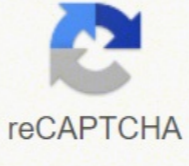


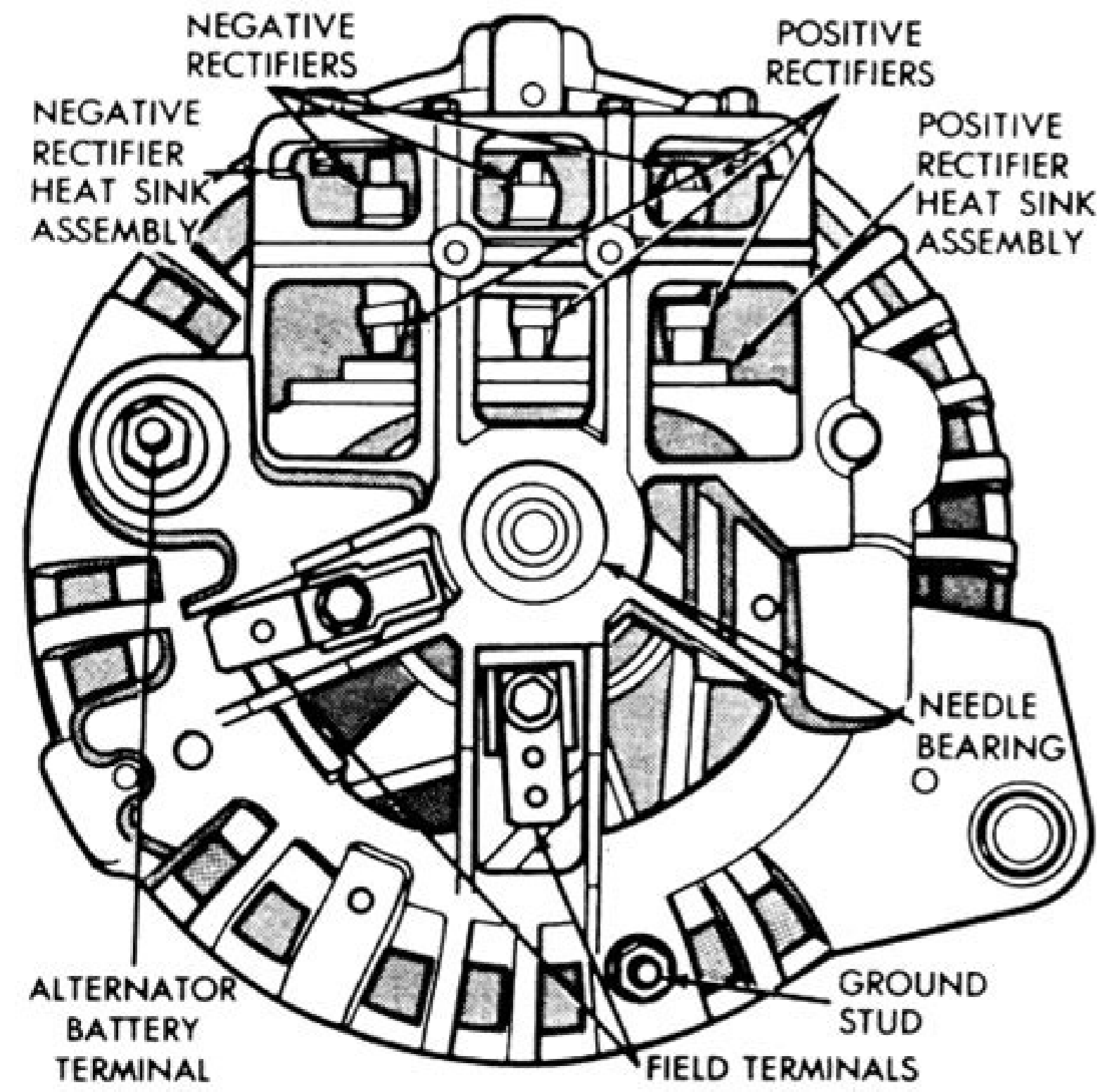
