm provides the following:

- Rechargeable battery powered, with battery conservation feature
- Lightweight, portable and simple to operate, calibrate and maintain
- Multi-gas detection and monitoring (four gases to meet Navy shipboard requirements: combustible (LEL), oxygen, carbon monoxide and hydrogen sulfide)
- Rugged construction and intrinsically safe for use in hazardous and toxic environments
- Accuracy (1% or less lower explosive limit for combustibles, 0.1% or less for oxygen, and one part per million or less for toxic gases).

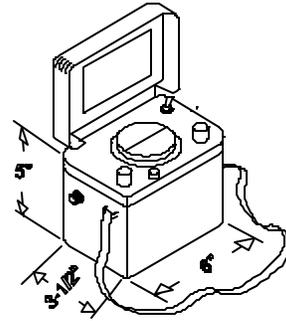
USE TIP: For operating procedures refer to Section 2 of Passport Personal Alarm Instruction Manual provided with the instrument. Stow in DCRS.

REF: Gas Free Engineer Kit.

INDICATOR - COMBUSTIBLE GAS
BACHARACH, GN TYPE II

NSN 6665-00-292-9945

WT. 6.0 lbs. **VOL.** 105.0 in.³



DESCRIPTION: This Combustible Gas Indicator has a catalytic filament which forms part of a balanced electrical circuit. Combustible gases are heated by the filament which thereby increases the filament temperature and unbalances the circuit which deflects the indicator needle. The deflection is read as percent of gas concentration.

USE: This hand-held, portable instrument is used to detect miscellaneous combustible gases or vapors and atmospheres containing leaded gasoline vapors, 0 to 100% explosive limit. It is used in conjunction with the oxygen analyzer to certify gas-free tanks or voids prior to entry. Measurements taken indicate a sum of all combustible gases.

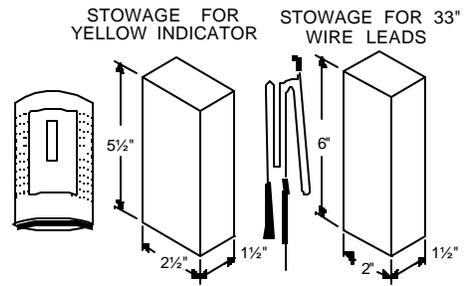
USE TIP: Instruction book and batteries included with a metal carry case fitted with shoulder strap.

REF: Gas Free Engineering Kit.

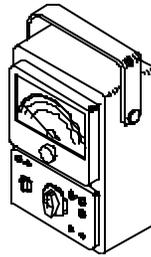
INDICATOR - VOLT FREQUENCY

NSN 6625-00-132-1196

WT. 0.8 lbs. **VOL.** 65.0 in³



OLD STYLE



DESCRIPTION: Hand-held portable voltage frequency indicator.

USE: Used by the repair party electrician to check electrical equipment and circuits during casualties.

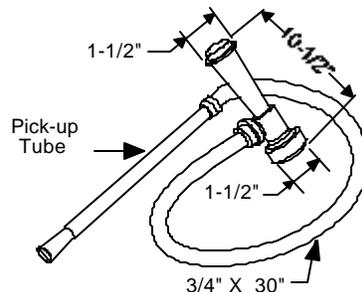
USE TIP: This indicator should be verified on a known voltage source before use.

REF: Electrical Repair Kit.

INLINE AFFF EDUCTOR - 1-1/2" NSPH, 95 GPM

NSN 4210-01-112-3081

WT. 7.0 lbs. **VOL.** 393.7 in³



DESCRIPTION: Air foam producing nozzle for general AFFF application in fire fighting operations.

USE: Used with the 95 gpm vari-nozzle and operates in the same manner as the Navy pick-up tube. Can be used to augment installed systems or serve as primary system when installed systems are inoperative. Connects to 1-1/2 inch fire hose. The male end of the hose line feeding seawater to the eductor is threaded into the female end of the eductor. Seawater passing through the eductor causes a suction in the pickup tube which draws AFFF concentrate from the five gallon AFFF container, mixing the AFFF concentrate and seawater at approximately a 6% ratio.

USE TIP: Tech Manual No. 2900-US-0-1-31-002.

REF: Firefighting/Access Equipment Kit.

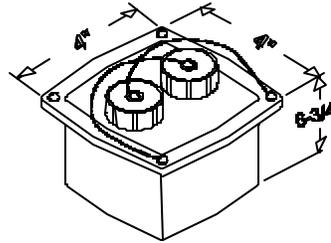
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SECTION J

JACK - BOX-TY G15 B

NSN 5935-00-552-6790

WT. 1.8 lbs. VOL. 121.5 in³



DESCRIPTION: . Sound powered telephone jack box used for emergency communications. Brass, submersible.

USE: Used in emergency sound powered communications with headsets.

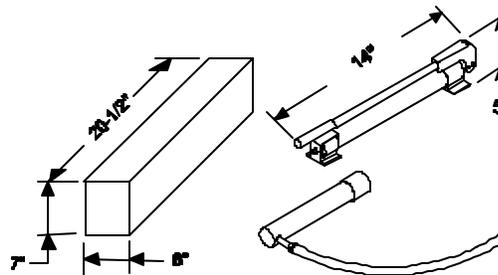
USE TIP: Store with caps attached to keep connection points clean and dry.

REF: NAVSHIPS Drawing No. 9000-S6501-74210. Emergency Communications Kit.

JACK - HYDRAULIC 10 TON CAPACITY

NSN 5120-00-293-0076

WT. 44.0 lbs. VOL. 861.0 in.³



DESCRIPTION: Hand-operated hydraulic jack with solid plunger for lifting and lowering loads. Rated capacity is 10 tons. Remote control type. Cylinder and ram connected to pump. 12-1/2 to 18 inch rise.

USE: Used in damage control rigging in salvage operations to support ships structure in shoring operations and restoring equipment to its original position. For CV and CVN use only.

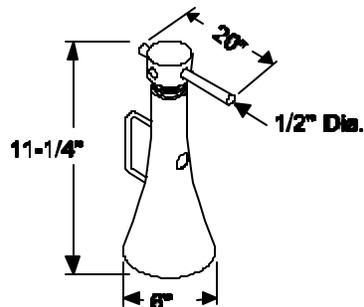
USE TIP: For CVN only.

REF: AEL 2-8800044210-211

JACK - SCREW HAND 12 TON
(12-1/2" TO 18" RISE)

NSN 5120-00-224-7522

WT. 20.0 lbs. **VOL.** 405.0 in³



DESCRIPTION: Hand operated screw jack, rated capacity is 12 tons.

USE: Provided on aircraft carriers and used for heavy lift work on flight deck and in hangar bay casualties, salvage operations and to support ship's structure as required in shoring operations.

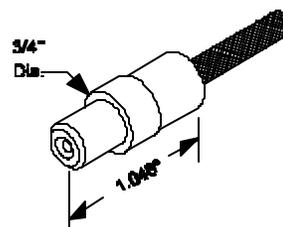
USE TIP: For use on CVN only.

REF: Damage Control Repair Station Tools X Equipment (DCRS).

JACK - TELEPHONE
1 EACH TELEPHONE LINE

NSN 5935-00-254-9287

WT. 4.0 oz **VOL.** 0.5 in³



DESCRIPTION: Jack for telephone.

USE: Emergency equipment for use with headsets. Consists of jack boxes, reel with 200' of cable and one telephone plug and one telephone jack on each end.

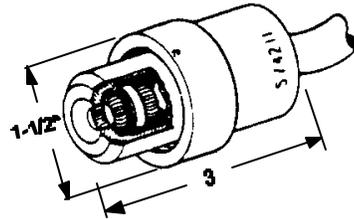
USE TIP: Use during emergency communication operations.

REF: NAVSEA Drawing No. 56505-74211. Emergency Communications Kit.

JACK - TELEPHONE

NSN 5935-00-258-8947

WT. 0.3 lbs. **VOL.** 13.5 in³



DESCRIPTION: Consists of jack boxes and reel with 200 feet of cable and one telephone plug and one telephone jack on each end.

USE: Emergency equipment for use with headsets.

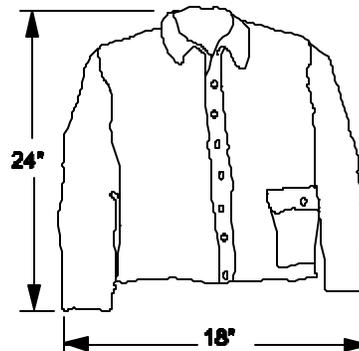
USE TIP: Use during emergency communication operations.

REF: Emergency Communications Kit.

JACKET - WELDERS

1H 0000-LL-CQA-2505 (SELECT SIZE)
NSN 8415-00-268-8262 SIZE SML
NSN 8415-00-268-8263 SIZE 38
NSN 8415-00-268-8264 SIZE LRG
NSN 8415-00-268-8265 SIZE XLRG
NSN 8415-01-088-4933 SIZE 50

WT. 5.0 lbs. **VOL.** 1,296.0 in³ (AVG)



DESCRIPTION: Leather, long sleeve, eight snap fastener front, shirt type collar, lower left patch pocket with snap.

USE: Provides protection to the arms, torso, and upper legs during welding operations.

USE TIP: Store by hanging in dry space. Not intended for direct contact with flame or arc.

REF: Welding Equipment Kit.

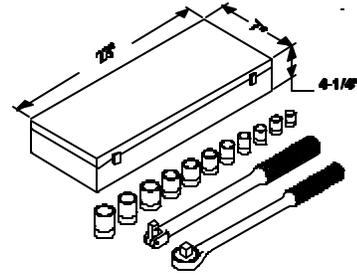
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SECTION K

KEY SET - SOCKET HEAD

NSN 5120-00-595-9244

WT. 2.5 lbs **VOL.** 23.8 in³



DESCRIPTION: 11 piece set, hardened steel, regular length: 5/64 inch, 3/32 inch, 1/8 inch, 5/32 inch, 3/16 inch, 7/32 inch, 1/4 inch, 5/6 inch, and 3/8 inch.

USE: Used to perform various DCPO PMS functions.

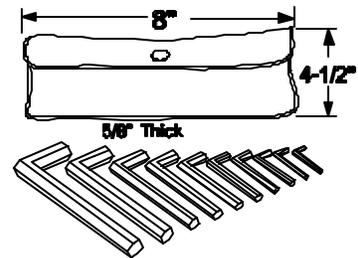
USE TIP: The leverage required and the available working space will determine which end to use.

REF: Damage Control Petty Officer (DCPO) Kit.

KEY SET, SOCKET HEAD (ALLEN WRENCH)

NSN 5120-00-935-4641

WT. 5.0 lbs. **VOL.** 22.5 in³



DESCRIPTION: Allen wrench, L-shaped, short hexagonal bars in set made of hardened steel. Sizes: 0.028", 0.035", 0.050", 1/16", 5/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", and 3/4".

USE: Used to facilitate performing some DCPO PMS functions such as turning screws or bolts with hexagonal openings.

USE TIP: Work space and leverage required will determine which end to use.

REF: Damage Control Petty Officer (DCPO) Kit.

KIT - ADAPTERS/CONNECTIONS-DC

1HM0000-LL-CQA-2440

DESCRIPTION: Portable, hand carried kit.

USE: Identifies all equipment used for the function of connecting various pipe sizes and hose sizes, as well as emergency jumper runs.

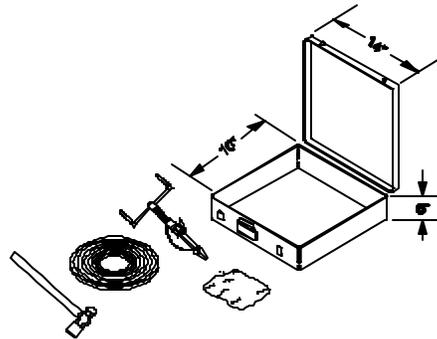
USE TIP: Stow with hoses and emergency jumper runs.

REF: Adapters/Connections Kit.

KIT - BANDING KIT - BANDING TOOL-DC

1HM0000-LL-CQA-2441

DESCRIPTION: Portable, hand carried kit consists of: a roll of banding straps, bag of ½” clips, banding tool, ballpeen hammer, chain wrench and metal pipe strong backs.



USE: Identifies all equipment used for the function of providing emergency pipe patching material, as well as emergency securing devices for other components.

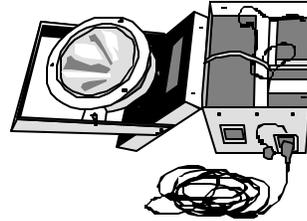
USE TIP: Keep tools and equipment lubricated while in storage.

REF: Individual items are listed on AELs #2-880044223 and #2-880044226.

**KIT - BATTERY CONVERSION
LANTERN RECHARGEABLE**

NSN 6130-01-406-8964

WT. 2.0 lbs **VOL.** 140.0 in³



DESCRIPTION: This kit consists of three sealed rechargeable 6V AA batteries and one 110V AC charger module.

USE: Provides a rechargeable power source for each emergency damage control lantern. The lanterns are used during loss of ship's power, emergency repairs, damage control and firefighting drills and actual casualty response. The damage control lantern rechargeable battery:

- Provides up to four hours operating time when fully charged, or up to eight hours extended operating time while connected to the battery charger.
- Capable of producing 100,000 candle power.
- Weight – 20 lbs.
- Rechargeable from repair locker electrical outlets (110 volts A/C, 50 or 60 cycles).
- A/C line protection (surgistor and spike protection).
- Water resistant.

USE TIP: Two per DCRS. Authorized as a replacement for current wet cell battery used in the lantern.

REF: NDI equipment.

KIT - CBR DETECTION EQUIPMENT-DC

1HM0000-LL-CQA-2442

DESCRIPTION: This kit contains computer (indicator), CP Kit (Chem Detector)

USE: Identifies equipment used while conducting personnel monitoring and ship's chemical, biological and radiological surveys.

USE TIP: Stow in DC locker.

REF: Individual items are listed on AEL 2-880044227. CBR Detection Equipment Kit.

KIT - CBR PERSONNEL-CP EQUIPMENT-DC

1HM0000-LL-CQA-2443

DESCRIPTION: Identifies all equipment used for the function of providing personnel protection and decontamination materials in a CBR environment.

USE: To protect personnel from harmful contaminants in a chemical, biological or radiation hazard environment.

USE TIP: Stow in DC locker.

REF: Individual items are listed on AEL #2-880044229 thru #2-880044231, CBR Personnel – CP Equipment Kit.

KIT - COLLECTIVE PROTECTION SYSTEM (CPS)

1HM0000-LL-CQA-2444

DESCRIPTION: Identifies all equipment used for the function of providing temporary CPS integrity. Listed in alphabetical order in this guide.

USE: Provides emergency temporary repair capability.

USE TIP: Stow in DC locker.

REF: Individual items are listed on AEL #2-880044235, Collective Protection System (CPS) Kit.

**KIT - DAMAGE CONTROL
PETTY OFFICER (DCPO)**

1HM0000-LL-CQA-2445

DESCRIPTION: Identifies all maintenance equipment for divisional damage control.

USE: Used for the function of performing DC maintenance in accordance with MRC PMS requirements.

USE TIP: This equipment is not stowed in the DCRS.

REF: Individual items are listed on AEL #2-880044236 and #2-880044237, Damage Control Petty Officer (DCPO) Kit.

KIT - DESMOKING EQUIPMENT-DC

1HM0000-LL-CQA-2446

DESCRIPTION: Identifies all desmoking equipment .

USE: Used for the function of conducting desmoking operations during and after a fire.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044238 #2-880044239, Desmoking Equipment Kit.

KIT - DEWATERING EQUIPMENT-DC

1HM0000-LL-CQA-2447

DESCRIPTION: Identifies all dewatering equipment.

USE: Used for the function of conducting emergency dewatering operations on either a large or a small scale.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044240 and #2-880044241, Dewatering Equipment Kit.

KIT - ELECTRICAL CABLE REPAIR-DC

1HMM0000-LL-CQA-2448

DESCRIPTION: Identifies electrical cable repair equipment.

USE: Used for the function of making electrical cable repair. For more information see Electrical Cable Repair Crimping Tool-HYDRA, Electrical Cable Repair Crimping Tool-STRIPPER and Electrical Cable Repair Manuals (OPER X TOOLS, OPER X SERV) in this section.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044242, Electrical Cable Repair Kit.

KIT - ELECTRICAL REPAIR-DC

1HM0000-LL-CQA-2449

DESCRIPTION: Identifies all electrical repair equipment used by qualified repair party electricians.

USE: Used for the function of providing repairs to electrical panels, lighting, wireways and portable electrical equipment.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044243 and #2-880044244, Electrical Repair Kit.

KIT - ELECTRONIC REPAIR-DC

1HM0000-LL-CQA-2450

DESCRIPTION: Identifies all electronic repair equipment.

USE: Used for the function of providing repair to vital electronic equipment support systems during battle.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044245, Electronic Repair Kit.

KIT - EMERGENCY COMMUNICATION-DC

1HM0000-LL-CQA-2451

DESCRIPTION: Identifies all emergency communication equipment.

USE: Used for the function of providing emergency communications at battle stations or other general shipboard casualties.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044246 and #2-880044247, Emergency Communications Kit.

KIT - EMERGENCY LIGHTING-DC

1HM0000-LL-CQA-2452

DESCRIPTION: Identifies all emergency lighting equipment..

USE: Used for the function of providing extension cables and lights where power supply has been interrupted during shipboard casualties and Condition 1.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044248 and #2-880044249, Emergency Lighting Kit.

KIT - ENGINEERING SPACES-DC

1HM0000-LL-CQA-2453

DESCRIPTION: Identifies all engineering spaces equipment for plugging and pipe patching.

USE: Used for the function of providing emergency plugging and pipe patching operations in main and auxiliary engineering spaces.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044250 and #2-880044251, Engineering Spaces Kit.

KIT - FIREFIGHTING/ACCESS EQUIPMENT-DC

1HM0000-LL-CQA-2454

DESCRIPTION: Identifies all firefighting/access equipment.

USE: Used for the function of providing access to fire areas.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044252 and #2-880044253, Firefighting/Access Equipment Kit.

KIT - FIREFIGHTING/ACCESS PERSONNEL-DC

1HM0000-LL-CQA-2455

DESCRIPTION: Identifies all firefighting/access personnel equipment.

USE: Used for the function of providing personnel protection to the fire fighter.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

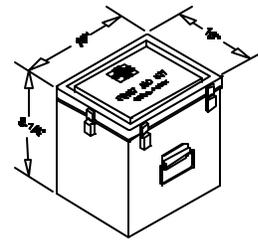
REF: Individual items are listed on AEL #2-880044254 thru #2-880044256, Firefighting/Access Personnel Kit.

KIT - FIRST AID

NSN 6545-00-116-1410

WT. 10.0 lbs.

VOL. 825.0 in³



DESCRIPTION: Materials used to provide first aid to DC personnel during DC emergencies.

USE: Contents to be periodically checked by ship's medical department.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: BUMED Doc. No. C65451L Vol. 2.

KIT - GAS FREE ENGINEER-DC

1HM0000-LL-CQA-2456

DESCRIPTION: Identifies all gas free engineering equipment.

USE: Used for the function of detecting the presence of poisonous and volatile fumes and gas, and to determine oxygen deficiency in a given compartment.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044260 and #2-880044261, Gas Free Engineering Kit.

KIT - INVESTIGATOR-DC

1HM0000-LL-CQA-2457

DESCRIPTION: Identifies all investigator equipment.

USE: Used for the function of performing the preliminary survey of a known or suspected damage/fire/flooding area.

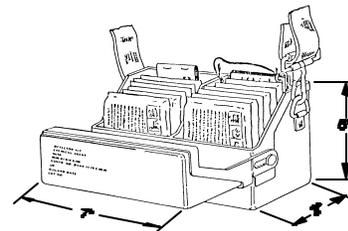
USE TIP: OBA canisters are to be obtained from distributive stowage racks in the DCRS area of responsibility. After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044262 and #2-880044263, Investigator Kit.

KIT - M256A1 - TRAINING

NSN 6665-01-112-1644

WT. 1.2 lbs **VOL.** 105.0 in³



DESCRIPTION: Identifies items stowed together as a damage control training kit.

USE: Used for damage control training.

USE TIP: Two per DCRS on CV and CVN class ships; and one per DCRS for all other surface ships. After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Training Kit.

**KIT - MAINTENANCE GENERAL
FOR WATER DRIVEN FAN**

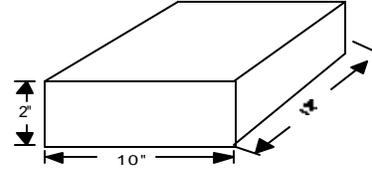
NSN 4140-01-339-1293

WT. 2.5 lbs.

VOL. 240.0 in.³

DESCRIPTION: Supplies general maintenance equipment required for water driven fan.

USE: Used for general maintenance.



USE TIP: Included with water driven fan, when ordered. After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Desmoking Equipment Kit.

KIT - MONITORING TEAM, CBR-DC

1HM0000-LL-CQA-2459

DESCRIPTION: Identifies all CBR monitoring team equipment.

USE: Used for the function of providing CBR surveys in order to isolate CBR boundaries.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044266 and #2-880044267, Monitoring Team, CBR Kit.

KIT - PIPE JUMPER HOSE SYSTEM 1

NSN 4720-01-413-9060

WT. lbs **VOL.** in³

DESCRIPTION: Identifies pipe jumper hose system equipment consisting of jumper fittings, prefabricated jumper hoses and associated support.

USE: Used for faster and less labor intensive battle damage emergency repair. Enables DC personnel to rapidly repair any severed pipeline systems (except steam) from ¼" to 2-1/2" in diameter by:

- Removing the jagged end of the pipes with PECU or hacksaw and smoothing any sharp edges with a file.
- Measuring outside diameter of pipes and selecting a pair of PJHS fittings of correct size.
- Installing the mechanically operated PJHS fittings and securing them with spanner wrenches.
- Snapping on (Kit 1) or screwing on (Kit 2) the jumper hose.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: PJHS 1 Kit.

KIT - PIPE JUMPER HOSE SYSTEM 2

NSN 4720-01-413-9058

WT. lbs **VOL.** in³

DESCRIPTION: Identifies pipe jumper hose system equipment consisting of jumper fittings, prefabricated jumper hoses and associated support.

USE: Used for faster and less labor intensive battle damage emergency repair. Enables DC personnel to rapidly repair any severed pipeline systems (except steam) from ¼" to 2-1/2" in diameter by:

- Removing the jagged end of the pipes with PECU or hacksaw and smoothing any sharp edges with a file.
- Measuring outside diameter of pipes and selecting a pair of PJHS fittings of correct size.
- Installing the mechanically operated PJHS fittings and securing them with spanner wrenches.
- Snapping on (Kit 1) or screwing on (Kit 2) the jumper hose.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: PJHS 2 Kit.

KIT - PIPE PATCHING-DC

1HM0000-LL-CQA-0095

DESCRIPTION: Identifies all pipe patching equipment.

USE: Used for the function of providing emergency pipe repair on L.P. systems.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044268 and #2-880044269, Pipe Patching Kit.

**KIT - PLASTIC PIPE PATCHING-
PLASTIC PATCH/PIPE REPAIR
(KIT #1)**

NSN 4730-00-542-3359

DESCRIPTION: Identifies plastic patch – pipe repair equipment.

USE: Used for the function of providing emergency pipe repairs on various low and medium pressure systems.

USE TIP: This kit is applicable only to those ships outfitted with AELs #2-880044200 and #2-880044201. After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044271, Plastic Patch-Pipe Repair Kit.

**KIT - PLASTIC PIPE PATCHING -
PLASTIC PATCH/PIPE REPAIR
(KIT #2)**

NSN 4730-00-542-3362

DESCRIPTION: Identifies all plastic patch – pipe repair equipment.

USE: Used for the function of providing emergency pipe repairs on low and medium pressure systems.

USE TIP: This kit is applicable only to those ships outfitted with AELs #2-880044200 and #2-880044201. After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044271, Plastic Patch – Pipe Repair Kit.

**KIT - PLASTIC PIPE PATCHING -
PLASTIC PATCH/PIPE REPAIR-DC**

1HM0000-LL-CQA-2461

DESCRIPTION: Identifies all plastic patch – pipe repair equipment.

USE: Used for the function of providing emergency pipe repairs on various low and medium pressure systems.

USE TIP: This kit is applicable only to those ships outfitted with AELs #2-880044200 and #2-880044201. After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044271, Plastic Patch – Pipe Repair Kit.

KIT - PLUGGING-DC

1HM0000-LL-CQA-0102

DESCRIPTION: Identifies all plugging equipment.

USE: Used for the function of providing emergency hull/bulkhead and pipe repair by caulking.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044272 and #2-880044273, Plugging Kit.

KIT - PORTABLE EXOTHERMIC CUTTING UNIT (PECU)-DC

NSN 4240-01-272-3841

DESCRIPTION: This kit identifies all equipment used for the function of cutting through ferrous, non-ferrous wiring and other shipboard materials; in particular aircraft carrier flight decks.

USE: The PECU utilizes expendable cutting rods which operate on the exothermic torch principle. This principle involves the use of oxygen which is combined with a fuel. In this case the fuel is a steel tube. The exothermic cutting rod is ignited when the oxygen passing through the iron rod comes in contact with a spark generated from a 12 volt DC battery powered igniter. Once ignited, the fuel rod will continue to burn until expended, provided the oxygen flow is maintained. Releasing the oxygen lever will extinguish the rod. A 12-volt battery is the maximum electrical power permitted. Larger power sources will melt cables. The exothermic torch will cut through most materials, including steel, aluminum, laminates, piping, and cable. It will operate with the cutting rod and torch handle under water or in air. Commercially available units may not provide underwater cutting capability.

USE TIP: The PECU will replace existing portable oxyacetylene cutting units on a one for one basis. The PECU will provide for more rapid access into areas of the ship where normal access is impaired for fire fighting operations, and to drain accumulated firefighting water from areas of the ship where the effects of the accumulated firefighting water will impair the ship's stability. Individual items are listed on AEL #2-880044274 and #2-880044275.

CAUTION

Do not cut piping that is pressurized, piping that contains flammable fluid, or electrical cables that are energized.

