

MIL-S-55562C(CR)

31 March 1980
 Superseding
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MILITARY SPECIFICATION

SHOPS, ELECTRONIC, SEMI-TRAILER MOUNTED
 AN/ASM-189() and AN/ASM-190()

This specification is approved for use by all Departments
 and Agencies of the DOD

1. SCOPE

1.1 Scope.- This specification covers the modification of Semi-Trailers, Vans, Electronic, M373A2 and the installation of the applicable equipment and ancillary items into the modified vans to form Electronic Shops, Semi-Trailer Mounted, AN/ASM-189() and AN/ASM-190(). (See 6.5)

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein:

SPECIFICATIONS

MILITARY

MIL-P-116	Preservation, Methods of
MIL-P-11268	Standardization - Component
	Selection and Control Non-
	Standard Parts
MIL-W-6858	Welding, Resistance; Aluminum,
	Magnesium, Non-Hardening Steels
	or Alloys, Nickel Alloys, Heat-
	resisting Alloys, and Titanium
	Alloys; Spot and Seam
MIL-T-7928	Terminals, Lug and Splice, Crimp
	Style, Copper

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-LE-SS, Fort Monmouth, New Jersey 07703, by using the self-addressed Standard Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

FSC 4940

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MIL-M-13231
 MIL-F-14072
 MIL-W-45205

Marking of Electronic Items
 Finishes for Ground Electronic Equipment
 Welding, Gas, Metal-arc & Gas
 Tungsten-arc, Aluminum Alloys,
 Readily Weldable, for Structures
 Excluding Armor.

STANDARDS**MILITARY**

MIL-STD-105	Sampling Procedures and Tables for Inspection by attributes
MIL-STD-202	Test Methods for Electronic and Electrical Components Parts
MIL-STD-252	Wired Equipment, Classification of Visual and Mechanical Defects
MIL-STD-461	Electromagnetic Interference Characteristics Requirements for Equipment

DRAWINGS**ELECTRONICS COMMAND**

DL-SM-B-887770	Shop, Electronic, Semi-Trailer Mounted, AN/ASM-189
DL-SC-B-593400	Shop, Electronic, Semi-Trailer Mounted, AN/ASM-190
SPI-1G0037	Special Packaging Instruction

(Copies of specifications, standards, drawings and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the Contracting Officer. Both the title and number or symbol should be stipulated when requesting copies).

2.2 Other Publications.- The following document forms a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

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ASSOCIATION OF AMERICAN RAILROADS

Rules Governing Loading of Commodities on Open Top Cars

(Applications for copies should be addressed to the Association of American Railroads, 59 East Van Buren Street, Chicago 5, Illinois).

3. REQUIREMENTS

3.1 First Article.- When specified in the contract, the contractor shall furnish first article units in accordance with 4.3.

3.2 Construction.- (See 4.6) The semi-trailer mounted Electronic Shops shall be constructed in accordance with drawings listed on DL-SM-B-887770 and DL-SC-B-593400 including the requirements for parts, materials, and processes thereon.

3.2.1 Selection and use of parts, materials and processes.- If the contractor proposes the use of a part, material or process other than that specified on drawings, specifications or contract, the selection and approval procedures of MIL-P-11268 are a requirement. The above includes the proposed use of "or equal" parts, materials and processes. (See 6.2)

3.3 Electrical Installation.-

3.3.1 Power System Wiring and Components.- The completed in-place power distribution system shall meet the following requirements.

3.3.1.1 Continuity of conductors.- Continuity shall exist between each pin of the power entrance connectors and respective circuit terminations. (See 4.11.1.1 and 4.12.1.1)

3.3.1.2 Dielectric breakdown voltage.- The insulation of all power wires, cables, and components shall withstand, without flashover or insulation breakdown, a potential of 500 volts DC applied continuously for not less than 30 seconds. (See 4.11.1.2 and 4.12.1.2)

3.3.1.3 Insulation resistance.- The resistance of insulation between any two circuit conductors and facility ground terminal shall not be less than 10 megohms. (See 4.11.1.3 and 4.12.1.3)

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3.3.2 Power distributional and operational functions.- Main power branch distribution and circuits thereof shall meet the operational requirements as shown in the power schematic drawing SM-D-887960 and SM-D-593571 when tested in accordance with 4.11.2 and 4.12.2.

3.4 Suppression of radio frequency interference.- The motors in the exhaust fans, fluorescent lighting and the power supplies used in the van facilities shall meet the emanation limits of Specification MIL-STD-461 for tactical support equipment, if other than those items defined by the drawings (See 4.4)

3.5 Vehicular transportation.- The electronic shops shall be capable of being driven over cross-country terrain by military vehicles without sustaining any permanent damage. (See 4.7)

3.6 Railroad transportation.- The electronic shops shall be capable of being loaded, blocked, and braced on a flatcar for shipment by rail in accordance with Association of American Railroads, "Rules Governing Loading of Commodities on Open Top Cars". When so loaded, the vans shall be subjected to and withstand the test of 4.8 without sustaining any permanent damage.

3.7 Blackout protection.- The side vestibule door and the rear blackout curtain shall provide blackout protection so that with all ceiling lights in the van operating and exterior doors open no illumination shall be visible during outside darkness, from any angle, at a distance of 25 feet. (See 4.9)

3.8 Mounting inserts.- All mounting inserts shall be installed without the use of any auxiliary materials such as adhesive and when installed the head shall not protrude more than 0.062 inch from the inside wall of the van. When installed, each insert shall be capable of withstanding the loads referenced in paragraph 4.10. There shall be no damage to the insert or insert threads. The insert shall not have rotated from its original position, and there shall be no distortion of mounting member, or insert. Insert threads and outer face of insert head shall be free of paint.

3.9 Cleaning.- (See 3.20)

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3.9.1 Parts.- After fabrication parts shall be cleaned in accordance with good commercial practice or as specified in the applicable portions of Specification MIL-F-14072. Cleaning processes shall have no deleterious effect. Corrosive material shall be removed completely before the parts are assembled. After assembly units shall be cleaned thoroughly and shall be free from particles of solder, flux, scale, and any other foreign material. In addition, when necessary, such cleaning shall also be performed before and after final assembly of the units.

