

**NAVAIR 01-1A-509-5
TM 1-1500-344-23-5
TO 1-1-689-5**

TECHNICAL MANUAL

CLEANING AND CORROSION CONTROL

VOLUME V CONSUMABLE MATERIALS AND EQUIPMENT FOR AVIONICS

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LIST OF TECHNICAL PUBLICATIONS DEFICIENCY REPORTS INCORPORATED

| Report Control Number (RCN) | Location | Report Control Number (RCN) | Location |
|------------------------------------|-----------------|------------------------------------|-----------------|
| NATEC Det New Orleans | | | |
| 30338 2002 N065 | Pg A-4 | | |
| 30338 2002 N071 | Pg A-3 | | |
| 30338 2003 N072 | Pg A-8 | | |

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CHAPTER 1 INTRODUCTION

This volume was prepared under the technical cognizance of the Chemistry and Materials Division, NAVAIR China Lake, China Lake, California.

1-1. GENERAL. Consumable materials and equipment listed in this volume shall be used for corrosion control. These materials and equipment have been approved only after extensive testing to prove their ability to perform properly and effectively without damaging any of the metallic or nonmetallic materials used in aircraft or avionics. Only those materials listed in this manual shall be used for cleaning or corrosion control of avionic components. Materials listed in other manuals shall be used only when required procedures are not covered by this manual. When approved materials are not available, substitutions shall only be made by the appropriate Aircraft Controlling Custodians (ACC) or System Program Manager (SPM).

1-2. PURPOSE. The purpose of this manual is to provide ordering information for consumable materials

and equipment used to prevent, control, and repair corrosion damage to avionics.

1-3. SCOPE. The material in this manual contains basic corrosion prevention and corrective maintenance information to be used at Organizational, Intermediate, and Depot levels.

1-4. ARRANGEMENT OF MANUAL.

1-4-1. A complete set of manuals to perform avionics and electronics cleaning and corrosion control functions consists of Volumes I, III, and V (Air Force).

1-4.2. Arrangement of Volume V. Volume V consists of four chapters, arranged as shown in Table 1-1.

1-5. RELATED PUBLICATIONS. None.

Table 1-1. Outline of Volume V

| CHAPTER | TITLE | BRIEF DESCRIPTION |
|---------|--|--|
| 1 | Introduction | This chapter presents the scope and layout of this volume. |
| 2 | Consumable Materials for Corrosion Control | This chapter provides information on the approved materials for cleaning, corrosion prevention, and corrosion control for avionics. |
| 3 | Equipment for Corrosion Control | This chapter provides information on approved equipment used for cleaning, corrosion prevention, and corrosion control for avionics. |
| 4 | Special Avionic Equipment | This chapter lists the requirements for special cleaning equipment used in an avionic corrosion control work center. |

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CHAPTER 2 CONSUMABLE MATERIALS FOR CORROSION CONTROL

2-1. INTRODUCTION. The materials referenced in this chapter are approved for use, but approval should not be misconstrued as an endorsement of any manufacturer's product(s). If an equivalent for an application/procedure is not referenced herein, contact your service representative for approval: Air Force Corrosion Prevention and Control Office, AFRL/MLS-OLR, Robins AFB, GA.

2-2. ARRANGEMENT OF CHAPTER. Chapter 2 lists consumable materials used for avionics cleaning and corrosion control. Nomenclature, specifications/part numbers, national stock numbers (NSNs), units of issue (U/I), and intended use of materials are provided. Items are located by function in the following tables:

- a. Table 2-1. Abrasives.
- b. Table 2-2. Chemical Conversion Coating Materials.
- c. Table 2-3. Cleaning Compounds.
- d. Table 2-4. Cleaning Pads/Cloths.
- e. Table 2-5. Conformal Coatings.
- f. Table 2-6. Corrosion Preventive Compounds.
- g. Table 2-7. Lubricants.
- h. Table 2-8 Masking Materials.
- i. Table 2-9. Neutralizing Agents.
- j. Table 2-10. Packaging/Protective Materials.
- k. Table 2-11. Paint Removers.
- l. Table 2-12. Paint Thinners.
- m. Table 2-13. Paints - Primers.
- n. Table 2-14. Paints – Topcoats.
- o. Table 2-15. Potting Compounds.

- p. Table 2-16. Sealants.
- q. Table 2-17. Solvents.
- r. Table 2-18. Tapes.
- s. Table 2-19. Tracers/Indicators.

2-3. CONTAINER SIZE. Consumable materials of a particular specification are provided in various size containers. If the particular size container required is not available or listed, ask the supply department to provide the next size container under the same specification.

2-4. LOCAL PURCHASE. When local purchase is specified, include all procurement information, source of supply, and GSA contract number if available.

2-5. LOCAL REGULATIONS. Prior to the procurement/use of any specified products, comply with all local safety and environmental requirements, laws, and regulations.

2-6. UNIT OF ISSUE. The unit of issue abbreviations are as follows:

| CODE | UNIT | CODE | UNIT | CODE | UNIT |
|------|-----------|------|----------|------|---------|
| BG | Bag | DZ | Dozen | OZ | Ounce |
| BO | Bolt | EA | Each | PG | Package |
| BT | Bottle | FT | Foot | PR | Pair |
| BX | Box | GL | Gallon | PT | Pint |
| CA | Cartridge | GR | Gross | QT | Quart |
| CB | Carboy | JR | Jar | RO | Roll |
| CN | Can | KT | Kit | SE | Set |
| CO | Container | LB | Pound | SH | Sheet |
| CS | Case | LG | Length | TU | Tube |
| DR | Drum | MX | Thousand | YD | Yard |

Table 2-1. Abrasives

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--|--|--|--|---|
| Abrasive Cloth | ANSI-B74.18 | | | Removal of heavy corrosive products from steel, iron, aluminum and magnesium structures, mountings, racks, chassis, covers; scuff sanding of avionic boxes prior to painting. CAUTION Do not substitute Silicon Carbide Abrasive Cloth. |
| Abrasive Mat | A-A-58054 Type I Class 1 Grade A (very fine) Grade B (fine) Grade C (medium) | 5350-00-967-5089 5350-00-967-5093 5350-00-967-5092 | PG (10 SH) PG (10 SH) PG (10 SH) | Aluminum oxide impregnated nylon webbing used for removal of dirt and corrosive products from external avionic chassis, covers, mountings, hardware, antennas, electrical connector shells. |
| Abrasives Paper, Aluminum Oxide, Screen-Type (Brown) | P/N: 830-DMS240HV P/N: 830-DMS320HV P/N: 860-DMS240HV P/N: 860-DMS320HV P/N: 834-DMS240HV P/N: 834-DMS320HV P/N: 837-DMS240HV P/N: 837-DMS320HV P/N: 828-G240HV P/N: 828-G320HV | 5345-01-521-4926 5345-01-521-6602 5345-01-521-4548 5345-01-521-4541 5345-01-521-4536 5345-01-521-4537 1HS099-LL-H61-2752 5345-01-521-4929 1HS0000-LL-CQA-8308 1HS0000-LL-CQA-8309 | PK (250) PK (250) PK (250) PK (250) PK (250) PK (250) PK (250) PK (250) PK (250) PK (250) | Use with Clayton Sanders (refer to Table 3-2) 240 grit abrasive disks for 3" sander. 320 grit abrasive disks for 3" sander. 240 grit abrasive disks for 6" sander. 320 grit abrasive disks for 6" sander. 240 grit abrasive sheets for 3" x 4" sander. 320 grit abrasive sheets for 3" x 4" sander. 240 grit abrasive sheets for 3 2/3" x 7" sander. 320 grit abrasive sheets for 3 2/3" x 7" sander. 240 grit abrasive sheets for 3" x 3 1/4" triangular sander. 320 grit abrasive sheets for 3" x 3 1/4" triangular sander. |
| Eraser | A-A-132 2.75" x 0.25" x 0.875" 2.625" x 0.5" x 0.875" Pencil Shape Typewriter Style | 7510-00-223-7046 7510-00-949-5055 7510-00-582-3756 7510-00-619-7714 | DZ DZ DZ DZ | Removal of medium tarnish on silver. Removal of medium corrosion on copper, zinc, nickel. For brightening of gold. CAUTION Only to be used if component is sufficiently rigid to resist rubbing motion. Typewriter eraser can be used for removal of heavy tarnish on silver and removal of heavy corrosion on copper, zinc, and nickel. CAUTION Care should be taken not to remove thinly plated surfaces. |
| Glass Beads | SAE-AMS-2431/6 Size AGB-6 or MIL-G-9954 Size 13 | 5350-00-576-9634 | BG (50 lb) | Use as abrasive in hand-held tool in Blast Cleaning Cabinet. |

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Table 2-2. Chemical Conversion Coating Materials

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--|---|-----------------------|---------------|---|
| Chemical Conversion Coating for Aluminum and Its Alloys (non-ferricyanide catalyzed) | MIL-DTL-81706 Class 1A & 3 Form II (powder) | 8030-00-811-3723 | BT (2 LB) | Non-ferricyanide conversion coating for the treatment of clean, bare aluminum to impart a chromate oxide coating. |
| | Alodine 600 | 8030-01-018-2838 | CO (10 LB) | |
| | Turcoat Alumigold | 8030-01-341-8609 | CB (60 LB) | |
| Chemical Conversion Coating for Magnesium and its Alloys | AMS-M-3171 Type VI | 8030-01-512-2416 | CS (12 KT) | Treatment of clean, bare magnesium. |
| Touch-N-Prep (TNP) Pen | Alodine 1132 | 8030-01-460-0246 | CS (12) | Clean and easy to use method for applying chemical conversion coating to aluminum in accordance with MIL-DTL-81706 Class 1A and 3. Ideal for touch up of small areas. |

Table 2-3. Cleaning Compounds

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--|---|--|---|---|
| Detergent, General Purpose (Liquid, nonionic) | MIL-D-16791 Type I | 7930-00-282-9699 7930-00-985-6911 7930-00-282-9700 | GL CN (5 GL) DR (55 GL) | For cleaning and polishing transparent plastic and glass. Note: Mix 1 oz per gal water. Apply with cloth, cotton flannel, A-A-50129. When dry wipe with dry flannel cloth. Also used as a detergent in the Aqueous Ultrasonic Cleaner and Aqueous Spray Cleaning Booth. |
| Cleaning Compound, Aircraft Exterior | MIL-PRF-85570 Type II | 6850-01-239-0571 6850-01-235-0872 6850-01-248-9828 6850-01-236-0128 | GL CN (5 GL) DR (15 GL) DR (55 GL) | General cleaning. For removal of soil and fire extinguishing chemicals. Excellent cleaner for light oils and hydraulic fluids. It can be used in areas of reduced ventilation. |
| Aircraft Cleaning Compound (Air Force Only) | MIL-PRF-87937 Type II Type IV | 6850-01-339-5228 6850-01-339-5227 6850-01-390-7827 6850-01-429-2371 6850-01-433-0873 6850-01-429-2368 6850-01-461-0060 6850-01-461-0070 | DR (55 GL) CN (5 GL) GL DR (55 GL) CN (5 GL) GL BX (12, 24 OZ spray bottle) BX (12, 16 OZ aerosol) | General cleaning. For removal of soil and fire extinguishing chemicals. |
| Cleaning Compound, Solvent | CT-1 | 6850-01-394-2629 6850-01-394-2633 6850-01-394-2631 | DR (55 GL) CN (5 GL) GL | For use with CHEM-TECH Track 8 cleaning. |
| Cleaning Compound, Solvent | CT-2L | 6850-01-394-2627 6850-01-394-2630 | DR (55 GL) CN (5 GL) | For use with CHEM-TECH Track 8 cleaning. |
| Cleaning and Cleaning-Lubricating Compounds, Electrical Contact, Low ODP | MIL-PRF-29608 Type I Class L Class C Type II Class L Class C | 6850-01-394-9514 6850-01-412-5579 6850-01-453-5703 6850-01-453-5690 | BX (12 OZ aerosol) BX CN (12 OZ can) CN (12 OZ can) | Used for the cleaning of electrical contacts and switches. It is intended for the removal of aircraft avionics soils, salt, dielectric fluid and hydraulic fluid. Class C is used for cleaning electrical contacts. |

Table 2-4. Cleaning Pads/Cloths

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|---|--|--|--|--|
| Lint-Free Cloth | MIL-C-24671 Type I Class A Class B Class C Type II Class A Class B Class C | 7920-01-335-5068 7920-01-498-8072 7920-01-335-5069 7920-01-498-8068 7920-01-498-8082 7920-01-408-5474 7920-01-335-5070 7920-01-498-8060 7920-01-336-3470 7920-01-498-8076 7920-01-498-8074 7920-01-498-8080 | PG (100 EA) PG (100 EA) PG (100 EA) PG (100 EA) PG (100 EA) PG (100 EA) PG (100 EA) PG (100 EA) PG (100 EA) PG (100 EA) PG (100 EA) PG (100 EA) | Cleaning of avionic and electronic equipment when lint cannot be tolerated. |
| Cloth, Cleaning, Low Lint | A-A-59323 Type I Type II | 7920-00-165-7195 7920-00-044-9281 | BX (10 LB) BX (10 LB) | Very low lint, relatively low absorbency, good wet strength, intended for wash and reuse. For use on critical surfaces where low contamination levels are required. Type I preferred for clean room applications. CAUTION Not to be used with solvents having a flash point of <100° F (38° C); may result in fire. |
| Cheesecloth, 100% Cotton | A-A-1491 Type I (Grade #90) Type II (Grade #50) Type III (Grade #10) | 8305-00-262-3321 8305-00-205-3495 8305-00-205-3496 8305-01-125-0725 | BO (36" X 50 YD) BO (36" X 100 YD) PG (36" X 10 YD) PG (36" X 5 YD) | Moderate lint, high absorbency, and disposable. For general cleaning on external surfaces of avionic equipment. For use as tackrag and final wipe prior to painting. |
| Cloth, Flannel, Cotton | A-A-50129 | 8305-00-913-5817 | BO (50 YD) | High lint, high absorbency, high wet strength, reusable after washing, and disposable. For use on cockpit indicator glass covers, plastic and acrylic control panels. NOTE Only authorized cloth to be used for cleaning plastic and acrylics with solvents with a flash point <100° F (38° C). |
| Cleaning and Scouring Pad, Non-metallic | A-A-3100 Type I | 7920-00-151-6120 | PG (10 EA) | Avionic washing pad used for removal of dirt and contaminants from internal avionic structures, laminated circuit boards, waveguides, TR tubes, cavities, circuit components, relay contacts, control box faceplate. |
| Pipe Cleaner | P/N: 840507 | 9920-00-292-9946 | BX (1344 EA) | Cleaning small orifices and crevices. |

