# OVERHAUL SPECIFICATION

VOLTAGE REGULATORS - MODEL C-45G, C-45E, AND SNB-5

OVERHAUL SPECIFICATION 3614

##### April 27, 1953

REVISED August 7, 1053

T. R. Taylor Writer

> 3. B. Boswoth Chief Liaison Engineer

Model Project Engineer

Chief Project Engineer - Military

USAF Quality Control

REO

- 37 1

## Beeck Aircraft Corporati

### OVERHAUL SPECIFICATION 3614

TITLE VOLTAGE REGULATORS - MODEL C-45G	C-45H, AND SNB-5	
•	¥	,
•	I \$SUED	April 27, 1953
WRITTEN BY CONTRACTOR	REVISÉD 1	lugust 7, 1953

- 1.1 Purpose. The purpose of this specification is to provide instructions for reconditioning and/or modifying 1589-1-A, 1589-1-B, 1589-1-C, and 1589-2-A voltage regulators for use on Model C-45G, C-45H, and SNB-5 aircraft.
- 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

Page	Date	Description of Revision	Serial Effective
1* 2* 3* 4* 5* 6* 7* 8* 9* 10* 11* 12* 15*	8-7-53 8-7-53 8-7-53 8-7-53 8-7-53 8-7-53 8-7-53 8-7-53 8-7-53 8-7-53 8-7-53 8-7-53	Incorporate SNB-5	Record change

## Beech Aircraft Corporation

## OVERHAUL SPECIFICATION 3614

PAGE 2 0F 16

TITLE VOLTAGE REGULATORS - MODEL C-45G, C-45H, AND SNB-5	•	<i>5</i> 1
•		
I \$SUED	April 27, 1953	
WRITTEN BY REVISED	August 7, 1953	

- 2. APPLICABLE PUBLICATIONS
  - 2.1 Beech.-

06 7008 Gene

General Asseptable Quarity Standards

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

03-5AA-30 D-C Carbon Pile Voltage Regulator, dated August 30, 1952

- 3. REQUIREMENTS
  - 3.1 Parts Involved:
- 3.1.1 Parts Not Used .- The following parts will not be reused and will be disposed of at the direction of the justomer.

126738 Carton lontalt raugs Carton pile disis

- ditioned in accordance with instructions contained teners. "Reconditioned" means the disassembly, meaning, inspection and precition of discrepancies, repair and/or replacement of components, and modifications to incorporate changes in accordance with application engineering drawings to assure an operationally safe and serviceable accordance.
  - (a) All parts of those voltage regulative referred to in Paragraph of this specification will be reconditioned except those parts listed in Paragraph decouple this specification.
  - Parts to be Supplied New ..

Carton pile disis 126738 Carton Lontait pilgs

# Beech Liveralt Corporation

## OVERHAUL SPECIFICATION 3614

PAGE\_\_\_\_3\_\_\_\_0F\_\_\_16

TITLE VOLTAGE REGULATORS - MODEL C-45G, C-45H, AND SNB-5	
	· ·
ISSUED April	27, 1953
WRITTEN REVISED August	7, 1953

3.2 Cause for Rejection. The following specific conditions as well as damage or wear that cannot be corrected by one or more of the methods described herein is cause for rejection.

