

INCH-POUND

MIL-E-7080B  
AMENDMENT 4  
28 February 1992  
SUPERSEDING  
AMENDMENT 3  
29 April 1968

MILITARY SPECIFICATION  
ELECTRIC EQUIPMENT, AIRCRAFT,  
SELECTION AND INSTALLATION OF

This amendment forms a part of MIL-E-7080B, dated 6 June 1962,  
and is approved for use by all Departments and Agencies of  
the Department of Defense.

## PAGE 1

- \* Under Section 2, APPLICABLE DOCUMENTS:
- \* Delete "MIL-E-5272 Environmental Testing, Aeronautical and Associated Equipment" and substitute "MIL-STD-810 Environmental Test Methods and Engineering Guidelines."
- \* Delete "MIL-G-6099 Generators and Regulators, Air Cooled, AC, Aircraft" and substitute "MIL-G-21480 Generator System, 400 Hertz, Alternating Current, Aircraft, General Specification for."
- \* Delete "MIL-B-6146 Batteries; Storage, Shielded" and substitute "MIL-B-83769 Batteries, Storage, Lead-Acid, General Specification for."

## PAGE 2

- \* Delete "MIL-I-6181 Interference Control Requirements, Aircraft Equipment" and substitute "MIL-STD-461 Electromagnetic Emission and Susceptibility Requirements for the Control of Electromagnetic Interference."
- \* Delete "MIL-S-6743 Switches; Push-button and Limit" and substitute "MIL-S-8805 Switches and Switch Assemblies, Sensitive and Push (Snap Action), General Specification for."
- \* Delete "MIL-S-6744 Switch Assemblies and Actuators, Push-button and Limit" and substitute "MIL-S-8805 Switches and Switch Assemblies, Sensitive and Push (Snap Action), General Specification for."

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- \* Delete "MIL-S-6746 Switches, Rotary, Shielded, Aircraft Ignition."
- \* Delete "MIL-R-6809 Regulator, Voltage, 30-Volt, DC Generator."
- \* Delete "MIL-STD-143 Specifications and Standards, Order of Precedence for the Selection of" and substitute "MIL-STD-970 Standards and Specifications, Order of Preference for the Selection of."
- \* Delete "MS33539 Installation Clearance - Type XII Drive, (Generator - Wide Speed Range)."
- \* Delete "MS33590 Circuit Breaker Installation."
- \* Delete "MS33630 Switch, Toggle, Installation of."
- \* Paragraph 2.1, under Military Standards add:
  - "MS33645 Receptacle, Grounding, Installation of
  - MS90298 Connector, Receptacle, Electric Grounding
  - MS90362 Connector, Receptacle, External Electric Power, Aircraft, 115/200 Volt, 400 Hertz."

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- \* Delete "AN2552 Receptacle - External Power, 28 Volt DC."
  - \* Delete "AN3114 Receptacle, External Power, 115/200 Volts, 3 Phase."
  - \* Delete "AND10441 Battery Installation."
- Paragraph 2.1, under Air Force - Navy Aeronautical Standards, delete references to AN3117 and AND10439.

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- \* 3.1.7.3, in the eighth line, delete "MIL-STD-143" and substitute "MIL-STD-970."
- \* 3.1.8.2, in the fifth line, delete "MIL-E-5272" and substitute "MIL-STD-810."

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Paragraph 3.1.8.3.1, delete and substitute:

"3.1.8.3.1 Static ground. When specified, provisions shall be made for the discharge of accumulated charges of static electricity by bringing the aircraft to ground potential on landing, and thus preventing shock to personnel and damage to the aircraft by controlling the point of discharge. The static grounding device shall be so installed as to be bonded to the aircraft structure and shall provide electric contact with the ground on landing. The device shall be adjustable or replaceable to compensate for normal wear, and shall not protrude from the aircraft during flight, except on landing and takeoff, if retractable landing gear is employed."

Paragraph 3.1.8.3.2, in the third line delete "AN3117" and substitute "MS90298." In the fifth line, delete "AND10439" and substitute "MS33645."

- \* 3.1.8.5, in the seventh line, delete "MIL-I-6181" and substitute "MIL-STD-461."

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Add as new paragraph:

"3.1.8.7.10 Electric connectors. Connectors shall be selected so that contacts on the 'live' or 'hot' side of the connection are socket type, rather than pin type, to minimize personnel hazard and to prevent accidental shorting of live circuits when the contactor is unmated."

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- \* 3.2.2, in the third line, delete "MIL-R-6809." In the fourth line, delete "MIL-G-6099" and substitute "MIL-G-21480."
- \* 3.2.4, in the second and third lines, delete "Specification MIL-B-6146" and substitute "MIL-B-83769."
- \* 3.2.4.1, in the first line, delete "in accordance with Standard AND10441 (sump jar installation shall not be provided in naval aircraft) and."

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- \* 3.2.8, in the second line, delete "Specification MIL-G-6099" and substitute "MIL-G-21480."
- \* 3.2.8.1, in the fourth and fifth lines, delete "MS33539."

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Paragraph 3.2.10.1, third, fourth and fifth lines, delete the second sentence and substitute the following: "External power receptacles for 115/200 volt ac service power for Army and Air Force use shall conform to Standard AN3114. External power receptacles for 115/200 volt AC service power for Navy use shall conform to MS90362."

- \* 3.2.10.1, delete "External power receptacles for 28-volt dc service power shall conform to Standard AN2552."
- \* 3.2.10.1, in fifth line, delete "AN3114" and substitute "MS90362."

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- \* 3.2.12.3, delete "Switches shall be installed in accordance with Standard MS33630."

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- \* 3.2.12.6, in fifth line, delete "Specifications MIL-S-6743 and MIL-S-6744" and substitute "MIL-S-8805."
- \* 3.2.12.7, delete "These switches shall be in accordance with Specification MIL-S-6746."

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- \* 3.2.13.3.2, delete "Circuit breakers shall be in accordance with Standard MS33590."

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- \* 6.3, in fourth line, delete "ABC AIR STD 12/6" and substitute "ASCC AIR STD 25/18."
- \* Add "6.4, Subject term (key word) listing.

Ammeter  
Battery  
Breakers, circuit  
Compass  
Connector  
Fuse  
Generator  
Guard, switch  
Lighting  
Motor  
Regulator  
Relay  
Resistor  
Rheostat  
Shunt  
Switch"

**MIL-E-70808  
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**NOTE:** The margins of this amendment are marked with an asterisk or vertical lines to indicate where changes (additions, modifications, corrections, or deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

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**Preparing activity:**  
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