WARNING

The exothermic torch will produce sparks and molten slag which can burn personnel, damage equipment, or ignite combustibles on both sides of the deck or bulkhead being cut. Holes cut in ship structure should be circular, not less than 6 inches in diameter, nor more than 19 inches in diameter. Forming of corners that initiate or induce stress cracking shall be avoided. When using this torch in the weather, the operator and other personnel should position themselves upwind of the cut, and the cut should be started downwind of the planned hole so that molten slag, heat, and smoke formed by the torch or vented from the hole will blow clear of personnel. The access team should have smoke curtains; plugging, patching and shoring materials; and firefighting equipment immediately available as applicable to the situation.

Operation of the PECU will generate a large fume plume. In some situations it may be necessary to provide respiratory protection or emergency ventilation to the operator, or even for the operator to don an OBA. If an OBA is worn, it should be shielded from molten splatter.

The equipment technical manual contains specific directions for maintenance, stowage and cleaning of the PECU. In general, these directions require that responsible personnel:

- Keep the oxygen feed system clean (free of oil, grease and dirt)
- Ensure that the flash arrester is in place prior to use.
- Ensure that the collet nut and washer are in good condition.
- Remove the fuel rod prior to storing the PECU.
- Never leave a torch unattended with the oxygen feed system pressurized or the ignition system energized.
- Remove all slag, dirt and debris from external surfaces prior to storing the PECU.

REF: Battery maintenance shall be in accordance with NSTM Chapter 313, Portable Stowage and Dry Batteries. APL 419990197. Navy Technical Manual 0910-LP-574-3200. MIP/MRC

6641/006, 63B6CGN, 63B6CHN, 63B6CKN. Individual items are listed on AEL #2-880044274 and #2-880044275, PECU Kit.

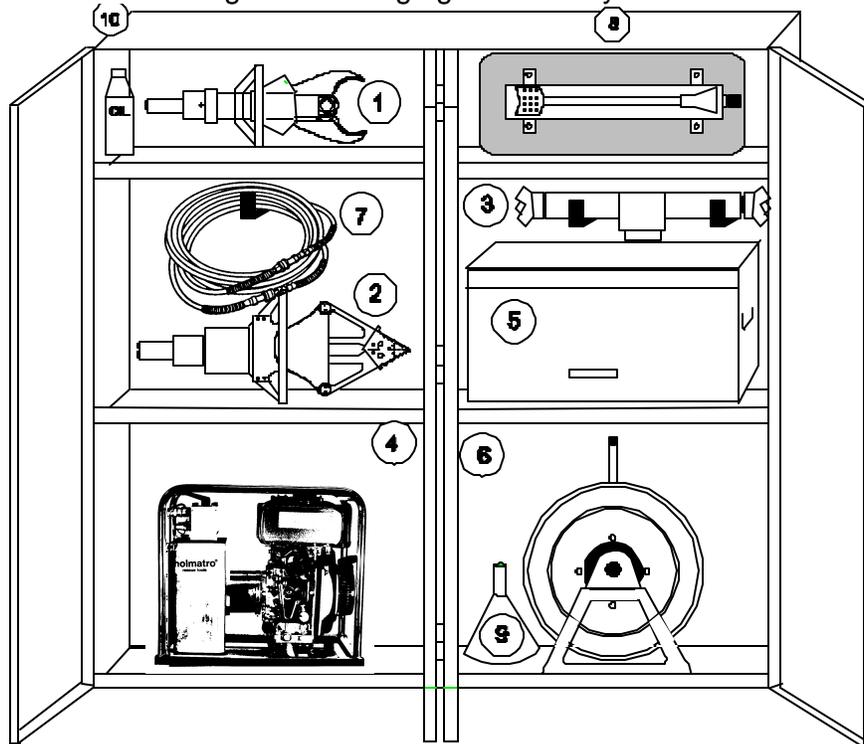
KIT - PORTABLE HYDRAULIC ACCESS/RESCUE SYSTEM

NSN 4240-01-331-6853 - HOLMATRO TOOLS

DESCRIPTION/USE: Identifies all equipment used for the function of emergency access and personnel rescue during damage control and rescue and assistance operations when the use of flame/spark producing equipment may not be appropriate. Each ship should have at least one PHARS kit.

EQUIPMENT DESCRIPTION	DIMENSIONS	LBS	IN ³
1. Cutter	30.75"L x 8.75"W x 5"H	35.0	1345
2. Spreader	35"L x 12"W x 8.5"H	49.0	3570
3. Extension Ram	30.25"L x 4.75"W x 17"H	36.0	2443
4. Engine	21"L x 16"W x 22"H	80.0	7392
5. Box. Tool Kit	36"L x 16"W x 18"H	10.0	1260
6. Hose Reel - 100'	16.5"L x 14"W x 18"H	63.0	4158
7. Extension Hose, 1 x 16'	24"L x 18"W x 3"H	6.0	1296
8. Foot Valve	30"L x 10"W x 5"H	22.0	1500
9. Funnel	8"L x 4"W x 4"H	0.5	128
10. Oil, case - 7 quarts (1 quart illustrated)		13.0	572

- USE TIP:**
1. Spare hydraulic fluid (7 qts.) stored as designated by DCA.
 2. Illustration is for general storage guidance only.



REF: Items are listed on AEL #2-884444276, Portable Hydraulic Access/Rescue System Kit.

NSN 4240-01-376-3727 - PHOENIX TOOLS

DESCRIPTION/USE: Identifies all equipment used for the function of emergency access and personnel rescue during damage control and shoreside disaster operations when the use of flame/spark producing equipment may not be appropriate. Each ship should have at least one PHARS kit.

EQUIPMENT DESCRIPTION	DIMENSIONS	LBS	IN³
1. Cutter	21"L x 8"W x 5"H	12.0	840
2. Spreader	31"L x 13"W x 8"H	48.0	3224
3. Extension Ram	25"L x 7"W x 3"H	28.0	525
4. Engine	22"L x 20"W x 20"H	95.0	8800
5. Hose Reel - see Note 2	21"L x 18"W x 18"H	63.0	6804
6. Extension Hose, 1 x 15'	24"L x 16"W x 3"H	6.0	1152
7. Funnel	8"L x 4"W x 4"H	0.5	128
8. Oil, case - 7 quarts (1 quart illustrated)		13.0	512

- USE TIP:** 1. Spare hydraulic fluid (7 qts.) stored as designated by DCA.
2. 100' hose with manifold attached to hose (optional).

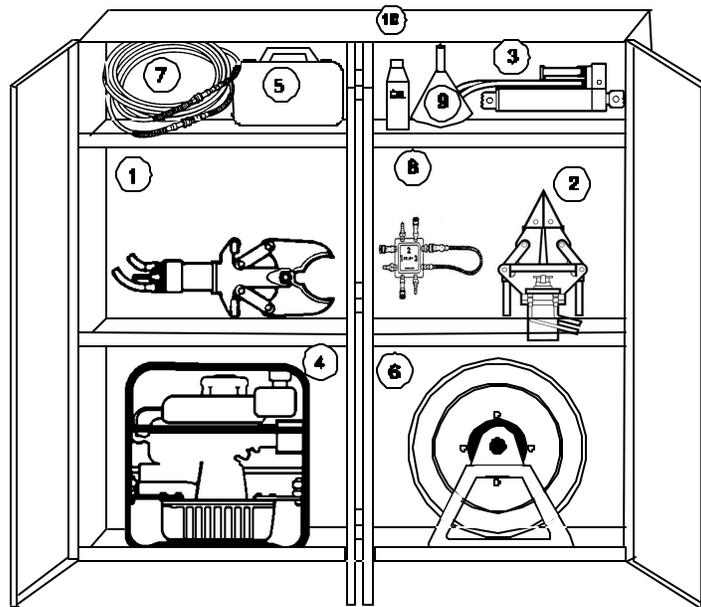
REF: Items are listed on AEL #2-884444276, Portable Hydraulic Access/Rescue System Kit.

NSN 4240-01-279-8598 - HURST TOOLS

DESCRIPTION: Identifies all equipment used for the function of emergency access and personnel rescue during damage control and shoreside disaster operations when the use of flame/spark producing equipment may not be appropriate. Each ship should have at least one PHARS kit.

EQUIPMENT DESCRIPTION		DIMENSIONS	LBS	IN ³
1.	Cutter	31½"H x 11½"W x 7"D	36.0	2536
2.	Spreader	24.3"H x 14"W x 8½"D	48.0	2892
3.	Extension Ram	23"H x 7"W x 3"D	28.0	483
4.	Engine	22"H x 20"W x 20"D	95.0	8800
5.	Attachment Case	11"H x 15d"W x 3"D	8.0	507
6.	Hose Reel - 100' with Manifold attached to hose	18"H x 16½"W x 16½"D	63.0	4901
7.	Extension Hose, 1 x 16'	24"H x 18"W x 3"D	6.0	1296
8.	Multiple Connection Manifold	15"H x 9½"W x 5"D	10.0	713
9.	Funnel	8"H x 4"W x 4"D	0.5	128
10.	Oil, case - 7 quarts (1 quart illustrated)		13.0	512

USE TIP: 1. Spare hydraulic fluid (7 qts.) stored as designated by DCA.



USE: The PHARS consists of a motor driven hydraulic pump, a spreader, cutter, rams, hydraulic hose, reel and associated attachments (cutting tips, gripping tips, conical wedge block or V block). All tools are suitable for use underwater. All tools open and close hydraulically. Tools are powered by either diesel, gasoline or electrically driven hydraulic pumps.

REF: Individual items are listed on AEL #2-880044276 and in alphabetical order in this guide under the prefix "PHARS". Portable Hydraulic Access/Rescue System Kit.

KIT - PORTABLE PUMP ACCESSORIES-DC

1HM0000-LL-CQA-2460

DESCRIPTION: Identifies all portable pump accessories equipment.

USE: Used for the function of providing accessories to the P-100 to function as a dewatering/fire fighting pump.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044270, Portable Pump Accessories Kit.

KIT - REPAIR LOCKER TOOL-DC

1HM0000-LL-CQA-2463

DESCRIPTION: Identifies repair locker tools and equipment.

USE: Provides additional tools and equipment that are not specifically identified in other kits.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044277 and #2-880044278, Repair Locker Tool Kit.

KIT - RESCUE AND ASSIST CHESTS-DC

1HM0000-LL-CQA-2464

DESCRIPTION: Identifies all rescue and assistance equipment.

USE: Used for the function of providing off-ship assistance at sea or in port to conduct fire fighting, dewatering or personnel rescue operations.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044279, Rescue and Assistance Chests Kit.

KIT - SHORING MATERIAL-DC

1HM0000-LL-CQA-2465

DESCRIPTION: Identifies shoring materials.

USE: Used for the function of conducting shoring and plugging operations by using steel and wooden shores.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044280 and #2-880044281, Shoring Material Kit.

KIT - SHORING SUPPLEMENT/GRP Repair-DC

1HS0000-LL-CQA-4178

DESCRIPTION: Identifies all shoring supplement/GRP repair equipment.

USE: Used for the function of emergencies involving Glass Reinforced Plastic (GRP) repair as a shoring supplement on MHC 51 Class ships.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044289, Shoring Supplement/GRP Repair Kit.

KIT - SHORING TOOL-DC

1HS0000-LL-CJ7-5894

DESCRIPTION: Identifies all shoring tools and equipment.

USE: Used for the function of conducting shoring operations by using steel and wooden shores.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044282 and #2-880044283, Shoring Tool Kit.

KIT - SOUNDING-DC

1HM0000-LL-CQA-0096

DESCRIPTION: Identifies all sounding equipment.

USE: Used for the function of conducting soundings of tanks, voids and other compartments suspected of flooding.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044284 and #2-880044285, Sounding Kit.

KIT - TRAINING-DC

1HM0000-LL-CQA-2466

DESCRIPTION: Identifies all training equipment.

USE: Used for the function of fire fighting and emergency egress training in a smoke filled environment.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044286, Training Kit.

KIT - WELDING EQUIPMENT-DC

1HM0000-LL-CQA-2439

DESCRIPTION: Identifies all welding equipment.

USE: Used for the function of performing emergency welding operations, such as reinforcing or repairing hull, deck, bulkhead, or piping systems.

USE TIP: After use, return all components that are not depleted to the kit and replace items of no further use in order to maintain kit completeness.

REF: Individual items are listed on AEL #2-880044287 and #2-880044288, Welding Equipment Kit.

KNIFE - PUTTY 1-1/4"
SEMI-FLEXIBLE

NSN 5120-00-294-4605

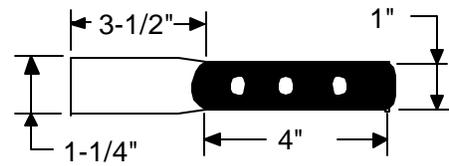
WT. 2.0 oz **VOL.** 8.8 in³

DESCRIPTION: Narrow blade, 1-1/4" wide, with a squared-off end and plastic handle.

USE: Used for damage control PMS.

USE TIP: Clean after each use.

REF: Damage Control Petty Officer (DCPO) Kit.



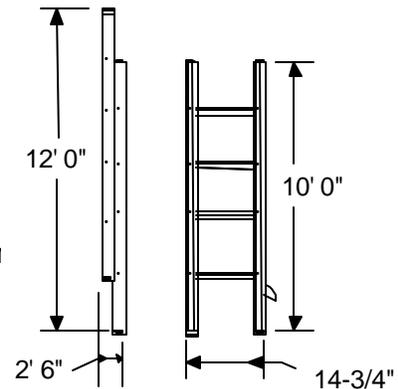
SECTION L

LADDER - FOLDING

NSN 4240-01-415-9772

WT. 9.0 lbs **VOL.** 9,216.0 in³

DESCRIPTION: Anodized extruded aluminum construction with stainless steel pivot pins. The folding ladder is stable and has the capability to stick to a bulkhead and deck due to its non-skid protective ends. Easily carried with one hand.



USE: Provides a rapidly deployable means of vertical movement for maintenance personnel, firefighters and damage control personnel in casualty areas. Additionally the folding ladder has the following characteristics:

- Opens with a jerk
- Rungs unfold automatically, safety catch at base locks rungs securely
- Supports up to 1,000 lbs. (600 lbs. per rung)
- Weighs 4-1/2 lbs per meter
- Various sizes ranging from 4' 11" to 13' 1"

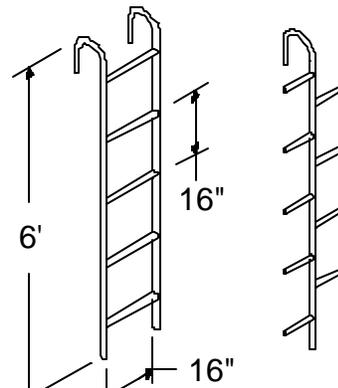
USE TIP: One per DCRS. Stow with shoring or access equipment. Do not use in vicinity of damaged electrical cables.

REF: Safety/Survivability NDI Equipment AEL

LADDER - SCALING

1HS0000-LL-CJ7-5890

WT. 22.0 lbs. **VOL.** 7320.0 in.³



DESCRIPTION: Portable steel pipe ladder to be manufactured by ship's force.

USE: Used to provide access to upper/lower decks when installed ladders are inaccessible.

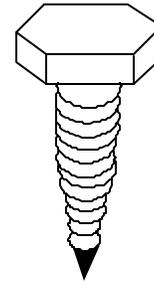
USE TIP: GEN NOTE: COAT ENTIRE ASSEMBLY WITH PLASTISOL TO IMPROVE GRIP AND TO PROVIDE ELECTRICAL INSULATION.

REF: NAVSEA Drawing No: 804-5959241, Firefighting/Access Equipment Kit.

LAG BOLT

	Pilot hole size
NSN 5306-00-058-2971 (4" x .312") Qty - 1 package -	.242
NSN 5306-00-406-9232 (5" x .375") Qty - 1 box -	.290
NSN 5306-00-412-9786 (2-1/2" x .500") Qty - 20 each -	.390

WT. lbs VOL. in³



DESCRIPTION: Looks like a fat, oversized screw that is partly threaded. Hex head for turning with a wrench.

USE: Used for securing shoring strongbacks/backing plate, shoring/backing plate, and backing plate, wedges respectively.

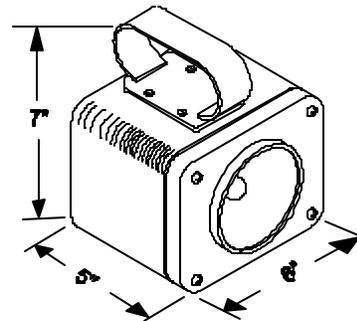
USE TIP: For use on MHC 51 Class ships.

REF: Shoring Supplement/GRP Repair Kit.

LANTERN - BATTLE (ASSEMBLY)

NSN 6230-00-968-7831 - BRACKET ASSEMBLY, LANTERN
NSN 6230-00-783-6519 - LANTERN, BODY ASSEMBLY
NSN 6230-00-776-5920 - HANDLE, SWITCH
NSN 6135-00-050-3280 - BATTERY, 6V,
NON-RECHARGEABLE

WT. 5.5 lbs VOL. 210.0 in³



DESCRIPTION: Portable hand lantern.

USE: Used in damage control emergencies as emergency lighting.

USE TIP: Replace battery at first sign of corrosion.

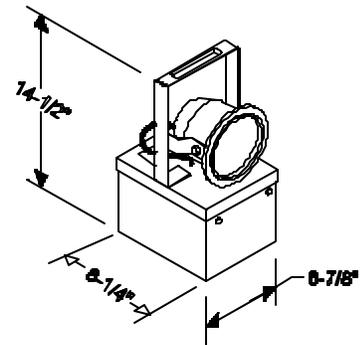
REF: Engineering Spaces Kit.

LANTERN - ELECTRIC (FLOOD SEAL BEAM)
WET CELL, DAMAGE CONTROL FLOOD TYPE.

NSN 6230-00-643-3661

WT. 4.0 lbs.

VOL. 919.80 in.³



DESCRIPTION: Damage control flooding type lantern. Type BB-254 with one clear white sealed beam lamp No. 4524, nonfocusing adjustable beam. Aluminum case with handle and moisture-proof switch.

USE: Used in DC fire fighting operations. A fully charged lantern provides emergency lighting for up to 8 hours.

USE TIP: Uses 4 wet cell batteries (NSN 6140-00-255-5719). If yellow "LED" is illuminated more than two hours, burn time may be expected. The lanterns should be left plugged into a 110 VAC for recharging when not in use.

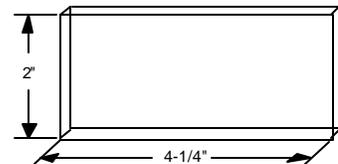
REF: For Kit - Battery Conversion 1HM0099-LL-H40-4396 - See AEL 2-880044298. Symbol 105, 6VDC. Emergency Lighting Kit.

LENS - HELMET, WELDER CLEAR

NSN 4240-01-311-6917

WT. 0.1 lbs.

VOL. 1.1 in³



DESCRIPTION: Clear plastic cover lens.

USE: Used to protect filter lens from pitting.

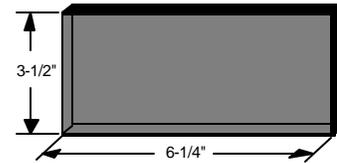
USE TIP: For use with helmet welders, NSN 4240-00-540-0623.

REF: Welding Equipment Kit.

LENS - HELMET, WELDER SHADE 12
(FOR TIG WELDING)

NSN 4240-00-276-8941

WT. 0.1 lbs. **VOL.** 1.1 in³



DESCRIPTION: Lens shade, glass filter.

USE: Used when welding inert gas metal-arc welding (ferrous)

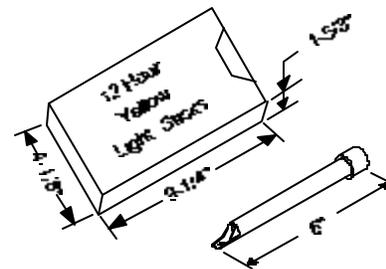
USE TIP: The use of this lens is required when using 1/16, 7/32, 1/4 inch electrodes.

REF: Welding Equipment Kit.

LIGHT , CHEMICAL LUMINESCENT
BOX OF 10 WANDS

NSN 6260-01-074-4230

WT. 11.0 oz **VOL.** 62.0 in³



DESCRIPTION: The chemical stick consists of a plastic tube filled with a yellow fluorescent compound. A vial of activating compound is suspended in the fluorescent compound. The light produced inside the tube will last 3 to 12 hours. The length of time is dependent on the ambient temperature.

USE: Emergency light to provide direction of personnel flow to egress route and to mark vital equipment locations so they can be seen in the dark.

USE TIP: Chemical lights will last up to 2 - 2 1/2 years or longer when stored in original packing. Also known as chem lights. 8 boxes per kit.

REF: Emergency Lighting Kit.

LIGHT - EXTENSION
EXPLOSION PROOF, 50 FT.

NSN 6230-00-701-2947

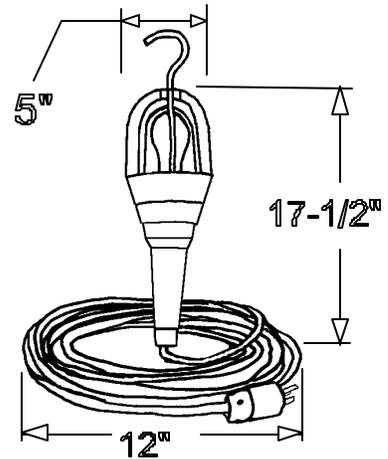
WT. 10.0 lbs. **VOL.** 869.5 in³

DESCRIPTION: Portable, incandescent, 100 watt, 120 volt light with a 50 ft long 3 conductor cable, glass globe, guard, hook and lamp holder. One medium screw base type lamp No. 100A/RS ACCMD.

USE: Used in post fire/damage control emergencies.

USE TIP: Also used in gas free engineering work.

REF: Emergency Lighting Kit.



LIGHT
SIGNAL

NSN 5850-00-501-1455

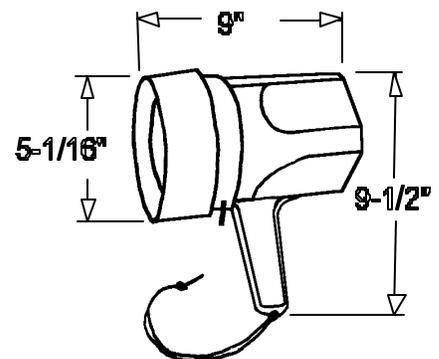
WT. 3.0 lbs. **VOL.** 386.4 in³

DESCRIPTION: Hand held emergency signal light.

USE: Used during rescue and assistance operations.

USE TIP: Provided by Ops Department.

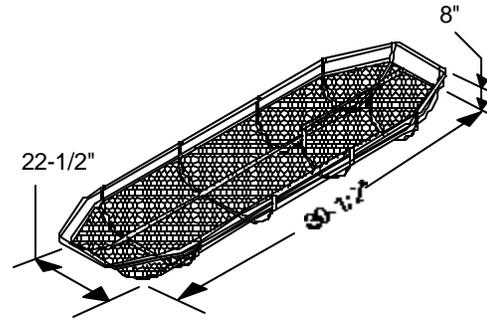
REF: Rescue and Assistance Reentry Locker (DCREL)



LITTER - RIGID, STOKES

NSN 6530-01-315-4784

WT. 34.0 lbs. **VOL.** 14,490.0 in³



DESCRIPTION: Rigid, lightweight "splint type" stretcher which has 4 black, nylon web straps and adjustable foot rests to hold patient while being moved horizontally, or lifted vertically from inaccessible areas. Steel 5/8 inch tube frame with heavy wire mesh. Rust resisting aluminum finish.

USE: Used in emergencies to evacuate injured personnel.

USE TIP: Provided by Medical Department.

REF: Rescue and Assistance/Re-entry Locker AEL.

SECTION M

M8 PAPER - CHEMICAL AGENT DETECTOR

NSN 6665-00-050-8529

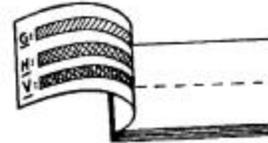
WT. 7.0 oz **VOL.** 2.0 in³

DESCRIPTION: Chemically coated paper in sheets.

USE: Used to detect liquid nerve/blister agents.

USE TIP: Dispose of paper properly after use.

REF: CBR Detection Equipment Kit.



M9 PAPER - CHEMICAL AGENT DETECTOR

NSN 6665-01-226-5589

(WITH DISPENSER)

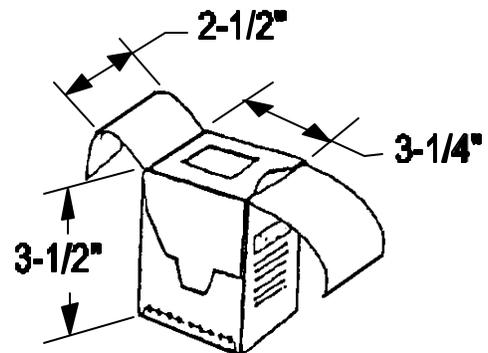
WT. 7.0 oz **VOL.** 28.4 in³

DESCRIPTION: The paper sticks to clothes, vehicles, and other equipment. When the liquid chemical agent touches the paper, dye in the paper reacts with the agent to form pink, red, red-brown, or red-purple spots or streaks. Issued as a single roll 2" wide x 30' length.

USE: Used to detect all known nerve agents (G & V) and blister agents (H & L) in the liquid state. The paper can be used to provide warning by placement on surfaces prior to attack and to detect/confirm existing contamination.

USE TIP: Protective gloves should be worn when touching detector paper. The detector paper dye could cause cancer if placed in or near mouth or skin. Shelf life of 6 years. Manufacture date is on packaging and dispenser labeling of each roll. The chemical agent detector paper is not effective below 32° F or above 125° F. It will not detect chemical agent vapors. It may give false readings when exposed to heat above 125° F, scuffing, various petroleum products such as grease, gasoline or oil, defoliants and insecticides, DS2, decontaminating agent and many other chemicals encountered by the user.

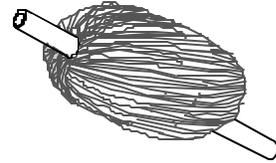
REF: CBR Detection Equipment Kit.