## 3.2.1 Voltage Regulator, All Types:

- 3.2.1.1 Adjusting Screw Spring. Scrap and replace adjusting screw springs which are cracked, broken, severely burned, or have scarred inner edges.
- 3.2.1.2 <u>Insulators.-</u> Scrap and replace insulators which are severely worn or chipped.
- 3.2.1.3 Armsture Assembly. Scrap and replace armsture assemblies which have unserviceable disphragms or which fail the ground and/or continuity tests specified in Paragraph 3.3.1.1.(d). Scrap and replace dented or distorted shims.
- 3.2.1.4 Base Assembly. Surap and replace base assemblies which fail to pass the ground test specified in Paragraph 3.3.1.1.(e); have burned or cracked contact insulators; have loose, bent, or broken contacts, or contacts with the plating worn through; have broken terminal lugs. Replace carbon pile tubes which are chipped, cracked, broken, or rough and scored on the outside surface.
- 3.2.1.5 Coil Assembly. Scrap and replace coil assemblies which do not pass the resistance tests specified in Paragraphs 3.3.1.1.(g) and 3.3.2.1.(d), and those which have broken leads or burned or cracked insulation.
- 3.2:1.6 Resistors. Scrap and replace resistors if their resistance is not within the limitations specified herein or if they are severely burned, have
- 3.2.1.7 Rheostats. Scrap and replace rheostats which have excessively burned windings, broken terminals, unserviceable sliding contacts, or if the resistance is not within the limits specified herein.
- 3:2.1.8 Panel Board Assembly. Scrap and replace cracked or broken panel boards.

# Teend Airerall Corporation

#### OVERHAUL SPECIFICATION

AGE 4 0F 16

TITLE	VOLTAGE	REGULATORS	MODEL C	-45G.	C-45H.	AND SNB-5		
		•		1	•			
*	•		W 1000	1		I \$\$UED	April 27, 1953	
		1.						
WRITTEN S	· \-	P. Say	da			REVISED	August 7, 1953	•

3.3 Reconditioning Operations:

3.3.1 Voltage Regulator - 158y-1-A and 1589-2-A -

#### 3.3.1.1 Regulator Assembly.

- (a) Disassemble as follows:
  - (1) Disengage from base.
  - (2) Remove the pile adjusting screw cover and assembly.
  - (3) Remove carbon pile discs on a thin rod so as to avoid touching the discs with the hands as body acids may change the resistance of the discs.
  - (4) Tap out the carbon contact plug from the pile adjusting screw using a short piece of drill rod and fixture shown in Figure 1 of this specification.
  - (5) Remove adjusting screw bracket, bushings, and insulator from the pile housing. Separate screw plate from the bracket and slide out the phosphor-bronze adjusting screw spring.
  - (6) Remove the pile housing from the studs. Remove the tube locks and slide the pile tube out of the housing.
  - (7) Remove the armature assembly with red lead from magnet case assembly. Remove armature stop shims from case.
  - (8) Using drill rod and fixture referred to in (4) above, remove contact plug from armature. DO NOT DISASSEMBLE THE ARMATURE ASSEMBLY BEYOND THIS POINT UNLESS NECESSARY FOR REPAIR. THE COIL ASSEMBLY, WHICH INCLUDES COLORED LEADS, SHOULD NOT BE DISASSEMBLED.
  - (9) Remove ferrule assembly.
  - (10) Separate end plate assembly from the magnet case. Remove magnet core from end plate. Remove magnet coil assembly and temperature compensating ring. DO NOT REMOVE THREE MAGNET CASE STUDS FROM MAGNET CASE UNLESS NECESSARY.

Beach Gireratt Corporation

### OVERHAUL SPECIFICATION 3614

PAGE \_\_\_\_ 5 \_\_\_ or\_\_ 16

TITLE	VOLTAGE REGULATORS - MODEL C-45	G, C-45H, AND SNB	-5	
		I SSUED	April 27, 1953	
WRITTEN BY	1 Taylor	REYISED_	August 7, 1953	