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Table 2-5. Conformal Coatings

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use | |
|---|---------------------------------|--|---|--|--|
| Silicone Adhesive-Sealant, One-Part, Room Temperature Vulcanizing (RTV), Non-fuel Resistant, Non-corrosive (Synthetic rubber) | MIL-A-46146 Type I (Paste) | COLOR Clear White Gray Red | 8040-01-394-3735 | TU (3 OZ) | Also known as 738 RTV: For coating and patching RTV coated circuit boards and components. NOTE: Not flowable into crevices and hard to reach areas. |
| | | | 8040-01-331-7133 | TU (3 OZ) | |
| | | | 8040-00-118-2695 | KT (3 OZ) | |
| | | | 8040-00-145-0020 | TU (3 OZ) | |
| | | | 8040-01-308-4963 | TU (3 OZ) | |
| | Type II (Liquid, self-leveling) | Clear Clear Gray | 8040-01-331-7127 | TU (3 OZ) | |
| | | | 8040-01-441-0671 | KT (3 OZ) | |
| | | | 8040-01-375-4805 | TU (3 OZ) | |
| | Type III (High strength) | Clear White Gray Gray Red | 8040-00-117-8510 | TU (3 OZ) | |
| | | | 8040-01-157-9469 | TU (3 OZ) | |
| | | | 8040-01-450-6545 | TU (3 OZ) | |
| | | | 8040-01-275-5052 | KT (3 OZ) | |
| 8040-00-902-3871 | KT (3 OZ) | | | | |
| Varnish, Electrical Insulating | ASTM D3955 | 5970-00-285-0269 5970-00-285-0271 5970-00-832-6950 | CN (5 GL) GL EA (16 OZ aerosol can) | Moisture and fungus resistant varnish for electrical equipment and for clear coating on copper. For coating and patching of varnish coated circuit boards. Thinner: Thinner, Synthetic, Resin, Enamels, ASTM D263. | |

Table 2-6. Corrosion Preventive Compounds

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|---|---|--|-----------------------|--|
| Water-displacing Corrosion Preventive Compound, Ultra Thin Film | MIL-PRF-81309 Type II Class 1 Class 2 | 8030-00-213-3279 | GL | Type II: Water displacing CPC which may be applied by dipping spraying, brushing, or from pressurized containers. Suitable for use on any metal surface for indoor and short-term outdoor protection where surfaces can be recoated. |
| | | 8030-00-938-1947 | CN (16 OZ aerosol) | |
| | Type III Class 1 Class 2 | 8030-01-347-0978 | GL | Type III: Water displacing CPC for use on avionic equipment, electrical connector plugs, and contact points. |
| | | 8030-00-546-8637 | CN (16 OZ aerosol) | |
| Corrosion Preventive Compound, Solvent Cutback, Cold Application | MIL-PRF-16173 Grade 4 | 8030-01-396-5738 8030-01-396-5743 8030-01-347-0972 | PT GL CN (5 GL) | Preservative material, thin, transparent film. For use on equipment racks, mounts, exposed hardware. For use on exterior surface of electrical plugs and connectors. Not intended as a water-displacing compound. |
| Corrosion Preventive Compound, Water Displacing, Clear (AMLGUARD) | MIL-DTL-85054 Type I (Self Pressurized Spray) Type II (Bulk form) | 8030-01-066-3971 | CN (12 OZ Aerosol) | Temporary repair of small paint damage areas from chips, scratches, or cracks. Intended for use on non-moving parts not requiring a lubricated surface, such as fasteners, seams, access panels, joints, and unpainted metal. |
| | | 8030-01-347-0980 | CN (14 OZ Aerosol) | |
| | | 8030-01-347-0983 | BT (32 OZ Sprayer) | |
| | | 8030-01-347-0981 | QT (32 OZ Can) | |
| | | 8030-01-347-0982 | CN (5 GAL) | |
| Lubricant, Water Displacing, Synthetic (Air Force Only) | MIL-L-87177 Grade B Type I Type II | 9150-01-328-3617 | CN (16 OZ aerosol) | For corrosion protection on electrical plugs and connectors. |
| | | 9150-01-326-7294 | CN (5 GL) | |

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Table 2-7. Lubricants

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--|---|--|---|--|
| Lubricant, Cleaner, and Preservative for Weapons and Weapons Systems | MIL-PRF-63460 | 9150-01-079-6124 9150-01-054-6453 9150-01-327-9631 9150-01-053-6688 | BT (4 OZ) PT (16 OZ) QT (32 OZ) GL | |
| Damping Fluid, Lubricant, Dimethyl Polysiloxane Silicone | VV-D-1078 Grade 100 cst Grade 100,000 cst | 9150-00-269-8246 9150-00-404-3435 9150-00-292-9609 | LB DR (55 GL) LB | Lubricant for use on small switches and potentiometers where a residual lubricant is required after cleaning. |
| Lubricating Oil, General Purpose, Preservative | MIL-PRF-32033 (formerly VV-L-800) | 9150-00-231-6689 9150-00-231-9045 9150-00-231-9062 9150-00-231-8146 9150-00-273-2389 9150-00-281-2060 9150-00-458-0075 9150-00-836-8641 9150-01-374-2021 | QT GL CN (5 GL) OZ CN (4 OZ) DR (55 GL) CN (16 OZ) DZ (12, 0.5 OZ plastic squeeze bottles) PT (16 OZ bottle with trigger sprayer) | General lubrication and protection of avionic components, hinges, and quick release devices. Suitable for use where a general purpose lubrication oil with low temperature and corrosion preventive properties is desired. |

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Table 2-8. Masking Materials

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|-------------------------|---|-----------------------|----------------|--|
| Paper, Kraft, Untreated | A-A-203 Style 1 (Rolls) 50 lb weight | 8135-01-337-5370 | RO (3' X 200') | Protection of surrounding areas during paint spray operations. |
| | 60 lb weight | 8135-00-160-7768 | RO (3' X 820') | |
| | 70 lb weight | 8135-00-160-7771 | RO (3' X 700') | |
| | 80 lb weight | 8135-00-160-7776 | RO (3' X 615') | |
| | Style 1 (Sheets) 30 lb weight (850 sheets) | 8135-00-290-3408 | SH (2' X 3') | |
| | 70 lb weight (200 sheets) | 8135-00-290-5504 | SH (3' X 4') | |

Table 2-9. Neutralizing Agents

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|-------------------------------|-----------------------------------|--|--|---|
| Sodium Phosphate, Monobasic | ANSI/AWWA B504 | 6810-00-281-1858 | BG (100 LB) | For neutralizing spilled potassium hydroxide (electrolyte) in nickel-cadmium and silver-zinc battery installations. Also used as abrasive material in the Mini-Abrasive Unit. |
| Sodium Bicarbonate Technical | ASTM D928 (supercedes A-A-374) | 6810-00-264-6618 6810-00-297-0092 | BX (1 LB) BG (50 LB) | For neutralizing spilled sulfuric acid (electrolyte) in lead acid battery installations. For neutralizing leaking tantalum capacitors in avionic equipment. |
| Boric Acid | A-A-59282 (supercedes O-C-265) | 6810-00-264-6535 6810-00-824-9090 6810-00-153-0191 | BT (500 GM) CN (5 LB) BG (25 LB) | For neutralizing electrolyte leakage from nickel-cadmium batteries. |
| Ammonium Hydroxide, Technical | A-A-59370 (supercedes O-A-451) | 6810-00-584-3793 6810-00-817-9929 | PT GL | Used to assist in dissolving Indicator, Bromothymol Blue Reagent (see Table 2-19). |

Table 2-10. Packaging/Protective Materials

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--|--|--|---|---|
| Cushioning Material, Resilient, Low Density, Unicellular Polypropylene | PPP-C-1797 Type 1 0.125" thick 450 ft x 72" 450ft x 24" 450 ft x 12 " 0.25" thick 225 ft x 30 " 225 ft x 24 " 225 ft x 12" 225 ft x 72" 225 ft x 72" | 8135-01-013-1824 8135-00-129-9523 8135-00-300-4904 8135-00-300-4905 8135-00-601-9221 8135-00-601-9224 8135-01-008-8099 8135-01-286-6449 | RO BD (3 RO) BD BD (3 RO) BD (4 RO) RO RO RO | Lint-free, non-dusting, non-abrasive. For cushioning equipment, and protection against shock. Provides protection against moisture. Use in conjunction with Barrier Material water vapor proof, MIL-PRF-131. Seal with Pressure Sensitive Tape, SAE AMS-T-22085 (see Table 2-18). |
| Cushioning Material, Plastic Open Cell | A-A-3129 (supercedes PPP-C-1842) 0.25" thick Style A Type 3 500 ft x 24" 375 ft x 24" Type 1 Style B Class 1 Grade B 500 ft x 24" 500 ft x 6" 500 ft x 48" 500 ft x 12" Type 1 Style B Class 2 Grade B 375 ft x 12" 375 ft x 48" 375 ft x 6" 0.125" Thick Type 1 Style B Class 1 Grade B 625 ft x 48" 625 ft x 24" 625 ft x 12" 625 ft x 6" | 8135-01-087-3599 8135-01-087-3602 8135-01-057-3603 8135-01-057-3605 8135-01-057-3607 8135-01-088-3849 8135-01-087-3603 8135-01-088-3850 8135-01-088-3851 8135-01-088-3845 8135-01-088-3846 8135-01-088-3847 8135-01-088-3848 | BD (2 RO) BD (2 RO) BD BD RO BD (4 RO) BD (4 RO) BD BD (8 RO) BD BD (2 RO) BD BD (8 RO) | Used for cushioning and wrapping equipment. |
| Cushioning Material, Flexible, Closed Cell Plastic Film (Bubble Wrap) | PPP-C-795 0.5" thick 250 ft x 48" 250 ft x 24" 0.188" thick 500 ft x 12" 500 ft x 16" 500 ft x 24" 500 ft x 48" 45 ft x 48" 0.312" thick 375 ft x 24" | 8135-00-142-9004 8135-00-926-8991 8135-00-142-9005 8135-00-142-9008 8135-00-142-9016 8135-00-142-9021 8135-01-061-2262 8135-01-050-7970 | RO BD BD BD BD RO RO BD (2 RO) | For cushioning equipment and protection against shock. Provides limited protection against moisture. Seal with Pressure Sensitive Tape, SAE AMS-T-22085 (see Table 2-18). |

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Table 2-10. Packaging/Protective Materials (Cont.)

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--|---|--------------------------------------|--|---|
| ESD Fast Pack Container (Reusable Box With Cushioning) | PPP-B-1672 Type II Style D 6" x 5" x 2.5" 18" x 12" x 3.5" 18" x 12" x 2.5" 13" x 13" x 3.5" 10" x 10" x 3.5" 16" x 16" x 3.5" 24" x 16" x 3.5" 6" x 9" x 4.5" | 8115-00-787-2142 | EA | For storage/shipment of avionic/electronic equipment. |
| | | 8115-01-019-4084 | EA | |
| | | 8115-01-019-4085 | EA | |
| | | 8115-01-057-1243 | EA | |
| | | 8115-01-057-1244 | EA | |
| | | 8115-01-057-1245 | EA | |
| | | 8115-01-093-3730 | EA | |
| | | 8115-01-499-0898 | EA | |
| Polyethylene Foam | A-A-59135 Class A | 8135-01-059-4636 | RO(450 ft x 60", 0.125" thick) | For cushioning equipment and protection against shock on shelves, work benches, pallets. Use double layers for heavy equipment. |
| | | 8135-01-508-3702 | SH (0.188" thick) | |
| Polyethylene Foam | A-A-59136 Type 1 Class 1 Grade B | 8135-01-440-6560 | SH (120" x 36", 0.5" thick) | For cushioning equipment and protection against shock on shelves, work benches, pallets. Use double layers for heavy equipment. |
| Bags, Plastic (General Purpose) | MIL-DTL-81997 8" x 12" 12" x 12" 10" x 10" 10" x 12" | 8105-01-205-0207 | HD | For protection of avionic/electronic equipment. |
| | | 8105-01-197-2965 | EA | |
| | | 8105-01-197-2966 | EA | |
| | | 8105-01-197-7846 | EA | |
| Barrier Material, Flexible, Electrostatic Protective, Heat Sealable | MIL-PRF-81705 Type I 3' x 60' 3' x 150' Type II 48" x 48" 36" x 24" | 8135-00-092-3220 | RO | To provide ESD/EMI packaging protection for hardware and components. May be used for long or short term protection. Seal with heat seal. |
| | | 8135-01-185-6816 | RO | |
| | | 8135-01-158-7786 | EA (sheet) | |
| | | 8135-01-163-3486 | EA (sheet) | |
| Barrier Material, Water Vapor Proof, Greaseproof, Flexible, Heat Sealable | MIL-PRF-131 Class 1 | 8135-00-282-0565 8135-01-499-5302 | RO (36" x 200 YD) RO (72" x 200 YD) | For protecting miniature and microminiature circuit components, laminated circuit boards, and critical avionic components, against moisture and contamination. Heat sealable, protects material during transportation and storage under all weather conditions. |