MARLINE-TAR - 2 PLY

NSN 4020-00-240-2185

WT. 0.5 lbs. **VOL.** 64.0 in³



DESCRIPTION: Tarred Hemp. 2 ply balance twist construction. 131', wrapped tightly around wooden dowel (12" broom handle stock).

USE: Used in pipe patching operations.

USE TIP: Also used for other general purpose damage control applications.

REF: Pipe Patching Kit. Repair Locker Tool Kit.

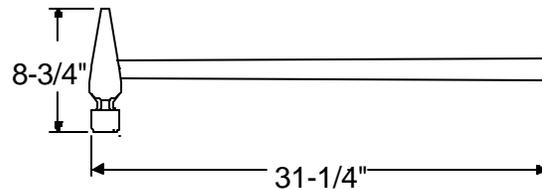
MAUL

5 LB., 32" HANDLE

NSN 5120-00-255-1476

WT. 6.7 lbs. **VOL.** 542.5 in.³

DESCRIPTION: Maul with one flat striking surface and one wedge shaped end.



USE: Used to drive DC plugs and wedges in constructing wooden shoring or to maintain a shoring watch.

USE TIP: Can be used for other damage control functions. Two per kit.

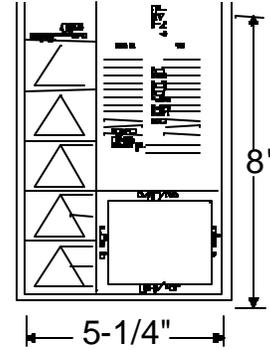
REF: Shoring Tool Kit. Plugging Kit.

MESSAGE BLANKS

1HS0000-LL-CJA-1884

(PAD OF 100)

WT. 0.5 lbs VOL. 21.0 in³



DESCRIPTION: Consists of three parts:

1. *Triangles.* The purpose of the series of triangles is to indicate progress of the casualties, such as repairs or action, beginning at the top for the initial report and ending below, showing completion.
2. *Identification of sending and receiving stations.* Placing a mark in the blanks indicates who is sending and to whom the message is being sent. Stations may be added or deleted depending on the shipboard requirements.
3. *Location/Description of casualty of any type of information under "Remarks".* Compartment and frame give location of casualty/action. Remarks is for any information desired. The square at the bottom represents a compartment which allows for indicating the damaged location in any compartment.

USE: Used to communicate damage control information by utilizing damage control symbology on a message format. Messages are sent from the on-scene-leader (OSL) to DCRS and used in DCRS/DCC to record messages.

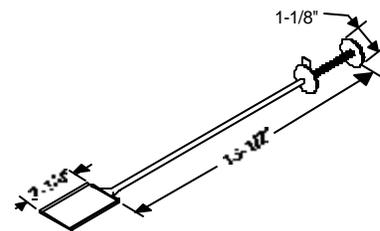
USE TIP: Prepared locally. Provided in Investigator's Kit, Emergency Communications Kit, Damage Control Unit Locker (DCUL), Sounding Kit and Monitoring Kit.

REF: CNSL Instruction 3541.1B. NWP 62-1 series.

MIRROR - INSPECTION, 2-1/4"

NSN 5120-01-278-8257

WT. 3.0 oz VOL. 2.2 in³



DESCRIPTION: Handle adjusts from 9 inches to 15 inches.

USE: Used to inspect work during maintenance operations.

USE TIP: Can be used to perform other inspection functions.

REF: Damage Control Petty Officer (DCPO) Kit.

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SECTION N

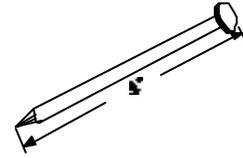
NAIL - COMMON, 16d

NSN 5315-00-753-3885

(BOX)

WT. 5.0 lb

VOL. 38.3 in³

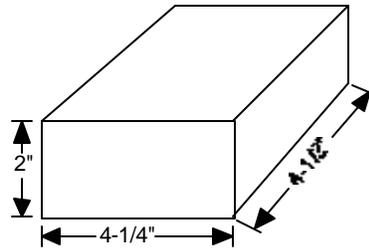


DESCRIPTION: 4 inch common head

USE: Used with lumber in shoring operations and to anchor steel shores.

USE TIP: Approx. 31 nails per lb.

REF: Shoring Tool Kit.



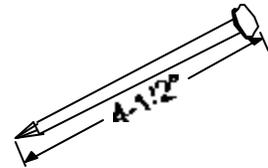
NAIL - COMMON, 20d

NSN 5315-00-010-4665

(BOX)

WT. 5.0 lb

VOL. 45.1 in³

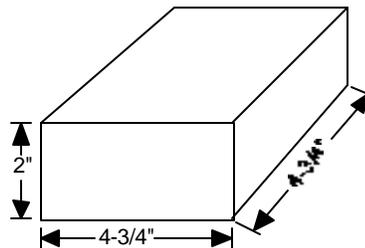


DESCRIPTION: 4-1/2 inch common head; coated.

USE: Used with lumber in shoring operations and to anchor steel shores.

USE TIP: Approx. 24 per lb.

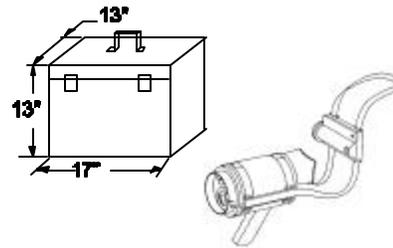
REF: Shoring Tool Kit.



**NAVAL FIREFIGHTERS THERMAL IMAGER -
(NFTI)**

NSN 4210-01-213-7310

WT. 29.0 lbs. **VOL.** 2,873.0 in³



DESCRIPTION: The Thermal Imager converts thermal radiation from the scene into electrical signals and is capable of resolving temperature differentials of 4 °F. The tubes have optimum sensitivity in the 8 to 14 infra-red band in which there is a maximum radiant power from objects at temperatures close to ambient. The system uses the pyroelectric effect in a thin layer of polar crystal. Variations in the electrical polarization of the target resulting from temperature changes produces a distribution of surface charges corresponding to the pattern of heat absorbed. The signal current is the result of neutralization of the charges by the scanning beam.

USE: Used to detect hot spots which enables the course of action for firefighters.

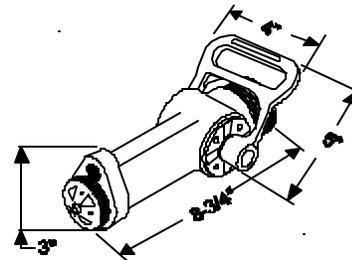
USE TIP: Uses 10 "AA" batteries per cartridge.

REF: Parent AEL.

**NOZZLE - FIRE HOSE WATER
(3 POSITION ALL PURPOSE NOZZLE) 1-1/2"**

NSN 4210-00-392-2943

WT. 10.0 lbs. **VOL.** 210.0 in.³



DESCRIPTION: The all purpose nozzle configured with throw handle for three positions; shut, fog, or solid stream. The high-velocity tip is secured to the body by a chain. Bronze threaded female hose connection. Integral tip carrier and removable nozzle tip to insert 4 ft. applicator. 1-1/2 NPSH.

USE: Used as the Navy all purpose nozzle.

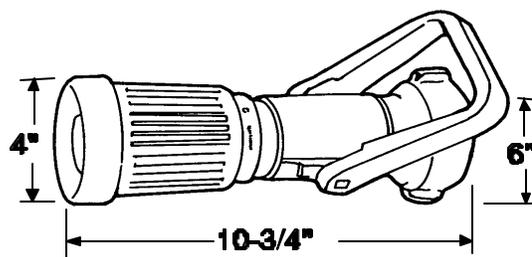
USE TIP: Also used with four foot applicator to produce a low velocity fog pattern.

REF: Firefighting/Access Equipment Kit.

NOZZLE - FIRE HOSE WATER
2-1/2" NH TYPE I

NSN 4210-00-465-1904

WT. 13.0 lbs. **VOL.** 258.0 in³



DESCRIPTION: Fire hose nozzle configured for fog wide angle fog (90 degrees) and a solid stream. Flow rate 250 gpm.

USE: Used for fighting all classes of fires, cooling and for personnel protection. Attach to 2-1/2 inch fire hose male connection in fire fighting operations on ships equipped with 2-1/2 inch fire plugs/foam outlets.

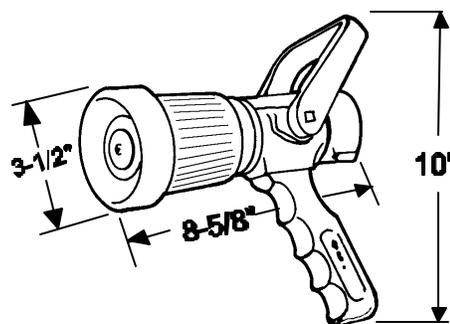
USE TIP: Allows fire fighter to work fire in a given direction. Primarily used for flight deck and weather deck operations.

REF: Firefighting/Access Equipment Kit.

NOZZLE – VARIABLE PATTERN

NSN 4210-00-465-1906

WT. 9.0 lbs. **VOL.** 301.8in³



DESCRIPTION: Variable pattern nozzle fitted with a pistol grip and configured for fog patterns from narrow angle fog (30 degrees) to wide angle fog (90 degrees) and a solid stream. Rated at 95 gallons per minute.

USE: Used for fighting all classes of fires, cooling and personnel protection. Attach to 1-1/2 inch fire hose in fire fighting operations on ships equipped with 1-1/2 inch fire plugs. Also used with AFFF inline eductor.

USE TIP: Allows the fire fighter to work fires in a given direction. Also provides a wide angle fog pattern.

REF: Firefighting/Access Equipment Kit.

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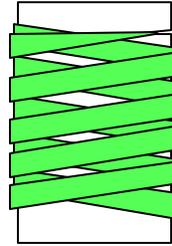
SECTION O

OAKUM SPUN TAR -

NSN 5330-00-191-5679

WT. 5.0 or 50.0 lbs. **VOL.** 448.0 in³ or 4,480.0 in³

DESCRIPTION: Short lengths of shredded rope or hemp fiber which is oiled or tarred.



USE: Used in pipe patching as caulking or a gasket when applying soft patches in low pressure piping and DC plugging operations. Two sizes are issued: 5 lbs. and 50 lbs.

USE TIP: Provide 1 lb. in a protective package in kits. Stow the remainder in the DCRS.

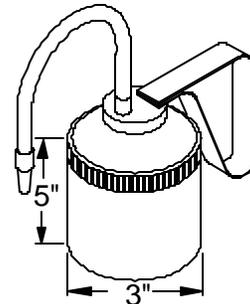
REF: Pipe Patching Kit. Engineering Space Kit. Plugging Kit.

OILER - HAND

1 PT WITH FLEXIBLE SPOUT

NSN 4930-00-262-8868

WT. 1.0 lbs. **VOL.** 34.8 in³



DESCRIPTION: Handle and lever operated. Self-priming pump type. Flexible 13 inch spout.

USE: Used to support DC PMS.

USE TIP: After oiling, wipe excess oil with a clean rag.

REF: Damage Control Petty Officer (DCPO) Kit.

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SECTION P

PAIL - 3 GALLON

NSN 7240-00-274-3875

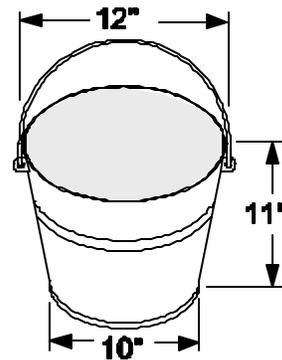
WT. 2.0 lbs. VOL. 1,320.0 in³

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

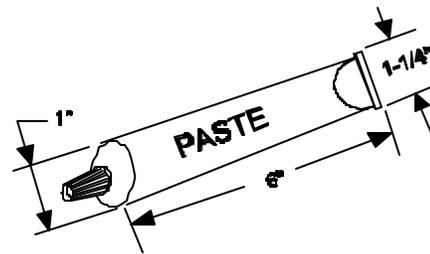
WT. 1.0 oz VOL. 28.3 in³

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:

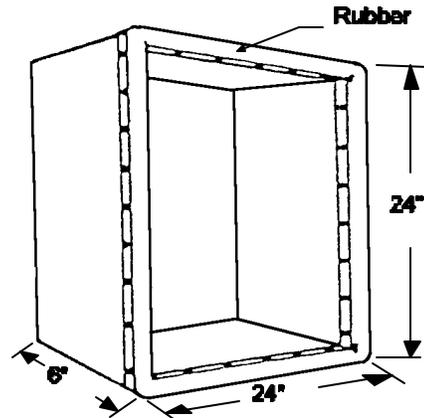
WT. 24.1 lbs. **VOL.** 1,200.0 in³ 12" x 12" x 6"

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 1/2" 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.

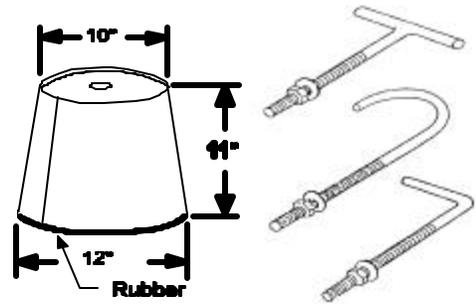
REF: NAVSEA Drawing No. 804-5959236. Parent AEL.

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.

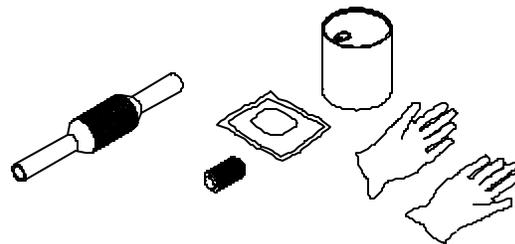
PATCH - EMERGENCY ACTIVATED REPAIR

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.

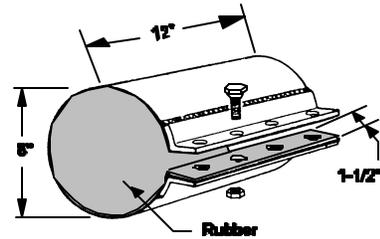
USE TIP: All of the tape must be used at one time. Wear rubber gloves/eye safety glasses during application. Cut and wet patch in water for 20 seconds.

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..

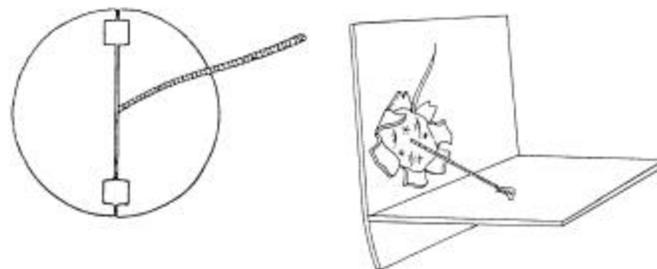
PATCH - PLATE PATCHES

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.

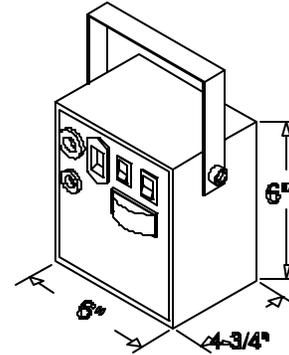
USE TIP: Larger plate patches can have an eye bolt welded to plate and lowered over the side and secured in place by welding for temporary repairs. Manufactured by ship's force.

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.

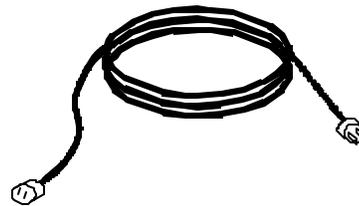
USE TIP: Do not use any torch that does not contain the mating connection with this battery assembly. **NOTE:** When using a battery for ignition when cutting without power be sure to follow the manufacturer's recommended care and maintenance procedures.

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

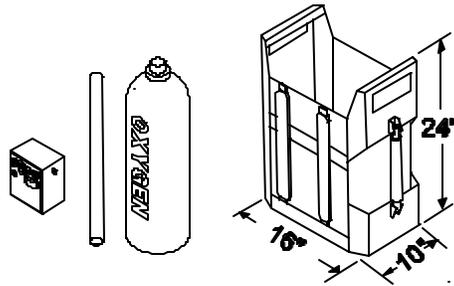
WT. 12.0 lbs. **VOL.** 4,000.0 in³

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

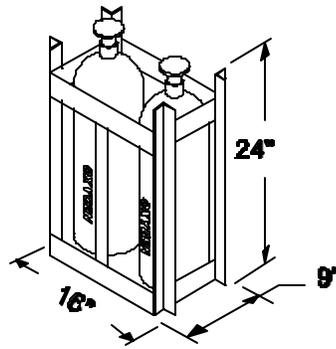
WT. 9.0 lbs. **VOL.** 3,564.0 in³

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.

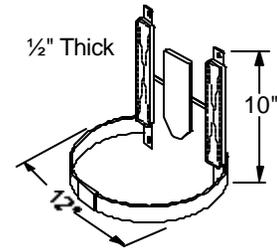
REF: PECU Kit.



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.

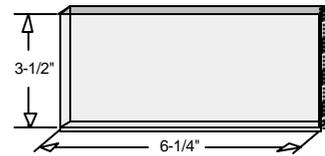
USE: Used to transport the PECU to the scene.

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.

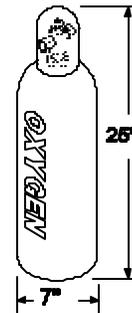
USE TIP: Stowed with PECU or on OBA face piece.

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.

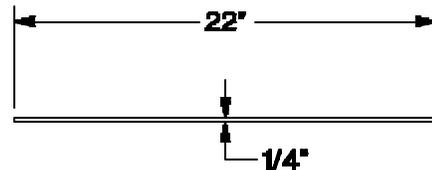
REF: PECU Kit.

PECU-ELECTRODE, CUTTING T

1/4" x 22"

NSN 3439-01-325-7641

WT. 7.0 lbs. **VOL.** 143.8 in³
(Shipping box 2½" x 1½" 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.

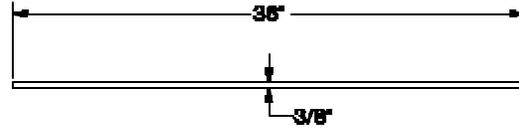
USE TIP: These rods provide the most efficient cut. U/I box of 25 cutting electrodes.

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 through heavier plate and steel decks.

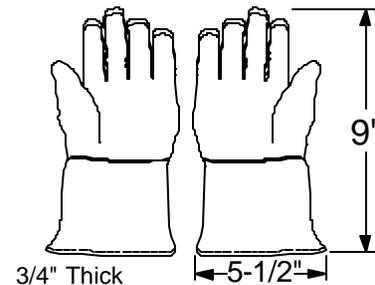
USE TIP: These rods provide the most efficient cut. Tremendous amounts of heat are released through combustion of the metal fuel rod in an oxygen atmosphere. U/I box of 25 cutting electrodes.

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.

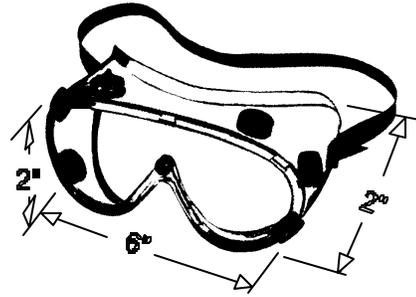
USE TIP: Limit use to welding in order to avoid unnecessary wear.

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.

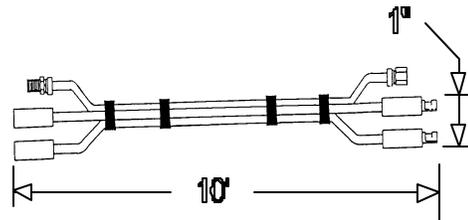
USE TIP: Goggles must be worn when cutting with the PECU equipment. When cutting with the PECU, use a number 5 or higher welding lens. *NOTE: When piercing use a shaded face shield or welding helmet.*

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.

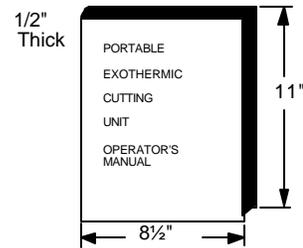
USE TIP: Use only for its intended purpose.

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

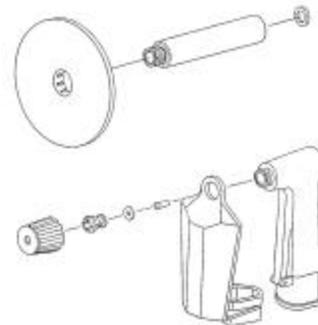
NSN 3433-01-321-3342 3/8" COLLET, WT 0.5 lbs.

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.

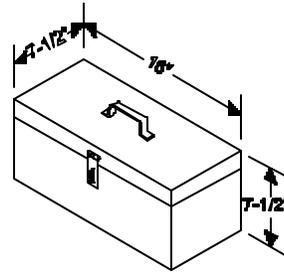
The collet nut extension and shield should be used for all piercing operations. It will enhance torch life and provides greater operator comfort and safety.

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.

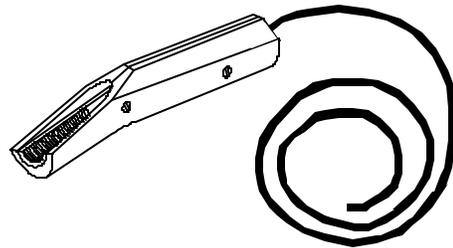
USE TIP: Part of initial outfitting.

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.

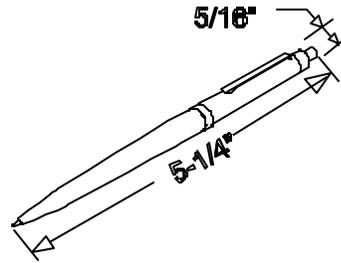
USE TIP: To be used only with a 12 volt battery. To use, strike the cutting rod on the striker by touching the cutting rod to the exposed serrated metal surface on the striker. At the same time rotate your wrist and use a slight back and forth motion against the serrated surface. This technique allows 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.

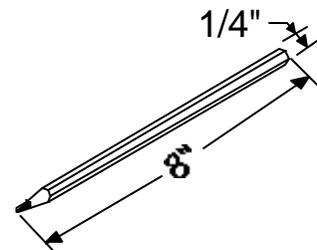
USE TIP: Pencils may also be used to write messages.

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.

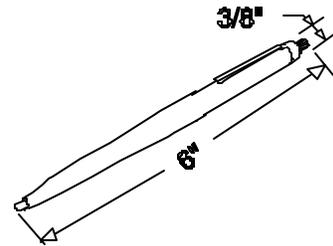
REF: Shoring Tool Kit.

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.

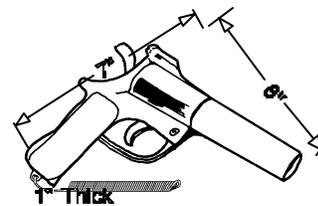
REF: Monitoring Team, CBR Kit.

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

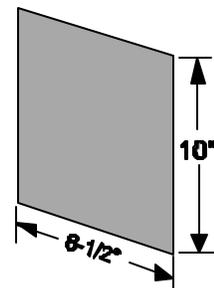
WT. 1.0 oz **VOL.** 5.5 in³

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".

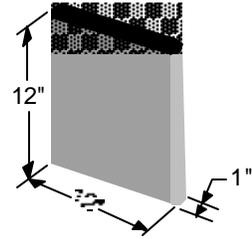
REF: Plastic Patch - Pipe Repair Kit.



**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.

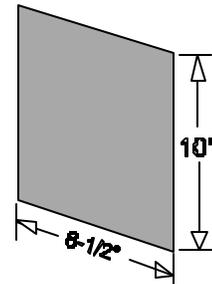
USE TIP: Place over void cover and extend 3 inches beyond void cover edges. Wrap cloth around void cover at least 3-4 times. Wrap entire patch in PVC film extending this beyond the woven cloth.

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).

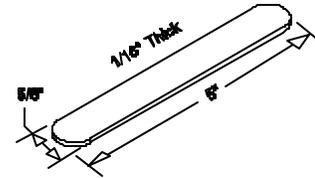
USE TIP: Extend 1 inch beyond the rupture.

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.

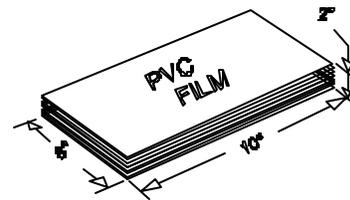
USE TIP: Dispose of properly after use.

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.

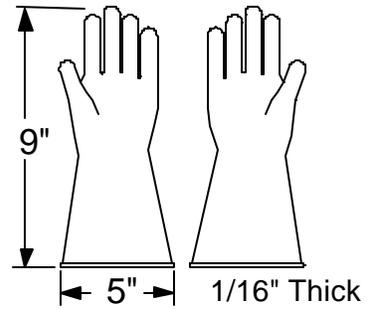
REF: Plastic Patch - Pipe Repair Kit.

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.

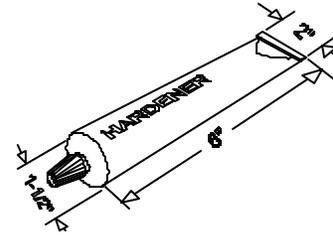
USE TIP: Protects hands from activated resin burns.

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

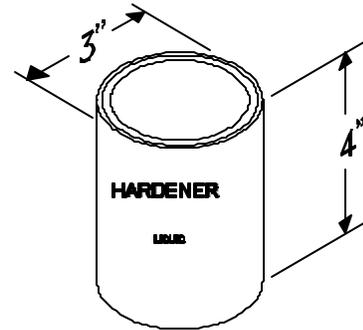
WT. 10.0 oz **VOL.** 28.3 in³

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

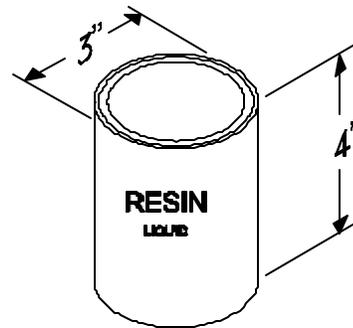
WT. 14.0 oz **VOL.** 36.0 in³

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.