3.10 Finish.- The equipment shall be finished in accordance with MIL-F-14072. This includes finish of hardware such as handles, hinges, fasteners, etc., including touchup after mounting. The final paint film shall be in accordance with the drawings. (See 4.4)

3.11 Marking.- Marking shall conform to MIL-M-13231 and the drawings. (See 4.4)

3.12 Vapor seal.- All joints of the exhaust ports, power and signal entrance box and of all other openings through van walls shall be sealed to provide a vapor barrier against the entrance of moisture to the core material and to the interior of the van. All joints and edges shall be assembled and sealed in a manner to prevent collection and retention of moisture. All exterior rivets, screws, and fasteners shall be dipped in sealer prior to installation. (See 3.20)

3.13 Sealer.- The sealer shall be a one-part sealant, Silicone Construction Sealant SE-1204, as made by General Electric Corp., or approved equal.

3.14 Nameplate.- Each Electronic Shop Van shall be provided with a nameplate in accordance with the drawing. This nameplate shall include the proper assigned nomenclature (see 6.5). Each nameplate shall bear a sequential serial number, starting with number 1, for the AN/ASM-189 and for the AN/ASM-190.

3.15 Aircraft Loading Data Plate.- The data plate for the bare van shall be replaced with a data plate conforming to Drawing SC-D-82768 for each electronic shop. The information relative to weight and centers of gravity, etc. shall be determined accurately by the contractor.

3.16 Riveting.- Riveted joints shall be tight, the joined parts shall be undamaged, and the rivet heads shall be properly seated and tight against their bearing surfaces.

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3.17 Soldering.- (See 3.20)

3.17.1 Solder and flux.- Solder and flux shall be as defined on the drawings.

3.17.2 Acid or acid salts.- No acid or acid salts shall be used in preparation for or during soldering; however, exception is permitted for preliminary tinning of electrical connections and for tinning or soldering of mechanical joints not used to complete electrical circuits, but in no case shall acid or acid salts be used where they can come in contact with insulation material. Where acid or acid salts are used, as permitted above, they shall be completely neutralized and removed immediately after use.

3.17.3 Process.- There shall be no sharp points or rough surfaces resulting from insufficient heating. The solder shall feather out to a thin edge, indicating proper flowing and wetting actions, and shall not be crystallized, over-heated or under heated. The minimum necessary amount of flux and solder shall be used for electrical connections. Any means employed to remove an unavoidable excess of flux shall not incur the risk of loose particles of flux, brush bristles, or other foreign material remaining in the equipment; flux being spread over a larger area; or damage to the equipment. Insulation material that has been subjected to heating during the soldering operation shall be undamaged and parts fastened thereto shall not have become loosened.

3.18 Welding.- Welded joints shall be as defined by the drawings and shall be such that grinding on the finish weld will be unnecessary except where grinding is specified on the drawings. Inert-gas-shielded arc welding (MIG) using helium, argon, or a mixture of the two shall be used for arc welding of aluminum. Welds shall conform to MIL-W-6858 Class B and MIL-W-45205 Class B as applicable; surfaces to be welded shall be cleaned in accordance with good commercial practice and shall be free of scale, paint, grease, and other foreign materials. Welds shall have thorough penetration and good fusion and shall be free of scabs, blisters, abnormal pock marks, cracks, voids, slag inclusions, and other harmful defects. Inert-gas-shielded arc welding shall be used for welding of aluminum except where spot welds are used. Welded assemblies shall be cleaned to remove any scale, oxidation products, and excess flux. Any acid used in cleaning shall be completely neutralized and removed. (See 3.20 and 4.4)

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3.19 Wiring and cabling.- (See 3.20) Wiring and cabling shall be in accordance with the drawings and shall be neat and sturdy.

3.19.1 Slack.- Wires and cables shall be as short as practical except that sufficient slack shall be provided:

a. To prevent undue stress on cable forms, wires, and connections, including connection to resiliently support parts.

b. To facilitate field repair of broken or cut wires.

c. To prevent chafing or breaking of wires due to repeated flexing of hinged parts.

3.19.2 Protection.- Wires and cables shall be so placed and protected as to avoid contact with rough or irregular surfaces or sharp edges. Wires shall not be bent sharply where they enter insulation material.

3.19.3 Splicing.- Wires in a continuous run between two terminals shall not be spliced during the wiring operation unless specifically indicated by the drawings.

3.19.4 Solderless Terminal Lug Connections.- Crimping of solderless terminal lugs shall be so accomplished that the connections will meet the resistance (voltage drop) and tensile strength requirements of MIL-T-7928. (See 4.13)

3.19.5 Identification of wiring.- Wiring shall be identified by color-coding and wire pair marking, as indicated on the drawings.

3.20 Workmanship.- The equipment shall be manufactured and assembled in accordance with the applicable portions of the following paragraphs: (See 4.15)

3.2 Construction

3.3 Electrical installation

3.8 Mounting inserts

3.9 Cleaning

3.10 Finish

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3.11 Marking

3.12 Seal, vapor

3.16 Riveting

3.17 Soldering

3.18 Welding

3.19 Wiring and cabling

3.21 Electrical Installation.- Electrical installation of the AN/ASM-189() Van shall be subjected to and pass the tests described in 4.11. Electrical installations of the AN/ASM-190() shall be subjected to and pass the tests described in 4.12.

3.22 Interchangeability.- Like units, assemblies, subassemblies, and replaceable parts shall be physically and functionally interchangeable without modification of such items or the equipment. (See 4.14) Individual items shall not be hand-picked for fit or performance. Reliance shall not be placed on any unspecified dimension, rating, characteristic, etc.

3.23 Tropicalization of material.- Canvas, webbing, wood, etc. shall be treated to be resistant to moisture and fungi as follows:

3.23.1 Treating materials.- Treating materials containing a mercury-bearing fungicide shall not be used. The contractor shall determine that the treating material is compatible with the material or surface to be treated. Selection of treating materials shall be such that any increase in flammability of treated material will be held to the practical minimum.

3.23.2 Toxicity.- Treating materials shall cause no skin irritation or other injury to personnel handling the treated material during fabrication, transportation, operation, or maintenance of the equipment, or during use of the finished item when used for the purpose intended.

3.23.3 Flexibility.- Treatment shall not affect the flexibility of treated materials, to the extent that the equipment may fail to meet specified requirements when subjected to specified service conditions.

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3.23.4 Statement of Treatment.- The contractor shall submit for approval, to the Contracting Officer, a statement describing in detail the materials to be treated and the treating materials and processes that he proposes to use. (See 6.2(d)).