#### 3.3.1.1 Regulator Assemb - (Continued)

- (11) Remove rheostat and adjusting nut assembly from clip and bracket assembly. Remove bakelized insulating washer from rheostat shaft.
- (12) Unsolder all leads from rheostat terminal contacts, terminal lugs, and terminal contacts of the resistor. Remove sleeving from the 330-ohm stabilizing resistor. Remove resistor and resistor mounting screw.
- (b) Carefully examine all parts to be reconditioned for nonrepairable conditions.
- (c) Thoroughly clean all parts to be reconditioned, except the coil, in clear unleaded gasoline or other suitable solvent. DO NOT USE CARBON TETRACHLORIDE.
- (d) Ground test the armature by touching one terminal of a 550-volt a-c test lamp circuit to the armature while touching the other test lamp circuit terminal to the contact plug ferrule. Replace the armature assembly if the test lamp flickers or lights. Test the armature for continuity by touching the free end of the red lead with a terminal of the test lamp circuit and touch the lead at the opposite end of the red lead with the other terminal of the test lamp. If the lamp flickers or fails to light, replace the armature.
- (e) Ground test the base assembly by touching one terminal of the 550-volt a-c test lamp circuit to a terminal contact and the other test lamp terminal to the base. Replace the base assembly if the lamp lights. Repeat this test operation for every terminal contact.
- (f) Repair base assembly contacts as necessary, as authorized in Paragraph 3.4 of this specification.
- (g) Check the resistance of the shunt, equalizer, and temperature compensating windings of the coil assembly with a Wheatstone bridge or similar measuring device. The resistance of the shunt windings, measured between the terminals of the black and white leads must be between 5.4 and 6.6 chms. The resistance of the equalizer coil, measured between the terminals of the yellow and green leads, must be between 0.36 and 0.44 chms. The resistance of the temperature compensating coil, measured between the terminals of the red and blue leads, must be between

Beach Direcalt Corporation

#### OVERHAUL SPECIFICATION 3614

PAGE 6 07 16

TITLE	VOLTAGE	REGULATORS	- MODEL	C-45G.	·C-45H.	AND S	SNB-5		
×				ě	:				
	<del></del>					i S:	SUED	April 27, 1953	
WRITTEN BY.	-	R. Sa	ula	~		RF	VISED	August 7, 1953	

#### 3.3.1.1 Regulator Assembly - (Continued)

- 1 234 and 286 bhms. If any one of the resistance values falls outside of the values given above, the coil assembly must be replaced. Test for shorted windings by touching the terminals of the 550-volta-c test lamp circuit to the ends of the black and yellow, black and blue, and yellow and blue coil leads. Replace the coil assembly if the lamp flickers or lights.
- (h) Test the continuity of all leads by touching the terminals of the test lamp circuit to the ends of each lead. If the lamp flickers or does not light, replace the lead.
- (1) Check the resistance of the stabilizing 330-ohm resistor between the ends of the resistor leads, using a Wheatstone bridge or similar resistance-measuring device. The resistance must measure between 297 and 363 ohms. Replace the resistor if the resistance is not within these limits.
- (j) Check the resistance of the tubular resistor and lead assembly between the terminals of the resistor. Replace the resistor if the resistance is not between 13.5 and 16.5 ohms.
- (k) Check resistance of the voltage adjusting rheostat by turning the rheostat adjusting screws so that the slider is nearest the stop toward the shorted terminals. Measure the resistance of the rheostat between the two outside terminals. If the measured resistance is outside the limits of 2.7 to 3.3 ohms, replace the rheostat.
- Reassemble, using new carbon contact plugs and carbon pile. During reassembly, the following operations will be performed and the following precautionary measures noted.
  - (1) Rivet magnet case studs in place if they have been removed for any purpose and apply a coat of clear languar. Specification TT-L-189. See that applies fineric rest spaint magnet case and ring.
    - At least remers the southern is a following the continuous the arms of the research process of the manners are new restricted in the continuous sections of the continuous sections.

Beach Gireralt Corporation

# OVERHAUL SPECIFICATION 3614

AGE 7 0F 16

TITLE VOLTAGE REGULATORS - MODEL C-45G, C-45H, AND SNB-5
ISSUEDApril 27, 1953
WRITTEN SY AUGUST 7 1052
REVISED August 7, 1953

