

1. SCOPE

1.1 Purpose.- The purpose of this specification is to authorize the use of reconditioned parts and provide reconditioning instructions for component parts of the electrical system as installed in aircraft received for overhaul and instructions for modifications required to adapt them for installation in Model C-45G and C-45H aircraft.

1.2 Application.- All reconditioning operations and repairs covered by this specification may be accomplished where required without further authorization. Repairs not authorized by this specification cannot be performed without further authorization.

1.3 List of Pages and Revisions.- This specification consists of the pages listed below. An asterisk (\*) denotes the pages revised by the current revision.

<u>Page</u>	<u>Date</u>	<u>Description of Revision</u>	<u>Serial Effectivity</u>
* 1	10-6-53	Note Revision	Record Change
2	4-17-53		
3	4-17-53		
4	4-17-53		
5	4-17-53		
6	4-17-53		
7	4-17-53		
8	4-17-53		
* 9	10-6-53	Add Paragraph 3.2.1	Record Change
*10	10-6-53	Add Paragraph 3.2.1	Record Change
11	4-17-53		
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APPROVED:

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 USAF Quality Control

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PROJECT ENGINEER <i>J. R. Bell</i>				
APPROVAL <i>R. B. Bennett</i>	DATE REVISED 10-6-53	DeSoh Aircraft CORPORATION Wichita 1, Kansas	OVERHAUL SPECIFICATION no. 3601	PAGE 1
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2. APPLICABLE PUBLICATIONS

2.1. Specifications:

2.1.1 Federal.-

QQ-P-416 Plating; Cadmium (Electro Deposited)

2.1.2 Beech.-

FS 370A Finish Specification for Model C-45G and C-45H Aircraft

OS 1001 Wing Installation for Model C-45G and C-45H Aircraft

OS 3610 Electrically Retractable Landing Light

OS 3611 Induction Vibrators

OS 3612 Oil Dilution Solenoid Valve

OS 3613 Dynamic Braking Contactor

OS 3614 Voltage Regulators

OS 3615 Generator Control Relay Switch

OS 7002 Cleaning Procedures for Reconditioned Aircraft

OS 7008 General Acceptable Quality Standards

OS 7010 Removing Corrosion from Aluminum Parts

2.2 Technical Orders.- Compliance with this specification constitutes compliance with the technical orders listed below.

01-1-68A Supplement - Electrical System, Aircraft, Inspection and Maintenance Procedures, dated December 1, 1948

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2.2 Technical Orders.- (Continued)

- 01-1-123 Installation of Static Ground - All Aircraft - dated March 24, 1950
- 01-1-310 Electrical Maintenance Restrictions - All Aircraft - dated November 28, 1947
- 01-1-434 Checking of 28-volt DC Overvoltage Protection Systems - dated November 15, 1950
- 03-5-35 Operation, Service and Overhaul Instructions with Parts Catalog - Type C-4 Cockpit Lamp (Standard) - dated September 5, 1942
- 03-1-27 General - Inspection of Adapter of AAF Voltage Regulator Base, 24-volt Electrical Systems - dated September 25, 1945
- 03-5G-12 Modification of Types C-4, C-4A, C-7 and C-7A Cockpit Light Assemblies - dated September 8, 1950

3. REQUIREMENTS

3.1 Parts Involved.- For parts involved in addition to those covered by this specification; refer to the overhaul specifications listed below.

- OS 1001 Wing Installation for Model C-45G and C-45H Aircraft
- OS 3610 Electrically Retractable Landing Light
- OS 3611 Induction Vibrators
- OS 3612 Oil Dilution Solenoid Valve
- OS 3613 Dynamic Braking Contactor
- OS 3614 Voltage Regulators
- OS 3615 Generator Control Relay Switch

3.1.1 Parts Not Used:

3.1.1.1 Fuselage Electrical Equipment Installation.- All parts listed on Drawings 804-180540, 814-180540, 824-180540, 84-180711, 804-180711, 814-180711, 824-180711, 804-180793, and 804-180900, fuselage

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3.1.1.1 Fuselage Electrical Equipment Installation.- (Continued) electrical equipment installation, will be disposed of at the direction of the customer except those parts listed in Paragraph 3.1.2.1 of this specification.