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for Inspection.- Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may utilize his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspection are deemed necessary to assure supplies and services conform to prescribed requirements.

4.2 Classification of inspection.- The inspection requirement specified herein are classified as follows:

a. First article inspection (does not include preparation for delivery). (See 4.3)

b. Inspection covered by subsidiary documents (See 4.4)

c. Quality conformance inspection.

(1) Quality conformance inspection of equipment before preparation for delivery. (See 4.5)

(2) Quality conformance inspection of preparation for delivery. (See 4.16)

4.3 First Article.- Unless otherwise specified in the contract the first article inspection shall be performed by the contractor. (See 3.1)

4.3.1 First Article units.- The contractor shall furnish one (1) first article unit of the complete AH/ASM-189 and/or one (1) first article unit of the complete AH/ASM-190 as required by the contract.

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4.3.2 First Article inspection.- The first article inspection shall consist of inspection specified in Table I and shall be performed in the order specified therein.

4.3.3 First Article data.- The first article test plan and test report(s) shall be as required in the contract.

TABLE I - First Article Inspection

Inspections	Req Para	Test Para
1. Inspection covered by subsidiary documents		4.4
2. Group A Inspection		(See Table II)
3. Group B Inspection		(See Table III)
4. Group C Inspection		(See Table IV)
5. Repeat Group A Inspection		(See Table II)

4.4 Inspection covered by subsidiary documents.- The following shall be inspected under the applicable subsidiary documents as part of the inspection required by this specification and the inspection requirement specified in the contract or purchase order.

Item	Where required
Finish	3.10
Marking	3.11
Welding	3.18
Suppression	3.4
Terminals	3.19.4

4.5 Quality conformance inspection of equipment before preparation for delivery.- The contractor shall perform the inspection specified in paragraph 4.4 and paragraphs 4.5.1 through 4.5.3. This does not relieve the contractor of his responsibility for performing any additional inspection which is necessary to control the quality of the product and to assure compliance with all specification requirements.

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4.5.1 Group A inspection.- Each unit on contract or purchase order shall be inspected for conformance to the inspections specified in Table II. Lots shall be formed only from units that pass this inspection. Factors of lot composition not defined herein, or in the contract or purchase order shall be in accordance with MIL-STD-105. Each lot shall be subject to sampling inspection, utilizing the procedures of MIL-STD-105, using the general inspection levels, and AQL's indicated in Table II.

TABLE II - Group A Inspection

Inspection	Rqr Para	Insp Para	AQL% Major	Minor
Visual and Mechanical	3.20	4.15	1.0	4.0
Electrical Installation				
AN/ASM-189()	3.21	4.11	1.0*	
AN/ASM-190()	3.21	4.12	1.0*	

* All electrical defects are considered major.

4.5.1.1 Order of inspection with Group A.- Group A inspection shall be performed in the order listed in Table II.

4.5.2 Group B inspection.- Group B inspection shall normally be performed on inspection lots that have passed Group A inspection, except for Mounting Insert Inspections which are performed prior to Group A. This inspection shall conform to Table III and to the special inspection levels of Table I of MIL-STD-105.

TABLE III - Group B Inspection

Inspection	Rqr Para	Insp Para	AQL% (See 4.5.2.1)
Blackout Protection	3.7	4.9	2.5
Mounting inserts	3.8	4.10.2	4.0

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4.5.2.1 Group B Sampling plans.- The Group sampling plans, for the AQL's listed in Table III shall be as follows:

<u>AQL</u>	<u>Inspection level</u>
4.0	S-4
2.5	S-4

4.5.3 Group C Inspection.- This inspection shall be as listed in Table IV. Vehicular transportation and railroad transportation tests shall be performed on sample units that have been subjected to and have met Group A and Group B inspection. The other inspections are performed prior to Group A inspection.

TABLE IV - Group C Inspection

<u>Inspection</u>	<u>Rqr Para</u>	<u>Insp Para</u>
Solderless-terminal-lug inspection	3.19.4	4.13
Vehicular Transportation	3.5	4.7
Railroad Transportation	3.6	4.8
Mounting Inserts	3.8	4.10.1
Construction Verification	3.2	4.6

4.5.3.1 Sampling for inspection of construction verification.- shall be performed once on each part and assembly, randomly selected, and on their installation into one of first 5 units produced. This inspection shall be performed as the selected unit is assembled.

4.5.3.2 Sampling for inspection of solderless-terminal-lug-connections.- Five specimens of each combination of wire and terminal produced each week shall be prepared for inspection. A specimen is a one foot length of wire on which a terminal lug has been applied, using the same tools and procedures used in crimping the terminal lugs in production.

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4.5.3.3 Sampling for other inspection.- For inspection tests listed below, one unit shall be selected at random from the first 5 units or fraction thereof which have been produced, unless otherwise specified in the contract. Selection of the unit will be made by the government.

- a. Mounting inserts
- b. Truck transportation
- c. Railroad transportation

4.5.3.4 Group C failures.- Actions required relative to Group C failures shall be as specified in the contract or purchase order.

4.5.4 Reinspection of conforming Group C sample units.- Unless otherwise specified, sample units which have been subjected to and passed Group C inspection may be accepted on a contract provided they are resubjected to and pass Group A inspection after repair of all visible damage.

4.6 Construction verification.- The contractor shall perform an Equipment Verification Review (EVR), consisting of a complete technical audit of the equipment on order against the drawings (See 3.2) cited in the Technical Data Package (as supplemented by all approved engineering changes). The EVR shall consist of the following:

- a. An audit to establish that "as-built" shelter facilities, including individual parts, their use in subassemblies, and assemblies (components), and their final installation into the shelter forming the shelter facility, are in accordance with the end product drawings.
- b. An audit to establish that "as-built" shelter facilities, including parts, components and their installation, meet the acceptance requirements specified in the Technical Data Package for each shelter part, components, and shelter facility. The audit shall record all acceptance test methods used together with resulting verification test data.

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c. Preparation of EVR report(s) containing the following information:

(1) Identification of parts, components, shelter facilities and details proving compliance with 4.6a and b above.

(2) Discrepancies noted.