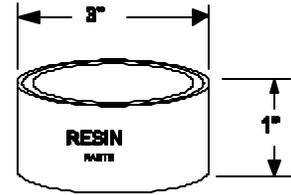
REF: Plastic Patch - Pipe Repair Kit.



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.

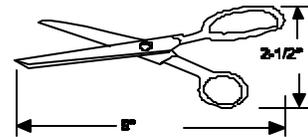
USE TIP: Shelf life is two years. Replacement hardener and resin are available as an adhesive under NSN 9Z 8040-00-543-4067.

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.

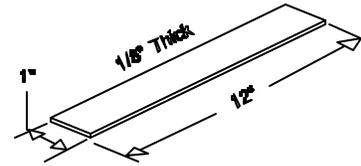
USE TIP: Stow in a closed position.

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.

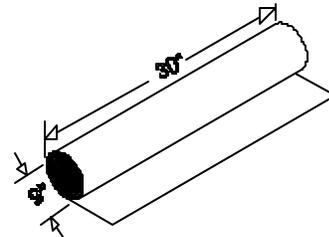
USE TIP: Also used to spread activated resin on woven roving cloth.

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.

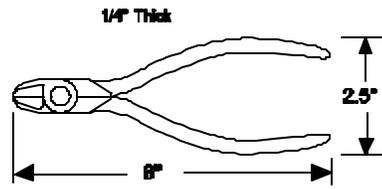
USE TIP: Also used to cover warped doors to reinstate integrity of the ship's CPS zone(s).

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.

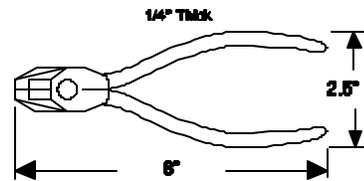
USE TIP: All metal tools shall be insulated to prevent electrical shock IAW NSTM 300.

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.

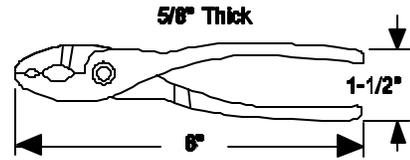
USE TIP: All metal tools shall be insulated to prevent electrical shock IAW NSTM 300.

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.

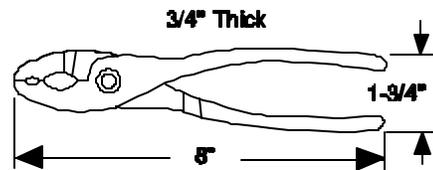
USE TIP: All metal tools shall be insulated to prevent electrical shock IAW NSTM 300.

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.

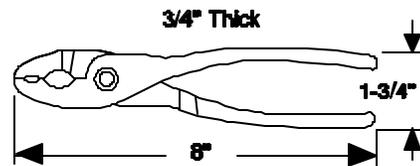
USE TIP: All metal tools shall be insulated to prevent electrical shock IAW NSTM 300.

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.

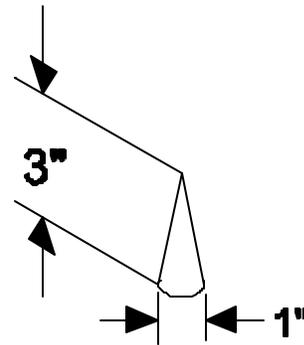
REF: Electrical Repair Kit.

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

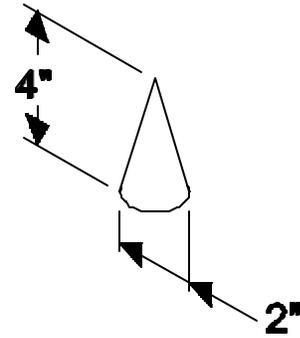
WT. 0.1 lbs **VOL.** 4.2 in³

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

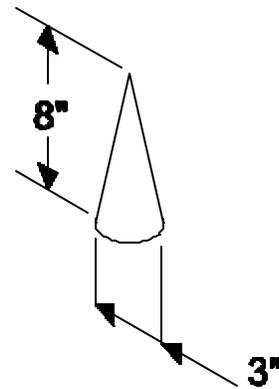
WT. 0.4 lbs **VOL.** 18.8 in³

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

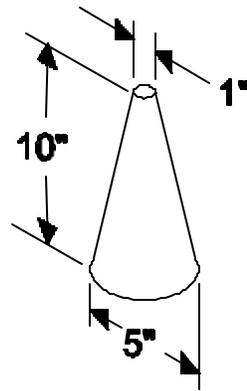
WT. 1.9 lbs **VOL.** 50.0 in³

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

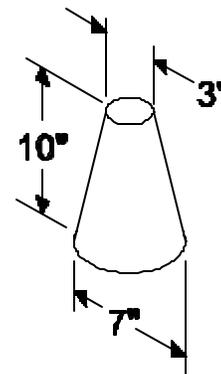
WT. 4.8 lbs **VOL.** 206.8 in³

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.

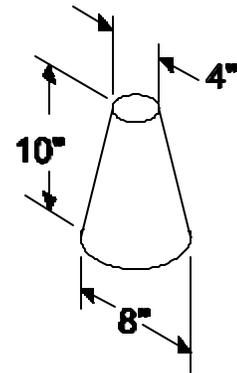
REF: NAVSEA Drawing No. 8035184291. Plugging Kit.



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.

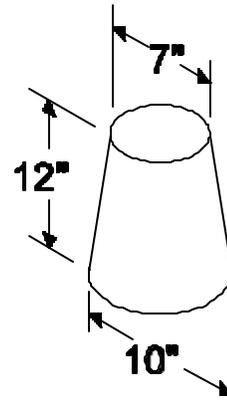
USE TIP: For low pressure lines select a plug of soft wood such as soft fir of the proper size, cover with cloth and drive into pipe to keep the pipe from backing out under pressure.

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

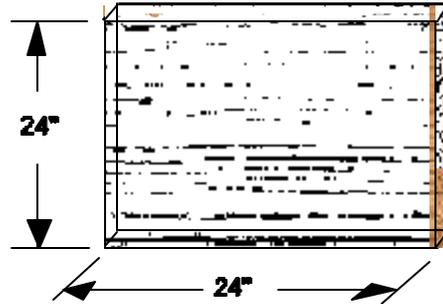
NSN 5530-00-129-7833 (3/4" x 18" x 18")

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.

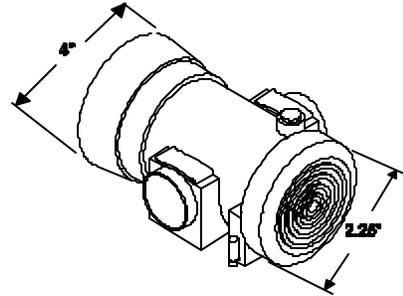
REF: Safety Survivability/ NDI equipment.



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:

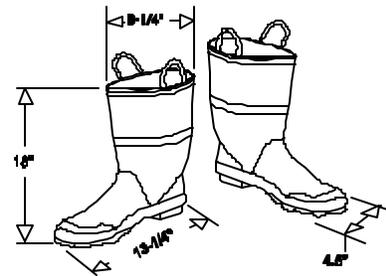
- OBA/SCBA - AV-2000 Face Piece.
 - MCU 2A/P - CBR mask. NSN 5830-01-364-4593.
 - EAB mask - 5830-LL-HB5-0675, Part No. B181060.
- Each type voice amp has a different mounting bracket.

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.

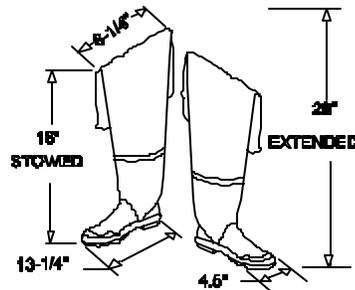
USE TIP: When wearing boots in flooded compartments, they will accumulate between 5-7 lbs of water which reduces mobility. Therefore, drain boots upon exiting flooded space.

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 up to the hip area.

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.

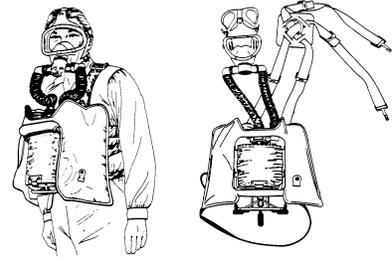
USE TIP: Hip boots may also be worn over the fire fighter's coveralls.

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.

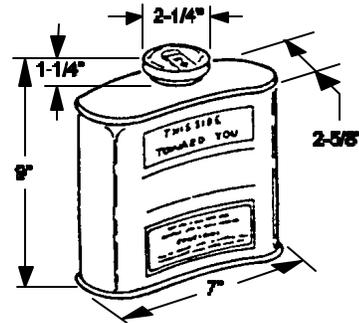
REF: TBD.

**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.

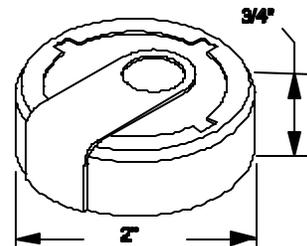
REF: Parent AEL.

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.

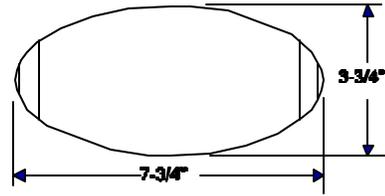
USE TIP: Also used to protect foil from puncture once original metal cap is removed.

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

PP-COVER - LENS - OBA

NSN 4240-01-052-9901
(pkg of 25)

WT. 2 oz. **VOL.** 6.0 in³



DESCRIPTION: Lens cover.

USE: Installed over OBA face piece to protect lens in stowage.

USE TIP: Package of 25 each.

REF: Parent AEL. Repair Locker Tool Kit.

PP-COVERALLS - FFE (FIREFIGHTER ENSEMBLE)

1HM0000-LL-CQA-2200 (SELECT SIZE)
NSN 8415-01-300-6556 SIZE SML
NSN 8415-01-300-6557 SIZE MED
NSN 8415-01-300-6558 SIZE LRG
NSN 8415-01-300-6559 SIZE X-LRG
NSN 8415-01-300-6560 SIZE X-LRG TALL

WT. 5.0 lbs **VOL.** 3,840.0 in³
(Stowed hanging
3" x 20" x 64" avg.)



DESCRIPTION: The fire fighter coverall is designed as a one piece jumpsuit that has a tough outer shell, a vapor barrier, and an inner fire retardant thermal liner. Also leather padding has been added for protection to the knee and thigh pockets. Reflective markings around the upper arms, lower legs, and torso highlight the outline of the fire fighter. Consists of: Coverall, firefighter hood, helmet with helmet light, gloves, boots, cotton/wool socks, gear bag (canvas) and oxygen-breathing apparatus (OBA) or Self Contained Breathing Apparatus (SCBA).

USE: Used as the primary protective clothing for fire fighting, the FFE coverall protects the fire fighter from short-duration flame exposures, flash heat, cold, hot water, steam and falling debris. It is part of the fire fighter ensemble. The FFE is meant to be worn by nozzlemen, hosemen, the scene leader, investigators and access men, in that priority.

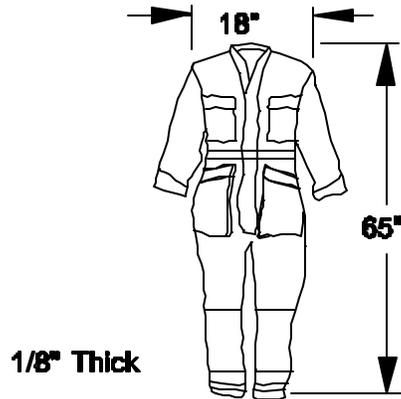
USE TIP: Use marker to indicate size. The FFE may also be used in transition from firefighting to flooding control. Damage control personnel can function adequately when wet to perform required flooding control tasks.

REF: Firefighting/Access Personnel Kit.

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



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.

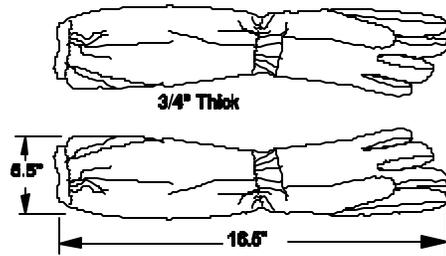
PP-GLOVES - ANTIFLASH

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.

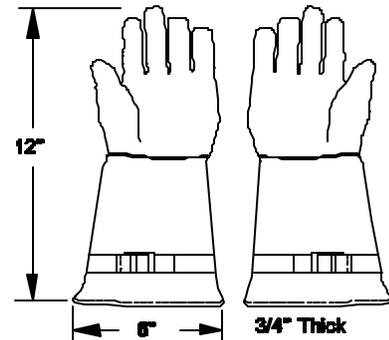
PP-GLOVES - FIREMAN

- 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.

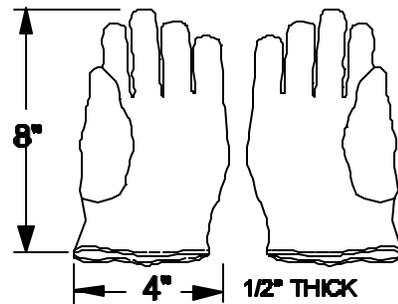
USE TIP: One set of Fireman's Gloves for each OBA/SCBA in DCRS.

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.

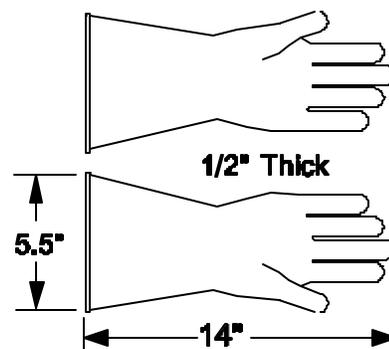
USE TIP: Do not use when finger dexterity is required.

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.

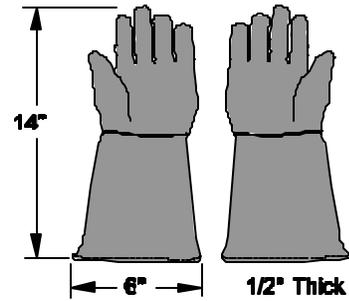
USE TIP: Ensure gloves are properly PMS'd and that talc powder is available to expedite donning the gloves.

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.

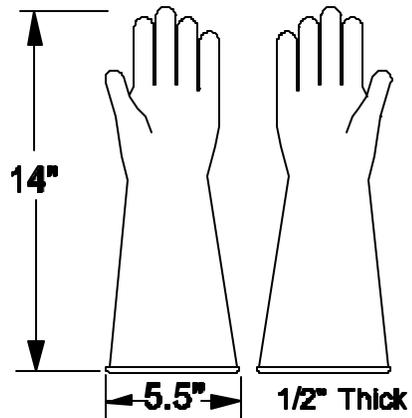
USE TIP: Intended to prevent puncture of the inner rubber glove.

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.

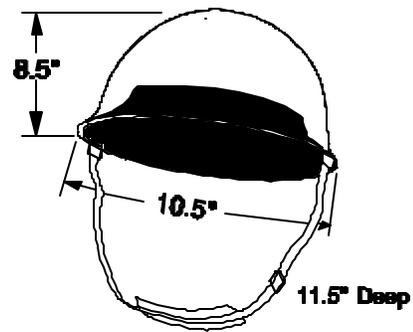
USE TIP: Back side of gloves marked "GLOVES, TOXICOLOGICAL AGENTS PROTECTIVE".

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.

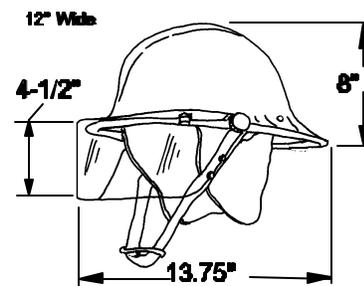
USE TIP: The MK I steel helmet is being phased out and replaced by the MK V, Mod 0 Battle Helmet for battle station personnel and the fireman's helmet for repair party personnel.

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.

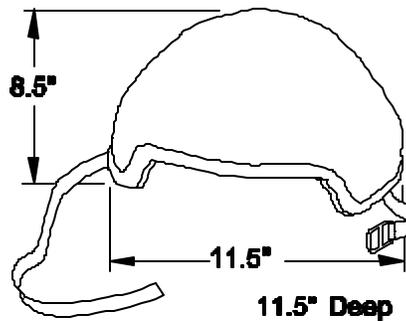
USE TIP: The helmet is worn in conjunction with Fireman's Coveralls, Firemen's Gloves, Fireman's Boots and Fireman's Hood.

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.

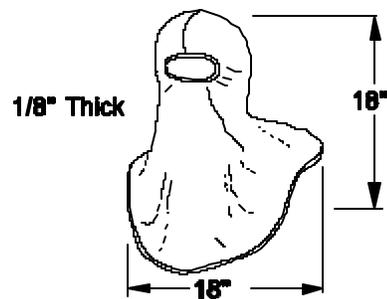
USE TIP: Tighten strap to a comfortable, secure fit.

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.

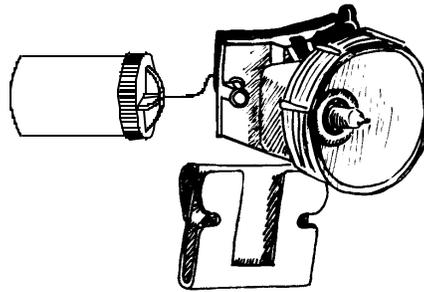
USE TIP: Part of the fire fighter ensemble and general quarters gear.

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.

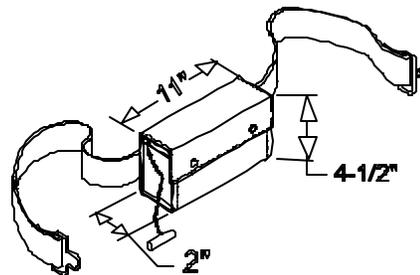
USE TIP: Lantern furnished with one lamp installed, and one separate. Batteries must be purchased separately. All lanterns are stowed in DCRSs.

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

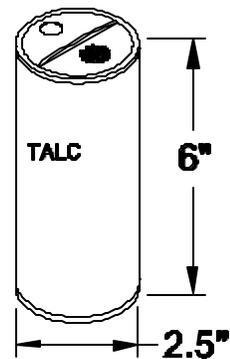
WT. 6.0 oz **VOL.** 37.5 in³

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

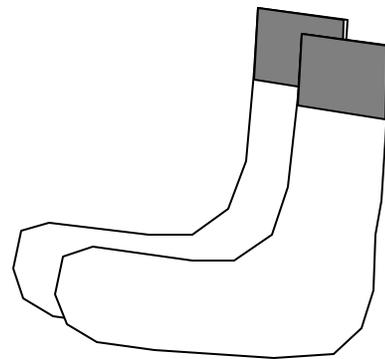
WT. 0.1 lbs **VOL.** 7.0 in³

DESCRIPTION: Cotton/wool socks.

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

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

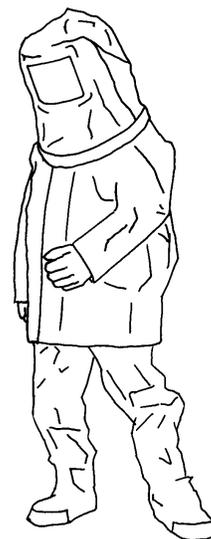
REF: Firefighting/Access Personnel Kit.



**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.

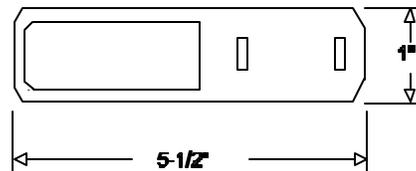
USE TIP: Select clothing properly for intended use. Structural coat and trousers are best for building type fires. The aluminum outer cover must be attached for combating high intensity fuel fires.

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.

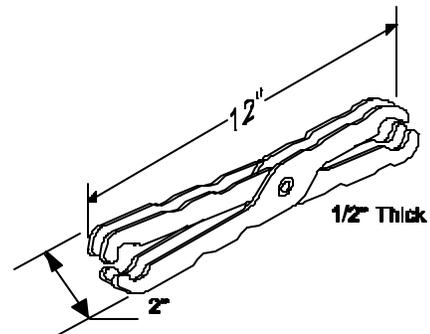
REF: Repair Locker Tool Kit.

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.

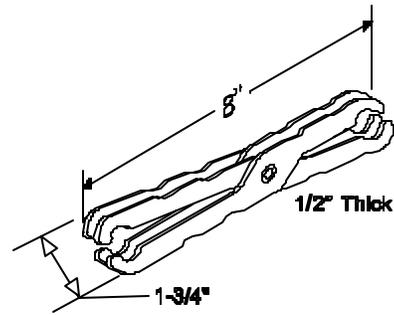
USE TIP: Also known as cartridge fuse puller.

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.

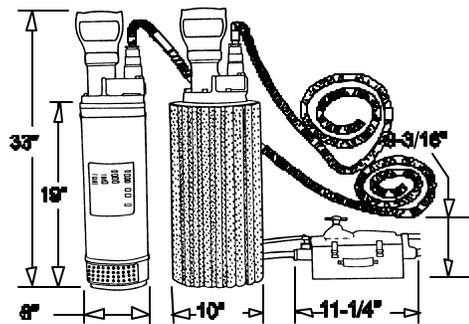
REF: Electrical Repair Kit.

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.

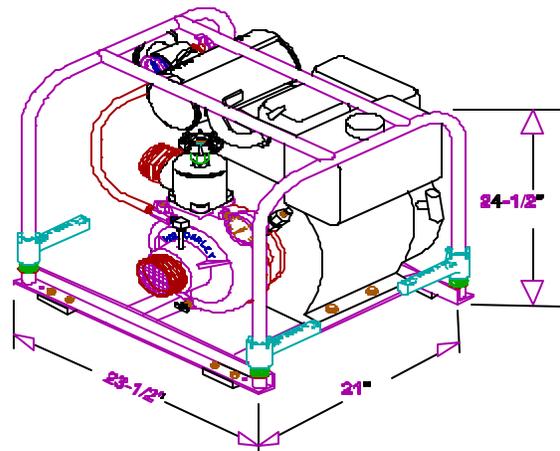
REF: Navy Technical Manual 0910-LP-091-3501.

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:

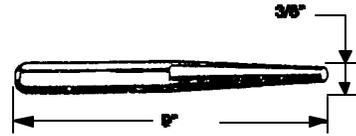
- **SUCTION INLET:** One 3" NPTF.
- **DISCHARGE:** One 2-1/2" NPTF with combination discharge valve and check valve.
- **PUMP FEATURES:** High-strength aluminum alloy casing and discharge valve, aluminum alloy engine adapter, bronze impeller and wear rings, stainless steel impeller shaft, injection-style 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.

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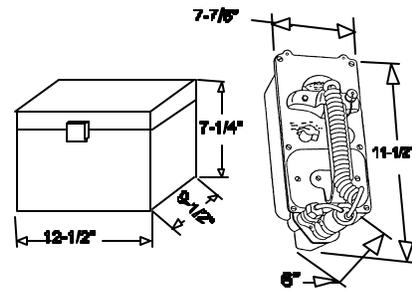
SECTION R

RADIAC SET - AN/PDR 27

NSN 6665-01-080-4418RE

WT. 11.0 lbs VOL. 1,152.0 in³

DESCRIPTION: The radiac is capable of measuring beta and gamma radiations or hard X rays. The detecting chamber is so constructed that a window or shield may be placed over the chamber, thus stopping the beta radiation. The amount of beta or gamma radiation present is determined by subtracting the meter reading obtained with the shield in place from the reading with the shield open. It provides both visual and audible indications of gamma and beta radiation levels. The visual indication is shown on a meter. The audible indication is heard through a headset. The radiation measurement is in milliroentgens per hour (Mr/hr).



USE: Used as a Geiger-Mueller type radiac instrument.

USE TIP: The unit is capable of detecting and measuring gamma radiation when the beta shield is in place. It is also capable of detecting beta and gamma radiations together when the beta shield is removed.

REF: Radiac Policy and Procedures Manual SER-700-A-A-MAN-410/RADIAC Volume 4 Part 1 Radiac Equipment Allowances for Ships. CBR Detection Equipment Kit.

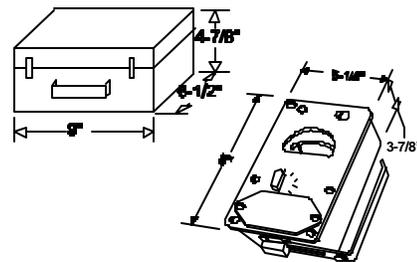
RADIAC SET - AN/PDR 43

NSN 6665-01-116-7260RS

WT. 7.2 lbs VOL. 289.4 in³

DESCRIPTION: The detecting chamber is so constructed that a window or shield may be placed over the chamber, thus stopping the beta radiation.

The amount of beta or gamma radiation present is determined by subtracting the meter reading obtained with the shield in place from the reading with the shield open. The maximum gamma range is 500 r/hr measured in three ranges: 0-500, 0-50 and 0-5 r/hr.



USE: Capable of measuring beta and gamma radiations or hard X rays in three ranges.

USE TIP: Beta-gamma radiation may be detected on these ranges by properly positioning the function selector slide (beta shield-source slide) located on the bottom of the instrument case. The numerals on the meter face change with the position of the range selector switch.

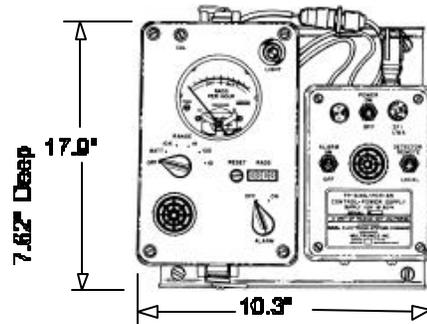
REF: CBR Detection Equipment Kit.

RADIAC SET - AN/PDR 65

NSN 6665-00-110-5052

WT. 26.0 lbs. **VOL.** 1,404.8 in³

DESCRIPTION: The set consists of a radiac meter and a detection unit. The unit also has an audible alarm. The radiac meter is installed on the bridge and in DC Central.



USE: The shipboard radiac set measures gamma radiation up to 10,000 RAD/Hr.

USE TIP: Refer to the Radiac Equipment Allowances for Ships for your ship's allowance.

REF: Radiac Policy and Procedures Manual SER-700-A-A-MAN-410/RADIAC Volume 4, Part 1.