Table 2-11. Paint Removers

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|---------------------|--|--|-------------------------------------|--|
| Epoxy Paint Remover | MIL-R-81294 Type I Class 1 (phenolic) | 8010-00-142-9273 8010-00-181-7568 8010-00-926-1488 8010-00-926-1489 | PT GL CN (5 GL) DR (55 GL) | Removal of paint finishes from metal surfaces. |
| | Class 2 (non-phenolic) | 8010-01-261-6067 | CN (5 GL) | |

Table 2-12. Paint Thinners

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|---|--|--|---|--|
| Thinner | A-A-3007 | 8010-01-441-5938 8010-01-441-5940 8010-01-441-5941 8010-01-441-5942 | QT GL CN (5 GL) DR (55 GL) | Use for thinning varnish. CAUTION: Do not use in lacquers. |
| Thinner, Aliphatic Polyurethane | MIL-T-81772 Type I (Polyurethane Thinner) | 8010-00-181-8080 8010-00-181-8079 8010-00-280-1751 | GL CN (5 GL) DR (55 GL) | Used for thinning MIL-PRF-85285 polyurethanes, MIL-PRF-22750 epoxy polyamide coatings, MIL-PRF-81352 acrylic nitrocellulose lacquers, and MIL-PRF-23377 epoxy polyamide primers. Do not use on polycarbonate or acrylic materials. |
| | Type II (Epoxy Thinner) | 8010-01-200-2637 8010-01-212-1704 8010-01-168-0684 | GL CN (5 GL) DR (55 GL) | |
| | Type III (Acrylic and Alkyd Thinner) | 8010-01-165-6760 8010-01-247-8880 | GL DR (55 GL) | |
| Thinner, Acrylic Nitrocellulose Lacquer | A-A-857 | 8010-00-160-5786 8010-00-165-5540 8010-00-160-5787 8010-00-160-5788 8010-00-160-5789 | PT QT GL CN (5 GL) DR (55 GL) | For thinning MIL-PRF-81352 lacquers, MIL-PRF-22750 epoxy topcoats, and MIL-PRF-23377 primer. |

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Table 2-13. Paints – Primers

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--|--|--|--|--|
| Primer, Epoxy, High Solids (340 g/l VOC max.) | MIL-P-23377 Type I (Yellow) Class C | 8010-01-441-6030 8010-01-387-1033 8010-01-387-1069 8010-01-316-2552 8010-01-416-6556 8010-01-416-6557 8010-01-441-5849 8010-01-495-8652 8010-01-528-4864 | EA (SEMPEN) KT (2 OZ) KT (6 OZ) KT (1 PT) KT (4 PT) KT (1 GL) KT (4 GL) EA (2 OZ BT) CS (6 Aerosol CN) | Primer coating used with polyurethane topcoat MIL-PRF-85285 and epoxy topcoat MIL-PRF-22750. Use MIL-PRF-23377 Type II as a primer for exterior surfaces requiring tactical or camouflage (flat) paint finish systems. Type II may also be used as an alternate for Type I materials. |
| | Type II (Green) Class C | 8010-01-441-6031 8010-01-439-0683 8010-01-437-8657 8010-01-417-1215 8010-01-312-1172 8010-01-495-8653 | EA (SEMPEN) KT (3 OZ) KT (4 PT) KT (1 GL) KT (2 GL) EA (2 OZ BT) | |
| Primer, Epoxy, Waterborne (340 g/l VOC max.) | MIL-PRF-85582 Type I Class C1 (Barium) Interior (light green) | 8010-01-472-4489 8010-01-441-6142 8010-01-218-0856 8010-01-218-7354 8010-01-496-0705 | KT (1 PT) KT (1 QT *) KT (1 QT**) KT (2 GL) EA (2 OZ BT) | Primer coating used with polyurethane topcoat MIL-PRF-85285 and epoxy topcoat MIL-PRF-22750. Use MIL-PRF-85582 Type II as a primer for exterior surfaces requiring tactical or camouflage (flat) paint finish systems. Type II may also be used as an alternate for Type I materials. NOTE: * after thinning with water (Dilute) ** before thinning with water (Concentrate) |
| | Type I Class C2 (Strontium) | 8010-01-441-6032 8010-01-467-0160 8010-01-292-8894 8010-01-292-8893 8010-01-496-0695 | EA (SEMPEN) KT (1 PT) KT (1 QT**) KT (2 GL) EA (2 OZ BT) | |
| | Type II Class C1 Exterior (dark green) | 8010-01-441-6141 8010-01-218-0858 8010-01-218-0857 8010-01-496-0706 | KT (1 QT *) KT (1 QT**) KT (2 GL) EA (2 OZ BT) | |
| | Type II Class C2 | 8010-01-441-6033 8010-01-266-6576 8010-01-294-7782 8010-01-294-7781 8010-01-496-0698 | EA (SEMPEN) KT (1 PT) KT (1 QT) KT (2 GL) EA (2 OZ BT) | |

Table 2-14. Paints – Topcoats

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use | |
|--|-------------------------|-----------------------|--|--|---|
| Topcoat, Epoxy, High-Solids (340 g/l VOC max.) | MIL-PRF-22750 | | | Use as topcoat on all avionic equipment. NOTE Mix only materials from the same kit (the brand and batch number on the pigmented compound can must be the same as those on the converter can.) | |
| | GLOSS | COLOR | | | |
| | Clear | ----- | 8010-01-313-8702 8010-01-419-1143 8010-01-419-1141 8010-01-313-8703 | | KT (1 QT) KT (2 QT) KT (4 QT) KT (2 GL) |
| | Gray, Engine | 16081 | 8010-01-419-1167 8010-01-441-5898 8010-01-419-1166 | | KT (2 QT) KT (1 GL) KT (2 GL) |
| | Gray, Gull | 16440 | 8010-01-441-5899 8010-01-419-1163 | | KT (1 QT) KT (2 QT) |
| | Gray, Light | 16473 | 8010-01-414-8423 | | KT (2 QT) |
| | Black | 17038 | 8010-01-441-5900 8010-01-419-1154 8010-01-419-1165 | | KT (1 QT) KT (2 QT) KT (4 QT) |
| | White | 17875 | 8010-01-414-8439 | | KT (2 QT) |
| | White, Insignia | 17925 | 8010-01-441-5905 8010-01-419-1153 8010-01-419-1164 8010-01-313-8701 8010-01-419-1159 | | KT (1 QT) KT (2 QT) KT (4 QT) KT (2 GL) KT (4 GL) |
| | SEMI GLOSS | COLOR | | | |
| | Gray | 26231 | 8010-01-414-8428 | | KT (2 QT) |
| | Gray | 26307 | 8010-01-441-5916 8010-01-414-8429 | | KT (1 QT) KT (2 QT) |
| | Gray, Light | 26492 | 8010-01-414-8445 | | KT (2 GL) |
| | FLAT | COLOR | | | |
| | Gray, Dark | 36081 | 8010-01-441-6080 | | KT (4 QT) |
| | Gray | 36099 | 8010-01-414-8434 | | KT (2 QT) |
| | Gray | 36231 | 8010-01-441-5921 8010-01-414-8446 8010-01-419-1150 | | KT (1 QT) KT (2 QT) KT (1 GL) |
| | Gray | 36320 | 8010-01-441-5924 8010-01-419-1155 8010-01-419-1140 | | KT (1 QT) KT (2 QT) KT (1 GL) |
| | Gray | 36375 | 8010-01-441-5930 8010-01-419-1152 8010-01-419-1146 | | KT (1 QT) KT (2 QT) KT (1 GL) |
| | Gray, Gull | 36440 | 8010-01-414-8447 | | KT (4 QT) |
| | Gray, Light | 36495 | 8010-01-441-5931 8010-01-419-1149 8010-01-419-1144 | | KT (1 QT) KT (2 QT) KT (1 GL) |
| | Black | 37038 | 8010-01-441-5932 8010-01-419-1142 8010-01-414-8443 | | KT (1 QT) KT (2 QT) KT (1 GL) |
| | Insignia White | 37875 | 8010-01-414-8435 | | KT (2 QT) |

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Table 2-14. Paints – Topcoats (Cont.)

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use | |
|---|---------------------------|-----------------------|--|--|---|
| Topcoat, Polyurethane, Aircraft Application (420 g/l VOC max.) | MIL-PRF-85285 Type I | | | Finishing or touch-up of aircraft polyurethane topcoat paint systems. Suitable for use over primers (TT-P-2760, MIL-PRF-23377, and MIL-PRF-85582). | |
| | GLOSS Clear | COLOR ----- | 8010-01-441-6017 | | EA (SEMPEN) |
| | Gray, Engine | 16081 | 8010-01-495-3853 8010-01-329-6753 8010-01-329-6302 8010-01-329-6303 | | EA (2 OZ BT) KT (1 PT) KT (2 QT) KT (2 GL) |
| | Gray | 16251 | 8010-01-495-3854 | | EA (2 OZ BT) |
| | Gray, Light | 16440 | 8010-01-459-9699 8010-01-495-3855 8010-01-285-3045 8010-01-285-3046 8010-01-265-9142 8010-01-528-4842 | | EA (SEMPEN) EA (2 OZ BT) KT (1 PT) KT (2 QT) KT (2 GL) CS (6 Aerosol CN) |
| | Gray, Light | 16473 | 8010-01-441-6020 8010-01-495-3856 8010-01-336-3033 8010-01-336-3032 8010-01-528-4844 | | EA (SEMPEN) EA (2 OZ BT) KT (2 QT) KT (2 GL) CS (6 Aerosol CN) |
| | Black | 17038 | 8010-01-441-6026 8010-01-495-3860 8010-01-285-3047 8010-01-285-3048 8010-01-285-3033 8010-01-528-4847 | | EA (SEMPEN) EA (2 OZ BT) KT (1 PT) KT (2 QT) KT (2 GL) CS (6 Aerosol CN) |
| | White, Insignia | 17875 | 8010-01-468-7513 | | KT (1 GL) |
| | White, Insignia | 17925 | 8010-01-441-6029 8010-01-495-3863 8010-01-285-3034 8010-01-285-3035 8010-01-265-9143 8010-01-528-4848 | | EA (SEMPEN) EA (2 OZ BT) KT (1 PT) KT (2 QT) KT (2 GL) CS (6 Aerosol CN) |
| | SEMI GLOSS Gray | COLOR 26231 | 8010-01-441-6007 8010-01-285-7285 8010-01-285-2489 | | EA (SEMPEN) KT (2 QT) KT (2 GL) |
| | Gray | 26250 | 8010-01-441-6035 | | EA (SEMPEN) |
| | Gray | 26251 | 8010-01-441-6034 | | EA (SEMPEN) |
| | FLAT Gray, Dark | COLOR 36081 | 8010-01-495-3923 8010-01-397-3974 8010-01-397-3975 | | EA (2 OZ BT) KT (2 QT) KT (2 GL) |
| | Gray | 36118 | 8010-01-441-6021 8010-01-495-3927 8010-01-305-5554 8010-01-305-5550 8010-01-305-5551 8010-01-528-4851 | | EA (SEMPEN) EA (2 OZ BT) KT (1 PT) KT (2 QT) KT (2 GL) CS (6 Aerosol CN) |
| | Gray | 36173 | 8010-01-441-6022 8010-01-348-0385 8010-01-345-6535 | | EA (SEMPEN) KT (2 QT) KT (2 GL) |
| | Gray-Blue | 36176 | 8010-01-441-6012 8010-01-368-7893 8010-01-315-5674 | | EA (SEMPEN) KT (2 QT) KT (2 GL) |

Table 2-14. Paints – Topcoats (Cont.)