(3) Corrective action taken.

d. Two (2) copies of the EVR report shall be submitted no later than 15 days prior to the submission of the first production unit or lot to the government technical organization cited in the contract. The results of the EVR shall be subject to verification by authorized government personnel at the time the first unit or production lot is offered for acceptance. Government Verification will be to the depth and extent necessary to demonstrate that the "as built" hardware is in accordance with the cited drawings. Copies of the EVR reports shall be made available to government personnel during the verification. The contractor shall provide the following:

(1) Segregation of parts, components of shelter facilities, to permit reviewing government personnel access for detailed inspection. The contractor shall also provide personnel to disassemble any parts of the shelter facility necessary to permit government review of the shelter facility, its components and their installation, and to reassemble parts after inspection.

(2) Have as required, responsible personnel from each functional department available for discussions in their respective areas.

(3) Adequate administrative support for the EVR.

4.7 Vehicular transportation test.- The electronic shop shall be attached to a government furnished truck, tractor, 5 ton, 6 x 6 M-52, and transported over a hard surface having a specially prepared course. The course shall have twelve 4-inch x 8-inch timbers placed 25 feet apart on the 8-inch face and with the 4-inch face fully above the ground. The edges shall have a 1-inch x 1-inch bevel. All timbers shall be placed perpendicular to the direction of travel. The timbers shall be long enough to span the vehicle passing over them and shall be anchored down by any convenient means. The equipment shall experience

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no damage from traversing the course in either direction, for 20 laps at 5 mph. A lap is defined as traversing the course in one direction. During this test the van doors and covers shall be closed and secured by their latches. Rear platform shall be in upright position.

4.8 Railroad transportation test.- The electronic shops shall be loaded on a railroad flatcar (test car) in accordance with paragraph 3.6. The test shall be conducted on a flat stretch of track. A loaded car totaling 165,000 lbs., traveling at 9 miles per hour (or equivalent impact energy conditions approved by the government) shall be impacted against the test flat car coupled to two other empty cars. These three cars shall be stationary with the brakes off. Four impacts shall be performed, two impacts into each end of the test flat car. The cabling and blocking holding the van in place shall be tight at the start of each impact run. If the cabling or blocking is torn loose by the impact, the run shall be repeated. A damage survey shall be made after each impact. The electronic shops shall experience no permanent damage during this test.

4.9 Blackout protection.- The electronic shops shall be tested for conformance to paragraph 3.7.

4.10 Mounting Insert Test.-

4.10.1 First article and Group C.- Four of each size insert shall be randomly selected for test. Each insert shall be tested with axial load followed by a torque load in accordance with Table V. After test the requirements of paragraph 3.8 shall be met. Failure of any insert shall be cause for rejection of the sample equipment.

4.10.2 Group B Insert Test.- Five of each size insert (if the total quantity of any size is less than five, all of that size shall be tested) shall be randomly selected in each sample equipment. Each selected insert shall be tested in accordance with Table V. After test the requirements of 3.8 shall be met. Failure of any insert shall be cause for rejection of the sample equipment.

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TABLE V - Mounting Insert Loads

Insert Size	First Article and Group C Tests		Group B Tests	
	Axial (lbs)	Torque (inch-lbs)	Axial(lbs)	Torque(inch-lbs)
3/8-16	2000	83	1000	83
5/16-18	2000	46	1000	46
1/4-20	1300	30	650	30
#10-32	600	12	300	12

4.11 Electrical Installation Tests AN/ASM-189(). - The tests of 4.11 thru 4.11.3 shall be performed on each assemblage. When required by the test, power supplied to the van shall be 120/208 volts, 60 Hz, three-phase. Prior to testing, an equipment ground shall be connected to the ground lug on the power entrance box/panel.

4.11.1 Power system wiring and components test. - Power wiring and components test shall be made with all electrical power sources and loads removed or disconnected. These shall include:

- a. Fluorescent lamps, lamp starters and ballasts
- b. D.C. Power Supply (Silicon Rectifier Unit)
- c. Distribution box/panel neon indicator lamp (power on), phase sensor assembly and buzzer transformer.
- d. Fans, heater elements and air conditioners.
- e. Conductors to voltmeter and frequency meter terminals.
- f. Entrance power indicator lamp.
- g. Motor-Generator Sets, PU-545

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h. Wye-to-delta and 26 volt transformers and indicator lamps in the 400 cycle power system. The green wire connected between the neutral 60 cycle power line conductor termination and van ground shall be disconnected so as to unground the neutral power line conductor during these tests. All circuit breakers, switches and controls of the 60 cycle, 400 cycle and DC power system shall be placed in the ON position. All fuses shall be in place.

4.11.1.1 Continuity of circuit conductors.- Continuity tests shall be made on each power line circuit of the 60 cycle, 400 cycle and DC power system employing a low voltage continuity measuring instrument and suitable test jig. Measurements shall include continuity measurements between:

a. Each line (including neutral) of the 60 cycle, three phase main power entrance connector; and all distribution terminations thereof at convenience receptacles, equipment receptacles, lighting wire terminations, test position receptacles, central heating control relay input contact terminals, and DC power supply (Silicon Rectifier Unit) input power wire terminations.

b. Each of the central heating control relay load contacts and respective wire terminations at all central heater elements.

c. Each line of the 28 volt/DC power supply (Silicon Rectifier Unit); and all output conductors distribution terminations thereof at PU-545 sets, test position receptacles and output receptacle in power entrance box.

d. Each line (including neutral) of each 400 cycle three phase power output connector of PU-545 sets; and distribution terminations thereof at all receptacles.

e. Mechanical (safety) ground connection at all receptacles; and van ground terminal.

4.11.1.2 Dielectric strength of insulation tests shall be made on each power line circuit conductor, including neutral conductors, of the 60 cycle and 400 cycle power distribution systems; and DC distribution system as given below. Method 301 of MIL-STD-202 applies. A test voltage of 500 volts DC shall be applied for 30 seconds to the conductor under test with all other remaining 60 cycle, 400 cycle, and DC conductors placed at ground potential. Dielectric tests shall be made by applying the test voltage between ground and the following terminals:

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- a. 60 cycle power entrance connector:
pin No. 1
pin No. 3
pin No. 4
- b. 400 cycle PU-545 output connectors:
pin A
pin B
pin C
pin G
- c. DC power Binding Posts, Position No. 5;
-(Black) Terminal
+Terminal
- d. 3 phase 400 cycle delta receptacles, Position No. 5;
L1
L2
L3
- e. 26 volt 400 cycle receptacle, Position No. 5:
Line 1
Line 2

4.11.1.3 Resistance of insulation.- Insulation resistance tests shall be made on each power line conductor. Method 302 of MIL-STD-202 applies. Test conditions, preparation, points of measurement and grounding of 60 cycle, 400 cycle and DC conductors shall be as given in 4.11.1.2 above. The insulation resistance of all conductors with respect to ground shall exceed 10 megohms.

