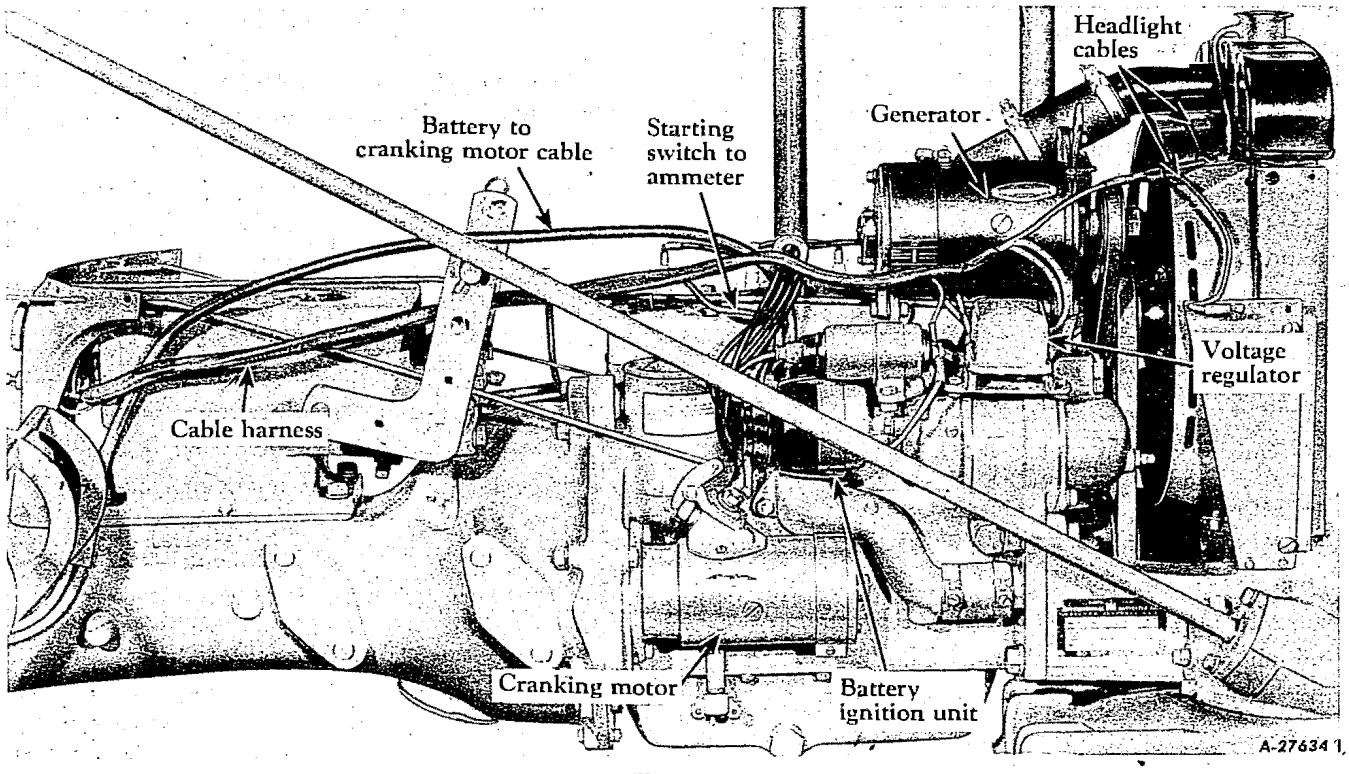
Starting and Lighting Equipment

(Tractors with Battery Ignition and Voltage Regulation)



Illust. 40

Cranking motor, generator, voltage regulator, cables, etc.

Description

The electrical system of the tractor is a 6-volt type and consists of a generator, voltage regulator, cranking motor, lights, light switch and a battery ignition unit with a 6-volt battery. The system is a single-wire type with a ground return to the battery.

Use Illust. 40 and the wiring diagram on page 45 as a guide for identifying the various electrical units and for tracing the electrical cables and connections. Be sure all terminals are clean and securely fastened.

When the electrical equipment is installed at the factory, the battery ground cable (*Illust. 37*) is disconnected and taped. Before attempting to start the tractor, make certain that the ground cable is connected.

Light Switch

The light switch has three positions: "O"—off position, "D"—dim lights, and "B"—bright lights. *See Illust. 36B.*

Generator and Regulator

The generator supplies current to keep the battery in a charged condition, replacing the energy consumed by the starting motor and lights. The generator on your tractor is sealed to prevent the entrance of dirt and moisture. It is hinge-mounted on the right side of the engine crankcase and is driven by a V-belt from the fan pulley. The generator, as received from the factory, has a fixed third brush which is set to give the maximum generator output.

The generator charging rate is controlled by a voltage regulator which controls the generator output, thereby maintaining a satisfactory charging rate, and prevents the battery from overcharging under varying temperatures and operating conditions. It should not require adjustment or attention. If the regulator fails to operate correctly, replace it with a new one or see your International Harvester dealer.

Caution: Do not at any time place a jumper lead between or accidentally bridge the battery terminal and the field terminal on the regulator. Serious damage to the regulator may result.