3.1.1.2 Center Section Electrical Equipment Installation.- All parts listed on Drawings 804-180590, 814-180590, 54-180710, 804-180710, 814-180710, and 804-180785, center section electrical equipment installation, will be disposed of at the direction of the customer except those parts listed in Paragraph 3.1.2.2 of this specification.

3.1.1.3 Firewall Electrical Equipment Installation.- All parts listed on Drawings 804-180550, 814-180555, 84-180780, 804-180780 and 814-180780, firewall electrical equipment installation, will be disposed of at the direction of the customer except those parts listed in Paragraph 3.1.2.3 of this specification.

3.1.1.4 Outboard Wing Electrical Equipment Installation.- All parts listed on Drawings 814-180690 and 84-180697, outboard wing electrical equipment installation, will be disposed of at the direction of the customer except those parts listed in Paragraph 3.1.2.4 of this specification.

3.1.1.5 Wing Warning Light Installation.- All parts listed on Drawing 1181000, wing warning light installation, will be disposed of at the direction of the customer except those listed in Paragraph 3.1.2.5 of this specification.

3.1.1.6 Tail Surfaces Electrical Equipment Installation. 84-180696 and 804-180980; and Static Ground Installation, 180820P.- All parts listed on Drawings 84-180696 and 804-180980, tail surfaces electrical equipment installation, and Drawing 180820P, static ground installation, will be disposed of at the direction of the customer.

3.1.2 Parts to be Reconditioned.- The following parts are to be reconditioned in accordance with the instructions contained herein. "Reconditioned" means the disassembly, cleaning, inspection and correction of discrepancies, repair and/or replacement of components, and modifications to incorporate changes in accordance with applicable engineering drawings to assure an operationally safe and serviceable aircraft.

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3.1.2.1 Fuselage Electrical Equipment Installation.-

AN3106	Electrical plug
AN3107	Electrical plug
AN3108	Electrical plug
AN3100	Electrical receptacle
AN3101	Electrical receptacle
AN3102	Electrical receptacle
AN3057	Clamp
AC39B3334-5	Nut
Type B-2	Landing gear warning horn
AN5775-2	Landing gear warning horn
84-180723	Warning horn support bracket
Type C-4	Lamp assembly
Type C-4A	Lamp assembly
824-180609	Map light base
Type 1589-1 (Style A, B, and C)	Voltage regulator
Type 1589-2 (Style A)	Voltage regulator
40D8445	Voltage regulator base assembly
49C7573	Voltage regulator base assembly
AN3025-1	Generator control relay switch
AN3028-3	Switch guard
26F558G3	Capacitor

3.1.2.2 Center Section Electrical Equipment Installation.-

AN3106	Electrical plug
AN3107	Electrical plug
AN3108	Electrical plug
AN3100	Electrical receptacle
AN3101	Electrical receptacle
AN3102	Electrical receptacle

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3.1.2.2 Center Section Electrical Equipment Installation.- (Continued)

AN3062-8	Fitting
AN3066-8	Nut
AN3370-1	Battery relay
B4A	Battery relay
11751	Battery plug
84-181113	Battery compartment bolt
22500	Terminal covers
AN3210-1	Switch flap limit
AN3210-1	Switch nacelle J-box lower limit
25902	Battery jar cover
AN3371-1	Starter relay
B-8 (Except auto-lite)	Starter relay
B-8A (Except auto-lite)	Starter relay
AN3057-10	Adapter
188023	Lower limit switch box
188023-1	Lower limit switch box
188024	Landing gear conduit J-box cover
188024-1	Landing gear conduit J-box cover
37D6210	Oil dilution solenoid valves
AN4078	Oil dilution solenoid valves
M-441	Oil dilution solenoid valves
6046H39A	Dynamic brake contactor
804-187368	Generator control conduit
804-187369	Generator control conduit
804-187360	Generator conduit J-box assembly
804-187360-1	Generator conduit J-box assembly
180709	Cover, lower limit switch J-box
804-182526	Mechanism limit switch box
804-187358	Generator shunt bracket assembly