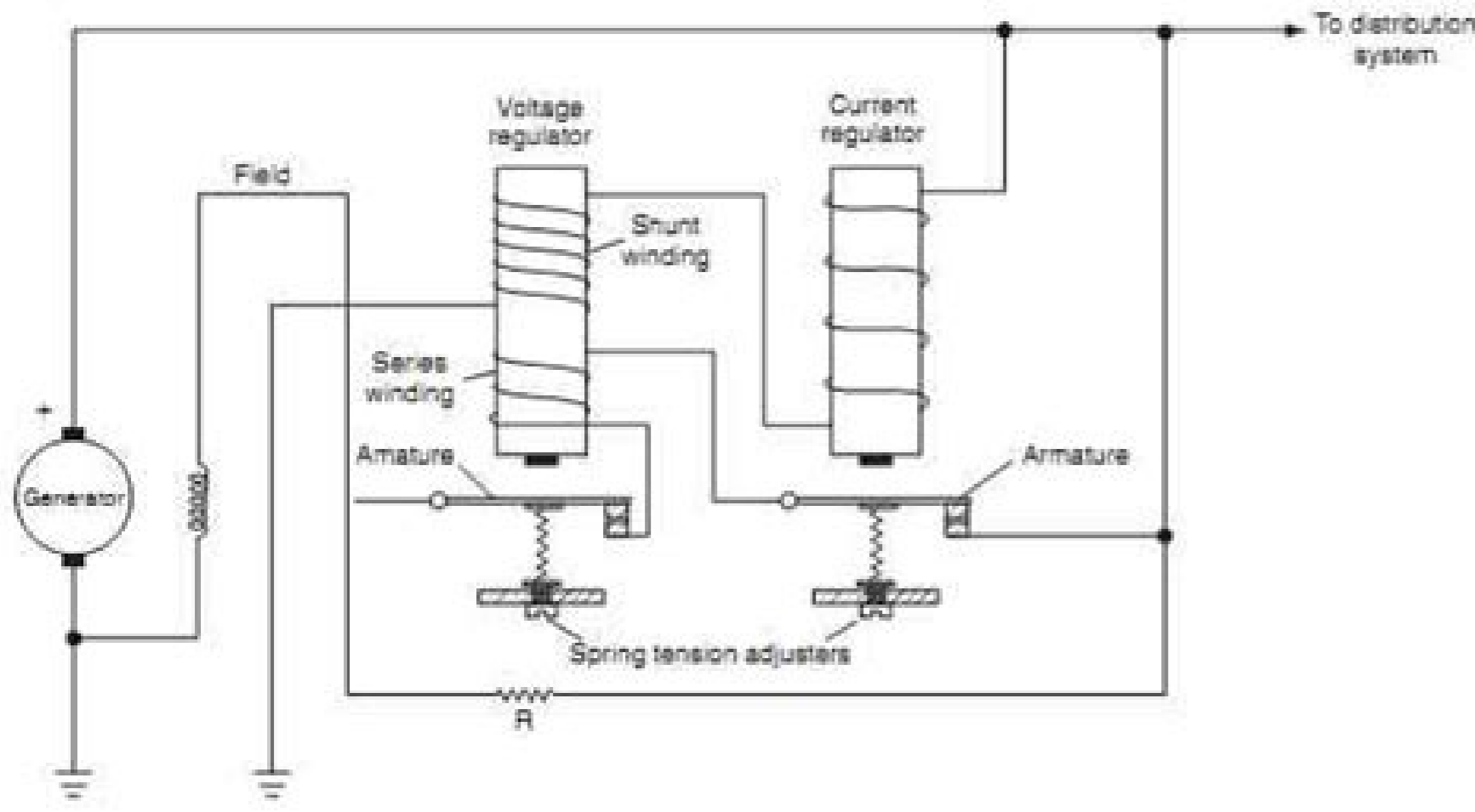