#### 3.3.1.1 Regulator Assembly - (Continued)

- (3) Be certain that inside of armature assembly ferrule and pile adjusting screw are clean before installing contact plugs. Do not handle plugs with bare hands. Contact plugs must be fully seated and held in place firmly.
- (4) If the pile adjusting screw sticks or jams during reassembly, the condition may be corrected by cleaning any possible metal particles from screw threads with a scriber or knife point. Pencil lead rubbed on threads will act as a lubricant to prevent
- (5) Test pile adjusting screw bracket assembly for a possible grounded condition by touching one terminal of a 550-volt ctest lamp circuit to bracket and other terminal to pile nousing. If the lamp lights, the bracket insulators are defective and must be replaced.
- (6) Test rheostat and adjusting nut assembly by touching one terminal of test lamp circuit to a terminal contact of rheostat and other terminal to clip and bracket assembly. If the lamp lights, disassemble the rheostat and adjusting nut assembly and replace all insulators. Pin stake brass mounting nut on rheostat shaft in place.
- (7) In all cases where resoldering of electrical connections is necessary, unless otherwise specified, use rosin core solder composed of 33 percent tin and 64 percent lead conforming to Specification QQ-S-571. Use rosin as a flux, and clean soldered connections
- (8) Test tubular resistor by touching one terminal of a 110-volt, actest lamp circuit to resistor mounting screw and the other terminal to each of the two resistor terminals in turn. If the test lamp lights, the resistor is defective and must be replaced. Flood-solder nut to resistor mounting screw.
- (9) Solder leads as shown in Figure 2 of this specification.

· E - 338 a

Beach Gireralt Corporation

#### OVERHAUL SPECIFICATION 3614

PAGE 8 07 16

TITLE VOLTAGE REGULA	TORS - MODEL C-45G, C-4	5H. AND SNB-5	
BRITTEN BY	Farler	AEVISED August 7, 1953	
		MEALZED TIGHT (3 TAX)	

#### -3.3.1.1 Regulator Assembly. - (Continued)

- (10) The rheostat terminals must not touch the contacts of the terminal prongs. If they do, or if the clearance is small, carefully bend terminals upward until safe clearance is obtained.
- (11) When reassembling new carbon pile discs, do not allow the discs to come in contact with the bare hands.
- (m) Upon completion of reassembly, adjust regulator assembly as outlined in Paragraph 3.5 of this specification.

## 3.3.1.2 Panel Board Assembly Type 1700-1-A.

- (a) Disassemble as follows:
  - (1) Separate panel board assembly from shock mount assembly.
  - (2) Remove terminals. Do not remove terminal screws unless it is necessary to replace contact blades or jumpers. Remove three red fiber barriers.
  - (3) Remove paralleling rheostat assembly. Do not disassemble rheostat assembly unless replacement of rheostat is required.
- (b) Inspect parts for nonrepairable conditions.
- (c) Clean contact blades with a cloth moistened with unleaded gasoline.
- (d) Tighten loose rivets with a rivet set and suitable punch.
- (e) Fill all panel board holes containing rivets with red glyptal lacquer, Specification MIL-V-6893 or MIL-V-6894.
- (f) Resolder any loose soldered connections.
- (g) Check resistance of rheostat between the two outside terminals with a Wheatstone bridge or similar resistance-measuring device. If measured resistance is outside the limits of 2.7 to 3.3 ohms, replace the

E-3380

Besch Circratt Cerperatio

## OVERHAUL SPECIFICATION

YAN A SAN A	
VOLTAGE REGULATORS - MODEL C-45G, C-45H, AND SNB-5	
2-4-74, C-4-3H, AND SNB-5	
ISSUED April 27, 1953	
•	
PRITTEN BY AUGUST 7 1000	
and the street of the street o	
AEVISED August 7, 1953	•

# 3.3.1.2 Panel Board Assembly Type 1700-1-A.- (Continued)

- (h) Reassemble, performing the following operations during the reassembly.
  - (1) Touch one terminal of a 110-volt a-c test lamp circuit to a terminal contact of the rheostat and the other terminal to the bracket assembly. If the lamp lights, disassemble the rheostat and adjusting nut assembly and replace all insulators.
  - (2) Pin stake brass mounting mut in place.
  - (3) The head of the contact screw must be soldered to the contact blade or jumper. Solder jumpers to contact blades.