RADIO - PORTABLE
PROVIDED BY OPS DEPT
AN/PRC-25
NSN 5820-00-857-0759

WT. 15.0 lbs **VOL.** 432.0 in³

DESCRIPTION: Provides portable communications between rescue and assistance team and parent ship. Frequency: 27-38.9 Mhz.

USE: Used for rescue and assistance operations.

USE TIP: Provided by Ops Department.

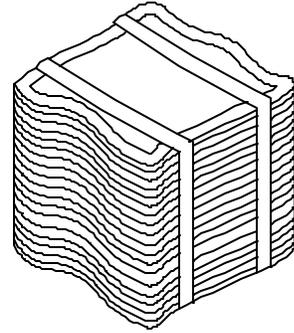
REF: DC Rescue and Assistance/Reentry Locker (DCREL) AEL.

RAGS - WIPING

NSN 7920-00-205-1711

(BALE)

WT. 50.0 lbs. **VOL.** 13,824.0 in³



DESCRIPTION: Absorbent cotton cloth for general purposes.

USE: To wipe hands, oily tools, and to clean dirty surfaces.

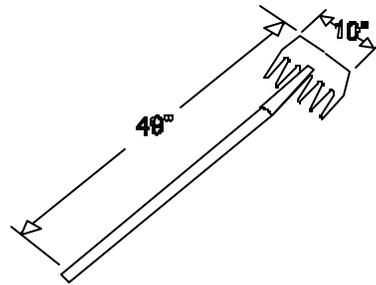
USE TIP: Draw rags from DC division work center.

REF: Sounding Kit. Damage Control Petty Officer (DCPO) Kit.

**RAKE - FOREST
OVERHAUL**

NSN 4210-00-203-3512

WT. 8.0 lbs. **VOL.** 35.0 in³



DESCRIPTION: Steel rake with hickory handle.

USE: Overhaul rake for use in breaking up combustibles during fire fighting operations.

USE TIP: Wear protective clothing especially gloves when using.

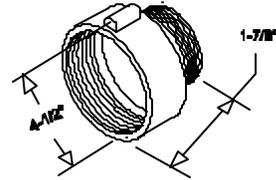
REF: Firefighting/Access Equipment Kit.

REDUCER - HOSE

2-1/2" NH (F) TO 1-1/2" NPSH (M)
WITH ROCKER LUGS

NSN 4210-00-143-4353

WT. 3.0 lbs. **VOL.** 38.0 in.³



DESCRIPTION: Copper alloy threaded reducers having either male or female right hand hose threads at each end and wrenching facility.

USE: Female to male with rocker lug locking. 2-1/2 NH to 1-1/2 NPSH.

USE TIP: Two per kit.

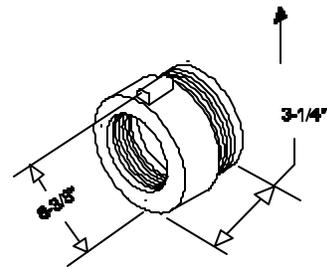
REF: Adapters/Connections Kit.

REDUCER - HOSE

4" NH (M) TO 3" NH (F)
USE WITH P-100/EDUCTOR

NSN 4730-00-618-8593

WT. 11.0 lbs. **VOL.** 132.1 in.³



DESCRIPTION: Copper Alloy. Threaded internal hose, gasket seal to threaded external hose, plain end. 200 PSI water.

USE: Reducer used in dewatering to connect a 3 inch diameter suction hose to a 4 inch discharge end of a Peri-jet eductor.

USE TIP: One per kit.

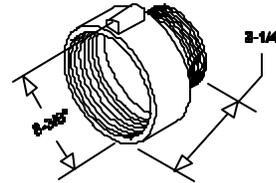
REF: Portable Pump Accessories Kit. Dewatering Equipment Kit.

REDUCER - HOSE

4" NH (F) TO 3" NH (M)

NSN 4210-00-618-8592

WT. 11.0 lbs **VOL.** 132.1 in³



DESCRIPTION: Copper Alloy. Threaded internal hose, gasket seal to threaded external hose, plain end. 200 PSI water.

USE: Used in dewatering operations to connect strainer foot valve to peri-jet eductor strainer.

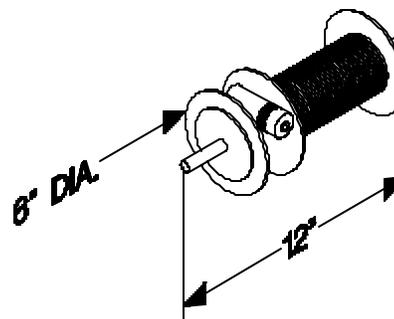
USE TIP: One per kit.

REF: Portable Pump Accessories Kit.

**REEL – CABLE MRFE-1
(X40J)**

NSN 8130-00-263-8644

WT. 9.0 lbs **VOL.** 487.7 in³



DESCRIPTION: Each reel contains 200 ft. of telephone cable with attached telephone jack and telephone plug.

USE: Used to provide emergency communications.

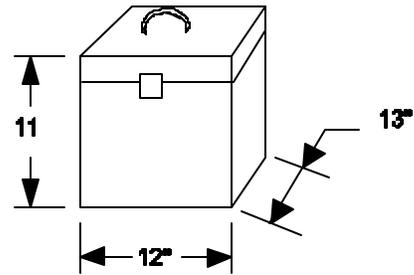
USE TIP: NAVSHIPS Plan 9000-S6505-74249S4M2793 provides 200' low smoke, cross linked, polyethylene orange cable and cable reel assembly.

REF: Emergency Communication Kit.

**REPAIR KIT
TYPE 1**

1HM2090-00-372-6064

WT. 48.0 lbs **VOL.** 1,716.0 in³



DESCRIPTION: See item list below.

USE: Used in GRP emergency repairs on MHC 51 Class ships.

ITEM	UNIT
1. Resin liquid	3 each, 24 fl oz. in 1 qt can
2. Resin liquid	3 each, 12 fl oz. in 1 pt can
3. Hardener, liquid	3 each, 1/2 pt container
4. Hardener, liquid	3 each, 1/4 pt container
5. Resin, paste	5 each, 60 CM ³
6. Hardener, paste	5 each collapsible tubes
7. Glass cloth	3 square yds
8. Woven roving cloth	5 square yds
9. Glass mat	6 square ft.
10. Polyethylene gloves	6 prs (3 med, 3 lg)
11. Separating film	4 square yds
12. Eye protection	1 each
13. Wooden spatula	10 each
14. Wooden stirring rods	5 each
15. Stirring spatula	5 each
16. Spreading tool	1 each
17. Brush, glue	4 each
18. Paper kraft wrapping	3 square yds
19. Sandpaper, aluminum oxide, 80 grit	2 sheets
20. Scissors	1 each
21. Instruction publication	1

USE TIP: Materials stowed in metal box. Stencil box GRP Repair Kit, Type 1 in 1/2" black letters.

REF: Shoring Supplement/GRP Repair Kit.

**RESCUE DEVICE - CONFINED SPACE
HAUL SAFE**

NSN 4240-01-414-6803

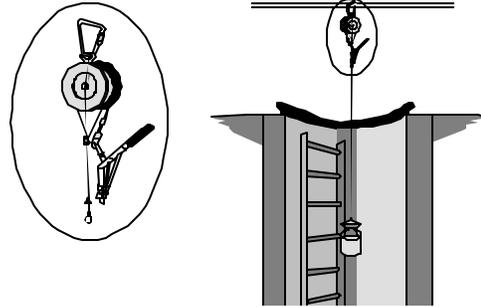
WT. 30.0 **VOL.** 1,728.0³

DESCRIPTION: Lifting device.

USE: Removing material from "tight" spaces.

USE TIP: One per DCRS. Stow with access equipment.

REF: Safety/Survivability NDI Equipment AEL.



ROPE – NYLON DOUBLE BRAIDED (2" x 50')
(FOR USE ON SUB PUMPS/EDUCTORS)

NSN 4020-00-106-9402

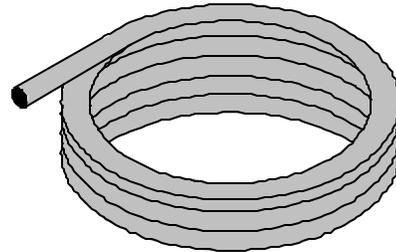
WT. 5.4 lbs. **VOL.** 200.0 in.³

DESCRIPTION: 2" x 50' coil of handling line.

USE: Used for lowering/lifting sub pumps/eductors.

USE TIP: Cut from 600 ft. roll. Stow bulk roll in DC Storeroom or Boatswain's Storeroom.

REF: NSTM Chapter 079 Vol II Article 079 26.101. Dewatering Equipment Kit.



RUBBER SHEET - SOLID
2 SHEETS 1/4" X 36" X 36"

NSN 5330-00-179-0052

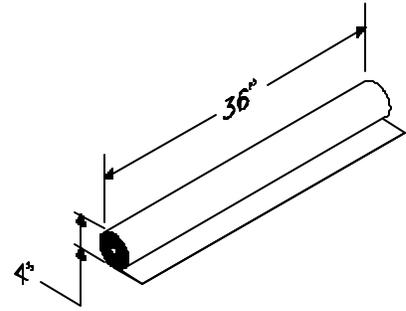
WT. 4.0 lbs. **VOL.** 576.0 in³

DESCRIPTION: Roll of rubber sheet.

USE: Used for pipe patching operations.

USE TIP: Backing for Jubilee Patches.

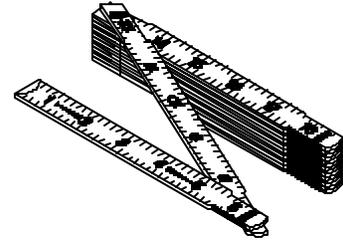
REF: Pipe Patching Kit.



RULE - MULTIPLE FOLDING

NSN 5210-00-293-3393

WT. 1.2 lbs. **VOL.** 4.8 in.³



DESCRIPTION: Six foot hardwood rule with six inch folds. 5/8 inch wide outside reading, 12 section rule with metal joints and ends. Both faces graduated in 16th of an inch each edge. White or yellow enameled finish.

USE: Used to measure shoring.

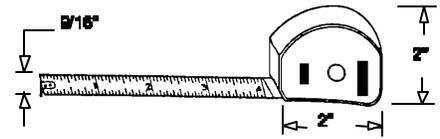
USE TIP: Refold after use to eliminate breakage.

REF: Shoring Tool Kit.

RULE - STEEL MACHINIST

NSN 5210-00-971-8827

WT. 0.4 lbs. **VOL.** 3.4 in³



DESCRIPTION: 6 foot long, retracting flexible steel rule (tape measure).

USE: Used for general use and DC PMS.

USE TIP: Keep clean with lightly oiled rag.

REF: Damage Control Petty Officer (DCPO) Kit.

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SECTION S

SAND - BUCKET (3 GAL.)
SHIP'S FORCE PROVIDE

1HA0000-LL-CJ6-8812

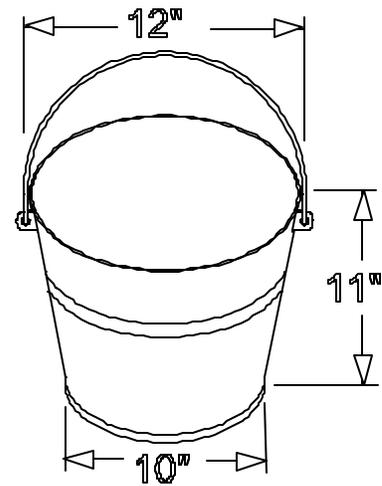
WT. 41.3 lbs. **VOL.** 1320.0 in.³

DESCRIPTION: Pail filled with sand.

USE: General DC use.

USE TIP: For each locker.

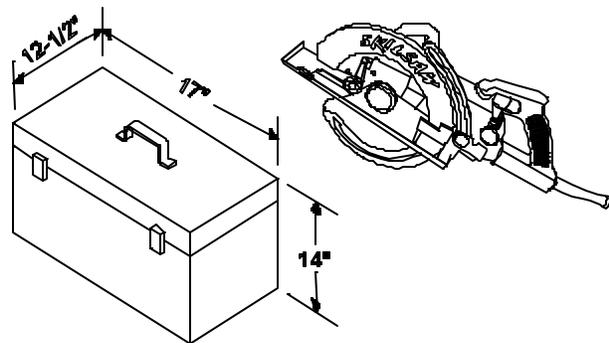
REF: Parent AEL.



SAW - CIRCULAR
ELECTRIC, PORTABLE
10" BLADE

NSN 5130-00-889-8991

WT. 35.0 lbs. **VOL.** 2295.8 in.³



DESCRIPTION: Saw kit-circular portable, electric, Type I, with handbook, Size 10. 3-3/8 inch maximum cutting depth. 10 inch blade diameter, minimum no load speed 3800 rpm, electromagnetic interference suppressed.

USE: Used to cut wood shoring.

USE TIP: Will cut through 4 inch x 4 inch lumber.

REF: Shoring Tool Kit.

SAW - HAND, SHORT CUT - 15"

NSN: 5110-01-428-5240

WT. 2.0 lbs. **VOL.** 108.0 in.³

DESCRIPTION: Wood handle secured to a wide, slightly tapered, toothed steel saw blade.

USE: Used in cutting shoring, wedges and plugs.

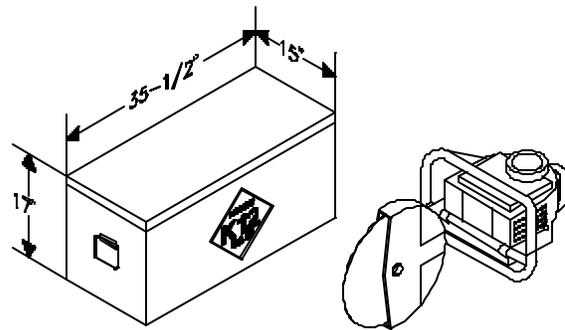
USE TIP: This saw cuts 50% faster than conventional saws and will cut damp or wet wood. Recommend providing protective cover (split fire hose).

REF: Shoring Tool Kit.

**SAW - K-1200 CIRCULAR
GASOLINE POWERED CHAIN SAW**

**NSN 5130-00-134-1207
3695-01-070-6273 - BOX**

WT. 15.0 lbs. **VOL.** 9,052.5 in.³



DESCRIPTION: Gasoline powered motor which drives a high speed circular blade.

USE: Used on minesweeper type ships for emergency cutting in fiberglass/wood hull decks, or bulkheads.

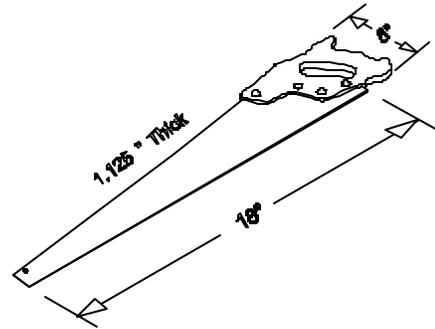
USE TIP: Use with appropriate protective clothing, goggles, gloves, etc.

REF: Parent AEL.

SAW
METAL CUTTING, HAND – 18"

NSN 5110-00-221-0235

WT. 2.0 lbs. **VOL.** 117.0 in.³



DESCRIPTION: Straight back metal cutting saw with 15 points per inch and a hardwood handle.

USE: Used in metal cutting.

USE TIP: Recommend providing protective cover (split fire hose).

NOTE:

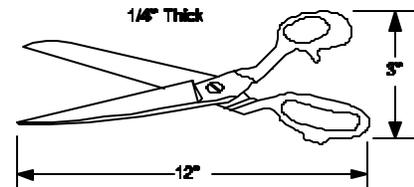
This saw is shaped like a wood saw but has teeth similar to a hacksaw.

REF: Repair Locker Tool Kit.

SCISSORS, BANDAGE

NSN 6515-00-935-7138

WT. 0.6 lbs. **VOL.** 9.4 in³



DESCRIPTION: Hand operated shears.

USE: Used in monitoring operations.

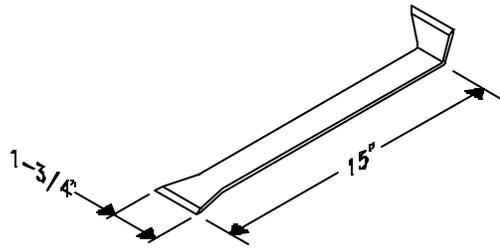
USE TIP: Also used to cut twine.

REF: Monitoring Team, CBR Kit.

SCRAPER - SHIP CARBON STEEL

NSN 5110-00-240-3094

WT. 0.5 lbs. **VOL.** 3.3 in³



DESCRIPTION: Flat, thin steel bar with beveled edges on both sides. One end is bent to 90°.

USE: Used to facilitate performing some DCPO PMS functions.

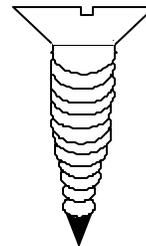
USE TIP: Stow scraper with a thin coat of oil to prevent rusting.

REF: Damage Control Petty Officer (DCPO) Kit.

SCREW, SELF TAPPING

NSN 5305-01-023-5834

WT. 1.0 lbs **VOL.** 30.0 in³ length = 1.45"



DESCRIPTION: 304 stainless, slot drive, flathead.

USE: Used in securing steel shore foot and backing plates.

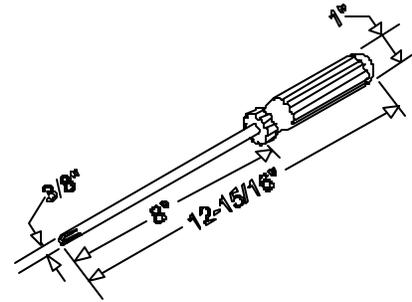
USE TIP: Six required per steel shore foot. Used on MHC 51 Class ships.

REF: Shoring Supplement/GRP Repair Kit.

SCREWDRIVER - CROSS TIP 8"
#4 BLADE TIP

NSN 5120-00-542-3438

WT. 0.6 lbs **VOL.** 10.2 in³



DESCRIPTION: Long, narrow steel shank with pointed, crisscross end and a plastic handle.

USE: Used to facilitate performing some DCPO PMS functions.

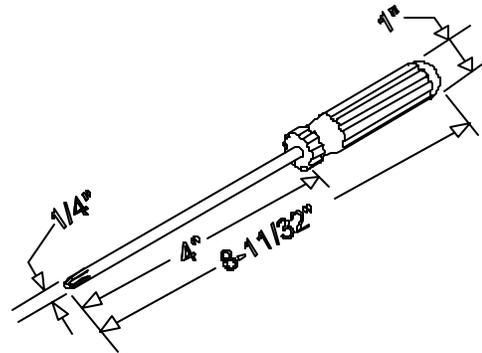
USE TIP: Also known as a Phillips screwdriver.

REF: Damage Control Petty Officer (DCPO) Kit.

SCREWDRIVER - CROSS TIP
#2 BLADE TIP

NSN 5120-00-234-8913

WT. 0.3 lbs **VOL.** 6.4 in³



DESCRIPTION: Long, narrow steel shank with pointed, crisscross end and a plastic handle.

USE: Used to facilitate performing some DCPO PMS functions.

USE TIP: Also known as a Phillips screwdriver.

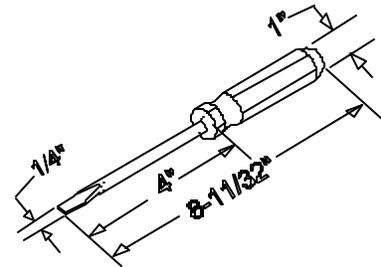
REF: Damage Control Petty Officer (DCPO) Kit.

SCREWDRIVER - FLAT TIP

1/4" x 4"

NSN 5120-00-764-8058

WT. 0.3 lbs **VOL.** 6.4 in³



DESCRIPTION: General purpose, flared sides; 3/8 inch square female insert in handle end; 1/4 inch tip width, 4 inch length; plastic handle.

USE: Used by DCRS electrician in conducting emergency electrical repairs.

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

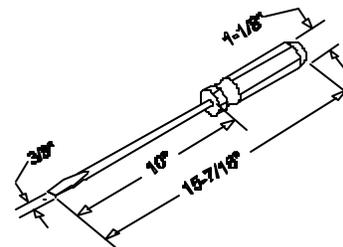
REF: Electrical Repair Kit.

SCREWDRIVER - FLAT TIP

3/8" x 10"

NSN 5120-00-293-3309

WT. 0.8 lbs **VOL.** 13.7 in³



DESCRIPTION: Narrow steel shank with flat tip, or blade with a plastic handle.

USE: Used by DCRS electrician in conducting emergency electrical repairs.

USE TIP: Also used for general damage control maintenance.

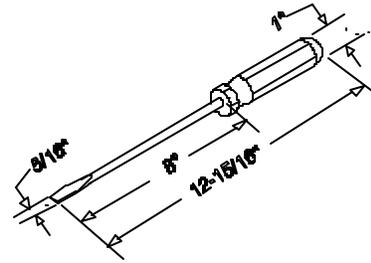
REF: Damage Control Petty Officer (DCPO) Kit. Electrical Repair Kit.

SCREWDRIVER - FLAT TIP

5/16" x 8"

NSN 5120-00-234-8910

WT. 0.6 lbs **VOL.** 10.2 in



DESCRIPTION: Plain blade, straight sides, cushion grip plastic handle.

USE: Used to facilitate performing some DCPO PMS functions.

USE TIP: Also used for general damage control maintenance.

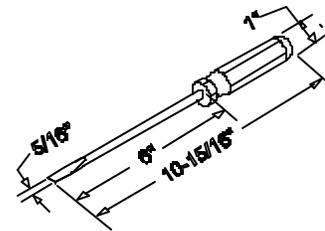
REF: Damage Control Petty Officer (DCPO) Kit.

SCREWDRIVER - FLAT

5/16" x 6"

NSN 5120-00-278-1283

WT. 0.5 lbs **VOL.** 8.6 in³



DESCRIPTION: Forged blade with hexagon-wrench grip; 5/16 inch tip width, 6 inch blade length; straight sides.

USE: Used to facilitate performing some DCPO PMS functions.

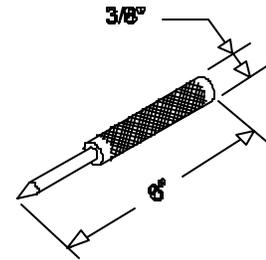
USE TIP: Also used for general damage control maintenance.

REF: Damage Control Petty Officer (DCPO) Kit.

SCRIBER - MACHINIST, SMALL POINT

NSN 5120-00-224-9728

WT. 0.1 lbs **VOL.** 0.8 in³



DESCRIPTION: Short, cylindrical steel, tapered at one end to a point. The other end is knurled to provide a sure grip.

USE: Used for DCPO PMS.

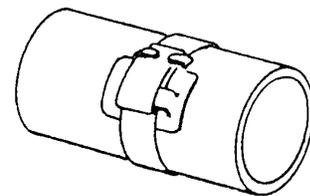
USE TIP: Also used for general maintenance.

REF: Damage Control Petty Officer (DCPO) Kit.

**SEAL - STRAPPING
BAND-IT BUCKLE**

NSN 5340-00-244-7325 1/2" ST
(BOX OF 100 - 7" x 9" x 2")

WT. VARIOUS **VOL.** VARIOUS



DESCRIPTION: The seal for securing the steel strapping (box of 100).

USE: Used to secure steel strapping during pipe patching operations.

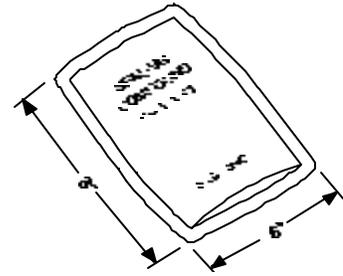
USE TIP: The hammer for securing the buckle can be obtained from the Repair Locker Tool Kit.

REF: Banding Tool Kit.

SEALING COMPOUND - DUCT SEALER

NSN 8030-00-281-2337

WT. 5.0 lbs **VOL.** 24.0 in³



DESCRIPTION: Bag of sealing compound in paste form.

USE: Used to seal plastic sheet material.

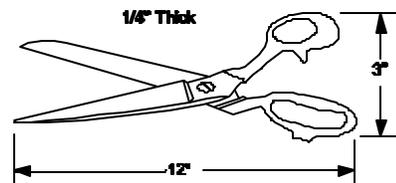
USE TIP: 5 lb. bag.

REF:Collective Protection System (CPS) Repair Kit.

SHEARS - TAILOR 12"

NSN 5110-00-223-6370

WT. 0.6 lbs. **VOL.** 9.4 in³



DESCRIPTION: Made of steel with chrome plating finish to prevent corrosion.

USE: Used to cut canvas on rubber sheet in pipe patching procedures.

USE TIP: Cutting edges should be padded and padding (cardboard etc.) should be taped in place to prevent injury and extend life of the kit bag.

REF: Pipe Patching Kit.

SHEET (GASKET COVER) - SYNTHETIC RUBBER
1/8" X 36" WIDE ROLL - 10 FT LONG

NSN 5330-00-244-0191

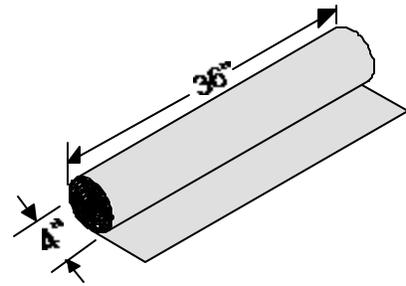
WT. 3.0 lbs **VOL.** 576.0 in³

DESCRIPTION: Roll of synthetic rubber, 3' wide,
(Listed as Gasket Cover in AEL).

USE: Used in gasket fabrication.

USE TIP: Also used for general patching purposes.

REF:Repair Locker Tool Kit.



SHEET (Gasket) - RUBBER SOLID
1/8" X 36" WIDE ROLL - 10 FT LONG

NSN 5330-00-244-0192

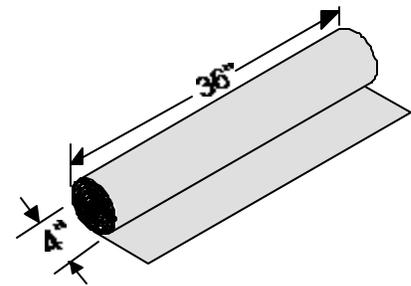
WT. 3.0 lbs. **VOL.** 576.0 in³

DESCRIPTION: Roll of solid rubber, 3' wide,
(Listed as Gasket in AEL).