4.11.2 Power distribution and operational function tests.- Power distribution and operational function tests shall be made subsequent to the tests of 4.11.1 and with all electrical sources and loads connected. All components which are part of and/or associated with the electrical power system shall be in-place and connected as per drawings. Prior to conducting the tests of 4.11.2.1 thru 4.11.2.5, the following shall be accomplished:

- a. Secure van exhaust fan and air conditioner port covers in OPEN position.

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- b. OPEN all doors.
- c. Provide and place suitable test lamps or equivalent test indicators in each DC, 60 cycle, and 400 cycle power output receptacle, including weatherproof outlets, and between each pair of DC Binding Posts. Three lamps or test indicators shall be provided at each three phase outlet receptacle. Polarity sensitive indicator, such as lamp and diode shall be used at DC outlets.
- d. Place all circuit breakers (including main) and meter switch on the 60 cycle 120/208 v power Distribution Panel in the OFF position.
- e. Place the DC Power Supply Switch (120/208VAC input) in the OFF position.
- f. Place all DC circuit breakers, 400 cycle circuit breakers and meter switch on the DC and 400 cycle control panel in the OFF position.
- g. Remove two ceiling panels so as to expose central heating elements.
- h. Connect 24 volt battery in emergency lighting box at rear.
- i. Place the blackout by-pass switches in the BYPASS position.
- j. Place the outside DC, 60 and 400 cycle outlet switches in the ON position, (located in power entrance box).
- k. Place roadside and curbside temperature control switches in the "Heat" position.
 - l. Set thermostat for maximum temperature.
- m. Place the four lighting control switches in the ON position.

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4.11.2.1 60 Cycle AC Power Distribution Tests.-

a. Apply 120/208 three phase 60 cycle power to connector in power entrance box. CORRECT PHASE AND POWER ON indicator lamps shall light. Reverse power line conductors L1 L2; Incorrect Phase lamp shall light. Restore power line conductors to proper connector terminals.

b. Rotate meter switch to positions A, B and C; Frequency meter and voltmeter shall indicate specific line voltages and frequency in each switched position.

c. Place main circuit breaker in ON position. Turn each branch circuit breaker ON in sequence given below. The indication shall be as listed for each Breaker.

<u>Circuit Breaker No.</u>	<u>Indication</u>
1	Odd ceiling lights shall light
2	Even ceiling lights shall light
24	Air conditioners # 1 and # 2 shall move air into duct and roadside and curbside exhaust fans shall operate
11	All heater #1 elements (6) shall get hot
12	All heater #2 elements (6) shall get hot
15	60 cycle test lamps in receptacle,
16	60 cycle test lamps in receptacle, bench position #2 shall light
17	60 cycle test lamps in receptacle, bench position #3 shall light
18	60 cycle test lamps in receptacle, bench position #4 shall light
19	60 cycle test lamps in receptacle, bench position #5 shall light
20	60 cycle test lamp in three curbside convenience receptacles shall light
21	60 cycle test lamps in six roadside convenience receptacles shall light

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22	Air Compressor shall operate
23	60 cycle test lamp in power entrance box shall light
25	Security alarm shall sound when button in security box and at rear door are depressed
26	Test lamp in DRILL press receptacle shall light
27	Test lamp in inverter receptacle shall light

4.11.2.2 28 volt DC power distribution tests.-

- a. Place the DC Power Supply Input Control Switch in ON position.
- b. Turn ON Silicon Rectifier Unit (28 V DC supply). Ascertain outward movement(exhaust) of air from louvers of unit. Adjust DC voltage control until meter indicates 28 volt output.
- c. Turn each branch circuit breaker ON in sequence given below. The indication shall be as listed for each breaker.

<u>Circuit Breaker</u>	<u>Indication</u>
Right Side, Test Position No. 1	Indicator on Right DC binding posts shall light
Left Side, Test Position No. 1	Indicator on Left DC binding posts shall light
Right Side, Test Position No. 2	Indicator on Right DC binding posts shall light
Left Side, Test Position No. 2	Indicator on Left DC binding posts shall light
Right Side, Test Position No. 3	Indicator on Right DC binding posts shall light
Left Side, Test Position No. 3	Indicator of Left DC binding posts shall light

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Right Side, Test Position No. 4	Indicator on Right DC binding posts shall light
Left Side, Test Position No. 4	Indicator on Left DC binding posts shall light
Right Side, Test Position No. 5	Indicator on Right DC binding posts shall light
Left Side, Test Position No. 5	Indicator on Left DC binding posts shall light
28V DC Out	DC Test lamp in power entrance box (28V DC Out) Shall light

4.11.2.3 400 cycle AC Power Distribution Tests.-

a. Place circuit breaker, PU-545 No. 1 in ON position; PU-545 No. 1 shall operate and associated Power On indicator lamp shall light.

b. Rotate meter switch to Positions A, B and C (PU-545 No. 1). Frequency meter and voltmeter shall indicate specific line voltages and frequency. Adjust voltage control until voltmeter indicates 115 volts.

c. Place 400 cycle curbside circuit breaker in ON position. All 400 cycle 1 phase and 3 phase indicator lamps in receptacles, positions No. 1 and No. 2 shall light.

d. Place circuit breaker, PU-545, No. 2 in ON position; PU-545, No. 2 shall operate and associated Power ON indicator lamp shall light.

e. Rotate meter switch to positions A, B and C (PU-545, No. 2), frequency meter and voltmeter shall indicate specific line voltages and frequency. Adjust voltage control until voltmeter indicates 115 volts.

f. Place 400 cycle roadside circuit breaker in ON position. All 400 cycle 1 phase, 3 phase delta and 3 phase wye indicator lamps in receptacles, positions 3, 4 and 5 shall light.

g. Remove 26V, 5 amp fuse; indicator lamps in 26 volt, (400 Cycle) receptacles, Positions 3, 4 and 5, shall go out, reinstall fuse.