## 3.3.1.3 Shock Mount Assembly.

- (a) Disassemble as follows:
  - (1) Disengage the two bonding cables. Remove locking clips and the rubber grommets from top tray. Remove top tray assembly, tubing, springs, and bumper pads.
  - (2) Remove locking clips and rubber grommets from bottom tray. Lift off center tray assembly, tubing, springs, and bumper pads. Remove rubber bumpers from bottom tray.
- (b) Inspect parts for nonrepairable conditions.
- (c). Clean rubber grommets and bumpers by wiping with a clean dry cloth.
- (d) Reassemble.
- Voltage Regulator 1589-1-B and 1589-1-C. 3.3.2

#### Regulator Assembly .-3.3.2.1

(a) Disassembly procedure is similar to that outlined in Paragraph 3.3.1.1.(a) except that temperature compensating winding has been eliminated and the composition stabilizer resistor has been replaced

Beach Circratt Corporation

# OVERHAUL SPECIFICATION 3614

.PAGE\_\_\_\_10\_\_\_0F\_\_16

TITLE VOLTAGE REGULATORS - MODEL C. LSG, C-45H, AND SNB-5	·
ISSUEDApril 27, 1953	
WRITTEN BY August 7, 1953	

#### 3.3.2.1 Regulator Assembly - (Continued)

- (b) After disassembly, inspect parts for nonrepairable conditions.
- (c) Clean as outlined in Paragraph; 3.3.1.1.(c) of this specification.
- (d) Check resistance of shunt and equalizer windings of coil assembly with a Wheatstone bridge or similar resistance-measuring device. The resistance of the shunt windings, measured between the terminals of the black and white leads, must be between 3.1 and 3.9 ohms. The resistance of the equalizer coil, measured between the yellow and green leads, must be between 0.36 and 0.44 ohms. If any one of these resistance values falls outside of the values given above, the coil assembly must be replaced. Test for shorted windings as described in Paragraph 3.3.1.1 (g).
- (e) Check the resistance values between the ends of the 350-ohm resistor leads, using a Wheatstone bridge or similar resistance-measuring device. The resistance must be between 333 and 367 ohms. Replace the resistor if the resistance is not within these limits.
- (f) Check the resistance values between the terminals of the 19-ohm resistor with a Wheatstone bridge. Replace the resistor if the resistance is not within 18 and 20 ohms.
- (g) Paragraphs 3.3.1 1 (d), (e), (f), (h), and (k) for the 1589-1-A and 1589-2-A voltage regulators apply also to the 1589-1-B and 1589-1-C voltage regulators except that the limits described in Paragraph 3.3.1.1.(k) should be 4.0 to 4.8 ohms for the 1589-1-C voltage
- (h) Reassembly procedure is similar to that outlined in Paragraph 3.3.1.1.(1).

# 3.3.2.2 Panel Board Assembly Types 1700-3-A and 1700-4-A.-

(a) Disassembly procedure is similar to that outlined in Paragraph 3.3.1.2 for the Type 1700-1-A panel board, except that the 1700-3A and 1700-4-A have an adjustable resistor assembly instead of the rheostat and adjusting nut assembly.