USE: Used in gasket fabrication.

USE TIP: Also used for general patching purposes.

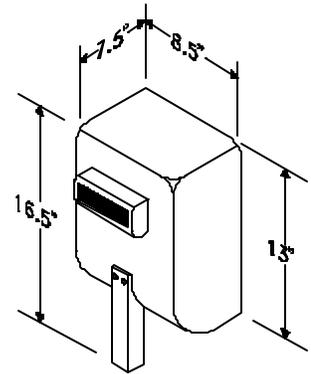
REF: Collective Protection System (CPS) Repair Kit. Engineering Spaces Kit.



SHIELD - WELDER HAND HELD

NSN 4240-00-270-4415

WT. 1.5 lbs **VOL.** 2,304.0 in³



DESCRIPTION: Shield for protecting eyes.

USE: Used in welding operations.

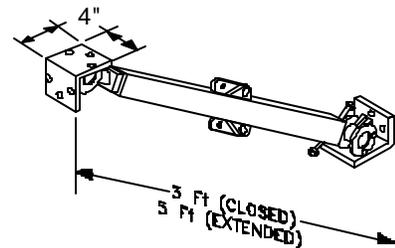
USE TIP: Also used in cutting operations.

REF: Welding Equipment Kit.

SHORE STEEL, DC

NSN 2090-00-058-3737

WT. 26.0 lbs. **VOL.** 576.0 in.³



DESCRIPTION: Adjustable telescoping steel shoring which adjusts from 3 feet to 5 feet plus or minus three inches. Load capacity is 20,000 lbs in the closed position, extended no more than one inch on the screw jack, and 12,000 lbs in the fully extended position. Model 3-5.

USE: Used to shore bulkheads and equipment.

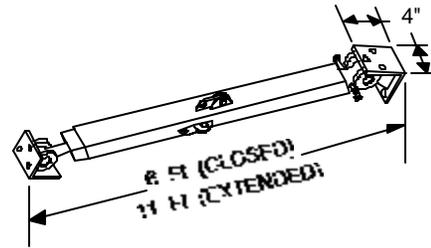
USE TIP: Four each per kit.

REF: Shoring Material Kit.

SHORE STEEL - 6-11 FEET MAX

NSN 2090-00-052-1581

WT. 40.0 lbs. **VOL.** 1,152.0 in.³



DESCRIPTION: Automatic adjustable telescoping steel shoring which adjusts from 6 feet to 11 feet plus or minus three inches. Load capacity is 20,000 lbs in the closed position, but extended no more than one inch on the screw jack, and 6,000 lbs in the fully extended position. Model 6-11.

USE: Used to shore bulkheads and equipment.

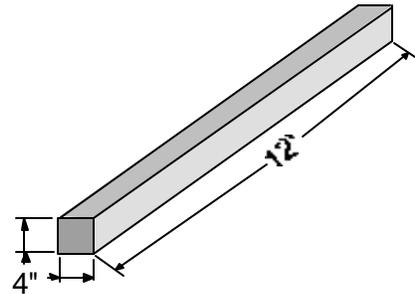
USE TIP: Four each per kit.

REF: Shoring Material Kit.

SHORING – LUMBER – SOFT WOOD

NSN 5510-00-663-4693

WT. 53.2 lbs. **VOL.** 192.0 in³



DESCRIPTION: Portable beams, soft wood (yellow pine/douglas fir), straight grain, free of cracks or knots, fire retardant.

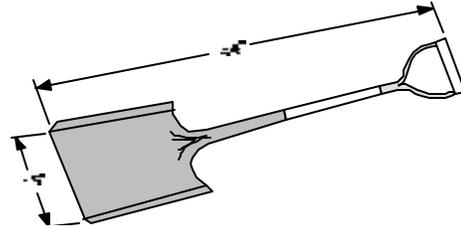
USE: Used to shore, strengthen and support bulkheads, decks, doors, hatches and equipment.

USE TIP: May be cut to 4 inches x 4 inches x 10 feet with 4 inches x 4 inches x 2 feet used as a shoal or strongback. Six pieces of 4" x 4" x 12' shoring are required in each kit for each DCRS.

REF: Shoring Material Kit.

SHOVEL
SQUARE POINT - GEN PURPOSE, TYPE 5
SCOOP
NSN 5120-00-188-8446

WT. 8.5 lbs. **VOL.** 1,144 in³



DESCRIPTION: Wooden handle with a "D" style grip secured to a metal scoop.

USE: Used to remove debris in compartments after overhaul of fire.

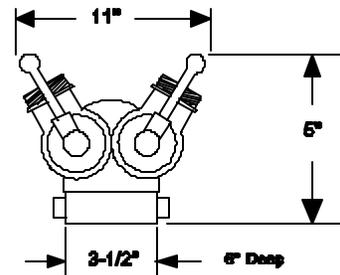
USE TIP: One per kit.

REF: Firefighting/Access Equipment Kit.

SIAMESE CONNECTION, 2-WAY
2-1/2" NH (F) INLET x TWO 1-1/2" NPSH (M) OUTLETS

NSN 4210-00-255-0234

WT. 11.0 lbs. **VOL.** 185.9 in.³



DESCRIPTION: Copper alloy, red enameled finish. Each of the siamese connections ends with identical threaded hose connections. Inlet connections are identical with female threads and rocker lug facilities.

USE: Used with P-100 pumps and fire plugs to reduce a 2-1/2 inch line to two 1-1/2 inch lines in order to connect two 1-1/2 inch fire hoses to a fire plug or pump outlet.

USE TIP: Installed on all 2-1/2 inch fire plugs located on the superstructure and inside the ship.

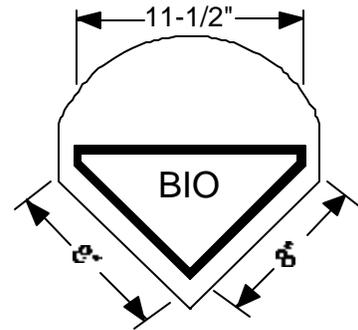
REF: Damage Control Unit Locker (DCUL). Rescue and Assistance Chests Kit.

SIGN - BIOLOGICAL

1HM0000-LL-CQA-0092

(PACKAGE OF 10)

WT. 1.0 lbs. **VOL.** 135.0 in³



DESCRIPTION: Signs manufactured IAW NWP 3-20.31.

USE: Used to isolate an area that has been biologically contaminated.

USE TIP: Ensure twine or tape is supplied for securing signs to rope or bulkheads.

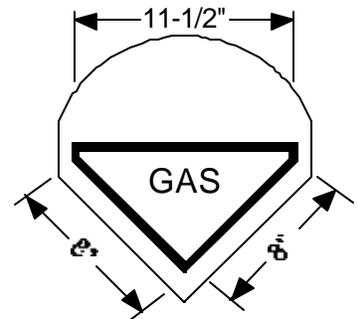
REF: These signs are also available from the 3M Co. Monitoring Kit.

SIGN - CHEMICAL

1HM0000-LL-CQA-0093

(PACKAGE OF 10)

WT. 1.0 lbs. **VOL.** 135.0 in³



DESCRIPTION: Signs manufactured IAW NWP 3-20.31.

USE: Used to isolate an area that has been biologically contaminated.

USE TIP: Ensure twine or tape is supplied for securing signs to rope or bulkheads.

REF: These signs are also available from the 3M Co. Monitoring Kit.

SIGN - RADIOLOGICAL

1HM0000-LL-CQA-0094

(PACKAGE OF 10)

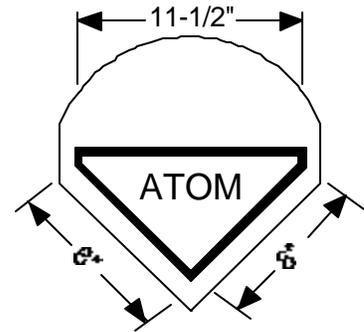
WT. 1.0 lbs. **VOL.** 135.0 in³

DESCRIPTION: Signs manufactured IAW NWP 3-20.31.

USE: Used to isolate an area that has been biologically contaminated.

USE TIP: Ensure twine or tape is supplied for securing signs to rope or bulkheads.

REF: These signs are also available from the 3M Co. Monitoring Kit.



SIGN - UNEXPLODED MUNITIONS

1HM0000-LL-CQA-2766

(PACKAGE OF 10)

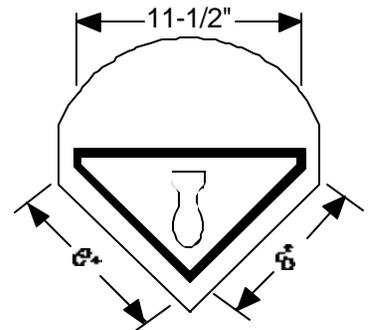
WT. 1.0 lbs. **VOL** 135.0 in³

DESCRIPTION: Signs manufactured IAW NWP 3-20.31.

USE: Used to isolate an area that has been biologically contaminated.

USE TIP: Ensure twine or tape is supplied for securing signs to rope or bulkheads.

REF: These signs are also available from the 3M Co. Monitoring Kit.



**SILICONE COMPOUND -
5 OZ TUBE**

NSN 6850-00-880-7616

WT. 5.0 oz **VOL.** 4.7 in³

DESCRIPTION: Translucent, nonhardening silicone compound. Maintains consistency from –70° to +400° F.

USE: Used as a moisture proof dielectric seal for electrical systems and electronic equipment. Also used as a seal and lubricant for ignition systems, rubber and plastic O-rings.

USE TIP: Comes in 8 oz. tube.

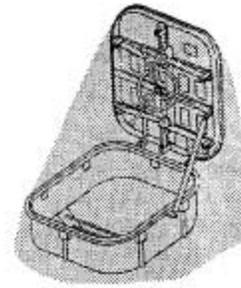
REF: Damage Control Petty Officer (DCPO) Kit.



SMOKE CURTAINS - BLANKETS
(STOWED FOLDED)

NSN 4210-01-306-7827
(3 SETS PER DCRS)

WT. 18.0 lbs. **VOL.** 720.0 in³ (folded)



DESCRIPTION: Flame resistant portable smoke blanket made from a fiberglass material or other material approved by NAVSEA 05L4. The blanket is approximately 14 feet square.

USE: Used to control the spread of vertical smoke at open hatchways. To use, drape blanket over the open/damaged hatch, scuttle, etc., to reduce the spread of smoke.

USE TIP: The blanket should be in continuous contact with a bulkhead or deck to prevent gaps for smoke to leak through. Three curtains per kit, 8 smoke clamps per curtain.

Stowage for smoke curtains (blanket and two-panel):

- Ensure the curtains are clean and dry.
- Fold the two panel curtain in half widthwise (that is, one panel on top of the other) and roll up tightly, starting from the bottom. The spring clamps can be used to secure the roll.
- Fold/roll the smoke blanket to fit available stowage space.

REF: NAVSEA Drawing No. 803-5959318. Desmoking Equipment Kit.

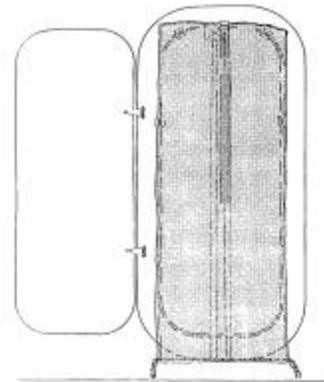
SMOKE CURTAINS - TWO-PANEL CURTAIN
(STOWED FOLDED)

NSN 4210-01-306-7826

(3 SETS PER DCRS)

WT. 13.8 lbs. **VOL.** 504.0 in³ (folded)

DESCRIPTION: Flame resistant portable smoke blanket made from a fiberglass material or other material approved by NAVSEA 05L4



USE: Used to control the spread of lateral smoke at doorways and passageways. Eight smoke clamps are required to hang the smoke curtains..

USE TIP: To install the two-panel smoke curtain, place the clamps at the corners and at intervals along the edges. The curtains should be in continuous contact with a bulkhead or deck to prevent gaps which smoke could leak through. Three curtains per kit.

Stowage for smoke curtains (blanket and two-panel):

- Ensure the curtains are clean and dry.
- Fold the two panel curtain in half widthwise (that is, one panel on top of the other) and roll up tightly, starting from the bottom. The spring clamps can be used to secure the roll.
- Fold/roll the smoke blanket to fit available stowage space.

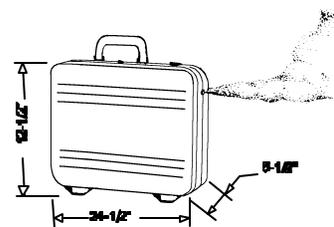
REF: NAVSEA Drawing No. 803-5959318. Desmoking Equipment Kit.

SMOKE GENERATOR

NSN 1040-01-302-0470

NSN 1365-01-367-5695 - FLUID FOR SMOKE GENERATOR

WT. 20.0 lbs (empty) **VOL.** 1,640.6 in³
24.0 lbs (full) **VOL.** 1,792.0 in³ (fluid)



DESCRIPTION: Smoke generator uses glycol-based aerosol liquid to produce artificial smoke. The glycol-based liquid is vaporized by a heating block in the smoke generator and ejected as a fine aerosol particulate.

USE: Used to make smoke that significantly improves the realism of shipboard fire fighting, evacuation and breathing apparatus training.

USE TIP: Each 1/2 gallon of fluid will last approximately 40 minutes and will obscure vision to three feet when operated within NAVSEA guidelines.

REF: Training Kit.

SOUNDING LIST
LOCALLY PREPARED

1HM0000-LL-CQA-0098

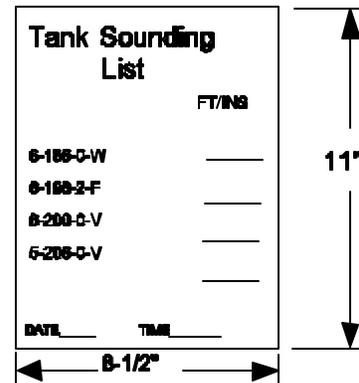
WT. 0.2 lbs. **VOL.** 23.8 in³

DESCRIPTION: List of tanks, voids, cofferdams in DCRS Area to be sounded after hits where suspected tank damage must be evaluated.

USE: Used in sounding operations.

USE TIP: Sounding list will give depths and the amount of liquid held in tanks and voids if flooded. Sounding list for sounding kit should not be confused with the daily liquid load list.

REF: Sounding Kit.



SPECTACLES - COMBAT
FOR MCU 2A/P OR OBA MASK

6540-01-294-1142 SPARE BRIDLES
6540-01-109-5040 SPARE STRAPS
6540-01-107-0304 SIZE 44-46
6540-01-107-0305 SIZE 48-50

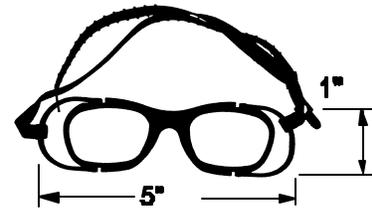
WT. 1.0 oz **VOL.** 2.1 in³

DESCRIPTION: Provides eye protection with mask.

USE: Used by individuals requiring prescription eye glasses.

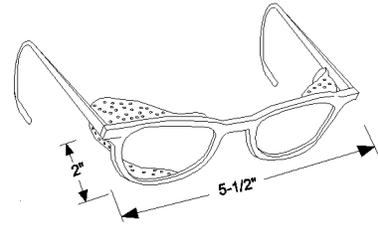
USE TIP: Available through the ship's Medical Dept. Required quantities of field repair parts shall be 2% SMD and maintained by the ship's Medical Dept.

REF: CBR Personnel CP Equipment Kit.



**SPECTACLES - INDUSTRIAL
WITH PERFORATED SIDE SHIELDS**

NSN 4240-00-516-4728 – 5 x 20 mm
NSN 4240-00-516-4531 – 75 x 24 mm



WT. 0.1 lbs **VOL.** 20.0 in³

DESCRIPTION: Provides eye protection. Plastic frame containing standard shape, impact resistant, absorptive, clear glass lens. Keyhole bridge with rigid nose pads. Green plastic side shields, unless otherwise indicated. Corrosion resistant metal temple section with fully insulated temple core. 6-3/4 inch temple width.

USE: Used by individuals not requiring prescription eye glasses.

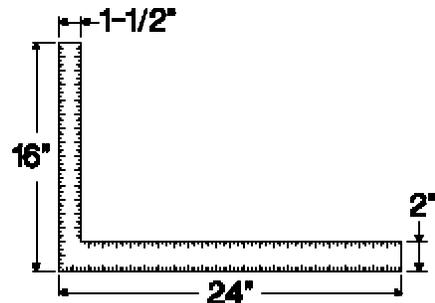
USE TIP: Clean after each use.

REF: Electrical Repair Kit.

**SQUARE - CARPENTER
24" x 16"
STEEL**

NSN 5210-00-810-3490

WT. 2.7 lbs. **VOL.** 48.0 in.³



DESCRIPTION: L-shaped piece of flat steel. Front faces graduated in 16ths and 4ths, 12ths and 4ths on back. Inscribed with brace table and essex board measure.

USE: Used to mark off/measure shoring.

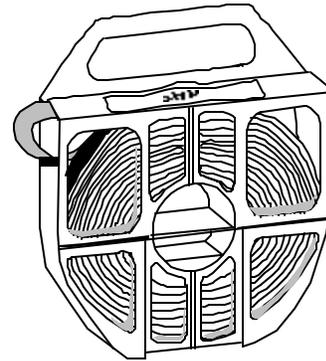
USE TIP: The carpenter's square should be padded if kept in kit bag. Recommend keeping square lubricated to prevent rusting. Square may be kept separate from bag as long as it is carried with the kit to the scene.

REF: Shoring Tool Kit.

STEEL STRAPPING – FLT 1/2
USED WITH BAND-IT BUCKLE

NSN 5340-00-245-9438 1/2" STRAPPING
NSN 7520-01-420-4595 DISPENSER, PRESSURE
(CONTAINER/STRAPPING)

WT. 9.0 lbs (Avg) **VOL.** 42.0 in³ (Strapping)
WT. 1.0 lbs **VOL.** 121.0 in³ (Dispenser)



DESCRIPTION: 1/2" steel banding.

USE: Used to secure pipe patch/equipment or packaging.

USE TIP: Use a 1.5 lb. ball peen hammer to peen down rabbit ears on buckles when installing bands and buckles. When a hammer is used, it is provided from the Repair Locker Tool Kit. Stow strapping in strapping container when available or in original shipping container.

Safety:

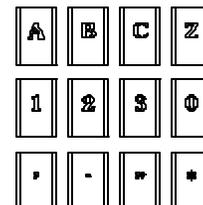
Always wear long sleeves (shirt/coveralls), eye protection and cut resistant gloves (divers gloves) when working and training with the Banding Tool Kit equipment.

REF: Banding Tool Kit.

STENCIL SET - 1 IM

NSN 7520-00-298-7043

WT. 2.0 lbs. **VOL.** 60.0 in³



DESCRIPTION: Individual stencils made of plastic include letters A – Z and numbers 0 – 9.

USE: Used to stencil compartment numbers, piping systems, fire plugs, watertight doors and equipment.

USE TIP: Wipe clean after each use.

REF: Damage Control Petty Officer (DCPO) Kit.

**STRAINER-SUCTION
FIRE HOSE**

NSN 4210-00-240-5530

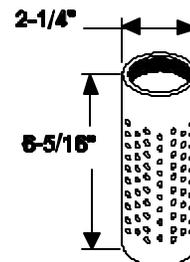
WT. 5.0 lbs. **VOL.** 26.9 in³

DESCRIPTION: Designed to allow unrestricted full capacity of suction hose.

USE: Used to prevent debris from entering the sub pump and clogging the lines.

USE TIP: Two per kit. Clean thoroughly after use or when strainer becomes covered with debris.

REF: Dewatering Equipment Kit.



STRIPPER-CABLE - HAND

NSN 5110-00-238-7696

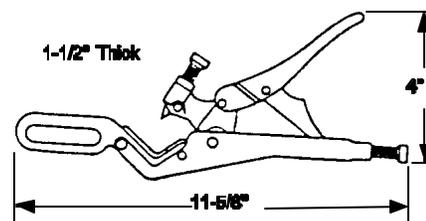
WT. 1.2 lbs. **VOL.** 22.5 in³

DESCRIPTION: Cable stripper with adjustable toggle handle and cutter.

USE: Used to Strip heavy duty armored and unarmored cables from 3/8" to 1-5/8" in diameter, and through insulation 1/4" thick.

USE TIP: Be careful not to damage wire when stripping cable.

REF: Electrical Repair Kit.



STRONGBACK - FOR 2", 3" AND 4" PIPE

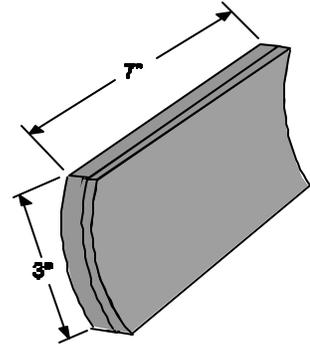
NSN 4710-00-468-8857 - 2" pipe

NSN 4710-00-468-8858 - 3" pipe

NSN 4710-00-468-8859 - 4" pipe

WT. 1.0 lbs.

VOL. 28.0 in.³



DESCRIPTION: All strongbacks are 3" x 7".

USE: Used with the chain wrench for pipe patching operations.

USE TIP: Glue 1/8" rubber gasket to backside of strongback for ready use.

REF: Banding Tool Kit.

SECTION T

TAPE - LUMINESCENT

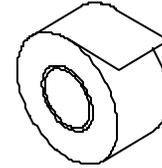
NSN 9390-01-078-8660

WT. 2.5 lbs

VOL.

108.0 in³

REFLECTIVE TAPE (WHITE)
3" Wide, 50 Yd Long



DESCRIPTION: A flexible colored, reflective tape, coated on one side with a pressure sensitive adhesive backing protected by a removable liner.

USE: Intended for use in reflectorizing surfaces such as signs and markers. Assures their visibility at night under normal and/or blackout conditions when exposed to a source of light and whether dry or wet by rain.

USE TIP: Wipe surface clean before applying.

REF: Repair Locker Tool Kit.

TAPE MEASURE - STEEL

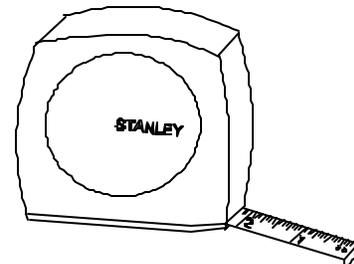
1" X 25 FT

NSN 5210-01-335-1614

WT. 0.5 lbs.

VOL.

2.8 in³



DESCRIPTION: Slightly concave steel tape, corrosion resistant steel ribbon w/ etched markings, mylar coating coiled inside a steel covered case with automatic rewind with lever lock feature. Graduations in feet, inches, and 8ths, one side only, start at outside end of ring..

USE: Distance measuring tapes for general use. (e.g. measurements during shoring cutting, layout and installation).

USE TIP: A small hoop is riveted loosely on the end for hooking over the edge of the object being measured. The looseness compensates for the thickness of the hook.

REF: Shoring Tool Kit.

TAPE - DUCT
2" WIDE ROLL - 6" DIA

NSN 5640-00-103-2254

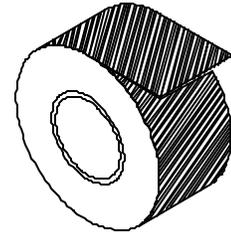
WT. 1.8 lbs **VOL.** 72.0 in³

DESCRIPTION: Industrial sealing. Aluminum or silver-gray color. Plastic-coated, cloth-backed. High-tensile strength. 2" wide, 60 yd long.

USE: Ideal for heating and cooling systems-duct joints, straight runs, Y-joints, round or rectangular ducts. Stops air leakage. Vaporproof, prevents dust, moisture, and odors from entering duct.

USE TIP: May be used to secure duct installation or plastic sheet. Apply to clean surfaces.

REF: Collective Protection System (CPS) Repair Kit.



TAPE - INSULATION ELECTRICAL, BLACK
3/4" WIDE ROLL - 3" DIA
66 FT LONG
NSN 5970-00-185-8531

WT. 0.3 lbs **VOL.** 9.2 in³

ELECTRICAL TAPE
(BLACK)



DESCRIPTION: Adhesive type. Cotton fabric impregnated with a tacky adhesive insulating compound. Rated 1000V per mil thick dielectric strength. Approx 85 ft per roll.

USE: Used in general damage control electrical operations.

USE TIP: Apply to clean surfaces.

REF: Electrical Repair Kit.

TAPE - INSULATION ELECTRICAL, WHITE
3/4" WIDE ROLL - 3" DIA (F TYPE)

NSN 5970-00-686-9151

WT. 0.3 lbs **VOL.** 6.7 in³



ELECTRICAL TAPE
(WHITE)

DESCRIPTION: Adhesive type. Fiberglass, glass fabric backing with thermosetting adhesive. Rated 1000V min dielectric strength. Roll form.

USE: Used in high heat locations.

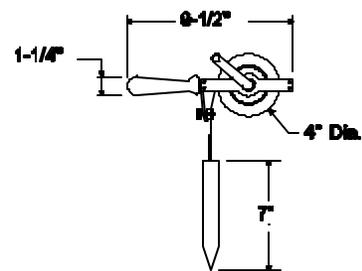
USE TIP: Apply to clean surfaces.

REF: Electrical Repair Kit.

TAPE - MEASURE, SOUNDING
50 FT

NSN 5210-00-221-1886

WT. 2.0 lbs. **VOL.** 69.5 in³



DESCRIPTION: Self-contained metal tape on wind-up reel.

USE: Used to sound tanks, voids and cofferdams.

USE TIP: Wipe tape clean after use.

REF: Sounding Kit.

TAPE - MEASURE, SOUNDING
75 FT

NSN 5120-00-221-1887

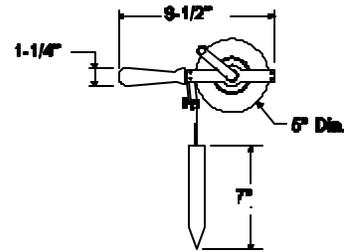
WT. 3.0 lbs. **VOL.** 81.4 in³

DESCRIPTION: Self-contained metal tape on wind-up reel.