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--------------|---|--|---|---|
| (Cont.) | MIL-PRF-85285 Type I (Cont.) | | | |
| | FLAT COLOR Gray, Medium 36231 | 8010-01-441-6027 8010-01-495-3931 8010-01-329-6756 8010-01-329-6755 8010-01-466-4323 8010-01-329-6752 | EA (SEMPEN) EA (2 OZ BT) KT (1 PT) KT (2 QT) KT (1 GL) KT (2 GL) | |
| | Gray 36251 | 8010-01-441-6013 8010-01-353-6551 | EA (SEMPEN) KT (2 GL) | |
| | Gray 36270 | 8010-01-441-6023 8010-01-424-3651 8010-01-293-3016 8010-01-424-3648 8010-01-344-3218 | EA (SEMPEN) KT (1 PT) KT (2 QT) KT (1 GL) KT (2 GL) | |
| | Gray 36293 | 8010-01-441-6014 8010-01-380-3284 8010-01-380-3249 | EA (SEMPEN) KT (2 QT) KT (2 GL) | |
| | Gray, Medium 36320 | 8010-01-441-6024 8010-01-495-3935 8010-01-285-3556 8010-01-265-9144 8010-01-265-9152 8010-01-528-4858 | EA (SEMPEN) EA (2 OZ BT) KT (1 PT) KT (2 QT) KT (2 GL) CS (6 Aerosol CN) | |
| | Gray, Medium 36375 | 8010-01-441-6025 8010-01-495-3936 8010-01-285-7287 8010-01-265-9145 8010-01-265-9151 8010-01-528-4860 | EA (SEMPEN) EA (2 OZ BT) KT (1 PT) KT (2 QT) KT (2 GL) CS (6 Aerosol CN) | |
| | Gray, Light 36440 | 8010-01-495-3938 8010-01-285-3551 8010-01-265-9138 8010-01-466-4322 8010-01-265-9150 | EA (2 OZ BT) KT (1 PT) KT (2 QT) KT (1 GL) KT (2 GL) | |
| | Gray, Aircraft 36495 | 8010-01-441-6015 8010-01-495-3940 8010-01-285-3552 8010-01-265-9137 8010-01-265-9149 | EA (SEMPEN) EA (2 OZ BT) KT (1 PT) KT (2 QT) KT (2 GL) | |
| | Black 37038 | 8010-01-441-6028 8010-01-495-3946 8010-01-285-3553 8010-01-397-3980 8010-01-285-3554 8010-01-285-3555 8010-01-397-3983 8010-01-528-4866 | EA (SEMPEN) EA (2 OZ BT) KT (1 PT) KT (2 QT) KT (2 QT) KT (2 GL) KT (2 GL) CS (6 Aerosol CN) | Gunship Deviation, Low IR Gunship Deviation, Low IR Gunship Deviation, Low IR |
| | White, Insignia 37875 | 8010-01-441-6016 | EA (SEMPEN) | |
| | White 37886 | 8010-01-459-9697 | EA (SEMPEN) | |
| | White, Insignia 37925 | 8010-01-495-3952 | EA (2 OZ BT) | |

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Table 2-14. Paints – Topcoats (Cont.)

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use | |
|---|--|-----------------------|--|---|--|
| Topcoat, Aircraft Touch-Up (340 g/l VOC max.) | MIL-PRF-81352 Type I (Acrylic base) | | | One-component topcoat for general touch-up, temporary markings, cockpit instrument control box, and avionic equipment markings. In regulated VOC areas, use only coatings conforming to TT-P-2756, MIL-PRF-22750, or MIL-PRF-85285. | |
| | GLOSS | COLOR | | | |
| | Clear | ----- | 8010-00-490-7651 | | CN (1 GL) |
| | Brown | 10049 | 8010-00-935-7061 | | CN (1 QT) |
| | Red | 11105 | 8010-01-029-6349 | | CN (1 QT) |
| | Red, Insignia | 11136 | 8010-00-935-7064 8010-00-935-7063 8010-00-935-7062 | | CN (16 OZ Aerosol) CN (1 QT) CN (1 GL) |
| | Orange, International | 12197 | 8010-00-935-7066 8010-00-935-7065 | | CN (1 QT) CN (1 GL) |
| | Orange-Yellow | 13538 | 8010-00-935-7068 8010-00-935-7067 | | CN (1 QT) CN (1 GL) |
| | Green, Olive Drab | 14084 | 8010-00-935-7069 | | CN (1 QT) |
| | Green, Olive Drab | 14097 | 8010-00-133-5901 | | CN (16 OZ Aerosol) |
| | Green, Light | 14187 | 8010-00-935-7071 8010-00-935-7070 | | CN (1 QT) CN (1 GL) |
| | Blue, Dark | 15044 | 8010-00-935-7072 | | CN (1 GL) |
| | Blue | 15045 | 8010-00-490-7649 | | CN (1 GL) |
| | Blue | 15102 | 8010-00-935-7073 | | CN (1 GL) |
| | Gray, Engine | 16081 | 8010-00-935-7075 | | CN (16 OZ Aerosol) |
| | Gray | 16440 | 8010-00-181-7791 8010-01-088-0104 | | CN (16 OZ Aerosol) CN (1 QT) |
| | Gray, Aircraft | 16473 | 8010-00-935-7076 | | CN (1 GL) |
| | Black | 17038 | 8010-00-935-7078 8010-00-935-7077 | | CN (1 QT) CN (1 GL) |
| | White, Insignia | 17875 | 8010-00-935-6609 8010-00-935-6608 | | CN (16 OZ Aerosol) CN (1 GL) |
| | SEMI-GLOSS | COLOR | | | |
| | Gray | 26373 | 8010-01-303-0237 | | CN (1 GL) |
| | Gray, Eggshell | 26622 | 8010-01-466-1658 | | CN (16 OZ Aerosol) |
| | Black | 27038 | 8010-00-104-7711 | | CN (1 GL) |
| | White | 27875 | 8010-00-104-7745 | | CN (1 GL) |
| | FLAT | COLOR | | | |
| | Brown | 30219 | 8000-00-066-9440 | | CN (1 GL) |
| | Red | 31136 | 8010-00-066-9431 | | CN (1 GL) |
| | Beige | 33531 | 8010-01-306-6677 | | CN (1 GL) |
| | Orange-Yellow | 33538 | 8010-01-157-2292 | | CN (1 GL) |
| | Green, Olive Drab | 33070 | 8010-00-490-7650 | | CN (1 GL) |
| | Green, Olive Drab | 34079 | 8010-00-068-8779 | | CN (1 GL) |
| | Green, Olive Drab | 34088 | 8010-00-144-9998 | | CN (1 QT) |

Table 2-14. Paints – Topcoats (Cont.)

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--------------|---------------------------------|-----------------------|--------------------------------------|---------------------------------|
| (Cont.) | MIL-PRF-81352 Type I (Cont.) | | | |
| | FLAT | COLOR | | |
| | Green | 34102 | 8010-00-068-8783 | CN (1 GL) |
| | Blue, Insignia | 35044 | 8010-00-066-9430 | CN (1 GL) |
| | Gray-Blue | 35237 | 8010-01-270-3636 | CN (1 GL) |
| | Gray, Dark | 36081 | 8010-01-270-3631 | CN (1 GL) |
| | Gray, Dark | 36118 | 8010-01-270-3632 | CN (1 GL) |
| | Gray | 36231 | 8010-01-124-5048 8010-01-150-9907 | CN (16 OZ Aerosol) CN (1 GL) |
| | Gray, Light | 36270 | 8010-01-270-3633 | CN (1 GL) |
| | Gray, Gull | 36440 | 8010-00-935-7085 8010-00-935-7060 | CN (16 OZ Aerosol) CN (1 GL) |
| | Gray | 36118 | 8010-01-270-3632 | CN (1 GL) |
| | Gray | 36320 | 8010-01-270-3634 | CN (1 GL) |
| | Gray | 36492 | 8010-01-270-3635 | CN (1 GL) |
| | Gray | 36622 | 8010-00-068-8786 | CN (1 GL) |
| | White, Insignia | 37875 | 8010-00-068-8778 | CN (1 GL) |
| | White | 37886 | 8010-01-303-0236 | CN (1 GL) |
| | Black | 37038 | 8010-00-935-7079 8010-00-830-1822 | CN (16 OZ Aerosol) CN (1 GL) |

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Table 2-14. Paints – Topcoats (Cont.)

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--------------|---|--|--|--|
| (Cont.) | MIL-PRF-81352 Type III (Polyurethane base) GLOSS COLOR Red 11136 Orange, 12197 International Orange-Yellow 13538 Blue, Insignia 15044 Gray, Dark 16081 Gray 16251 Gray, Light 16440 Gray, Light 16473 Black 17038 White, Insignia 17925 FLAT COLOR Blue-Gray 35237 Gray, Dark 36081 Gray, Dark 36118 Gray 36231 Gray, Medium 36320 Gray, Medium 36375 Gray, Light 36440 Gray, Aircraft 36495 Black 37038 White, Insignia 37925 | 8010-01-495-4140 8010-01-495-4141 8010-01-495-4144 8010-01-495-4155 8010-01-495-4163 8010-01-495-4164 8010-01-495-4165 8010-01-495-4166 8010-01-495-4168 8010-01-495-4172 8010-01-495-4226 8010-01-495-4228 8010-01-495-4234 8010-01-495-4238 8010-01-495-4244 8010-01-495-4246 8010-01-495-4248 8010-01-495-4249 8010-01-495-4252 8010-01-495-4257 | EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) EA (2 OZ BT) | One component topcoat for small, spot paint system repairs. |

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Table 2-15. Potting Compounds

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|---|-------------------------------------|--------------------------------------|--|---|
| Molding and Potting Compound, Electrical Insulating | MIL-M-24041 Category A Type I | 8030-00-862-5159 | KT (1 QT) | Protection of electrical connectors from moisture, contamination, and aircraft fluids. |
| | Type II | 5970-01-327-6282 5970-01-382-2409 | KT 1(2 OZ) KT (12 OZ frozen) | |
| | Category B Type I | | | |
| | Clear | 5970-01-158-6537 | KT (1 PT) | |
| | Black | 5970-01-276-0966 | KT (1 PT) | |
| | Black | 5970-01-462-0165 | KT (2 KT) | |
| | Type II | | | |
| | Amber/Black Clear | 5970-01-037-5044 5970-01-328-4893 | CA (2.5 OZ cartridge) CA (6 OZ cartridge) | |
| Adhesive-Sealant, Silicone, RTV, Non-Corrosive, Non-fuel Resistant, Non-corrosive | MIL-A-46146 Gray (Dow 3145) | 8040-00-145-0020 8040-00-938-1535 | TU (3 oz) KT (includes primer) | 3145 RTV: For use on sensitive metals and avionic equipment. Sealing areas where temperature is expected to be between 250° F (121° C) and 350° C (177° C). |
| | Clear (Dow 3145) | 5970-01-082-9138 | CA (10.3 oz cartridge) | |

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Table 2-16. Sealants

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--|---|---|---------------------------------------|--|
| Adhesive-Sealant, Silicone, RTV, Non-fuel Resistant, Non-corrosive | MIL-A-46146 Type I (Paste) | COLOR | | |
| | | Clear | 8040-01-394-3735 | TU (3 OZ) |
| | | White | 8040-01-331-7133 | TU (3 OZ) |
| | | White | 8040-00-118-2695 | KT (3 OZ) |
| | | Gray | 8040-00-145-0020 | TU (3 OZ) |
| | Type II (Liquid, self-leveling) | Clear | 8040-01-331-7127 | TU (3 OZ) |
| | | Clear | 8040-01-441-0671 | KT (3 OZ) |
| | | Gray | 8040-01-375-4805 | TU (3 OZ) |
| | Type III (High strength) | Clear | 8040-00-117-8510 | TU (3 OZ) |
| | | White | 8040-01-157-9469 | TU (3 OZ) |
| | | Gray | 8040-01-450-6545 | TU (3 OZ) |
| | | Gray | 8040-01-275-5052 | KT (3 OZ) |
| | Red | 8040-00-902-3871 | KT (3 OZ) | |
| Sealing Compound, Synthetic Rubber | MIL-PRF-8516 Type II Class 1 (24 hr cure) | | | For sealing low voltage electrical connectors, wiring and other electrical apparatus against moisture and corrosion where temperature does not exceed 200° F (93° C). Good resistance to gasolines, oils, grease, water and humidity. CAUTION Not authorized for use in engine bays, keel areas or areas adjacent to bleed air ducts. |
| | | 8030-00-881-2618 | CA (2 OZ) | |
| | | 8030-01-371-4022 | CA (5.75 OZ premixed frozen, 36/case) | |
| | Class 2 (48 hr cure) | | | |
| | | 8030-00-174-2597 | KT (24 OZ) | |
| | | 8030-00-174-9035 | KT (96 OZ) | |
| | | 8030-00-297-6677 | KT (6 OZ) | |
| | Class 3 (72 hr cure) | | | |
| | | 8030-00-515-2271 | KT (48 OZ) | |
| | 8030-00-684-8790 | KT (24 OZ) | | |
| Sealing Compound | SAE-AMS-S-83318 (supersedes MIL-S-83318) | 8030-00474-1419 | CA (6 OZ) | A quick cure sealant that contains corrosion inhibitor. For use in sealing gaps, or seams during extreme cold weather activities. |
| Sealing Compound Silicone Rubber, Electrically Conductive and Corrosion Inhibiting For use from -67 to +500° F (-55 to +260° C) | SAE-AMS 3262 Cho-Bond 1075 Sealant | 8040-01-342-1510 | TU (2.5 OZ) | To bond EMI gaskets to a metal surface, to bond and seal metal mating surfaces, and to fillet seal metal lap and butt joints while providing electrical conductivity and preventing galvanic corrosion in each case for EMI suppression applications. |
| | Cho-Bond 1086 Primer | 8040-01-188-5038 | Pint (PT) | |
| | PR-2225, B-1 Sealant | None Available from PRC-DeSoto International, Inc. | SemKit Cart, 10 OZ | |

Table 2-16. Sealants (Cont.)