E-3381

Beach Giveralt Corporation

## OVERHAUL SPECIFICATION 3614

PAGE 11 of 16

TITLE VOLTAGE REGULATORS - MODEL C-45G, C-4	5H, AND SNB-5
	ISSUEDApril 27, 1953
BRITTEN BY Selan	REVISED August 7, 1953

- 3.3.2.2 Panel Board Assembly Types 1700-3-A and 1700-4-A.- (Continued)
- (b) Paragraphs 3.3.1.2.(b), (c), (d), (e), and (f) for the 1700-1-A apply also to the 1700-3-A and 1700-4-A.
- (c) Check the resistance of the adjustable resistor assembly between the ends of the resistor leads with a Wheatstone bridge. If the measured resistance is outside the limits of 1.8 and 2.2 ohms, replace the adjustable resistor assembly.
- (d) Reassemble.
- 3.3.2.3 Shock Mount Assembly.
- (a) Reconditioning operations are identical to those described in Paragraph 3.3.1.3 of this specification.
- 3.4 Authorized Repairs:
- 3.4.1 Base Assembly.
- (a) Polish contacts lightly with No. 0000 sandpaper if they are pitted, corroded, or discolored.
- 3.5 Adjustment. Adjust the voltage regulator in accordance with the procedure outlined below. If there is evidence of malfunction of the voltage regulator, discontinue the adjustment immediately and determine the source of trouble. Do not continue with the adjustment procedure until the trouble has been corrected. Adjustment must be performed on a test stand containing suitable equipment and capable of driving a generator of the type normally installed with the voltage regulator. The test equipment should include a set of earphones to assist in detecting instability in the voltage regulator operation indicated by a rapid series of popping noises.
  - (a) Adjust the core flush with the inside face of the magnet case, loosen the pile screw, and adjust the rheostat slider arm to the center of the potentiometer, then start the generator on the test equipment.
  - (b) Operate the generator at mid-speed, no load.

E. 338a

OVERHAUL SPECIFICATION 3614

TITLEV	OLTAGE	RECEIT Among					. •
		REGULATORS	- MODEL	C-45G.	C-45H.	AND	SNB-5

ISSUED \_\_ April 27, 1953

BRITTEN BY THE STATE OF THE STA

AEVISED August 7, 1953

- 3.5 Adjustment (Continued)
- (c) Slowly turn the pile adjusting screw inward (clockwise). As the pile adjusting screw is tightened, the regulated voltage will rise to a
- (d) When the regulated voltage has dropped about 1 volt from the maximum, adjust the core to obtain 28.0 volts regulated output. Turning the core counterclockwise (out) will increase the output voltage. Apply and remove full load several times. The output voltage should dip and return to the no-load reading. If it fails to do so, continue to shock-regulation is obtained.
- (e) Remove all load. Connect a voltmeter across the pile (terminals "F+" and "G+") and decrease the generator speed until the voltmeter reads heat the regulator for one hour. This condition of operation will assure the maximum heating of the regulator.
- (f) Immediately after the heat run, operate the generator at minimum speed, disconnect voltmeter, and close and open the pile shorting switch slowly five or six times to flex the disphragm armature assembly. Make the final adjustments by adjusting the pile screw in small increments and performing the regulation run shown in Table I must show no signs of instability at any time. Adjust the core to obtain 28.0 volts. Tighten the core locking screws. Make certain to residues the core to obtain 28.0 volts if tightening these screws changes for flat regulation. The pile screw and core adjustments must be made volts.
- (g) Immediately after the heat run and final adjustment, check the operation of the regulator over the entire speed and load range of the generator. Then cool the regulator to room temperature and repeat the tests. Table I indicates the generator speeds and loads at which the voltmeter readings should be taken, and also indicates the order of mum and maximum voltage obtained must not exceed 1.4 volts. The maximum voltage obtained must not exceed 28.7 volts. If the voltage falls

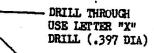
# OVERHAUL SPECIFICATION 3614

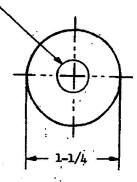
TITLE	VOLTAGE	REGULATORS	- MODEL C-45G	. C-45H. AND SNB-5		
				(\$SUED	April 27. 1953	
-	,					
WRITTEN	BY SO	P. Jag	ela	REVISED	August 7, 1953	

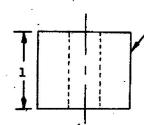
#### 3.5 Adjustment - (Continued)

outside the limits, the test procedure must be repeated. If the regulator cannot be adjusted as described above, the overhaul procedure should be repeated, giving special attention to the armature, pile, contact plugs, and coil assembly.