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3.1.2.2 Center Section Electrical Equipment Installation.- (Continued)

8TE13	Firewall block
L-72-35	Lead assembly
AVO 1050	Generator equalizer
GE 26F55833	Capacitor
42B3748	External power receptacle
180968	External power receptacle box lid
M-2	Actuator
MC 2711	Actuator

3.1.2.3 Firewall Electrical Equipment Installation.-

NAS52-10B-286	Generator harness conduit
NAS52-10B-306	Generator harness conduit
309613-4BB-0234	Tachometer generator harness conduit
814-180783	Tachometer generator harness conduit
309613-8AB-0161	Starter harness conduit
814-180782	Starter harness conduit
309613-4AA-0194	Carburetor air temperature bulb harness conduit
804-180998	Carburetor air temperature bulb harness conduit
804-180999	Carburetor air temperature bulb harness conduit
AN3106	Electrical plug
AN3107	Electrical plug
AN3108	Electrical plug
AN3100	Electrical receptacle
AN3101	Electrical receptacle
AN3102	Electrical receptacle
AN3380-1	Insert
AN3355-2	Elbow

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3.1.2.3 Firewall Electrical Equipment Installation.- (Continued)

AN3064	Connector
AN3054	Nut
NT5244	Nut assembly
EC52137	Connector
IS52133	Gland
NT5239	Nut
AN3066-8	Nut
AN4116L1	Starter cover
AN5525-1	Electrical resistance bulb
VJR24B3	Induction vibrator
VJR24B3X	Induction vibrator
VJR24B5	Induction vibrator
VJR24B5X	Induction vibrator
VJR24C3	Induction vibrator
VJR24C5	Induction vibrator
70G7G3	Induction vibrator

3.1.2.4 Outboard Wing Electrical Equipment Installation.-

AN3095-3	Electrically retractable landing lights
AN3095-6	Electrically retractable landing lights
AN3095-6A	Electrically retractable landing lights
AN 3095-9	Electrically retractable landing lights

3.1.2.5 Wing Warning Light Installation.-

Type B-3	Lamp assembly
1181000-2	Inboard dummy nose rib
1181000-4	Outboard dummy nose rib
1181000-5	Inner frame
1181000-6	Lamp bracket
1181172	Bracket assembly

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3.1.3 Parts to be Supplied New:

3.1.3.1 Fuselage Electrical Equipment Installation.- All parts called out on Drawing 694-180540 and component parts of assemblies listed thereon, but not listed in Paragraph 3.1.2.1 of this specification will be supplied new.

3.1.3.2 Center Section Electrical Equipment Installation.- All parts called out on Drawing 694-180590 and component parts of assemblies listed thereon but not listed in Paragraph 3.1.2.2 of this specification will be supplied new.

3.1.3.3 Firewall Electrical Equipment Installation.- All parts called out on Drawing 694-180555 and component parts of assemblies listed thereon but not listed in Paragraph 3.1.2.3 of this specification will be supplied new.

3.1.3.4 Outboard Wing Electrical Equipment Installation.- All parts called out on Drawing 694-180668 but not listed in Paragraph 3.1.2.4 of this specification will be supplied new.

3.1.3.5 Tail Surface Electrical Equipment Installation 694-180980; Static Discharge Wicks Installation 694-180821; Static Ground Installation 694-180820; Wing Warning Light Installation 1181000; and Windshield Wiper Installation 694-180430.-

All parts listed on these drawings will be supplied new.

3.1.3.6 Wiring Diagram 694-180600.- This diagram is to be used in the wiring of the electrical system of the C-45G and C-45H aircraft.

