

VOLTAGE CONTROLLER

KS-5519

REPLACEMENT PARTS AND PROCEDURES

1. GENERAL

1.01 This section covers the information necessary for ordering parts to be used in the maintenance of the KS-5519 voltage controller manufactured by the General Electric Company. It also covers approved procedures for replacing these parts.

1.02 This section is reissued to omit the KS-5016, KS-5117, and KS-5468 voltage regulators and the KS-5374 voltage controller since they are "Mfr Disc." and parts for replacement are no longer obtainable. The title is changed accordingly. Detailed reasons for reissue will be found at the end of this section. Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

1.03 Part 2 of this section covers ordering information for those parts which it is practicable to replace in the field in the maintenance of the above apparatus. No attempt should be made to replace parts not designated except small items such as screws. Part 2 also

contains an explanatory figure showing the different parts. This information is called Replacement Parts.

1.04 Part 3 of this section covers the approved procedures for replacement of the parts covered in Part 2. This information is called Replacement Procedures.

2. REPLACEMENT PARTS

2.01 Fig. 1 shows the various replacement parts with their corresponding names in their proper relation to other parts of the apparatus.

2.02 When ordering parts for replacement purposes, give the name of the part as shown in Fig. 1 and also the complete nameplate data of the apparatus. Include the manufacturer's name and the KS specification and list number. For example, one control coil for the General Electric Company, KS-5519 L1 controller, 105/125 VAC, 60 cycle. Do not refer to the BSP number.

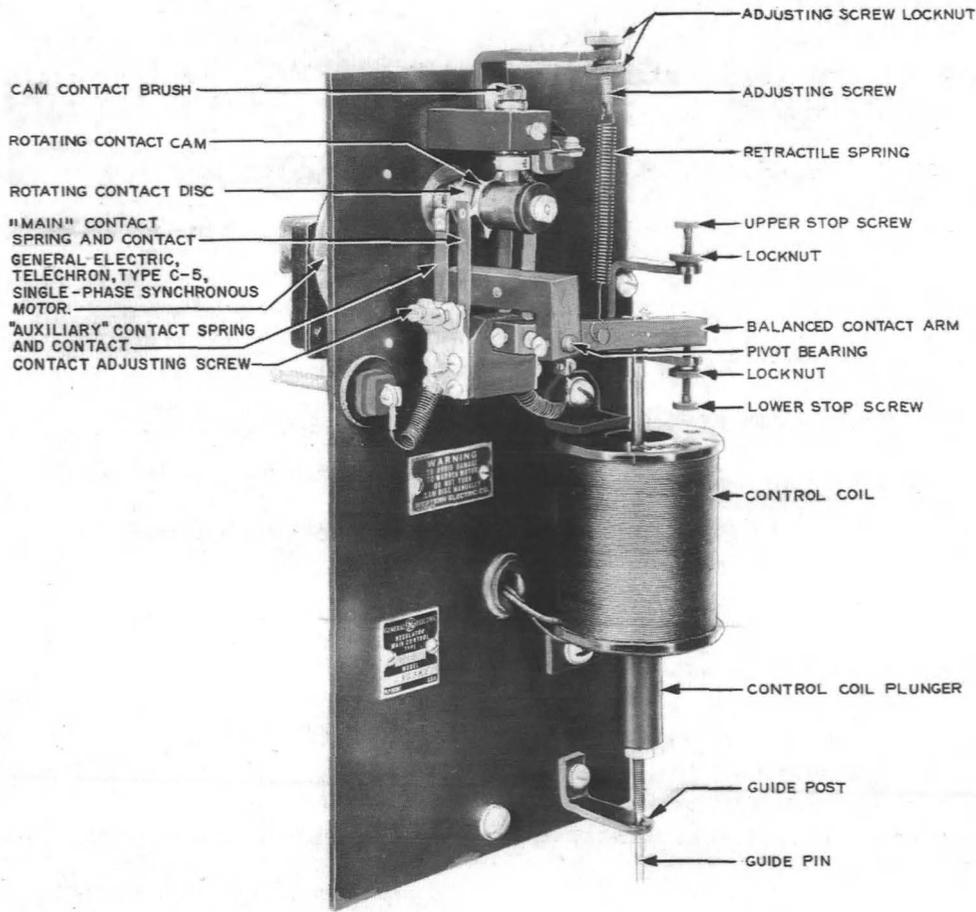


Fig. 1 - KS-5519 Controller Assembly

3. REPLACEMENT PROCEDURES

3.01 *List of Tools and Materials* (Equivalents may be substituted if desired)

CODE OR SPEC NO.	DESCRIPTION
TOOLS	
46	3/8-Inch Hex. Single-End Socket Wrench
KS-6015	6-Inch Duck Bill Pliers
R-1542	6-Inch Adjustable Wrench
—	3-Inch C Screwdriver
MATERIALS	
KS-7860	Petroleum Spirits
KS-14666	Cloth

3.02 Before making any replacements, be sure that service will be maintained by means of temporary wiring or in some other suitable manner. Remove the controller from service before making any replacement of parts.

3.03 Before making any replacement, tag all leads if they are to be removed. After making any replacements, connect all leads to the proper terminals making certain that they are secure.

3.04 After making any replacement of parts, the part or parts replaced shall meet the readjust requirements involved as specified in Section 024-350-701.

3.05 No replacement procedures are specified for screws, nuts, washers, and other parts

where the replacement consists of a simple procedure.

3.06 Care should be exercised when using petroleum spirits in power rooms where there are dc machines, since commutation may be adversely affected by the softening of the commutator film by the fumes. To avoid the need for burnishing the commutators of the dc machines after doing any cleaning operations called for in this section, provide adequate ventilation, use the absolute minimum amount of petroleum spirits required for the cleaning operation, and keep the container closed when not in use.

3.07 Remove any dirt, dust, or grease from the controller using a KS-14666 cloth slightly moistened with KS-7860 petroleum spirits and wipe with a dry cloth.

3.08 *Rotating Contact Cam or Disc*

(a) To replace the contact cam or contact disc remove the cam contact brush and loosen the lock nut which holds the rotating contact cam or contact disc in place and remove the cam or disc. Replace the old cam or disc with a new one and reassemble making sure any spacers or insulating washers are replaced in the proper order.

3.09 *General Electric Telechron Motor*

(a) To replace a General Electric Telechron Motor, follow Section 159-480-701.

3.10 *Reduction Gear for Rotating the Contact Cam and Disc*

(a) Since the gearing is enclosed within the motor housing, any necessary replacement of gears must be made by replacing the motor as covered in 3.09.

3.11 *Other Parts*

(a) Replacement of other parts is a simple and straightforward procedure, which is self apparent and needs no detailed description.

REASONS FOR REISSUE

1. To change the title to agree with apparatus covered.
2. To delete the KS-5016, KS-5117, and KS-5468 voltage regulators and the KS-5374 voltage controller.
3. To revise the list of tools and materials (formerly 3.001).
4. To delete procedure for balanced contact arm contact springs (formerly 3.01).
5. To delete procedure for rotating contact cam or disc [formerly 3.02(1) (2)].
6. To delete procedure for motor for driving rotating cam motors other than General Electric Telechron or Warren Motors (formerly 3.03).
7. To delete Fig. 2.