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h. Remove the three output, 3 amp fuses; indicator lamps in 3 phase 400 cycle receptacles, positions 3, 4 and 5 shall go out. Ascertain proper connection of phases by replacing one fuse in each of the three fuse holders with the other 2 fuses removed and associating the fuse replaced with lamp indications. Reinstall all fuses.

1. Ascertain proper connection of 400 cycle 1 phase and 3 phase wye lines at all receptacles, positions 1, 2, 3, 4 and 5 as follows: (Remove the four 400 cycle fuses from the 400 cycle control box prior to testing)

Position 1.- Place 400 cycle roadside and curbside circuit breakers in the OFF position.

Position 2.- Connect a temporary jumper between line and load terminals of L1, L2 and L3 on each circuit breaker.

Position 3.- Correlate energized line with test lamp indications. (Replace all Fuses)

4.11.2.4 Power control and switch tests.- Power control and switch tests shall be made with all 60 cycle, 400 cycle and DC circuit breakers in the ON position. The DC Power Supply Switch and Silicon Rectifier Unit shall also be placed in the ON position. All indicator lamps placed in receptacles by 4.11.2c shall glow. Test preparations given by 4.11.2 a, b and m apply.

a. Operate each control and switch in sequence and to position as given below. The indication shall be as listed.

<u>Switch</u>	<u>Switch Position</u>	<u>Indication</u>
Lights, even No. 5	OFF	Curbside lamp string (even) shall extinguish.
Lights, even No. 8	OFF	Roadside lamp string (even) shall extinguish.
Lights, Odd No. 6	OFF	Curbside lamp string (odd) shall extinguish.
Lights, Odd No. 7	OFF	Roadside lamp string (odd) shall extinguish.
Air Compressor	ON	Air Compressor shall operate until pressure reaches 100 psi (Operate pressure relief valve to restart Unit).

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Air Compressor	OFF	Air Compressor shall stop.
115 V 60 cycle Power Out	OFF	Test lamp in associated receptacle shall go out.
28V DC power out*	OFF	Test lamp in associated receptacle shall go out.
Fan, Roadside	OFF	Fan shall stop.
Fan, Curbside	OFF	Fan shall stop.
Air Conditioner #1	Control switch- Heat	Air conditioner #1 shall move air into ducts
Heater, Roadside #1**	Thermostat - Min Temp	The six heating elements on roadside shall radiate heat.
Heater, Roadside #1**	Thermostat - Max Temp	All heating elements shall cool and air conditioner #1 shall stop.
Air Conditioner #2	Control Switch - Heat	Air conditioner #2 shall move air into ducts
Heater, Curbside #2**	Thermostat - Min Temp	The six curbside heating elements shall radiate heat
Heater, Curbside #2**	Thermostat - Max Temp	All heating elements shall cool and air conditioner #2 shall stop.
Air Conditioner #1***	Control Switch - Cool	Air conditioner #1 shall emit cooler than ambient air.
Air Conditioner #1***	Thermostat - Min Temp	Air conditioner #1 shall stop.
Air Conditioner #2***	Control switch - Cool	Air conditioner #2 shall emit cooler than ambient air
Air conditioner #2***	Thermostat - Min Temp	Air conditioner #2 shall stop.

* Located in power entrance box.

** Should van ambient temperature exceed the high range setting of thermostat, ambient should be lowered before performing this test.

*** Should van ambient temperature be lower than lowest range setting of thermostat, ambient should be raised before performing this test.

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b. Place all lighting control switches in the ON position. Place both blackout by-pass switches in the BLACKOUT position.

(1) Close van rear and side doors, vestibule door and delivery counter door. All lamps shall light, including neon vestibule lamp.

(2) Open vestibule door and delivery counter door. All lamps shall remain on.

(3) In sequence, open and close van side and rear doors. Light shall go out when a door is opened. This includes the side neon vestibule lamp.

(4) Open van side door and close vestibule door. All lamps shall light.

(5) Open van rear door (nearest roadside) and close delivery counter door. All lamps shall light.

4.11.2.5 Central Heating and air-conditioner thermostats and safety controls.-

<u>Switch</u>	<u>Switch Position</u>	<u>Indication</u>
Circuit Breaker 24 Heater, Roadside No. 1*	ON Control Switch- Heat, Thermostat at Max.	Red Lamp will light a relay panel. Air will blow through vents, red lamp will extinguish, and heater relays and heater shall operate for the latter to radiate heat from all six elements.
Thermostat	Adjust setting to below ambient.	Heater will stop radiating heat
Thermostat	Adjust setting to above ambient.	Heater will reradiate heat.
Heater No. 1	Control Switch OFF	All heating elements shall cool.
Thermostat	Adjust setting to below ambient.	

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Air Conditioner** No. 1	Control Switch COOL	Air conditioner shall emit cooler than ambient air.
Thermostat	Adjust setting to higher than ambient	Air conditioner No. 1 will stop emitting cooler than ambient air.
Air Conditioner Roadside No. 1	Control Switch OFF	Air conditioner No. 1 will stop.
Sail switch in Roadside duct	Arrange to stay in OFF Position	
Heater* Roadside No. 1	Control Switch Heat	Red lamp No. 1 will light at relay panel.
Heater, Curbside No. 2*	Control Switch heat, thermostat at Max.	Red lamp will light at relay panel. Air will blow through vents, red lamp shall extinguish and the heater relays and heater No. 2 shall operate for the latter to radiate heat from all six elements.
Thermostat	Adjust setting to below ambient	Heater will stop radiating heat.
Thermostat	Adjust setting to above ambient.	Heater will re-radiate heat.
Heater No. 2	Control Switch OFF	All heating elements shall cool.
Thermostat	Adjust Thermostat to below ambient.	
Air conditioner** No. 2	Control Switch COOL	Air conditioner shall emit cooler than ambient air.
Thermostat	Adjust setting to higher than ambient	Air conditioner No. 2 will stop emitting cooler than ambient air.
Air conditioner, Curbside No. 2	Control Switch OFF	Air conditioner No. 2 will stop.
Sail switch in Curbside air duct	Arrange to stay in OFF position.	
Heater*, Curbside No. 2	Control Switch HEAT	Red lamp No. 2 will light at relay panel.