3.2 Cause for Rejection.- The conditions listed below and damage or wear which cannot be corrected by one or more of the methods described herein is cause for rejection.

3.2.1 Electrical Plugs Type AN3106, AN3107, and AN3108.- Obsolete plugs in which no provisions have been incorporated for safetying will not be used.

3.3 Reconditioning Operations:

3.3.1 Fuselage Electrical Equipment Installation:

3.3.1.1 Lamp Assembly Type C-4 and C-4A.-

(a) Check lamp for satisfactory operation. If bulb is discolored, replace. Check momentary switch contact. Check operation of rheostat. Clean lenses and reflector. Inspect connections.

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3.3.1.1 Lamp Assembly Type C-4 and C-4A.- (Continued)

- (b) Test lamp assembly for insulation by applying 500 volts alternating current of commercial frequency across each insulated terminal and the lamp housing (ground) for a period of one minute. Any breakdowns of insulation during this test shall be cause for rejection of the lamp assembly.
- (c) If not already accomplished, install insulator made from 1- by 1-1/4- by 1/32-inch phenolic sheet with 7/16-inch diameter hole drilled in center between rheostat control and mounting bracket screws. Mounting bracket washers must be in place and screws tightened before installation of insulator. Cover heads of mounting bracket screws with glyptal.

3.3.1.2 Voltage Regulator Base Assemblies 40D8445 and 49C1573.-

- (a) Remove vibration mounts and terminal studs and replace if damaged.
- (b) Wipe off all dust, dirt, grease or oil on the base assembly with a clean dry cloth. Polish the spring blade contact tips with crocus cloth, and wipe with a clean cloth moistened with carbon tetrachloride. Do not use emery cloth or sandpaper on the contact blades. If the spring contact blades are cracked, broken, or have lost their tension, replace the base assembly.
- (c) Remove the adapter from beneath the flat nuts on the "B" and "C" terminal studs and relocate it above the flat nuts on these studs, if this has not been previously accomplished. If adapter is missing, a new one must be installed.

3.3.1.3 Electrical Plugs Type AN3106, AN3107 and AN3108, and Electrical Receptacles Type AN3100, AN3101 and AN3102.-

- (a) Inspect the contacts for evidence of corrosion. If corrosion is present, clean the surfaces with a brush or rag. Finish cleaning with alcohol or other noncorrosive solvent.
- (b) Inspect the coupling nut for battered threads. If threads are not in good condition, replace the coupling nut.

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3.3.1.3 Electrical Plugs Type AN3106, AN3107, and AN3108; and Electrical Receptacles Type AN3100, AN3101, and AN3102.-  
(Continued)

(c) Split and solid shell connectors shall be used as designated by drawings.

3.3.1.4 Clamps AN3057; Nuts AC39B3334-5; and Switch Guard AN3028-3.-

(a) Inspect for nonrepairable conditions.

(b) Clean in accordance with OS 7002.

3.3.1.5 Capacitor 26F558G3.-

(a) Inspect for nonrepairable conditions.

(b) Functional test.

3.3.1.6 Map Light Base 824-180609; and Warning Horn Support Bracket 84-180723.-

(a) Inspect for nonrepairable conditions.

(b) Clean in accordance with OS 7002.

(c) Remove corrosion in accordance with OS 7010.

(d) Repair as necessary as authorized in Paragraph 3.4.1.1 of this specification.

(e) Paint in accordance with FS 370A.

3.3.1.7 Landing Gear Warning Horn Type E-2 and AN5775-2.-

(a) Inspect for nonrepairable conditions.

(b) Clean in accordance with OS 7002.

(c) Remove corrosion and mildew from internal components in accordance with OS 7010.

(d) Replace any defective parts.

(e) Adjust as follows:

(1) Remove motor cover and connect horn to a fully charged battery. Loosen locknut and move adjusting nut up or

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3.3.1.7 Landing Gear Warning Horn Type E-2 and AN5775-2.-  
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down until the desired sound intensity is obtained. Tighten the locknut and recheck.