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|---|---|-----------------------|---------------------|--|
| Sealing Compound | MIL-PRF-81733 Type I (Brush or Dip Application) I-1/2 | 8030-00-008-7207 | KT (12 OZ, 2 part) | Sealing of gaps, seams and faying surfaces on high performance aircraft. For use up to 250° F (121° C) |
| | | 8030-00-009-5022 | KT (24 OZ, 2 part) | |
| | | 8030-01-372-2984 | OZ (2.5 OZ, frozen) | |
| | | 8030-01-372-2985 | OZ (6 OZ, frozen) | |
| | I-2 | 8030-00-008-7196 | KT (12 OZ, 2 part) | |
| | | 8030-00-762-8807 | KT (24 OZ, 2 part) | |
| | | 8030-01-363-6501 | OZ (6 OZ, frozen) | |
| | | 8030-01-361-1814 | CA (6 OZ SEMKIT) | |
| | Type II (Gun or Spatula Application) II-1/2 | 8030-00-008-7198 | KT (12 OZ, 2 part) | |
| | | 8030-00-470-9154 | KT (24 OZ, 2 part) | |
| | | 8030-01-387-0244 | OZ (2.5 OZ, frozen) | |
| | | 8030-01-387-1017 | OZ (6 OZ, frozen) | |
| | | 8030-01-184-0328 | CA (2.5 OZ SEMKIT) | |
| | | 8030-01-184-0329 | CA (6 OZ SEMKIT) | |
| | II-2 | 8030-01-124-7622 | KT (6 OZ, 2 part) | |
| | | 8030-00-009-5023 | KT (12 OZ, 2 part) | |
| | | 8030-00-008-7200 | KT (24 OZ, 2 part) | |
| | | 8030-01-333-3954 | OZ (2.5 OZ, frozen) | |
| | | 8030-01-333-4821 | OZ (6 OZ, frozen) | |
| | | 8030-01-196-1958 | CA (2.5 OZ SEMKIT) | |
| | II-4 | 8030-00-008-7201 | KT (12 OZ, 2 part) | |
| | | 8030-00-008-7202 | KT (24 OZ, 2 part) | |
| Type III (Spray gun application) III-1 | 8030-00-008-7203 | KT (12 OZ, 2 part) | | |
| | 8030-00-008-7204 | KT (24 OZ, 2 part) | | |
| | 8030-00-871-8489 | KT (96 OZ, 2 part) | | |
| Type IV (Extended assembly time) IV-12 | 8030-01-395-2726 | KT (12 OZ, 2 part) | | |
| | 8030-00-151-9973 | KT (96 OZ, 2 part) | | |
| IV-24 | 8030-01-395-2728 | KT (12 OZ, 2 part) | | |
| | 8030-00-008-7206 | KT (24 OZ, 2 part) | | |
| | 8030-01-363-6503 | OZ (6 OZ, frozen) | | |
| IV-48 | 8030-01-192-2807 | KT (6 OZ, 2 part) | | |
| | 8030-01-395-2729 | KT (12 OZ, 2 part) | | |
| | 8030-00-028-8495 | KT (24 OZ, 2 part) | | |
| | 8030-01-363-6504 | OZ (6 OZ, frozen) | | |

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Table 2-17. Solvents

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--------------------|---------------------------------|--|---|--|
| Distilled Water | ACS grade | 6810-00-107-1510 | DR (5 GL) | Used for cleaning in critical soldering operations. |
| | Reagent Grade | 6810-00-682-6867 6550-01-310-1677 6550-01-312-7739 6810-01-327-6267 | BX (6, 1 GL) PG (4, 1 GL) BX (20 L) GL | |
| Degreasing Solvent | MIL-PRF-680 Type III | 6850-01-474-2318 6850-01-474-2320 6850-01-474-2321 | GL BX (2, 2.5 GL) DR (55 GL) | General purpose cleaning solvent for removing grease, oil, and preservation compounds. |
| Cleaning Solvent | Envirosolv 654CR | 6850-01-388-9732 | CN (5 GL) | For use in ultrasonic cleaning or as a wipe solvent. |
| Isopropyl Alcohol | TT-I-735 Grade A (technical) | 6810-00-753-4993 6810-00-983-8551 6810-00-286-5435 | CN (8 OZ) QT GL | Used for cleaning surfaces prior to painting or sealing. |
| | ACS Grade (reagent) | 6810-00-183-4393 6810-00-822-7637 6810-00-227-0410 | PT QT GL | |

Table 2-18. Tapes

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|---|--|--|---|--|
| Insulating Tape, Electrical | ASTM-D2686 | 5970-01-097-3767 | RO | |
| Paint Masking Tape, Crepe Paper Treated (Natural) | SAE-AMS-T-21595 Type I (3M No. 231) | 7510-01-371-3239 7510-01-371-3234 7510-01-371-3238 7510-01-371-3236 7510-01-371-3237 | RO (1/2" X 60 YD) RO (3/4" X 60 YD) RO (1" X 60 YD) RO (1.5" X 60 YD) RO (2" X 60 YD) | For masking of undamaged areas during paint touch-up on equipment cases, covers, mounting rack. For masking electrical and electronic components during replacement of conformal coating and varnishing. CAUTION Only to be used if components are sufficiently rigid to withstand application and removal of tape. |
| Pressure Sensitive Tape | A-A-59298 | 7510-01-060-8518 7510-01-497-3708 | RO (natural, 1/2" X 72 YD) RO (yellow, 1/8" X 72 YD) | For isolating dissimilar metals where galvanic action may take place in avionic equipment. |
| Aircraft Preservation and Sealing Tape | SAE-AMS-T-22085 Type II (3M No. 481) | 7510-00-852-8179 7510-00-852-8180 7510-00-885-3510 7510-00-926-8939 | RO (1" X 36 YD) RO (2" X 36 YD) RO (2.5" X 36 YD) RO (3" X 36 YD) | For holding barrier material in place during shipping. Treated, non-corrosive, non-fungus supporting. For use on equipment without overcoatings. |
| Aluminum Foil Tape, Chemical and Water Resistant | SAE-AMS-T-23397 Type II (3M No. 425) | 7510-00-806-4669 7510-00-654-9811 7510-00-720-7516 7510-00-684-8803 | RO (1/2" X 60 YD) RO (3/4" X 60 YD) RO (1" X 60 YD) RO (2" X 60 YD) | For masking during paint stripping operations on avionic equipment and airframe structures. |

Table 2-19. Tracers/Indicators

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|-------------------------------------|---|-----------------------|---------------------|--|
| Desiccant | MIL-D-3464 Type II 16 unit bag 8 unit bag 4 unit bag 2 unit bag 1 unit bag 1 unit bag 0.5 unit bag 0.3 unit bag 0.16 unit bag | 6850-00-935-9793 | DR (120 bags) | Absorbs moisture, lowers relative humidity when sealed in container. |
| | | 6850-00-935-9794 | DR (240 bags) | |
| | | 6850-00-935-9795 | DR (400 bags) | |
| | | 6850-00-935-9878 | CN (130 bags) | |
| | | 6850-00-935-9796 | DR (1000 bags) | |
| | | 6850-00-935-9797 | CN (250 bags) | |
| | | 6850-00-935-9798 | CN (450 bags) | |
| | | 6850-00-935-9799 | CN (650 bags) | |
| | | 6850-00-935-9800 | CN (1200 bags) | |
| Humidity Indicator | MIL-I-8835 Style A1 3" x 2" 1.625" x 1" | 6685-00-752-8240 | CN (125/can) | Used to determine that desiccant within a package is sufficiently active to maintain a relative humidity below that at which corrosion will occur. |
| | | 6685-01-008-7563 | EA | |
| Silver Nitrate | | 6505-00-140-5000 | BT (1 oz (28.35 g)) | Identification of magnesium metal. |
| | | 6810-00-233-0124 | BT (500 g) | |
| | | 6810-00-233-0126 | BT (4 oz (100 g)) | |
| | | 6810-00-243-4434 | BT (25 g) | |
| | | 6810-01-461-4501 | EA (25 g) | |
| Silver Nitrate Solution | | 6810-00-282-1218 | BT (500 ml) | Identification of magnesium metal. |
| | | 6810-01-491-6715 | BT (0.5%, 960 ml) | |
| Indicator, Bromothymol Blue Reagent | A-A-59282 Reagent Crystal Powder | 6810-00-019-0040 | BT (10 g) | For detecting reverse voltage damage to we-slug tantalum capacitors. (Dissolve 1/4 teaspoon of indicator in three 8 oz cups of deionized or distilled water to which eight drops of ammonium hydroxide (A-A-59370) has been added.) Also used as a NiCd electrolyte indicator. |
| | | 6810-00-262-8581 | BT (1 g) | |
| | Premade solutions | 6810-00-281-4270 | BT (500 ml) | |
| | | 6810-00-281-4271 | EA (4 OZ) | |
| | | 6810-00-031-4757 | BT (16 OZ) | |
| Litmus Paper | Blue Litmus Paper | 6640-00-290-0146 | HD (100) | Blue: Color change to red indicates acid present (lead acid batteries). Red: Color change to blue indicates alkali (base) present (NiCd batteries). |
| | Red Litmus Paper | 6640-00-290-0147 | HD (100) | |

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CHAPTER 3 EQUIPMENT FOR CORROSION CONTROL

3-1. INTRODUCTION. The equipment referenced in this chapter is approved for use, but approval should not be misconstrued as an endorsement of any manufacturer's product(s). If an equivalent for an application/procedure is not referenced herein, contact your service representative for approval: Air Force Corrosion Prevention and Control Office, AFRL/MLS-OLR, Robins AFB, GA.

3-2. ARRANGEMENT OF CHAPTER. Chapter 3 lists equipment used for avionics cleaning and corrosion control. The column headings list nomenclature, specifications/part numbers, national stock numbers (NSNs), unit of issue (U/I), and intended uses. Items are located by function in the following tables:

- a. Table 3-1. Cleaning Accessories.
- b. Table 3-2. Corrosion Removal Accessories.
- c. Table 3-3. Conversion Coating Accessories.
- d. Table 3-4. Painting Accessories.

e. Table 3-5. Safety Accessories.

f. Table 3-6. Sealing Accessories.

3-3. The unit of issue abbreviations are shown and explained as follows:

| CODE | UNIT | CODE | UNIT | CODE | UNIT |
|------|-----------|------|----------|------|---------|
| BG | Bag | DZ | Dozen | OZ | Ounce |
| BO | Bolt | EA | Each | PG | Package |
| BT | Bottle | FT | Foot | PR | Pair |
| BX | Box | GL | Gallon | PT | Pint |
| CA | Cartridge | GR | Gross | QT | Quart |
| CB | Carboy | JR | Jar | RO | Roll |
| CN | Can | KT | Kit | SE | Set |
| CO | Container | LB | Pound | SH | Sheet |
| CS | Case | LG | Length | TU | Tube |
| DR | Drum | MX | Thousand | YD | Yard |

Table 3-1. Cleaning Equipment

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--|---|--|--------------------|--|
| Cleaning and Scouring Pad, Non-Metallic | A-A-3100 Type I (3/8" thick) Type II (1" thick) | 7920-00-151-6120 7920-00-171-1534 | PG (10) PG (10) | Replacement sponge (12" L x 6" W) for washing kit No. 251M. Hand held or attach to the wash applicator. |
| Scrub Brush, Aircraft Cleaning (Nylon Bristle) | MIL-B-23958 Type I Style 1, Round Block Style 2, 6" Rectangular Block Style 3, 12" Rectangular Block | 7920-00-054-7768 7920-00-051-4386 7920-00-051-4383 | EA EA EA | Application of cleaner and scrubbing of aircraft surfaces and avionic equipment housings for hard to remove soils. |
| Toothbrush, Soft Bristle, Straight Line Design | A-A-59 (Children's) A-A-123 (Adult's) | 8530-01-293-1388 8530-01-293-1387 | DZ (30) DZ (30) | Cleaning intricate parts. Before using, insure chemicals will not dissolve or soften brush. |
| Pump, Backpack (5 gals.) | P/N: 5100-254B | 4320-00-289-8912 | EA | Localized cleaning and rinsing of avionic surfaces. |
| Electric Heater Gun | A-A-59435 Type I (350 - 500° F) Type II (500 - 750° F) Type III (750 - 1000° F) | 4940-00-357-1369 4940-01-028-7493 4940-01-391-7046 | EA EA EA | To thaw or dry equipment/components or shrink insulating tubing associated with electrical applications. WARNING Not explosion proof. Not authorized for use on aircraft. |
| Mini-Vacuum Cleaner, Pneumatic, Venturi-Type | P/N: AT560 | 5130-01-368-5861 | EA | Removing dirt and debris. |
| Vacuum Cleaner with attachments | Pneumatic | 7910-00-807-3704 | EA | Removing dirt and debris. |
| Bottle, Adjustable, Sprayer Nozzle (16 oz.) | A-A-2806 | 8125-00-488-7952 | EA | Spraying of cleaning compounds. |
| Brush, Acid | A-A-289 | 7920-00-514-2417 | GR | For cleaning connectors, circuit boards, and small components. |
| Brush, Aircraft Cleaning, Tampico Fiber | A-A-2074 | 7920-00-282-2470 | EA | For removal of corrosion products and surface contamination from avionic equipment housings, chassis and covers. |
| Brush, Typewriter | A-A-3077 Cone-shaped Toothbrush-shaped Paintbrush-shaped | 7510-00-550-8444 7510-00-550-8446 7510-00-550-8845 | EA EA EA | For scrubbing dirt, soil, and corrosive products from circuit components. |
| Booth, Cleaning, Water Base Solvent Spray | MIL-PRF-83831 | 4940-00-422-1774 | EA | For the removal of dirt, dust, salt spray deposits and light corrosion products. For pre-cleaning of components prior to ultrasonic detergent cleaning. For cleaning and rinsing components after ultrasonic detergent cleaning, abrasive corrosion removal and hand cleaning. |
| Heat Lamp | | 6240-01-349-4407 | EA | Used for drying during Track 8 cleaning procedures. |

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Table 3-1. Cleaning Equipment (Cont.)