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Restore all switches to OFF and normal working order

- * Should van ambient temperature exceed high range setting of thermostat, ambient should be lowered before performing this test.
 - ** Should van ambient temperature be lower than lowest range setting of thermostat, ambient should be raised before performing this test.
-

4.11.3 Test of phone circuit.- Connect two wires from a test phone to binding posts in security entrance box. Connect tinned ends of the telephone cord to the binding posts on TA-312/PT mounted in van. Operate ringer on each phone, in turn, and talk into each phone. Phones shall ring, and the conversation shall be loud and clear.

4.12 Electrical installation tests - AN/ASM-190().- The tests of 4.12 thru 4.12.2.4 shall be performed on each assemblage. When required by the test, power supplied to the van shall be of 120/208 volts, 60 Hz, three phase delta configuration. Prior to testing, an equipment ground shall be connected to the ground lug on the power entrance box panel.

4.12.1 Power system wiring and components test.- Power wiring and components tests shall be made with all electrical power loads removed or disconnected. These shall include:

- a. Fluorescent lamps, lamp starters and ballasts.
- b. Phase sensor assembly and buzzer transformer.
- c. Fans, heater elements, air conditioner and refrigerator.
- d. Neon and desk lamps.
- e. The GREEN wire connected between the neutral 60 cycle power line conductor termination and van ground shall be disconnected so as to unground the neutral power line conductor during these tests. All circuit breakers, switches, and controls of the 60 cycle distribution system shall be placed in the ON position. All fuses shall be in place.

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4.12.1.1 Continuity of circuit conductors.- Continuity tests shall be made on each power line circuit employing a low voltage continuity measuring instrument and suitable test jig. Measurements shall include continuity measurements between:

a. Each line, including neutral, of the 60 cycle, three phase main power entrance connector; and, all distribution terminations thereof at convenience receptacles, equipment receptacles, lighting wire terminations, and central heating control relay input contact terminals.

b. Each of the central heating control relay load contacts and respective wire terminations at all central heater elements.

c. Mechanical (safety) ground connection at all receptacles and van ground terminal.

4.12.1.2 Dielectric strength of insulation.- Dielectric strength of insulation tests shall be made on each power line circuit conductor, including the neutral. Method 301 of MIL-STD-202 applies. A test voltage of 500 volts DC shall be applied for 30 seconds to the conductor under test with all other 60 cycle conductors placed at ground potential. Dielectric tests shall be made by applying the test voltage between ground and the following terminals:

60 cycle power entrance connector

Pin No. 1

Pin No. 2

Pin No. 3

Pin No. 4

4.12.1.3 Resistance of insulation.- Insulation resistance tests shall be made on each power line conductor. Method 302 of MIL-STD-202 applies. Test conditions, preparation, points of measurement and grounding of conductors shall be as given in 4.12.1.2 above. The insulation resistance of all conductors with respect to ground shall exceed 10 megohms.

4.12.2 Power distribution and operational function tests.- Prior to conducting the tests of 4.12.2 thru 4.12.2.4 the following shall be accomplished:

a. Secure the van exhaust fan and fresh air entry covers in the OPEN position.

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- b. Open all van and vestibule doors.
- c. Provide and place suitable test Lamps or equivalent tests indicators in each 60 Hz convenience power outlet receptacle.
- d. Place all circuit breakers (including main) on the 60 Hz 120/208V power distribution panel in the OFF position.
- e. Place HEAT- OFF-COOL switch in the HEAT position.
- f. Place all lighting control switches in the ON position.
- g. Connect exhaust fan power cord and place FAN SWITCH in the ON position.
- h. Place the blackout-bypass switches in the BYPASS position.
- i. Place control switch of air conditioner in VENTILATION position.
- j. Set thermostat for maximum temperature.
- k. Connect refrigerator power cord.

4.12.2.1 60 Hz AC power distribution tests

- a. Apply 120/208 volt power per 4.12 above, to the connector in the power entrance box. CORRECT PHASE indicator lamp shall light. Reverse power line conductors L1L2; INCORRECT PHASE lamp shall light. Restore power line conductors to proper connector terminals.
- b. Place main circuit breaker in ON position. Turn each branch circuit breaker ON in sequence given below. The indication shall be as listed for each breaker.

Circuit Breaker No.

- | | |
|----|--|
| 7 | Odd ceiling lamps and desk lamp shall light. |
| 8 | Even ceiling lamps shall light. |
| 11 | Air-conditioner shall move air into duct. |

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12	Heater Elements shall heat.
15	Test lamps in convenience receptacles shall light.
16	Refrigerator shall operate.
17	Exhaust fan shall operate.
18	Security alarm shall sound when button in security entrance box or rear vestibule is depressed.

4.12.2.2 Power control and switch tests.- Power control and switch tests shall be made with all circuit breakers in the ON position. All indicator lamps placed in receptacles by 4.12.2c shall glow. Test preparations given by 4.12.2a, b, and f apply.

a. Operate each control and switch in sequence and to position given below. The indication shall be as listed:

<u>Switch</u>	<u>Switch Position</u>	<u>Indication</u>
Lights, even	OFF	Even numbered lamps shall extinguish.
Lights, odd	OFF	Odd numbered lamps shall extinguish.
Desk Light	OFF	Desk Lamp shall extinguish.
Fan	OFF	Fan shall stop.

b. Place lights even, lights odd and Desk lamp control switches in the ON position. Place both blackout-bypass switches in the BLACKOUT position.

(1) Close van rear and side doors, and both vestibule doors. All ceiling lamps, Desk lamp and rear and side vestibule neon lamps shall light.

(2) Open side and rear vestibule doors. All lamps shown in (1) above shall remain on.

(3) In sequence, open and close van side and rear doors. All lamps shown in (1) above shall go out when any one of three van doors is opened.

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(4) Open van side door and close side vestibule door. All lamps shall remain on except vestibule neon lamp.

(5) Open van rear door (nearest roadside) and close aft vestibule door. All lamps shall remain on.

(6) Open van rear door (nearest curbside). All lamps shall go out. Close van rear door (nearest curbside).

(7) Open aft vestibule door and place rear blackout-bypass switch in Bypass. All lamps shall light. Place rear blackout-bypass switch in Blackout.

(8) Open side vestibule door and place side vestibule blackout-bypass switch in Bypass. All lamps shall light.

(9) Connect suitable power source (24VDC) to trailer electrical system connector. Place D.C. light switch in ON position. Van dome lights shall light.