- (2) Check the air gap between field and armature with a feeler gage. These two parts should be parallel and spaced .028 to .030.
- (3) Loosen clamping screw and turn resonator in a clockwise direction to decrease the gap or in a counterclockwise direction to increase the gap. Back up the adjusting nut so that it does not break the contact and apply 24 volts across the field coil. This brings the armature and field in a parallel relation while the clamping screw is being tightened.
- (4) Check air gap with feeler gage and readjust as in Paragraph e (1) above.

(f) Finish in accordance with FS 370A.

3.3.2 Center Section Electrical Equipment Installation:

3.3.2.1 Lead L-72-35.-

- (a) Check for abrasion or other damage of the insulation. Repair as necessary. Check the resistance of the lead.

3.3.2.2 Generator Equalizer AVO 1050; Capacitor GE 26F558G3; Actuators M-2 and MC 2711; Battery Plug 11751.-

- (a) Inspect for nonrepairable conditions.
- (b) Functional test.

3.3.2.3 External Power Receptacle 42B3748.-

- (a) Inspect for nonrepairable conditions. Check base carefully for cracks.
- (b) Clean in accordance with OS 7002.
- (c) Chase threads to clean.

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3.3.2.4 Electrical Plugs Type AN3106, AN3107, and AN3108; and Electrical Receptacles Type AN3100, AN3101, and AN3102.-

- (a) Recondition as outlined in Paragraph 3.3.1.3 of this specification.

3.3.2.5 Battery Relays AN3370-1 and B-4A; Starter Relays AN3371-1, B8, and B8-A (Except Auto-Lite).-

- (a) Inspect for nonrepairable conditions.  
(b) Functional test.

3.3.2.6 Flap Limit Switch AN3210-1 and Nacelle J-Box Lower Limit Switch AN3210-1.-

- (a) Inspect for nonrepairable conditions.  
(b) Functional test.

3.3.2.7 Fitting AN3062-8; Nuts AN3066-8; Adapter AN3057-10; and Terminal Cover 22500.-

- (a) Inspect for nonrepairable conditions.  
(b) Clean in accordance with OS 7002.

3.3.2.8 Generator Control Conduit 804-187368 and 804-187369.-

- (a) Inspect for nonrepairable conditions.  
(b) Clean in accordance with OS 7002.  
(c) Remove burrs or sharp edges from ferrules and nuts. Replace unserviceable ferrules and nuts.

3.3.2.9 Generator Shunt Bracket Assembly 804-187358; Firewall Block 8T113; and Battery Compartment Bolt 84-181113.-

- (a) Inspect for nonrepairable conditions.  
(b) Clean in accordance with OS 7002.  
(c) Repair as necessary as authorized in Paragraph 3.4.2.1 of this specification.  
(d) Recadmium plate in accordance with Specification QQ-P-416.

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3.3.2.10 Lower Limit Switch Boxes 188023 and 188023-1; Landing Gear Conduit J-Box Covers 188024 and 188024-1.-

- (a) Inspect for nonrepairable conditions.
- (b) Clean in accordance with OS 7002.
- (c) Remove corrosion in accordance with OS 7010.
- (d) Repair as necessary as authorized in Paragraph 3.4.2.2 of this specification.
- (e) Rework box and cover assemblies to print. (Reference CO A22238 and CO A22239)
- (f) Finish in accordance with FS 370A.

3.3.2.11 Lower Limit Switch J-Box Cover 180709; External Power Receptacle Box Lid 180968; Mechanism Limit Switch Box 804-182526; and Generator Conduit J-Box Assemblies 804-187360 and 804-187360-1.-

- (a) Inspect for nonrepairable conditions.
- (b) Clean in accordance with OS 7002.
- (c) Remove corrosion in accordance with OS 7010.
- (d) Repair as necessary as authorized in Paragraph 3.4.2.2 of this specification.
- (e) Paint in accordance with FS 370A.