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|---|-------------------------|--|---------------|---|
| Oven, Forced Air | | 6640-00-086-5371 6640-00-165-5751 6640-00-216-3465 6640-00-420-2650 6640-00-471-5678 6640-00-524-6150 6640-00-526-7364 6640-00-774-1214 6640-01-025-8802 6640-01-036-7645 6640-01-037-4574 6640-01-080-6852 6640-01-113-6711 6640-01-189-1614 6640-01-193-8978 6640-01-251-7088 6640-01-254-8626 6640-01-283-4503 | EA | For drying avionics equipment and components. |
| Oven, Circulating Air, (Gravity Drying) | | 6640-00-022-8349 6640-00-061-2796 6640-00-108-1738 6640-00-110-9013 6640-00-119-9372 6640-00-127-5747 6640-00-165-5749 6640-00-359-9880 6640-00-431-7593 6640-00-435-7320 6640-00-501-5489 6640-00-501-5496 6640-00-501-5499 6640-00-526-7361 6640-00-531-4358 6640-00-863-6766 6640-00-889-6914 6640-00-890-9229 6640-00-926-7346 6640-00-977-3341 6640-01-037-4575 6640-01-050-3628 6640-01-052-8326 6640-01-052-8465 6640-01-069-6322 6640-01-101-3810 6640-01-116-1036 6640-01-135-1961 6640-01-296-2142 | EA | For drying avionics equipment and components. |
| Oven, Circulating Air, (Natural Drying) | | 4430-00-142-2336 4430-00-187-7717 4430-00-192-0779 4430-00-344-1535 4430-00-349-5066 4430-00-596-3314 4430-00-622-6996 4430-00-731-2773 4430-00-831-4172 4430-00-973-2707 4430-01-061-5219 4430-01-062-0178 4430-01-065-2184 4430-01-082-5531 4430-01-111-0972 4430-01-125-5286 4430-01-164-3565 4430-01-203-4327 4430-01-262-7709 | EA | For drying avionics equipment and components. |
| Oven, Vacuum | | 6640-00-018-4185 6640-00-165-5751 6640-00-184-3671 6640-00-435-7385 6640-00-532-7524 6640-01-007-9191 6640-01-008-3476 6640-01-015-5049 6640-01-018-8565 6640-01-023-2809 6640-01-023-5723 6640-01-031-7053 6640-01-083-1723 6640-01-096-9497 6640-01-302-1025 6640-01-387-2604 | EA | For drying avionics equipment and components. |

Table 3-2. Conversion Coating Equipment

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|---|--------------------------------|-----------------------|---------------|--|
| Acid Swabbing Brush, Metal Handle (Horsehair bristle) | A-A-289 (5 3/4" L x 3/8" W) | 7920-00-514-2417 | GR | Disposable brush for applying chemical conversion coatings and touching up paints. |
| Sponge Stick Moistener | A-A-137 (supercedes GG-M-571) | 7520-00-241-2981 | EA | Application of chemical conversion coating materials. |
| Wash Bottle, Plastic (250 ml) | | 6640-00-299-8493 | EA | Use for rinsing chemically treated surfaces. |

Table 3-3. Corrosion Removal Equipment

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|---|---|---|--|---|
| Grinder, Pneumatic, Horizontal (20,000-25,000 RPM) | P/N DG-50-230 | 5130-00-293-2797 | EA | Use with 3M Radial Bristle Disk for small corrosion repair and paint removal. |
| Mandrel Assembly, Radial Bristle Disc | 3M No. 990 | 3460-01-493-7924 | CS (5) | Use with 3M radial bristle disc for small corrosion repair and paint removal. |
| Radial Bristle Disc, 3" Diameter (Salmon) | 3M No. SPA | 5345-01-493-2510 | CS (40) | Light corrosion/paint removal and surface preparation on aluminum, titanium, and high-strength steel substrates. |
| Radial Bristle Disc, 3" Diameter (Lime Green) | 3M No. 360 | 5345-01-493-2514 | CS (40) | Heavy corrosion/paint removal and surface preparation on aluminum, titanium, and high-strength steel substrates. |
| Vacuum Sanding Systems, Clayton (each unit includes an ULPA-filter vacuum, a variety of pneumatic sanders, abrasives, tools, compressed air and vacuum hoses) | P/N: 670-DM-1535-0 P/N: 670-DM-1535-4 P/N: 770-DM-1535-0 P/N: 770-DM-1535-4 | 1HD0000-LL-CQA-8342 1HD0000-LL-CQA-8348 1HD0000-LL-CQA-8349 1HD0000-LL-CQA-8353 | EA EA EA EA | Portable vacuum sanding system used to remove corrosion or coatings from metal or composite surfaces. Captures airborne particles and dust generated by sanding operations. For use in shops and hangers, electric. For use in shops and hangers, pneumatic. For use in small areas and aboard ship, electric. For use in small areas and aboard ship, pneumatic. |
| Sanders, Clayton Vacuum Sanding Systems | P/N: 675-12301J P/N: 670-12601J P/N: 675-12341J P/N: 670-12601J P/N: 690-003 | 5130-01-520-5673 5130-01-520-5669 5130-01-520-5670 5130-01-520-5672 5130-01-520-5671 | EA EA EA EA EA | Replacement sanders for Clayton Vacuum Sanding System (refer to Table 2-1 for abrasives used with Clayton sanders). |
| Backup Pads for Clayton Sanders | P/N: 672-301J P/N: 672-611J P/N: 672-402J P/N: 672-701J P/N: 673-B0038 P/N: 692-282J | 1HS0000-LL-CQA-8300 1HS0000-LL-CQA-8302 1HS0000-LL-CQA-8306 1HS0000-LL-CQA-8303 5340-01-519-0929 1HS0000-LL-CQA-8305 | EA EA EA EA EA EA | Replacement pads for Clayton Vacuum Sanding System |
| Hoses and Hose Fittings, Clayton Vacuum Sanding Systems | P/N: 673-A0300W P/N: 671-HSB1000W P/N: 671-HSB2000W P/N: 671-AVH1015W P/N: 671-AVH1035W P/N: 671-150Y P/N: 631-001 P/N: 661-150CMB | 1HS0000-LL-CQA-8294 1HS0000-LL-CQA-8295 1HS0000-LL-CQA-8319 4720-01-519-7025 4720-01-519-7365 4730-01-519-5907 4730-01-520-7058 4730-01-519-5912 | EA EA EA EA EA EA EA EA | Replacement hose for Clayton Vacuum Sanding System |
| Filters, Clayton Vacuum Sanding Systems | P/N: 600-115 P/N: 600-313A P/N: 926-050 | 4310-01-519-5205 7910-01-520-6435 4310-01-520-8595 | PK (3) PK (5) EA | Replacement filters for Clayton Vacuum Sanding System |
| Disposal Bags, Clayton Vacuum Sanding Systems | P/N: 600-114DM | 8105-01-521-2119 | PK (25) | Replacement bags for Clayton Vacuum Sanding System |

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Table 3-3. Corrosion Removal Equipment (Cont.)

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--|---|--|---------------|--|
| Magnifying Glass, Folding Pocket Type (Circular shape) | GG-M-95, Type III, Class C Double lens (5x, 20x) | 6650-00-530-1880 | EA | Detailed inspection of corrosion. Lenses pivot for single or combination use. |
| | Triple lens (5x, 7x,10x) | 6650-00-098-6128 | EA | |
| Inspection Mirror, Spring Loaded, Plunger Actuated (Rectangular shape) | GGG-M-350, Type II, Class 3 Small (1.5" L x 1.25" W) | 5120-00-278-9926 | EA | Aid for inspecting hard to see corrosion areas. |
| | Large (2.625" L x 1.750" W) | 5120-00-618-6902 | EA | |
| Flashlight, Metal | A-A-1382 | 6230-01-247-7549 | EA | Use for corrosion inspection. |
| Flashlight, Metal (Rechargeable) | A-A-1382 | 6230-01-152-5952 | EA | Use for corrosion inspection. |
| Scissors | GGG-S-278 Shears (9") | 5110-00-161-6912 | EA | Cutting tapes, cheesecloth, masking materials, and electrical wires |
| | Electricians' (5 1/4") | 5110-01-336-5726 | EA | |
| Blast Cleaning Machines, Cabinet, Stationary | MIL-C-83756 Type I | 4940-00-242-3631 | EA | Provides a shielded enclosure for portable honer operation. Used for abrasive cleaning of rust and corrosion products from avionic equipment structures and housings: CAUTION: Do not use on static sensitive devices and microminiature components. Do not use same blast media for removal of corrosion products on ferrous metals and non-ferrous aluminum alloys. |
| Ultraviolet Light | | 6635-00-611-5617 6635-00-952-9954 6635-01-075-5324 6635-01-133-5474 6635-01-150-1231 6635-01-234-7813 6635-01-504-4361 | EA | For detecting solder flux on miniature and microminiature circuit boards. WARNING: Use with the filter provided in the kit. Ultraviolet light can be harmful to the eyes. Do not use a cracked, damaged, or undersized filter. |

Table 3-4. Painting Equipment

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--|--|--|--|--|
| Compressed Air Separator (air regulator assembly) | MIL-S-12928 Class 1 (1 regulator, 2 outlets) Class 2 (2 regulators, 4 outlets) | 4940-00-242-4100 4940-00-242-4101 | EA EA | Wall-mounted separators designed to remove oil, water, and foreign particles from compressed air and to regulate the delivery pressure of air used for spraying paint and pneumatic tools. |
| Paint Brush, Flat, Metal Bound, Synthetic Fiber | H-B-420 Type II 1" wide 2" wide | 8020-00-263-3866 8020-00-550-8359 | EA EA | Paint touchup. |
| Artist Brush (3/8") | H-B-118 | 8020-00-597-4767 | EA | Used for applying lacquer. |
| Artist Airbrush Kit (3 fl. oz.) | A-A-1533 | 7520-00-939-6179 | EA | Spraying applicator for paints, preservatives, and other touch up materials. |
| Color Fandeck | FED-STD-595 | 7690-01-162-2210 | EA | A collection of standard colors used by the federal government to identify paints and coatings. |
| Stencil Marking Set, Gothic Style (made of Brass) | A-A-130 (supersedes RR-S-714) 1/2" size marking 1" 1 1/2" 2" 3" 4" 5" | 7520-00-205-1760 7520-00-298-7043 7520-00-272-9680 7520-00-298-7044 7520-00-272-9683 7520-00-269-9012 7520-00-272-9684 | SE SE SE SE SE SE SE | Reusable aircraft marking. Each set includes 1 ampersand, 1 apostrophe, 1 comma, 3 end pieces, 1 period, 2 spacers, 1 set of letters A thru Z, and 1 set of numerals "0" thru "9". |
| Stencilboard (100 sheets) | A-A-1733 (36" L x 24" W x 0.0165" thick) | 9310-00-160-7858 | PG | Preparation of stencils for painting. |
| Roller Kit, Paint | A-A-2851 Type VI 7" long, polyester cover, 3/8" nap 9" long, polyester cover, 3/8" nap | 8020-00-597-4759 8020-00-689-5379 | KT KT | Touch-up painting of aircraft and avionics housing surfaces. |
| Roller Cover | A-A-2851 Type II 7" long, acrylic, 3/8" nap 9" long, acrylic, 3/8" nap | 8020-00-682-6489 8020-00-682-6491 | EA EA | Replacement cover for roller handle. |
| Paint Mixer, Revolving Shaft and Agitator Type (electric motor driven) | A-A-59433 (supersedes MIL-M-3070) Type I - Revolving Shaft Mixer Class 1 - 1/2 hp (115V) Type II - Agitator Type Mixer 1/4 hp (115V) 1/3 hp (110V) 1/3 hp (115V) 1/3 hp (220V) | 4940-00-221-1707 4940-00-243-2735 4940-00-243-2736 4940-00-251-6475 4940-00-254-8666 | EA EA EA EA EA | Blends paints or oils by agitation. 1/4 pint to 1 gallon mixer. 1 to 5 gallon mixer. 1 to 5 gallon mixer. 1 to 5 gallon mixer. |
| PreVal Aerosol Sprayer | | 8020-01-496-2473 | EA | Power unit only. Use for touch-up of small, spot paint system repairs. Ordering info. for 2 oz. paint bottles for use with the PreVal sprayer can be found in Tables 2-13 and 2-14. |

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Table 3-5. Safety Equipment

(see Figures 3-1 through 3-4 at the end of this chapter for illustrations of some items in this section).

NOTE

Consult local Safety Office for Personal Protective Equipment (PPE) requirements. The local Safety Office has authority to substitute equivalent safety accessories when appropriate.