USE: Used to sound tanks, voids and cofferdams.

USE TIP: Wipe tape clean after use. Substitute for 5210-00-221-1886.

REF: Sounding Kit.



TAPE - PRESSURE SENSITIVE
3/4" WIDE ROLL - 6" DIA

NSN 7510-00-987-6661

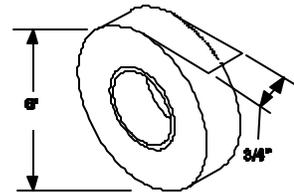
WT. 0.5 lbs **VOL.** 27.0 in³

DESCRIPTION: Clear polyester-film, 72 yards long, 3/4" wide.

USE: Used for DCPO PMS when stenciling or painting is required.

USE TIP: Apply to clean surfaces.

REF: Damage Control Petty Officer (DCPO) Kit.



TERMINAL - QDSCNT

NSN 5940-00-197-4963 (F)

NSN 5940-00-196-2289 (M)

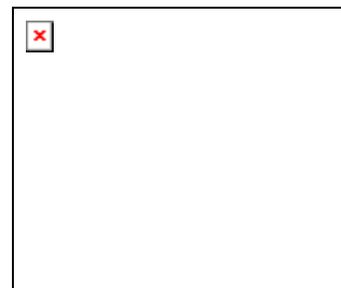
WT. 0.2 oz **VOL.** 1.6 in³ (SAMPLE)

DESCRIPTION: Recessed barrel single end type.
Copper alloy. Uninsulated.

USE: Used for connecting electrical power cable.

USE TIP: 3 each per kit, includes 1 spare each type.

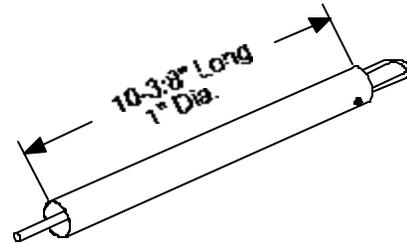
REF: Welding Equipment Kit.



THIEF SAMPLER - (BOTTOM), LIQUID

NSN 6695-01-356-8181

WT. 3.0 lbs **VOL.** 8.2 in³



DESCRIPTION: Metal cylinder with a spring loaded self-opening/closing device.

USE: Used to take liquid samples from the sounding tubes of tanks.

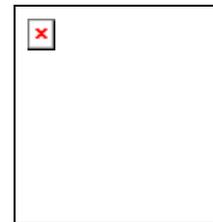
USE TIP: To be manufactured by ships force.

REF: NAVSEA Drawing No. 804-5959238.

TIMER - OBA

NSN 4240-01-049-1024

WT. 0.2 lbs. **VOL** 16.0 in³



DESCRIPTION: Analog timer. 60 minute capacity.

USE: Used to time the duration of the use of the OBA.

USE TIP: Also can be used for monitoring other times.

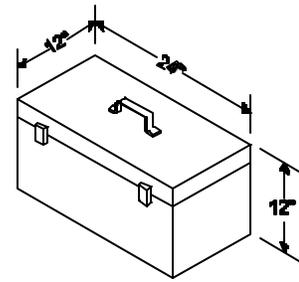
REF: CBR Monitoring Team Kit.

TOOL BOX - PORTABLE

24" x 12" x 12"

NSN 5140-00-226-9018

WT. 14.0 lbs. **VOL.** 3,456.0 in³



DESCRIPTION: Metal construction with carrying handle on top.

USE: Used to carry gas free test equipment.

USE TIP: Utilize tool box designated or equal.

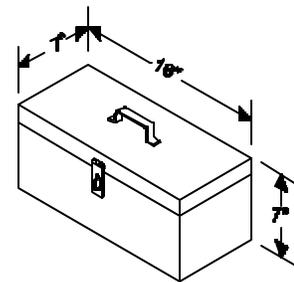
REF: Gas Free Engineer Kit.

TOOL BOX - PORTABLE

7" x 7" x 16"

NSN 5140-00-315-2747

WT. 6.0 lbs **VOL.** 784.0 in³



DESCRIPTION: Metal construction with carrying handle on top.

USE: Used to carry the following tools: caulking iron, cold chisel, hammer, lathing hatchet, half hatchet, handsaw - shortcut 15" and 12" sheers".

USE TIP: Stow mauls in bag.

REF: Plugging Kit.

TOOL BOX - PORTABLE

NSN 5140-00-587-5558

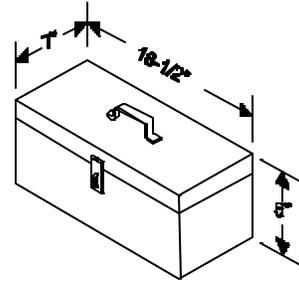
WT. 6.8 lbs **VOL.** 1,036.0 in³

DESCRIPTION: Metal construction, locking hasp, carrying handle.

USE: Used to carry DCPO PMS tools.

USE TIP: Utilize tool box designated or equal.

REF: Damage Control Petty Officer (DCPO) Kit.



TUBE -

- NSN 6665-00-769-0945** CARBON DIOXIDE
- NSN 6665-00-769-0949** CARBON MONOXIDE
- NSN 6665-01-102-9485** ETHYLENE OXIDE
- NSN 6665-01-384-1508** HYDROCARBON 2
- NSN 6665-00-769-0959** HYDROCYANIC ACID
- NSN 6665-01-010-7959** HYDROCHLORIC
- NSN 6665-01-010-7960** HYDROGEN FLUORIDE
- NSN 6665-01-010-7961** HYDROGEN SULPHIDE
- NSN 6665-01-010-7963** NITROGEN DIOXIDE
- NSN 6665-01-010-7965** PHOSGENE
- NSN 6665-01-010-7969** VINYL CHLORIDE

(BOX OF 10)

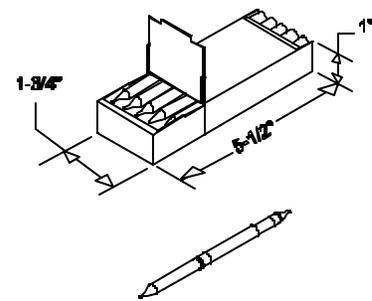
WT. 0.3 oz **VOL.** 9.6 in³

DESCRIPTION: Gas detector sampling tubes for measuring levels of airborne contaminants. Made of glass with measurement indicators specific to each gas being measured.

USE: Used with the Draeger test set to test for toxic gases.

USE TIP: Items to be stowed together as a kit for immediate access.

REF: Gas Free Engineer Kit.

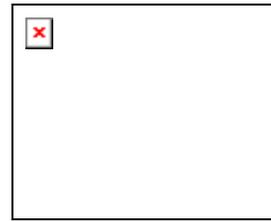


TWINE - HEMP FIBROUS

NSN 4020-00-231-5870

WT. 1.0 lb

VOL. 64.0 in³



DESCRIPTION: Hemp, twisted construction, natural color w/polished wax finish. Size 60, 190 lb. min breaking strength. Length - 97 yards.

USE: Used to rope off contaminated areas and to secure signs from monitoring kit.

USE TIP: Issued in ball form.

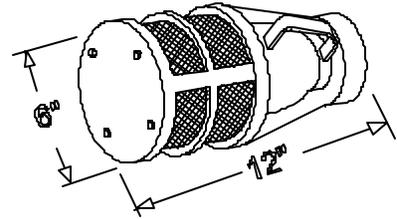
REF: CBR Monitoring Team Kit.

SECTION V

VALVE - FOOT

NSN 4820-00-540-2381

WT. 12.5 lbs VOL. 312.0 in³



DESCRIPTION: Spring loaded flapper valve. Non metallic swing type disc. One end, gasket seal style w/threaded internal hose type connection. Max operating pressure N/R.

USE: Used to allow water to enter the 3 inch suction hose, but prevents the water from flowing back out if the P-100 or the P-250 pump is shut down.

USE TIP: Clean away debris after use.

REF: Portable Pump Accessories Kit.

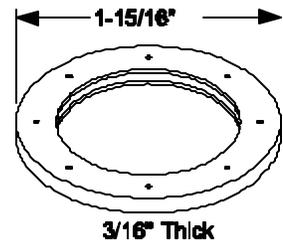
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SECTION W

**WASHER - BAYONET JOINT
RUBBER**

NSN 5310-00-372-0889

WT. 0.1 lbs **VOL.** 0.5 in³



DESCRIPTION: Legs of U-shaped cross section bulge outward to form tight seal when under pressure.

USE: Fits in recessed seat at bayonet joint of three position nozzles.

USE TIP: Two per kit.

REF: Repair Locker Tool Kit. NAVSEA Drawing No. 810-1385835.

WEDGE - JOINT BREAKING, STEEL

SIZE 4

3/4" x 1-1/2" x 4"

NSN 5120-00-224-9486

WT. 2.0 lbs. **VOL.** 2.2 in.³

DESCRIPTION: Hardened steel jointing and breaking wedges.

USE: Used in access/shoring operations.

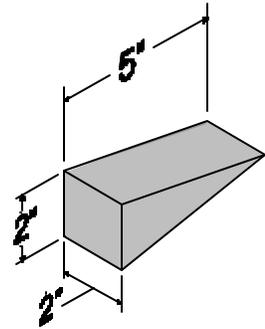
USE TIP: Four per kit.

REF: Firefighting/Access Equipment Kit.

WEDGE - JOINT BREAKING, STEEL
SIZE 5
2" x 2" x 5"

NSN 5120-00-224-9487

WT. 5.0 lbs. **VOL.** 10.0 in.³



DESCRIPTION: Hardened steel jointing and breaking wedges.

USE: Used in access/shoring operations.

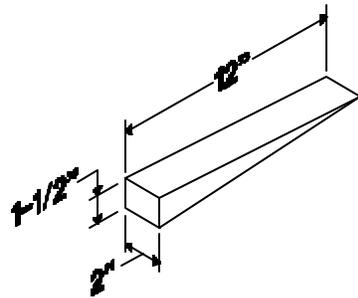
USE TIP: Four per kit.

REF: Firefighting/Access Equipment Kit.

WEDGE - WOOD
1-1/2" x 2" x 12"

NSN 5510-00-268-3475

WT. 0.4 lbs **VOL.** 18.0 in.³



DESCRIPTION: Tapered hardwood.

USE: Used in plugging operations.

USE TIP: 6 per kit.

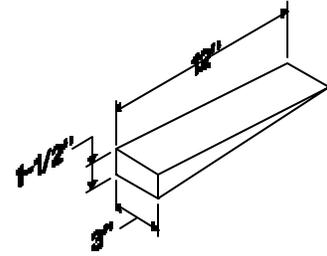
REF: Plugging Kit. NAVSEA Drawing No. 803-5184291.

WEDGE - WOOD

1-1/2" x 3" x 12"

NSN 5510-00-268-3476

WT. 0.6 lbs **VOL.** 27.0 in³



DESCRIPTION: Tapered hardwood.

USE: Used in plugging operations.

USE TIP: 8 per kit.

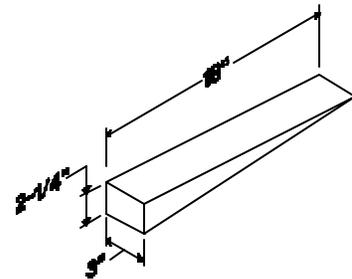
REF: Plugging Kit. NAVSEA Drawing No. 803-5184291.

WEDGE - WOOD

2-1/4" x 3" x 18"

NSN 5510-00-268-3477

WT. 1.4 lbs **VOL.** 60.7 in³



DESCRIPTION: Tapered hardwood.

USE: Used in plugging operations.

USE TIP: 8 per kit.

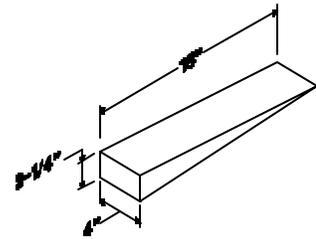
REF: Plugging Kit. NAVSEA Drawing No. 803-5184291.

WEDGE - WOOD

2-1/4" x 4" x 18"

NSN 5510-00-268-3478

WT. 1.9 lbs **VOL.** 81.0 in³



DESCRIPTION: Tapered hardwood.

USE: Used in shoring operations.

USE TIP: 8 per kit.

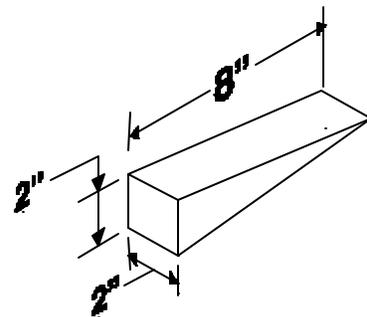
REF: Shoring Material Kit. NAVSEA Drawing No. 803-5184291.

WEDGES - WOOD

2" x 2" x 8"

NSN 5510-00-268-3479

WT. 0.4 lbs **VOL.** 16.0 in³



DESCRIPTION: Tapered hardwood.

USE: Used in plugging operations.

USE TIP: 2 per kit.

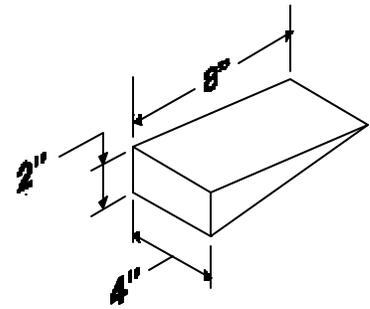
REF: Plugging Kit. NAVSEA Drawing No. 803-5184291.

WEDGE - WOOD

2" x 4" x 8"

NSN 5510-00-268-3480

WT. 0.7 lbs **VOL.** 32.0 in³



DESCRIPTION: Tapered hardwood.

USE: Used in shoring operations.

USE TIP: 22 per kit.

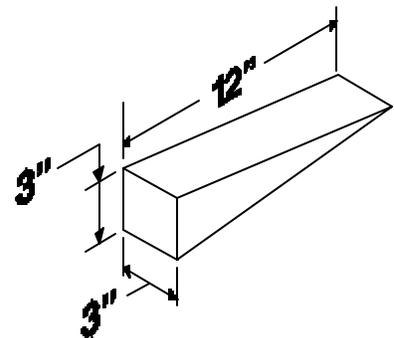
REF: Shoring Material Kit. NAVSEA Drawing No. 803-5184291.

WEDGES - WOOD

3" x 3" X 12"

NSN 5510-00-268-3481

WT. 1.2 lbs **VOL.** 54.0 in³



DESCRIPTION: Tapered hardwood.

USE: Used in plugging operations.

USE TIP: 2 per kit.

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

WEDGES - WOOD

3" x 6" x 12"

NSN 5510-00-268-3482

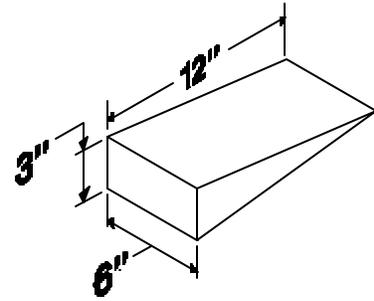
WT. 2.5 lbs **VOL.** 108.0 in³

DESCRIPTION: Tapered hardwood.

USE: Used in plugging operations.

USE TIP: 2 per kit.

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



WELDING POWER SUPPLY - 300 AMP

NSN 3431-01-389-7246

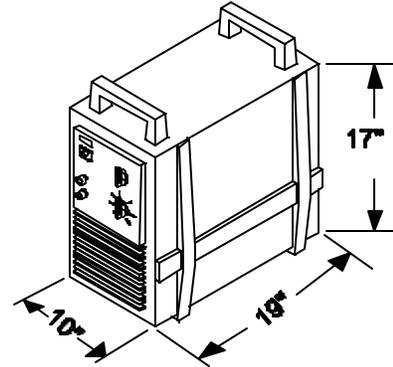
WT. 70.0 lbs. **VOL.** 3,230.0 in³

DESCRIPTION: The model 300 ST (440v) features: Converter power - smooth, stable arc; lightweight and portable; all fiberglass reinforced construction; corrosion resistant; insulated for safety; TIG "Auto-Start" - no high frequency; Auto hot start (GMAW) for easy arc striking.

USE: The welding machine (welding power supply) is used for DC gas tungsten-arc (TIG) welding "Auto-Start", shielded metal arc (STICK) welding, carbon-arc gouging, stud welding, and can be paralleled for higher amperage applications.

USE TIP: Provided with 50 ft of power cable. Cable assembly extension NSN: 6150-00-087-0815 (75 ft) is provided in Dewatering Kit.

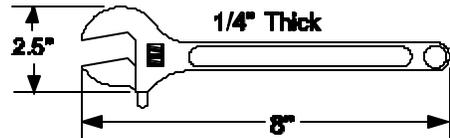
REF: Welding Equipment Kit.



WRENCH - ADJUSTABLE

NSN 5120-00-240-5328

WT. 0.4 lbs. **VOL.** 8.5 in.³



DESCRIPTION: Nominal length 8 inches. Adjustment open-end wrench with minimum jaw opening capacity 0 to 0.947 inch. Forged steel, heavy-duty. Bright chrome or nickel-plated finish. Rack and worm adjustment. Parallel jaws.

USE: Used to assemble DC components and equipment where there are flat sides for the wrench to grip.

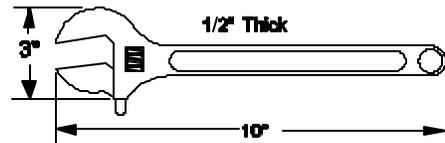
USE TIP: Always pull the wrench toward you rather than pushing it. All metal tools shall be insulated to prevent electrical shock IAW NSTM 300.

REF: Damage Control Petty Officer (DCPO) Kit. Electrical Repair Kit.

WRENCH - ADJUSTABLE
10" LONG (CRESCENT)

NSN 5120-00-449-8083

WT. 1.5 lbs **VOL.** 15.0 in³



DESCRIPTION: Nominal length 10 inches. Adjustment open-end wrench. Forged steel, heavy-duty. Bright chrome or nickel-plated finish. Rack and worm adjustment. Parallel jaws.

USE: Used to assemble DC components and equipment where there are flat sides for the wrench to grip.

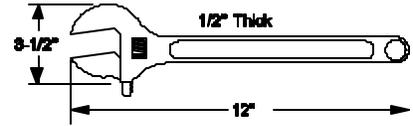
USE TIP: Always pull the wrench toward you rather than pushing it.

REF: Damage Control Petty Officer (DCPO) Kit.

WRENCH - ADJUSTABLE
12" LONG (CRESCENT)

NSN 5120-00-264-3796

WT. 2.0 lbs. **VOL.** 29.9 in.³



DESCRIPTION: Nominal length 12 inches. Adjustment open-end wrench. Forged steel, heavy-duty. Bright chrome or nickel-plated finish. Rack and worm adjustment. Parallel jaws.

USE: Used to assemble DC components and equipment where there are flat sides for the wrench to grip.

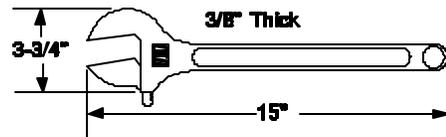
USE TIP: Always pull the wrench toward you rather than pushing it.

REF: Repair Locker Tool Kit.

WRENCH - ADJUSTABLE
15" LONG (CRESCENT)

NSN 5120-00-423-6728

WT. 4.0 lbs. **VOL.** 52.9 in.³



DESCRIPTION: Nominal length 15 inches. Adjustment open-end wrench. 1-15/16" opening. Forged steel, heavy-duty. Bright chrome or nickel-plated finish. Rack and worm adjustment. Parallel jaws.

USE: Used to remove nuts/bolts in pipe flanges and other miscellaneous DC work where there are flat sides for the wrench to grip.

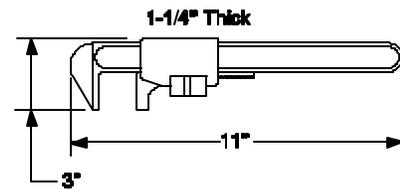
USE TIP: Always pull the wrench toward you rather than pushing it.

REF: Sounding Kit.

WRENCH - ADJUSTABLE
11" LONG (MONKEY)

NSN 5120-00-473-6476

WT. 2.5 lbs. **VOL.** 41.2 in.³



DESCRIPTION: Adjustable auto wrench with parallel jaws – one fixed and one adjustable. Adjustable to 2-3/4" jaw opening. Steel or malleable iron.

USE: Used to assemble DC components and equipment.

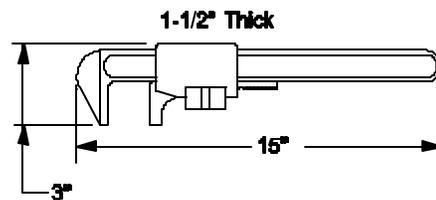
USE TIP: Always pull the wrench toward you rather than pushing it.

REF: Damage Control Petty Officer (DCPO) Kit. Repair Locker Tool Kit.

WRENCH - ADJUSTABLE
15" LONG (MONKEY)

NSN 5120-00-264-3793

WT. 3.5 lbs. **VOL.** 67.5 in.³



DESCRIPTION: Adjustable auto wrench with parallel jaws – one fixed and one adjustable. Adjustable to 3-5/8" jaw opening. Steel or malleable iron.

USE: Used to assemble DC components and equipment.

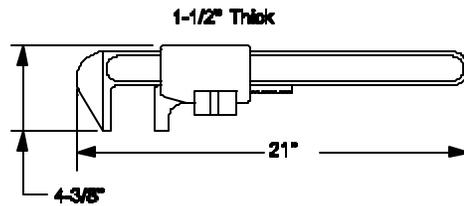
USE TIP: Always pull the wrench toward you rather than pushing it.

REF: Repair Locker Tool Kit.

WRENCH - AUTO ADJUSTABLE
21" LONG (MONKEY)

NSN 5120-00-277-9089

WT. 10.0 lbs. **VOL.** 138.6 in³



DESCRIPTION: Adjustable auto wrench with parallel jaws, one fixed and one adjustable.
(Adjustable to 5" jaw opening. Steel or malleable iron.)

USE: Used in pipe repair and other damage control functions.

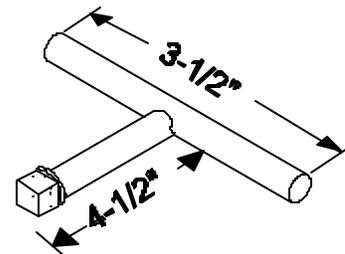
USE TIP: Always pull the wrench toward you rather than pushing it.

REF: Damage Control Unit Locker (DCUL).

WRENCH - DECK DRAIN VALVE

NSN 5120-00-030-2738

WT. 0.4 lbs **VOL.** 20.0 in³



DESCRIPTION: T-Handle with a square male drive end. 5 inches long overall. Galvanized steel.

USE: Operates deck drain valves.

USE TIP: Insert square end fully before turning.

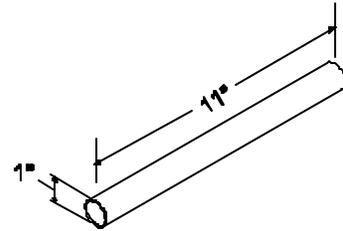
REF: NAVSEA Drawing No. 810-138578, Rev. A. Damage Control Petty Officer (DCPO) Kit.

WRENCH - DOGGING
1" x 11" GALVANIZED PIPE

1HS0000-LL-CJA-1883

1HS0000-LL-CJ7-5887

WT. 0.7 lbs **VOL.** 8.6 in³



DESCRIPTION: Made of galvanized steel pipe.

USE: Used to secure or open dogs on watertight doors. Fits over “dog” to increase turning leverage or torque.

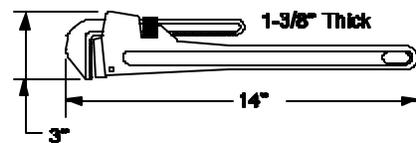
USE TIP: Grip pipe at end opposite dog for maximum torque.

REF: Investigator Kit.

WRENCH - PIPE - 14" ADJUSTABLE
STEEL
JAW OPENING 1/2" TO 1-1/2"

NSN 5120-00-277-1486

WT. 3.2 lbs. **VOL.** 45.7 in.³



DESCRIPTION: Adjustable wrench with serrated jaws – one fixed and one adjustable.

USE: Used in pipe repair and other damage control functions by turning pipe or anything round.

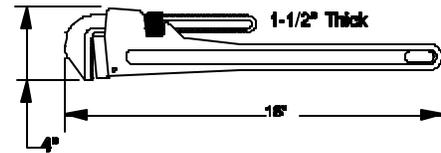
USE TIP: Turn toward lower jaw to “set” the teeth firmly.

REF: Repair Locker Tool Kit.

WRENCH PIPE - 18" ADJUSTABLE
STEEL
JAW OPENING 1" TO 1-1/2"

NSN 5120-00-277-1461

WT. 9.0 lbs **VOL.** 108.0 in³



DESCRIPTION: Adjustable wrench with serrated jaws – one fixed and one adjustable.

USE: Used in pipe repair and other damage control functions by turning pipe or anything round.

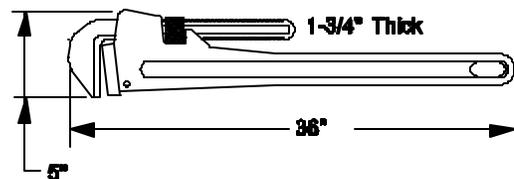
USE TIP: Turn toward lower jaw to “set” the teeth firmly.

REF: Repair Locker Tool Kit.

WRENCH PIPE - 36" ADJUSTABLE
STEEL
JAW OPENING 2-1/2" TO 3-1/2"

NSN 5120-00-270-4309

WT. 18.0 lbs. **VOL.** 294.0 in.³



DESCRIPTION: Heavy duty, adjustable jaw pipe wrenches with serrated jaws - one fixed and one adjustable. Hardened steel replaceable jaw insert. Size (opened length) and pipe size capability range as noted. Drop forged steel or cast malleable iron or steel.

USE: Used in pipe repair and other damage control functions by turning pipe or anything round.