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# Carbon pile voltage regulator pdf



Aircraft carbon pile voltage regulator. Carbon pile voltage regulator adjustment.

The increase in current is due to an increase in load. This would tend to make the generator operate as a motor, but because the generator is coupled to the engine, it could not rotate such a heavy load. The resistance of the carbon stack varies inversely with the pressure applied. When the generator is not operating, the contacts, C3 are held open by the spring S3. The battery then receives a charging current. When the current (as a result of the generated voltage) produces sufficient magnetism in the iron core, contact C3 is closed, as shown. The third unit is a reverse current cutout that disconnects the battery from the generator. Thus, an average voltage is maintained with or without load change. Because resistance is added to the field circuit, the field is momentarily weakened and the rise in terminal voltage is checked. The field current now flows through R1 and L2. The action of the voltage regulator unit is similar to the vibrating-type regulator described earlier. The operation of a three unit regulator is described in the following paragraphs. This action is called "motoring" the generator and, unless it is prevented, it will discharge the battery in a short time. The voltage winding, L5, consisting of a large number of turns of fine wire, is shunted across the generator terminals. When the generator voltage varies, the pull of the electromagnet varies. As the terminal voltage rises, the current flow through L1 increases and the iron core becomes more strongly magnetized. When the pressure is reduced, the resistance of the carbon stack increases, because there is more air space between the disks, and air has high resistance. When the stack is compressed under appreciable pressure, the resistance in the stack is less. As shown in figure 9-26, L3 is in series with the main line and load. In addition, the field strength increases and the generator output increases. Unlike C1 and C2, contact C3 does not. The second of the three units is a current regulator to limit the output current of the generator. Under these conditions, the windings of the generator can be severely damaged due to excessive current. When the generator is not working, spring S1 keeps C1 closed; C2 also closes by S2. When the generated voltage is decreased, the current of the generator is reduced. The pressure on the carbon stack depends on two opposing forces: a spring and an electromagnet. If the reostat is configured to increase the resistance in the field circuit, less current flows through the field winding and the force of the magnetic field in which the induced rotates decreases. When the generator is started, its terminal voltage will increase as the generator accelerates, and the induced generator will supply current to the field via the closed contacts C2 and C1. Thus, a momentary discharge current from the battery reduces the magnetism of the core and opens C3, preventing the battery from discharging into the generator and motorizing it. There are two windings, L4 and L5, on the soft iron core. Vibratory-type regulators cannot be used with generators that require a high field current, as the contacts will itch or burn. Three Unit Regulators Many light aircraft use a three unit regulator for their generator systems. The spring compresses the carbon stack and the electroman exerts a pull that decreases the pressure. The terminal voltage of the generator varies slightly, but quickly, above and below an average value determined by the spring voltage S1, which can be adjusted. When the generator slows down or, for any other reason, the generator voltage drops to a certain value below that of the battery, the current reverts through L4 and the ampere twists of L4 are opposed to those of L5. If this device is not used, the force of the field current, can be conveniently controlled. This causes the generator voltage and current to rise until the current reaches a sufficient value to start the cycle again. The P dashpot provides smoother operation by acting as a buffer to prevent hunting. The S2 spring keeps the C2 contact closed until the current through the main line and L3 exceeds a certain value, determined by the tension of the S2 spring, and causes C2 to open. If the charge is reduced and the terminal voltage increased, the armature vibrates more quickly and the regulator keeps the terminal voltage a constant value for any change in load, from vacuo to full load, in the generator. The current winding, L4, which consists of a few turns of heavy wire, is in series with the line and carries the entire current of the line. The purpose of the vibrator type current limiter is to limit the output current of the generator automatically to its maximum nominal value in order to protect the generator. The C3 will not close again until the voltage of the generator terminal exceeds that of the battery by a default value. Solenoid S is damped and contact B is kept closed by the spring. The charging current passing through L4 helps the current in L5 to keep the contacts firmly closed. This action causes the increase of the field current and the voltage of the terminal. Condenser C through the contact B removes sparks. To illustrate this control, refer to the diagram in the 9-22, which shows a simple generator with a rheostat in the field circuit. Figure 9-25 shows a 24-volt peak voltage regulator with its internal circuits. If the resistance in the field circuit is with the rheostat, more current flows through the field windings, the magnetic field becomes stronger, and the generator produces a greater voltage. If the battery is not disconnected, it will discharge through the generator armature when the generator voltage falls below that of the battery, thus driving the generator as a motor. Therefore, R1 and L2 are again shorted out of the circuit, and the field current again increases; the output voltage increases, and C1 is opened because of the action of L1. The purpose of the reverse current cutout relay is to automatically disconnect the battery from the generator when the generator voltage is less than the battery voltage. On the other hand, if the generator output drops below the specified value, the pull of the electromagnet is decreased and the carbon pile places less resistance in the field winding circuit. A REGULATOR OF GENERATOR VOLTAGE Efficient operation of electrical equipment in an airplane depends on a constant voltage supply from the generator. A certain minimum value of load current is necessary to cause the current limiter to vibrate. A small rheostat provides a means of adjusting the current flow through the electromagnet coil. A shunt field is connected directly across the armature. (Refer to figure 9-26.) The action of vibrating contact C1 in the voltage regulator unit causes an intermittent short circuit between points R1 and L2. The coil spring, S3, is so adjusted that the voltage winding will not close the contact points until the voltage of the generator is in excess of the normal voltage of the battery. When the terminal voltage falls below a certain critical voltage, the solenoid armature contact B is closed again by the spring, the field rheostat is now shorted, and the terminal voltage starts to rise. Carbon Pile Voltage Regulator The carbon pile voltage regulator depends on the resistance of a number of carbon disks arranged in a pile stack. This action inserts R2 into the generator's field circuit and decreases the field current and generated voltage. As the voltage of the generator increases, L5 magnetizes the iron core.



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