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--|--|--|-------------------------------|--|
| Particulate Respirator (Mask), Disposable | 3M No. 8511 | 4240-01-247-2348 | BX (80) | Protection from inhalation of particulates during light sanding and grinding operations. |
| Full Facepiece Respirator, Air Filtering (w/o cartridges) | 3M No. 7800S (Small) 3M No. 7800S (Medium) 3M No. 7800S (Large) | 4240-01-314-2780 4240-01-342-5239 4240-01-301-3200 | EA EA EA | Personnel protection from organic vapors, dust, and paint sprays in nonconfined areas during spraying operations. |
| Full Facepiece Respirator, Air Filtering (w/o cartridges) | 3M No. 6700 (Small) 3M No. 6800 (Medium) 3M No. 6900 (Large) | 4240-01-454-8531 4240-01-454-8535 4240-01-454-8538 | BX (4) BX (4) BX (4) | Personnel protection from organic vapors, dust, and paint sprays in nonconfined areas during spraying operations. |
| Half Facepiece Respirator, Air Filtering (w/o cartridges) | 3M No. 7501 (Small) 3M No. 7502 (Medium) 3M No. 7503 (Large) | 4240-01-495-1294 4240-01-495-1293 4240-01-495-1291 | BX (10) BX (10) BX (10) | Personnel protection from organic vapors, dust, and paint sprays in nonconfined areas during spraying operations. |
| Filter Cartridges, P100 Organic Vapor | 3M No. 60921 | 4240-01-455-7353 | BX (60) | For use with 3M's half and full facepiece respirators. |
| Respirator Lens for 3M Full Facepiece Respirators (plastic film) | 3M No. 7884 3M No. 6898 | 4240-01-247-8929 Open Purchase | BX (5) BX (5) | Replacement lens for the 7800S series respirators. Replacement lens for the 6000 series respirators. |
| Lens Covers, Peel-away for 3M Full Face Respirators | 3M No. 7899-25 3M No. 7899-100 3M No. 6885-100 | 4240-01-248-4634 4240-01-248-6435 4240-01-455-2787 | BX (25) BX(100) BX(100) | For 7800S series respirators. For 7800S series respirators. For 6800 series respirators. |
| Inhalation Valve for 3M Facepiece Respirators | 3M No. 7282 3M No. 6894 3M No. 7582 | 4240-01-248-2607 4240-01-455-2811 4246-01-495-1303 | BX(200) BX(200) BX(10) | For 7800S series respirators. For 6800 series respirators. For 7500 series respirators. |
| Exhalation Valve for 3M Facepiece Respirators | 3M No. 7283 3M No. 6889 3M No. 7583 | 4240-01-248-2608 4240-01-455-2809 4246-01-495-1305 | BX (50) BX (10) BX (10) | For 7800S series respirators. For 6800 series respirators. For 7500 series respirators. |
| Tyvek Shroud for 3M Full Facepiece Respirators | 3M No. 7915-5 | 4240-01-320-1957 | PG (5) | Protects head and neck from paint overspray. |
| Spectacle Kit for 3M Full Facepiece Respirators | 3M No. 6878 3M No. 7925 | 4240-01-455-2346 4240-01-395-4128 | EA EA | Consists of frame and retainer clip. Use on 6000 Series Facepiece. For use with prescription lenses. Use on 7800S Series Facepiece. |
| Head Harness Assembly, Facepiece Respirators | 3M No. 7581 3M No. 78935 3M No. 6897 | 4240-01-496-4143 Open Purchase Open Purchase | BX (20) BX (2) BX (5) | Replacement for 7500 series respirators. Replacement for 7800 series respirators. Replacement for 6800 series respirators. |
| Respirator Cleaning Wipes (alcohol-free towelettes) | 3M No. 504 | Open Purchase | BX (500) | Hygienic cleaning of respirators and other personal protective gear/equipment. |
| Air Breathing Pump, Pneumatic Driven, Portable | NF-1100 (supersedes NF15-3) (Mfr.: RhineAir) ADP-16 (Mfr.: Bullard) | 4240-01-363-4699 4310-01-168-7302 | EA EA | Supply air to hoods and facepiece respirators. NOTE Use MIL-PRF-32033 or 10 wt. oil equivalent (MIL-PRF-17672) to fill in-line oiler of air motor after each use, as required, to maintain lubrication and prevent motor oxidation. |

Table 3-5. Safety Equipment (Cont.)

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--|---|--|--|--|
| Replacement Filter Cartridges for Breathing Pumps | CF8080 (Mfr.: RhineAir) | 4240-01-084-0921 | BX (10) | For use with RhineAir's NF-1100 and NF15-3 pumps. |
| Inlet Compressed Air Hose Assembly, 1/2" ID Hose w/ 3/8" ID Orifice Fittings | ED1313B-50 (50 ft.) ED1313B-100 (100 ft.) | 4240-01-251-8159 4240-01-251-8160 | EA EA | Only use for supplying compressed air to air motor on breathing unit. These inlet hose assemblies can be used with both RhineAir and Bullard units. |
| Replacement Inlet Hose, Quick Disconnect Fittings | 3L25 (Male Plug) 3R25 (Female Coupler) | 4730-01-442-1809 4730-01-442-1808 | EA EA | Replacement fittings for the ED1313B inlet air hose assembly. |
| Outlet Manifold, Quick Disconnect (Female Coupler Assembly) | ED-06-430 (Mfr.: RhineAir) | Open Purchase | EA | Connects respirator air hose assembly to breathing pump. Can be used with both Rhine-Air and Bullard units. |
| Gloves, Cloth, Vinyl Dipped, Chemical and Oil Protective (Black) | A-A-50370 (supersedes MIL-G-82253) Medium Large Universal (one size) | 8415-00-916-2817 8415-00-916-2818 8415-00-935-2833 | PR PR PR | General purpose protective wear for hands. Rubberized for better grip. |
| Gloves, Rubber, Industrial (Black) | MIL-G-12223 X-Small (Size 8) Small (Size 9) Medium (Size 10) Large (Size 11) X-Large (Size 12) | 8415-00-753-6550 8415-00-753-6551 8415-00-753-6552 8415-00-753-6553 8415-00-753-6554 | PR PR PR PR PR | Heavy duty protective wear for hands while handling solvents, chemical paint removers, paints, sealants, or other materials which may be injurious to the skin. Gloves are not designed for electrical or chemical warfare activities. |
| Gloves, Chemical and Oil Protective, Abrasion Resistant (Green) | MIL-G-87066 X-Small (Size 7) Small (Size 8) Medium (Size 9) Large (Size 10) X-Large (Size 11) | 8415-01-147-6263 8415-01-147-9540 8415-01-012-9294 8415-01-013-7382 8415-01-013-7384 | PR PR PR PR PR | Protective wear for hands during aircraft detergent wash operations. |
| Gloves, Disposable, Nitrile Rubber, Pre-Powdered, Ambidextrous (Light blue) | P/N: 7005 Small Medium Large X-Large | 8415-01-352-6556 8415-01-352-6553 8415-01-352-6554 8415-01-352-6555 | BX (20) BX (20) BX (20) BX (20) | General purpose protective wear for hands. |
| Gloves, Disposable, Latex Rubber, Pre-Powdered, Ambidextrous (Natural) | A-A-53513 (supersedes MIL-G-36592) Small Medium Large | 6515-01-365-6183 6515-01-364-8553 6515-01-364-8554 | PG (100) PG (100) PG (100) | General purpose protective wear for hands. |
| Coveralls, Cotton, Hook-Pile Fastener Tape (Green) | MIL-C-2202 Small (Size 42) Medium (Size 46) Large (Size 50) X-Large (Size 54) XX-Large (Size 58) | 8405-00-131-6507 8405-00-131-6508 8405-00-131-6509 8405-00-131-6510 8405-00-131-6511 | EA EA EA EA EA | Protective clothing for corrosion maintenance personnel. |
| Coveralls, One-piece, Disposable, Fire Resistant and Water Repellent (White) | A-A-50358 X-Small Small Medium Large X-Large XX-Large | 8415-00-601-0792 8415-00-601-0793 8415-00-601-0794 8415-00-601-0797 8415-00-601-0801 8415-00-601-0802 | EA EA EA EA EA EA | Protective clothing for corrosion maintenance personnel to protect against dirt, grease, paint, and low-hazard contaminants. |

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Table 3-5. Safety Equipment (Cont.)

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|---|--|--|----------------|--|
| Coveralls with Hood and Bootees, Disposable, "Bunny Suit" (White) | A-A-55196 Type I (supersedes MIL-C-87069) Small/Medium Large/X-Large XX-Large | 8415-01-445-6565 8415-01-445-6568 8415-01-445-6588 | EA EA EA | Protective clothing for corrosion maintenance personnel. |
| Face Shield, Industrial, Adjustable | A-A-1770 (supersedes L-F-36) Plastic (9" x 18" window) | 4240-00-542-2048 | EA | Protection of eye and face when cutting, grinding, or chipping metal or when handling hazardous chemicals. NOTE: Face shield is not for primary protection and should always be used with goggles. |
| Goggles, Plastic, Safety-type (adjustable headband) | A-A-1110 | 4240-00-052-3776 | PR | Eye protection. Can be worn over eyeglasses. Goggles are ventilated to reduce fogging. |
| Earplugs, Disposable, Vinyl foam material (Yellow) | P/N: 4-375 | 6515-00-137-6345 | BX(400) | Hearing protection. |
| Hearing Protector (Head-phone style with extra set of seals) | A-A-58084 | 4240-00-022-2946 | EA | Hearing protection. Fits securely over ears to help prevent hearing loss or damage in loud work areas |
| Aural Protector | MIL-A-23899 Ear Muffs Replacement Seal | 4240-00-759-3290 4240-00-979-4040 | EA PR | Hearing protection. |

Table 3-6. Sealing Equipment

| Nomenclature | Specifications/Part No. | National Stock Number | Unit of Issue | Intended Use |
|--|---|---|--|--|
| Sealant Dispensing Gun with 6 oz. Metal Retainer, Manual | Model 850 Gun (P/N: 221830) | 5120-00-952-3507 | EA | Application of sealants and adhesives. |
| Replacement Retainers for Manual Sealant Guns | Model 850 Retainers P/N: 226819 P/N: 226820 | 5120-01-247-1639 5340-01-384-6120 | EA EA | 2.5 oz. metal retainer. 6 oz. metal retainer. |
| Sealant Smoothing Tools, Plastic | Sealant Spatulas P/N: 231349 P/N: 226241 P/N: 226242 P/N: 226243 Spatula Kit P/N: 226244 Sealant Scraper P/N: 234350 Sealant Spreader P/N: 229394 Comb Spreader P/N: 229395 | 5120-01-337-9415 5120-01-297-7015 5120-01-297-7016 5120-01-297-7017 5120-00-056-3237 5120-01-298-6121 5120-01-337-9416 Open Purchase | EA EA EA EA KT EA EA EA | Spatulas and spreaders for tooling and smoothing sealants and adhesives. The kit includes spatulas with P/Ns: 226241, 226242, and 226243. Used for sealant removal from all surfaces. Used for spreading sealants or adhesives onto flat surfaces. Used to spread sealants or adhesives while maintaining a uniform thickness. |
| Mixing Stick, Sealant, Wooden | P/N: 321 or 706 (6" L x 3/4" W) | 6515-00-324-5500 | PG (12, 100 BX) | Use for hand mixing small amounts of sealants. |
| Mixing Cup, Sealant, Plastic Coated Paper (White) | A-A-2577 Type II Style A Class 3 (supersedes UU-C-806) Size: 8 oz. | 7350-00-641-4520 | BX (1000) | Use for hand mixing small amounts of sealants. |
| Sealing Machine, Electric Jaw | A-A-2953 6" jaw 14" jaw | 3540-00-293-0377 3540-00-299-9811 | EA EA | Used to seal heat sealable, flexible transparent/translucent packaging films |