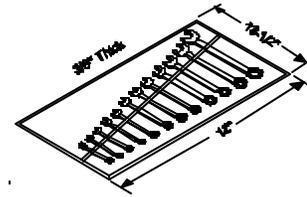
USE TIP: Turn toward lower jaw to “set” the teeth firmly.

REF: Parent AEL.

WRENCH SET - COMBINATION 5/16" TO 1"
12 PC SET

NSN 5120-00-148-7917

WT. 5.7 lbs **VOL.** 50.6 in³



DESCRIPTION: 12-piece set, combination 15° offset box-end and open-end wrenches. Identical wrench opening size each end. 12 point box (wrenches 7/16 inch and smaller may be 6 or 12 point). Chrome or nickel plated forged steel. Sizes: 5/16 inch; 3/8 inch; 7/16 inch; 1/2 inch; 9/16 inch; 5/8 inch; 11/16 inch; 3/4 inch; 13/16 inch; 7/8 inch; 15/16 inch; and 1 inch lengths from 3-1/4 inches to 12-1/2 inches.

USE: Box-end is slipped over end of nut or bolt for tightening or loosening. Open-end is slipped on to side of nut or bolt for tightening or loosening.

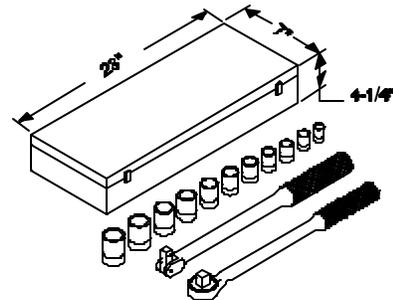
USE TIP: Can be used in tighter quarters than adjustable wrenches with more leverage.

REF: Damage Control Petty Officer (DCPO) Kit.

WRENCH SET - SOCKET 1/2" DRIVE
20 PC SET

NSN 5120-00-081-2307

WT. 20.0 lbs **VOL.** 733.0 in³



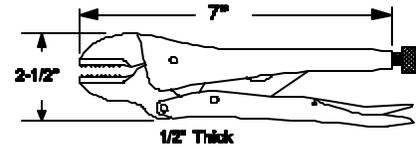
DESCRIPTION: 20 piece set includes the following:
13 regular 12 point sockets, Sizes 7/16 inch, 1/2 inch, 9/16 inch, 5/8 inch, 11/16 inch, 3/4 inch, 13/16 inch, 7/8 inch, 15/16 inch, 1 inch, 1-1/16 inch, 1-1/8 inch, and 1-1/4 inch; 3 solid extension bars: 2 inch, 5 inch and 10 inch; 2 hinged handles: 9 inch and 14-1/2 inch; 1 reversible ratchet handle: 9 inch; 1 universal joint.

USE: To tighten or loosen nuts, bolts, etc. by placing matching size socket over end and turning with handle.

USE TIP: Hinged handle allows working different angles. Extension bar allows working further away from item being turned. Ratchet handle allows working in limited space.

REF: Damage Control Petty Officer (DCPO) Kit. Repair Locker Tool Kit.

WRENCH - PLIERS 7"
(VICE GRIPS)
1-1/2" JAW OPENING
TWO STRAIGHT JAWS



NSN 5120-00-277-4243

WT. 0.6 lbs. **VOL.** 16.4 in.³

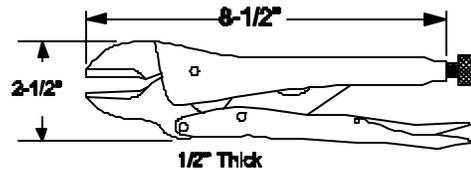
DESCRIPTION: Locking plier wrenches. Forged steel serrated jaws.

USE: Jaws are open and set by turning screw. Jaws are clamped by squeezing the handles. Finger tip release unlocks adjustable jaws.

USE TIP: Works like a clamp and can be turned with two hands (up to a ton of pressure) or used to hold something in place.

REF: Repair Locker Tool Kit.

WRENCH - PLIER 8-1/2"
(VICE GRIPS)
1-3/4" JAW OPENING
TWO STRAIGHT JAWS



NSN 5120-00-277-4244

WT. 1.0 lbs. **VOL.** 10.6 in.³

DESCRIPTION: Locking plier wrenches. Forged steel serrated jaws. Two straight jaws.

USE: Jaws are open and set by turning screw. Jaws are clamped by squeezing the handles. Finger tip release unlocks adjustable jaws.

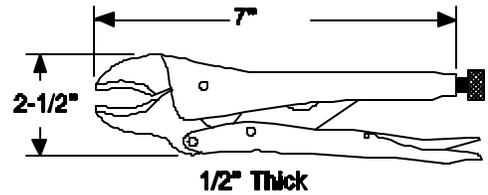
USE TIP: Works like a clamp and can be turned with two hands (up to a ton of pressure) or used to hold something in place.

REF: Repair Locker Tool Kit.

WRENCH - PLIER 7"
(VICE GRIPS)
1-1/2" JAW OPENING
TWO CURVED JAWS

NSN 5120-00-494-1910

WT. 0.6 LBS **VOL.** 8.71 in³



DESCRIPTION: Locking plier wrenches. Forged steel serrated jaws. Two straight jaws.

USE: Jaws are open and set by turning screw. Jaws are clamped by squeezing the handles. Finger tip release unlocks adjustable jaws.

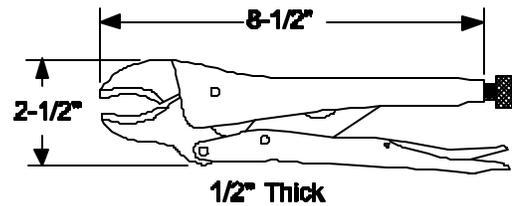
USE TIP: Works like a clamp and can be turned with two hands (up to a ton of pressure) or used to hold something in place.

REF: Damage Control Petty Officer (DCPO) Kit.

WRENCH - PLIER - 8-1/2"
(VICE GRIPS)
1-3/4" JAW OPENING
TWO CURVED JAWS

NSN 5120-00-494-1911

WT. 1.0 lbs **VOL.** 10.6 in³



DESCRIPTION: Locking plier wrenches. Forged steel serrated jaws. Two straight jaws.

USE: Jaws are open and set by turning screw. Jaws are clamped by squeezing the handles. Finger tip release unlocks adjustable jaws.

USE TIP: Works like a clamp and can be turned with two hands (up to a ton of pressure) or used to hold something in place.

REF: Damage Control Petty Officer (DCPO) Kit.

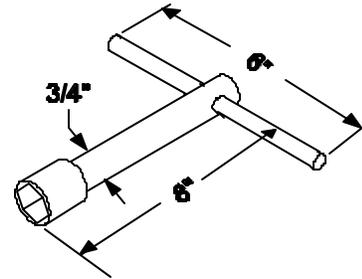
WRENCH - SOCKET TEE 3/8", 1/2" AND 1"

NSN 5120-00-227-7379 SIZE 3/8"

NSN 5120-00-227-7382 SIZE 1/2"

NSN 5120-00-227-7393 SIZE 1"

WT. 0.5 lbs AVG **VOL.** 21.6 in³ AVG



DESCRIPTION: Single socket wrench made of hardened steel.

USE: Used for removal and tightening of various tank/void sounding caps, deck drains, or for remote reachrod operation.

USE TIP: Insert socket end fully before turning.

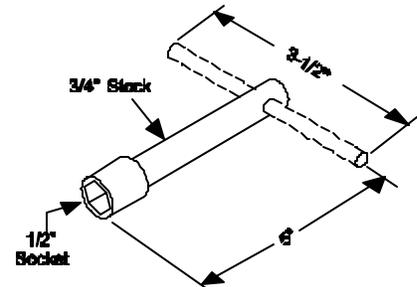
REF: Investigator Kit.

WRENCH - SOCKET 1/2" HEX HEAD

NSN 5120-00-227-7387 SIZE 1/2"

WT. 0.5 lbs. **VOL.** 21.6 in.³

DESCRIPTION: Single socket wrench with removable T-handle. Socket size 1/2" hex and 5-1/4" in length.



USE: Used for removal and tightening of various caps, deck drains, etc.

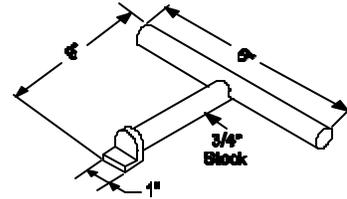
USE TIP: Insert socket end fully before turning.

REF: Parent AEL.

WRENCH SOUNDING CAP -
(SIZE AS REQUIRED)

1HM0000-LL-CQA-0099

WT. 1.5 lbs **VOL.** 48.0 in³



DESCRIPTION: Single size wrench for slotted caps with fixed tee handle.

USE: Used to remove sounding cap from tanks/voids within DCRS zone.

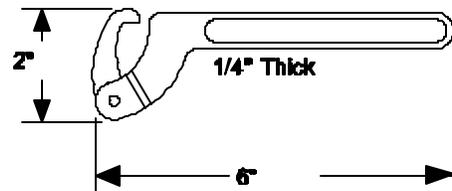
USE TIP: Fabricate locally. Sounding cap/tube wrench will be sized according to the specific ship. If more than one size sounding wrench is needed, all sizes will be provided.

REF: Sounding Kit.

WRENCH - SPANNER
3/4" TO 2"

NSN 5120-00-288-8746

WT. 1.3 lbs **VOL.** 3.0 in³



DESCRIPTION: 6" overall pin and hook spanner wrench.

USE: Used on 1-1/2 inch hose connections for tightening or loosening.

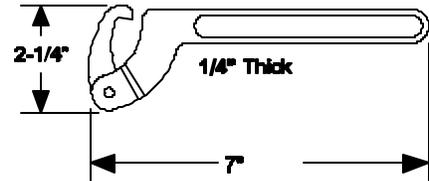
USE TIP: Turn toward hook to maintain grip.

REF: Firefighting/Access Equipment Kit. Portable Pump Accessories Kit. Rescue and Assistance Chests Kit.

WRENCH - SPANNER
1-1/4" TO 3"

NSN 5120-00-277-9075

WT. 1.5 lbs **VOL.** 3.9 in³



DESCRIPTION: 7" overall pin and hook spanner wrench.

USE: Used on 1-1/2 inch and 3 inch hose connections for tightening or loosening.

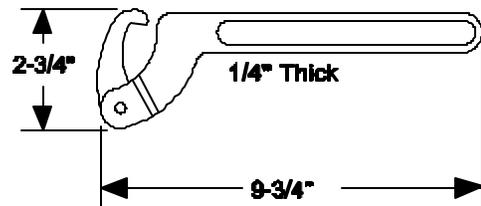
USE TIP: Turn toward hook to maintain grip.

REF: Firefighting/Access Equipment Kit. Portable Pump Accessories Kit.

WRENCH - SPANNER
2" TO 4-3/4"

NSN 5120-00-277-9076

WT. 2.0 lbs. **VOL.** 6.7 in.³



DESCRIPTION: 9-3/4" overall. Pin and hook spanner wrench.

USE: Used on 2-1/2 inch, 3 inch, and 4 inch hose connections for tightening or loosening.

USE TIP: Turn toward hook to maintain grip.

REF: Rescue and Assistance Chests Kit.

TRAINING AID BOOKLET
FOR
DAMAGE CONTROL
EQUIPMENT

CROSS REFERENCE INDEX
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1HS 0000-LL-CQA-4568	GLOVES, DIVERS (CUT RESISTANT, SELECT SIZE)	G-4
0000-LL-CQA-4938	CP - GLOVE INSERT - COTTON	C-24
1HM 0000-LL-CQA-5023	PP- GLOVES-TOXICOLOGICAL PROTECTIVE 14" LG (SELECT SIZE)	P-37
1HM 0000-LL-CQA-5024	CABLE ASSEMBLY-WELD 50FT	C-2
1HM 0000-LL-CQA-5025	CABLE ASSEMBLY, GROUND 25FT	C-1
1H 0000-LL-CQA-PECU	PECU - SPARE PARTS PACKAGE	P-12
0099-LL-H45-3077	EXTINGUISHER - FIRE - CO ₂ 15 LB PORTABLE SHIPBOARD USE - NONMAGNETIC	E-8
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1095-00-726-5820	PISTOL - PYRO AN/M8	P-14
1365-01-367-5695	SMOKE GENERATOR, FLUID FOR	S-17
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1H 2090-00-052-1581	SHORING STEEL - 6-11 FEET MAX	S-12
1H 2090-00-058-3737	SHORING STEEL DC - (3-5 FEET MAX)	S-11
1HM 2090-00-372-6064	REPAIR KIT, TYPE 1	R-6
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9G 3433-01-321-3342	PECU - PIERCING TOUCH ASSY - 3/8" COLLET	P-11
9G 3433-01-321-4195	PECU - PIERCING TOUCH ASSY EXTENSION, COLLET	P-11
3439-00-156-3322	CLAMP WELDING GROUNDING	C-16
9G 3439-00-238-1638	HOLDER - ELECTRODE WELD	H-6
9G 3439-01-325-7641	PECU - ELECTRODE, CUTTING T, 1/4"x 22" -	P-8
9G 3439-01-325-7642	PECU - ELECTRODE, CUTTING T, 3/8" x 36"	P-9
9G 3460-01-321-9161	PECU - PIERCING TOUCH ASSY, 3/8" NUT COLLET	P-11
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9Z 4020-00-231-5870	TWINE - HEMP FIBROUS	T-8
9Z 4020-00-240-2185	MARLINE-TAR - 2 PLY	M-2
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9C 4210-00-355-4862	ADAPTER - HOSE DBL FEMALE 2-1/2"(F) PIPE / 2-1/2"(F) HOSE	A-7
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9C 4210-00-618-8592	REDUCER - HOSE 4" NH(F) TO 3" NH(M)	R-5
9C 4210-00-725-9234	HOSE ASSEMBLY-NON-METALLIC SUCTION 3" x 10'	H-9
9C 4210-00-776-0657	HOSE ASSEMBLY-RUBBER EXH. HOSE, BLACK 2" x 20'	H-10
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9C 4210-01-038-6001	CONNECTION - TRI-GATE 2-1/2" NH INLET x (2) 1-1/2" NPSH OUTLETS ONE 2-1/2" NH OUTLET	C-20

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9G	4240-00-089-7963	P-32
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9C 4730-00-277-3381	ADAPTER -FLANGE TO HOSE THD 4" FLANGE /2-1/2" HOSE (F)	A-3
9C 4730-00-277-3382	ADAPTER -FLANGE TO HOSE THD 5" FLANGE-/2-1/2" HOSE (F)	A-4
9C 4730-00-277-3383	ADAPTER -FLANGE TO HOSE THD 6" FLANGE /2-1/2" HOSE (F)	A-5
9C 4730-00-289-2046	ADAPTER - (FLANGE TO HOSE THREADS) 3" FLANGE / 2-1/2" NH (M) HOSE	A-1
9C 4730-00-289-2047	ADAPTER -FLANGE TO HOSE THD 3-1/2" FLANGE/ 2-1/2" (M) HOSE	A-3
9C 4730-00-289-2048	ADAPTER -FLANGE TO HOSE THD 4" FLANGE/2-1/2" (M) HOSE	A-4
9C 4730-00-289-2049	ADAPTER -FLANGE TO HOSE THD 5" FLANGE/2-1/2" (M) HOSE	A-5
9C 4730-00-289-2050	ADAPTER -FLANGE TO HOSE THD 6" FLANGE/2-1/2" (M) HOSE	A-6
9C 4730-00-542-3359	KIT - PLASTIC PIPE PATCHING (KIT # 1)	K-12
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9C 4930-00-965-0288	GUN - GRE -PISTOL GRIP WITH 12" GREASE HOSE 14 OZ CARTRIDGE	G-5
9G 4933-01-325-6683	PECU - PIERCING TOURCH ASSY - SHIELD	P-11
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9Q 5110-00-221-1075	CHISEL-BLACKSMITH	C-11
9Q 5110-00-221-8132	CHISEL - COLD HAND	C-12
9Q 5110-00-223-5379	HATCHET - LATHING 2-1/4" CUTTING EDGE	H-4
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9Q 5110-00-240-6031	BAR - CHISEL - 36" PINCH BAR	B-2
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9Q 5110-00-293-0460	CUTTER -PIPE 1/8" TO 2"	C-28
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9Q 5110-00-640-5419	CHISEL- WOOD 1"	C-13
9Q 5110-00-640-5423	CHISEL -WOOD (FIRMER) 1-1/2"	C-13
5110-01-428-5240	SAW -HAND, SHORT CUT - 15"	S-2
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9Q 5120-00-061-8543	HAMMER-HAND	H-1
9Q 5120-00-061-8545	HAMMER - MACHINIST 1-1/2 LB	H-2
9Q 5120-00-061-8546	HAMMER - HAND, BALLPEEN MACHINIST 2 LB	H-2
9Q 5120-00-081-2307	WRENCH SET - SOCKET, 1/2" DRIVE (20 PC SET)	W-13
9Q 5120-00-148-7917	WRENCH SET - COMBINATION 5/16" TO 1" (12 PC SET)	W-13
5120-00-188-8446	SHOVEL, SQUARE POINT, TYPE S	S-13
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9Q 5120-00-221-1887	TAPE - MEASURE, SOUNDING 75 FT	T-4
9Q 5120-00-222-3241	CAULKING - IRON-WD TY 2	C-9
9Q 5120-00-223-7396	PLIERS - SLIP JOINT 6"	P-23
9Q 5120-00-223-7397	PLIERS - SLIP JOINT 8"	P-24
9Q 5120-00-224-1393	BAR - WRECKING - 24"	B-3
9Q 5120-00-224-4130	HAMMER - BLACKSMITH SLEDGE 12 LB	H-3
9Q 5120-00-224-7522	JACK - SCREW HAND 12 TON	J-2
9Q 5120-00-224-9456	PULLER - TYPE B	P-44
9Q 5120-00-224-9486	WEDGE - SZ 4, 3/4" x 1-1/2" x 4"	W-1
9Q 5120-00-224-9487	WEDGE - SZ 5, 2" x 2" x 5"	W-2
9Q 5120-00-224-9728	SCRIBER - MACHINIST SMALL POINT	S-8
9Q 5120-00-227-7379	WRENCH - SOCKET 3/8" TEE HANDLE	W-16
9Q 5120-00-227-7382	WRENCH - SOCKET,1/2" TEE HANDLE	W-16
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9Q	5120-00-234-8913	SCREWDRIVER - CROSS TIP SIZE 2	S-5
9Q	5120-00-239-8251	PLIERS - LINEMAN 8"	P-22
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9Q	5120-00-240-6217	PLIERS - SLIP JOINT 8"	P-23
9Q	5120-00-241-3181	CASUALTY POWER - WRENCH	C-8
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9Q	5120-00-243-2776	PULLER - FUSE, SIZE 3	P-43
9Q	5120-00-255-1476	MAUL - SHIP 5 LB	M-2
9Q	5120-00-264-3793	WRENCH - ADJUSTABLE 15" LONG (MONKEY)	W-9
9Q	5120-00-264-3796	WRENCH - ADJUSTABLE 12" LONG (CRESCENT)	W-8
9Q	5120-00-270-4309	WRENCH - PIPE - 36" ADJUSTABLE STEEL	W-12
9Q	5120-00-277-1461	WRENCH - PIPE - 18" ADJUSTABLE STEEL	W-12
9Q	5120-00-277-1486	WRENCH - PIPE - 14" ADJUSTABLE STEEL	W-11
9Q	5120-00-277-4243	WRENCH - PLIERS 7" VICE GRIPS	W-14
9Q	5120-00-277-4244	WRENCH - PLIERS 8-1/2" VICE GRIPS	W-14
9Q	5120-00-277-9075	WRENCH - SPANNER 1-1/4" TO 3"	W-18
9Q	5120-00-277-9076	WRENCH - SPANNER 2" TO 4-3/4"	W-18
9Q	5120-00-277-9089	WRENCH - 21" AUTO ADJUSTABLE (MONKEY)	W-10
9Q	5120-00-278-1283	SCREWDRIVER - FLAT TIP 5/16" x 6"	S-7
	5120-00-278-2423	ELECTRICAL CABLE REPAIR - CRIMPING TOOL	E-4
9Q	5120-00-278-9925	CLAMPING TOOL - STRAP	C-14
9Q	5120-00-288-8746	WRENCH - SPANNER 3/4" TO 2"	W-17
9Q	5120-00-293-0076	JACK-HYDRAULIC 10 TON CAPACITY	J-1
9Q	5120-00-293-3309	SCREWDRIVER - FLAT TIP 3/8" x 10"	S-6
9Q	5120-00-294-4605	KNIFE - PUTTY 1-1/4" SEMI-FLEXIBLE	K-22
9Q	5120-00-423-6728	WRENCH-ADJUSTABLE 15" LONG (CRESCENT)	W-8
9Q	5120-00-449-8083	WRENCH-ADJUSTABLE 10" LONG (CRESCENT)	W-7
9Q	5120-00-473-6476	WRENCH-ADJUSTABLE 11" LONG (MONKEY)	W-9
9Q	5120-00-494-1910	WRENCH-PLIER-7" (VICE GRIPS) 1-1/2" JAW OPEN (CURVED))	W-15
9Q	5120-00-494-1911	WRENCH-PLIER- 8-1/2" (VICE GRIPS) 1-3/4" JAW OPEN (CURVED)	W-15
9Q	5120-00-542-3438	SCREWDRIVER - CROSS TIP 8", NO. 4 BLADE	S-5
9Q	5120-00-595-9244	KEY SET - SOCKET HEAD	K-1
9Q	5120-00-629-6258	FINGER - MECHANICAL	F-4
9Q	5120-00-764-8058	SCREWDRIVER - FLAT TIP "INSULATED" 1/4" x 4"	S-6
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	5120-00-889-2050	HOLDING TOOL WRENCH - CHAIN TYPE	H-6
9Q	5120-00-892-5744	HAMMER - RIPPING CARPENTER'S STRAIGHT CLAW	H-3
9Q	5120-00-935-4641	KEY SET - ALLEN WRENCH	K-1
	5120-01-121-5023	CLAMP SPRING - SMOKE CURTAIN	C-15
9Q	5120-01-278-8257	MIRROR - INSPECTION 2-1/4"	M-3
	5120-01-290-1804	PP - WRENCH - SPANNER, OBA	P-43
	5120-01-372-4965	BIT -SET	B-8
9Q	5130-00-134-1207	SAW - K-1200 CIRCULAR, GASOLINE POWERED CHAIN SAW	S-2
9Q	5130-00-293-1849	DRILL - ELECTRIC PORTABLE 1/2"	D-4
9Q	5130-00-889-8991	SAW - CIRCULAR, ELECTRIC, PORTABLE 10" BLADE	S-1
	5130-01-284-3063	DRILL, ELECTRIC, PORTABLE (12 VOLT)	D-3
9Q	5133-00-277-9650	DRILL TWIST BIT - 1/8" 1 DOZEN EA	D-3
9Q	5133-00-277-9654	DRILL TWIST BIT - 3/16" 1 DOZEN EA	D-3
9Q	5133-00-277-9658	DRILL TWIST BIT - 1/4" 1 DOZEN EA	D-3
9Q	5133-00-277-9666	DRILL TWIST BIT - 3/8" 1 DOZEN EA	D-3
9Q	5133-00-277-9672	DRILL TWIST BIT - 1/2" 1 DOZEN EA	D-3
9Q	5140-00-226-9018	TOOL BOX - PORTABLE 24" x 12" x 12"	T-6
9Q	5140-00-288-7763	BAG - LINEMAN TOOL	B-1
9Q	5140-00-293-2379	BAG - TOOL SATCHEL	B-2
9Q	5140-00-315-2747	TOOL BOX - PORTABLE 16" x 7" x 7"	T-6
9Q	5140-00-369-4927	CHEST TOOL KIT - 23" x 9" x 11"	C-11
9Q	5140-00-391-1069	BELT - TOOL ADJUSTABLE	B-7
NSN	5140-00-529-1889	BELT - INVESTIGATOR TOOL CARRIER	B-6
9Q	5140-00-587-5558	TOOL BOX - PORTABLE	T-7
1H	5180-01-220-1807	ELECTRICAL CABLE REPAIR - CRIMP TOOL-HYDRA	E-3
9Q	5210-00-293-3393	RULE - MULTIPLE FOLDING	R-8
9Q	5210-00-810-3490	SQUARE - CARPENTER 24" x 16"	S-19
9Q	5210-00-971-8827	RULE - STEEL MACHINIST	R-9
9Q	5210-01-335-1614	TAPE MEASURE - STEEL 1" x 25"	T-1
	5210-01-418-4746	BATTEN - SHORING - 2" X 2" X 4'6" TO 7'	B-3
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	5306-00-412-9786	LAG BOLT (2-1/2" x .500") QTY - 20 EACH - .390	L-2
9Z	5310-00-239-1882	GASKET/WASHER - 4" RUBBER	G-3
	5310-00-372-0889	WASHER - BAYONET JOINT, RUBBER	W-1
9Z	5310-00-728-7702	GASKET/HOSE - 1-9/16" FLAT, RBR	G-1
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9Q	5315-00-598-5916	COTTER PIN - ASSORTMENT	C-21
	5315-00-753-3885	NAIL - COMMON, 16D	N-1
9Z	5330-00-179-0052	RUBBER SHEET - SOLID	R-8
9Z	5330-00-191-5679	OAKUM SPUN TAR	O-1
9Q	5330-00-239-1873	GASKET/HOSE - 1-1/2" NON-MET	G-1
9Q	5330-00-239-1877	GASKET/HOSE - 2-1/2" RUBBER	G-2
9Z	5330-00-239-1879	GASKET/WASHER - 3" RUBBER	G-3
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9C	5510-00-268-3478	WEDGE - 2-1/4" x 4" x 18"	W-4
9C	5510-00-268-3479	WEDGE - 2" x 2" x 8"	W-4
9C	5510-00-268-3480	WEDGE - 2" x 4" x 8"	W-5
9C	5510-00-268-3481	WEDGE - 3" x 3" X 12"	W-5
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9D 8430-00-753-5942	PP - BOOTS - FIREMAN SIZE 12	P-30
9D 8430-00-753-5943	PP - BOOTS - FIREMAN SIZE 13	P-30
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