4.12.2.3 Central heating and air conditioner controls.-

<u>Switch</u>	<u>Switch Position</u>	<u>Indication</u>
Heat-Off-Cool	Heat	Red lamp (no air flow) on heater module will light.
Air Conditioner control	External Control	Air shall blow thru vents, red lamp on heater module shall extinguish, amber lamp (Heat-On) shall light, heater contactors shall actuate and the heater elements shall radiate heat.
Thermostat**	Adjust Setting to below ambient temperature	Amber lamp on heater module shall extinguish, heater contactors shall deactivate and heater elements shall cool.
Thermostat*	Adjust setting to above ambient temperature	Amber lamp on heater module shall light, heater contactors shall activate, and the heater elements shall radiate heat.
Air conditioner control	OFF	Air shall stop moving into duct, Red lamp on heater module shall light, heater elements shall cool.

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Sail Switch	Arrange to Stay in on position	Red lamp on heater module shall extinguish, Amber lamp shall light, heater elements shall radiate heat
Thermal safety	No adjustment	After a short period of time switch shall actuate and all heating elements cool, the switch shall de-actuate and the elements shall again radiate heat.
Sail-Switch	Return to Normal operation	
Heat-Off-Cool	Cool	
Air Conditioner control	External Control	Air conditioner shall emit cooler than ambient air, blower shall move air into duct.
Thermostat *	Adjust Setting to above ambient temperature	Air conditioner shall stop cooling, blower shall continue to move air into duct.
Thermostat**	Adjust Setting to below ambient temperature	Air conditioner shall emit cooler than ambient air, blower shall move air into duct.
Heat-Off-Cool	OFF	Air conditioner shall stop cooling, blower shall con- tinue to move air into duct.

* Should van ambient temperature exceed high range setting of thermostat, ambient should be lowered before performing test.

** Should van ambient temperature be lower than lowest setting of thermostat, ambient should be raised before performing test.

4.12.2.4 Test of phone circuit.-

a. Connect two wires from a test phone to REMOTE binding post in security box. Connect leads of telephone wire above desk to binding post of second test phone. Prepare phones per appropriate instruction manual. Place phones, Remote/Entrance switch in the Remote position. Operate ringer on each phone, in turn, and talk into each phone, in turn. Phones shall ring and the conversation shall be loud and clear.

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b. Repeat tests of 4.12.2.4a with test phone connected to Entrance binding posts and phones Remote/Entrance switch in the ENTRANCE position.

4.13 Testing of solderless terminal-lug connections.- Connections made with solderless terminal-lugs shall be tested for conformance to 3.19.4.

4.14 Inspection for interchangeability.- The dimensions below shall be gaged or measured to determine compliance with the physical interchangeability requirements of 3.22. When a dimension is not within specified or design limits, it shall be considered a defect.

a. Size and mounting dimensions of brackets and mounting plates.

b. Size and mounting dimensions of racks and cabinets.

c. Size and mounting dimensions of storage drawers.

d. Size, mounting dimensions, and capacity of ventilating equipment.

4.15 Visual and mechanical inspection.- Equipment shall be examined for the defects listed in Standard MIL-STD-252, the requirements of 3.20 and Table VI.

Table VI - Classification of Visual and Mechanical Defects

Classification	Defects
Major	<ol style="list-style-type: none"> 1. Mounting plates missing or mislocated 2. Aircraft loading data plate, incomplete, incorrect or illegible. 3. Welds - cracked or porous. 4. Parts, brackets or equipment loose or missing. 5. Drawers, slides, doors, etc. inoperative. 6. Power receptacles, switches, jacks, wire ducts or other electrical components loose, inoperative or improperly located.

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7. Locking or holding devices missing or inoperative.
8. Lock washer or lock nut missing.
9. Burrs and sharp edges in wire duct not removed.
10. Gaps between sections of wire duct exceed 1/16".
11. Sealer improperly applied (holes, separations or lack of adhesion).
12. Insufficient sealer applied (outside opening).

Minor

1. Drawers, slides, door, not easily operable.
2. Fastening devices difficult to operate.
3. Finish - abrasions or scratches.
4. Screw loose.
5. Burrs and sharp edges on brackets not removed.

4.16 Quality conformance inspection of preparation for delivery.- Preparation for delivery shall be inspected in accordance with Specification MIL-P-116 to determine conformance to the requirements of section 5 below.

4.17 Rough handling test (preparation for delivery).- When rough handling test in accordance with Specification MIL-P-116 is required by the contract (See 6.2), the following functional tests shall be conducted to determine freedom from operational malfunction caused by the rough handling:

Paragraph 4.15 Visual and Mechanical

5. Packaging.- Packaging shall be in accordance with SPI1G0037.

6. NOTES

6.1 Intended use.- Electronic Shops, Semi-trailer Mounted, AN/ASM-189(), repair shop van, and AN/ASM-190(), storage van are used to provide backup maintenance support for the electronic equipment components installed in aircraft.

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6.2 Ordering data.- Procurement documents should specify the following:

- a. Title, number, and date of this specification and any amendment thereto.
- b. Levels of preservation and packaging and packing (See section 5).
- c. Whether rough handling and functional test are required.
- d. Submission of the statement of treatment referenced in 3.23, as soon as possible after award of contract. This statement should be submitted to the Contracting Officer.
- e. Data submissions required by MIL-P-11268 require appropriate data item(s) in the contract.

6.3 Definitions.-

6.3.1 Inspection.- Inspection is the examination or testing, or both, of supplies to determine compliance with applicable requirements. Sampling is an element of inspection.

6.3.2 Examination.- Examination consists of simple, generally non-destructive determinations of compliance, without use of special testing equipment.

6.3.3 Testing.- Testing consists of determinations of compliance, using technical means.

6.4 Group C inspection.- Approval to ship may be withheld, at the discretion of the government, pending the decision from the Contracting Officer on the adequacy of corrective action. (See 4.5.3.4).

6.5 Nomenclature.- The parenthesis in the nomenclature will be deleted or replaced by a letter identifying the particular design; for example: AN/ASM-X. The contractor should apply for nomenclature in accordance with the applicable clause in the contract.

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6.6 Verification inspection.- Verification by the government will be limited to the amount deemed necessary to determine compliance with the contract and will be limited in severity to the definitive quality assurance provisions established in this specification and the contract. The amount of verification inspection by the government will be adjusted to make maximum utilization of the contractor's quality control system and the quality history of the product.

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