- (h) After the regulator has been removed from the mounting base, the core locking screws should be safety wired without upsetting the adjustment of the core, and the cover should be placed over the pile adjusting screw. The regulator is now ready for installation in the airplane.
- 3.6 Packing and Storage after Overhaul:
- 3.6.1 Packing. After the overhaul of the voltage regulator is completed satisfactorily and after the completion of the test, the unit must be packed for storage unless it is to be installed in the airplane immediately. Care must be taken to exclude dirt, dust and moisture. Wrap the regulator in heavy wax paper and completely seal with a cellulose "scotch" tape. Then wrap a protective covering of heavy craft paper to prevent accidental tearing of the wax paper.
- 3.6.2 Storage. Store the regulator in a dry and reasonably dust-proof room:
- 4. INSPECTION
- 4.1 General. The parts will be inspected to the general acceptable quality standards of Overhaul Specification 7008.







-03 3614-1 MAKE FROM 1-1/4-INCH DIA BAR 1 INCH LONG, 613-76 FED CQ-A-325, TEMPER 76

FIXTURE FOR REMOVING CARBON CONTACT PILICS

FIGURE 1

WRITTEN
BY

OATE ISSUED

FROJECT

EMBINEER

APPROVAL

APPROVAL

APPROVAL

CORPORATION

OATE ISSUED

OVERHAUL SPECIFICATION

VOLTAGE RECULATORS - MODEL C-45G, C-45R, AND SNB-5

CORPORATION

OVERHAUL SPECIFICATION

AND SNB-5

CORPORATION

NO. 3614

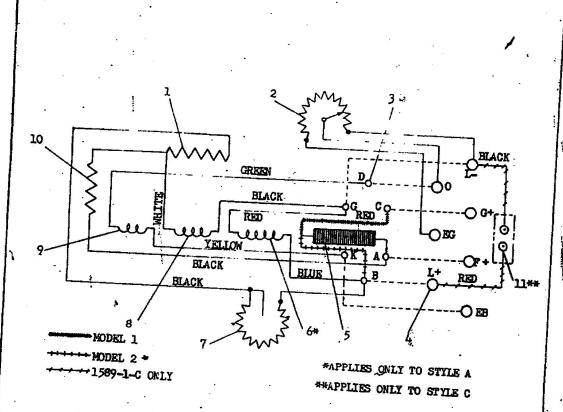
Dishits 1, Kasses

OVERHAUL SPECIFICATION

AND SNB-5

CORPORATION

NO. 3614



- 1 Large tubular resistor
- 2 Paralleling potentiometer
- 3 Voltage regulator terminal prong
- 4 Panel board terminal screw
- 5 Carbon pile
- 6 Temperature compensating winding
- 7 Voltage Adjusting rheostat
- 8 Coil shunt winding
- 9 Coil equalizer winding
- 10 Stabilizing resistor in Style A, small tubular resistor in Styles B
- ll Voltage test jack

WRITTEN FIGURE 2				
PROJECT	DATE 198UED 4-27-53	OVERHAUL SPECIFICATION		
APPROVAL		VOLTAGE REGULATORS - KODEL C. FC.		
APPROVAL	B-7-53	Beech Gircraft OVERHAUL SPECIFICATION		
*	III.	CORPORATION NO. 361		

, REGUL	ATION TEST		
LOAD CURRENT	GENERATOR SPEED		
No load			
Half load			
Full load	Minimum Speed		
No load			
No load			
Half load	,		
Full load	Mid Speed		
No load			
No load			
Half load	•		
Full load	Maximum Speed		
No load	1		
Full Load	Minimum Speed		
No load	. Minimum Speed		
No load	Maximum Speed		

TABLE I

WRITTEN M. D. Advisio	DATE ISSUED		SPECIFICATION	
ENSINEER CY IS A APPROVAL	DATE REVISED	VOLTAGE REGULATORS AN  Peoch Giroreft	- MODEL C-45G, C-45H, SNB-5 OVERHAUL SPECIFICATION	
APPROVAL GELLS	6-7-53	CORPORATION. Wiehlta 1, Kanes	No. 3614	16

5.

				x.
	ir			
		*	· ·	
			4	
	¥			
			e e	
				,
			*	
	4		u .	
•,				
	6			
				,