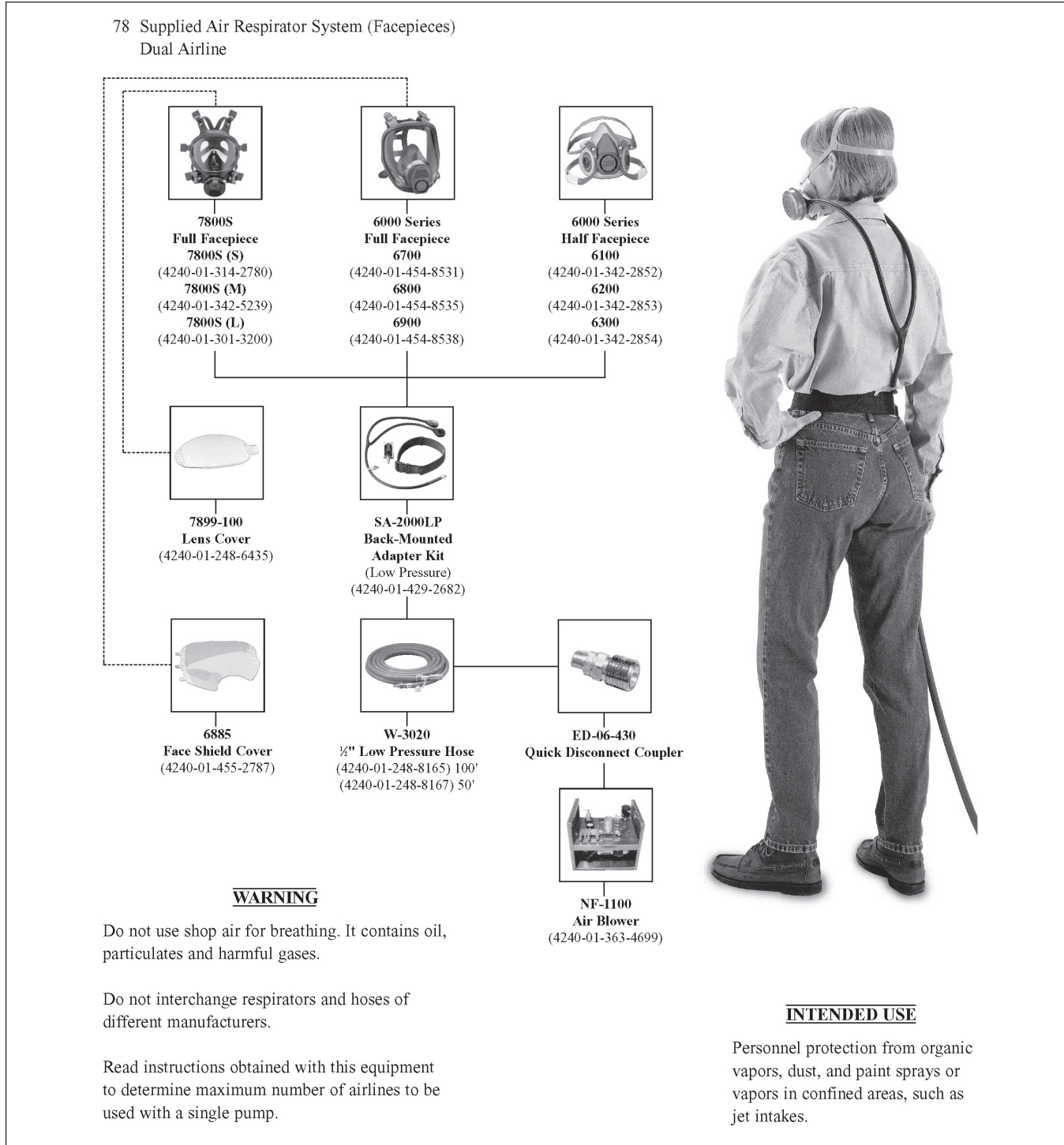


Figure 3-1. Back Mounted Full Facepiece Respirator

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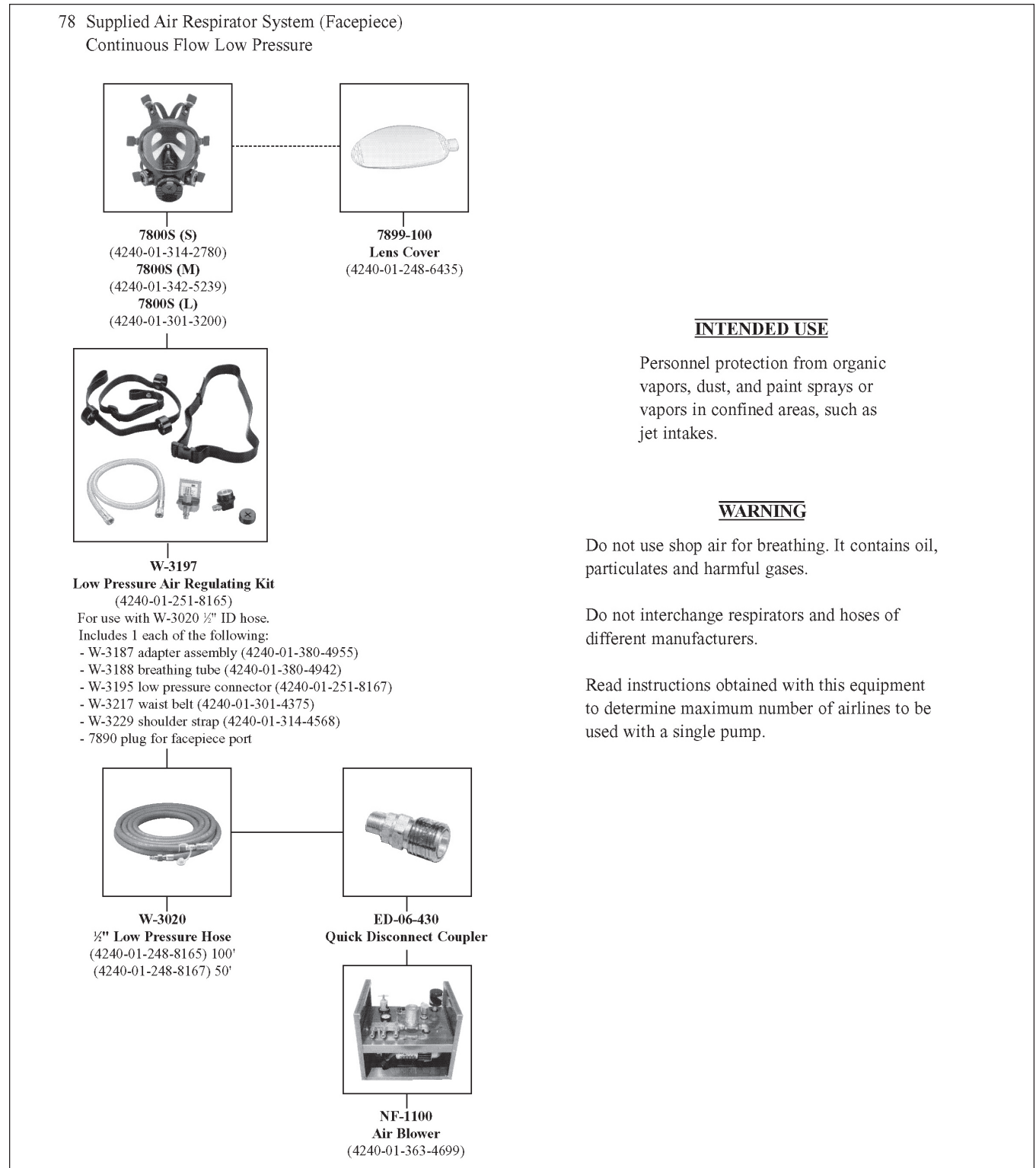


Figure 3-2. Front Mounted Full Facepiece Respirator

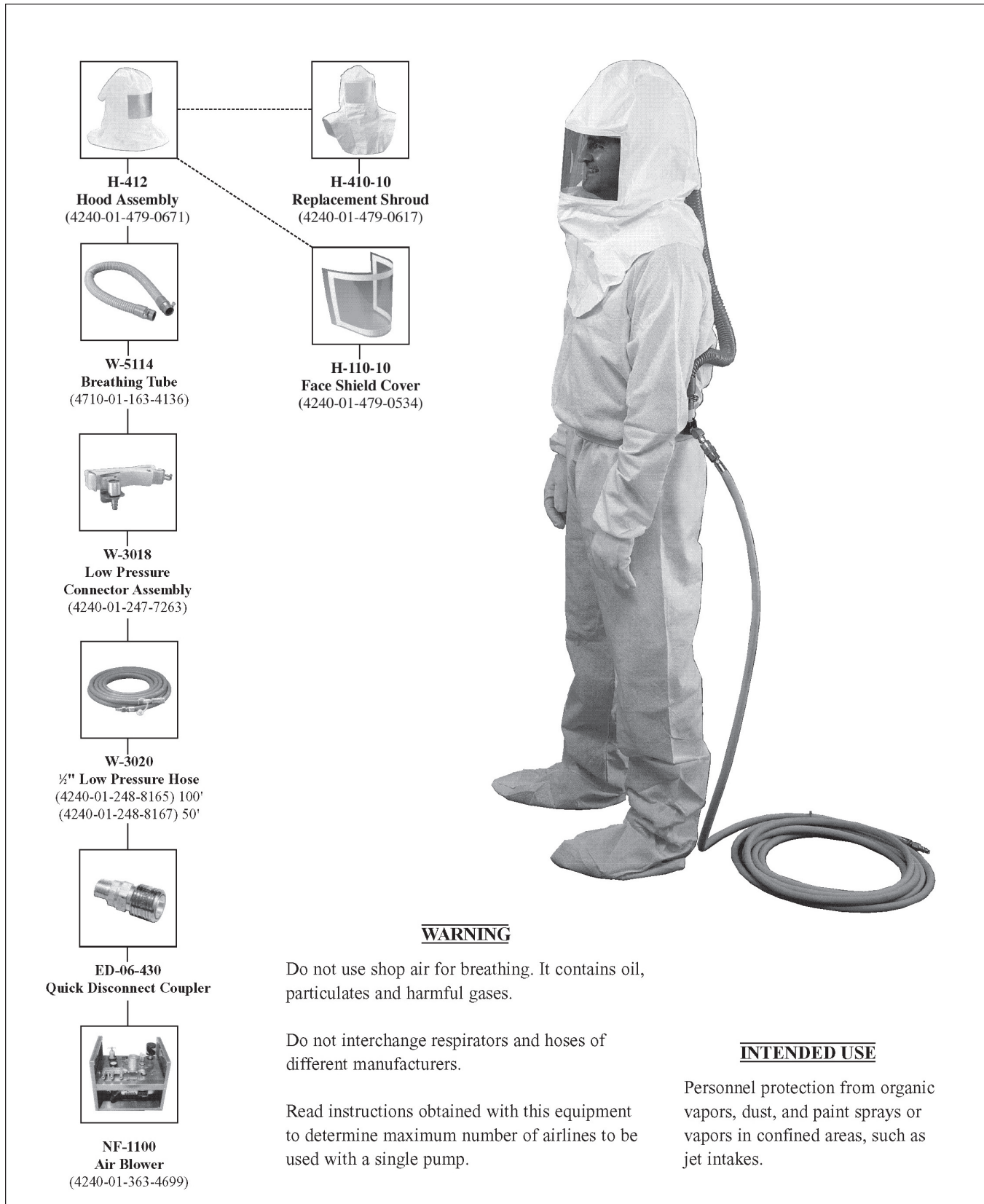


Figure 3-3. Hooded Air Respirator System

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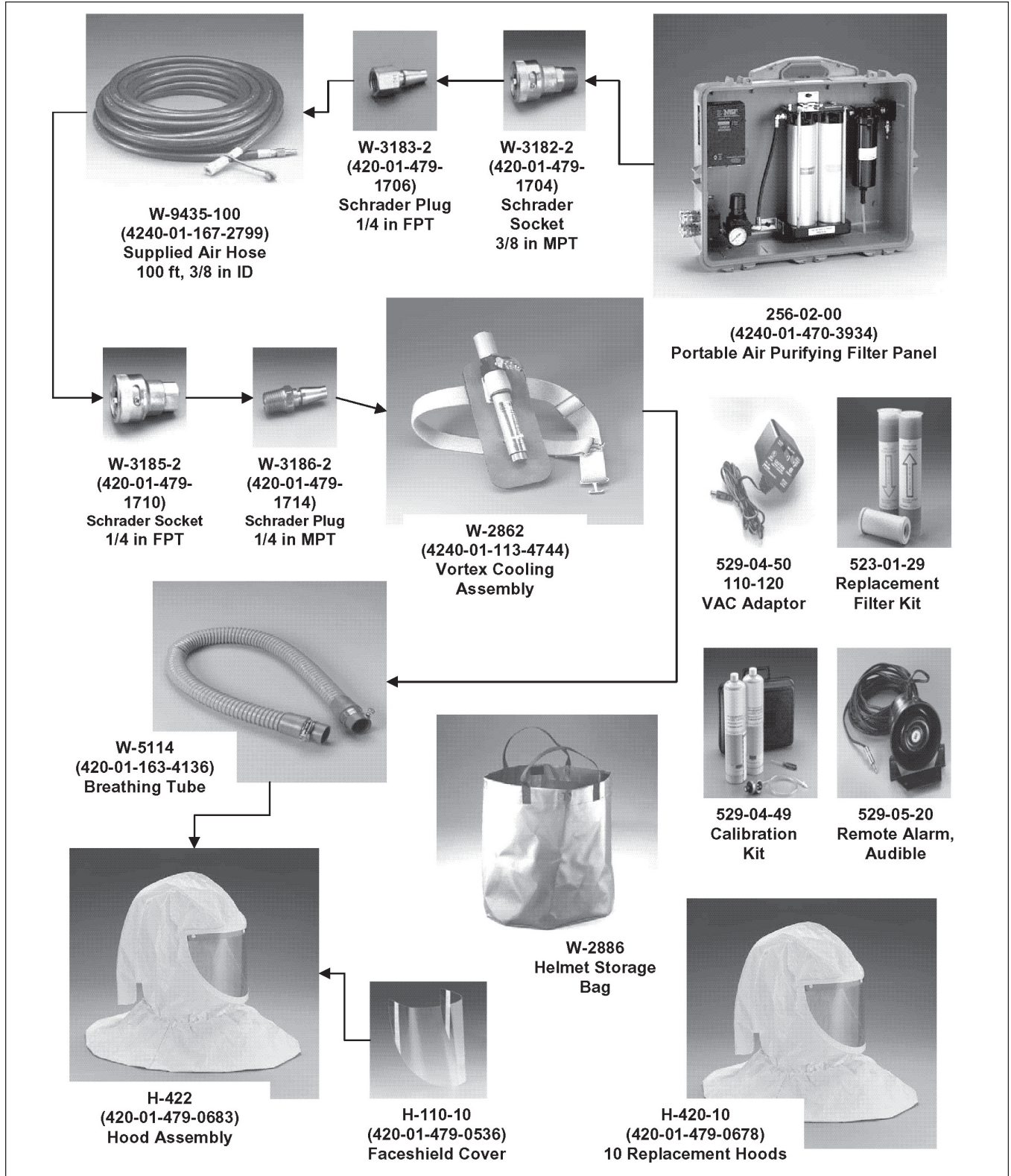


Figure 3-4. Supplied Air Cooling Respiratory Protection System

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CHAPTER 4 SPECIAL AVIONIC EQUIPMENT

4-1. INTRODUCTION. Table 4-1 describes the special cleaning equipment used in the avionic corrosion control work center. Pending standardization of support equipment to be used for avionic cleaning, only equipment that meets the general procedures and limitations of Volume III should be used.

Table 4-1. Special Support Equipment for Avionics Cleaning

| Nomenclature | Characteristics |
|----------------------------|--|
| Aqueous Ultrasonic Cleaner | <p>Tank dimensions: 18" wide x 30" long x 18" deep</p> <p>Overall dimensions: 20" wide x 32" long x 40" high</p> <p>Power requirements: Single phase/115V/60 Hz/60A</p> <p>Operating frequency: 20 to 21 KHz (internally adjusted) at an average power of 1500 watts (RMS)</p> <p>Operating temperature: 130° F (54° C)</p> <p>Temperature range: 90° F (32° C) to 150° F (66° C)</p> |
| Solvent Ultrasonic Cleaner | <p>Ultrasonic tank dimensions: 12" wide x 8" long x 12" deep</p> <p>Vapor degreaser tank dimensions: 12" wide x 8" long x 12" deep</p> <p>Overall dimensions: 48" wide x 60" long x 47" high</p> <p>Power requirements: Single phase/230V/50-60Hz/39A</p> <p>Operating frequency: 40 KHz (internally set) at an average power of 500 watts (RMS)</p> <p>Operating temperature: 107° F (42° C)</p> <p>Temperature range: 90° F (32° C) to 150° F (66° C)</p> |

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