3.3.3 Firewall Electrical Equipment Installation:

3.3.3.1 Generator Harness Conduit NAS52-10B-286 and NAS52-10B-306; Tachometer Generator Harness Conduit 309613-4BB-0234 and 814-180783; Starter Harness Conduit 309613-8AB-0161 and 814-180782; and Carburetor Air Temperature Bulb Harness Conduits 309613-4AA-0194, 804-180988, and 804-180999.-

- (a) Inspect for nonrepairable conditions.
- (b) Clean in accordance with OS 7002.
- (c) Remove burrs or sharp edges from ferrules and nuts. Replace unserviceable ferrules and nuts.

3.3.3.2 Electrical Plugs Type AN3106, AN3107, and AN3108; and Electrical Receptacles Type AN3100, AN3101, and AN3102.-

- (a) Recondition as outlined in Paragraph 3.3.1.3 of this specification.

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3.3.3.3 Inserts AN3380-1; Elbows AN3355-2; Connectors AN3064 and EC52137; Nuts AN3054, NT 5239, and AN3066-8; and Gland IS52133.-

- (a) Inspect for nonrepairable conditions.
- (b) Clean in accordance with OS 7002.
- (c) Chase threads of threaded parts if necessary to remove corrosion.

3.3.3.4 Starter Cover AN411611.-

- (a) Inspect for nonrepairable conditions.
- (b) Clean in accordance with OS 7002.
- (c) Degrease and paint in accordance with FS 370A.

3.3.3.5 Electrical Resistance Bulb AN5525-1.-

- (a) Inspect for nonrepairable conditions.
- (b) Functional test.

3.3.3.6 Induction Vibrators.-

- (a) Recondition in accordance with OS 3611.

3.3.4 Outboard Wing Electrical Equipment Installation:

3.3.4.1 Electrically Retractable Landing Lights AN3095-3, AN3095-6, AN3095-6A, and AN3095-9.-

- (a) Recondition in accordance with OS 3610.

3.3.5 Wing Warning Light Installation:

3.3.5.1 Inboard Dummy Nose Rib I181000-2; Outboard Dummy Rib I181000-4; Inner Frame I181000-5; and Brackets I181000-6 and I181172.-

- (a) Recondition in accordance with information contained in OS 1001.

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3.3.5.2 Lamp Assembly Type B-3.-

- (a) Check lamp for satisfactory operation. Replace bulb if necessary. Clean lens and reflector. Inspect connections.

3.4 Authorized Repairs:

3.4.1 Fuselage Electrical Equipment Installation:

3.4.1.1 Map Light Base 824-180609; and Warning Horn Support Bracket 84-180723.-

- (a) Remove dents and straighten parts in accordance with shop practice.

3.4.2 Center Section Electrical Equipment Installation:

3.4.2.1 Generator Shunt Bracket Assembly 804-187358; Firewall Block 8T113; and Battery Compartment Bolt 84-181113.-

- (a) Smooth burrs, nicks and dents with a file and emery cloth.  
(b) Chase threads of bolt to remove corrosion.

3.4.2.2 Lower Limit Switch Box 188023 and 188023-1; Landing Gear Conduit J-Box Cover 188024 and 188024-1; Lower Limit Switch J-Box Cover 180709; External Power Receptacle Box Lid 180968; Mechanism Limit Switch Box 804-182526; Generator Conduit J-Box Assemblies 804-187360 and 804-187360-1.-

- (a) Remove dents and straighten parts in accordance with shop practice.

4. INSPECTION

4.1 General.- The parts will be inspected to the general acceptable quality standards of OS 7008 and the specific quality standards listed below.

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4.2 Acceptable Standards:

4.2.1 External Power Receptacle 42B3748.-

- (a) Polarising pins with a minimum length of 1/2-inch are acceptable.
- (b) Contact pins with a minimum length of 1-3/4-inch are acceptable.

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