TEST SPECIFICATIONS:

Cut in voltage: 6.4 - 7.1 volts

Reverse current: 2.0 - 7.5 amps

REGULATOR SETTINGS:

No load: 7.2 - 7.9 volts

Load (60W): 6.5 - 7.4 volts

Load current: 11.5 amps

Resistor "B" (mourted on generator): 3.0 - 3.5 ohms

If the generator does not perform within the above specified limits, you may adjust the regulator or reverse current relay by carefully bending the arm where it is riveted to its holding support.

MECHANICAL SETTINGS:

Cut-out relay (at standstill)

Air gap between armature and coil .024" - .048"

Air gap between contact points .016" - .039"

Voltage regulator

At standstill:

Air gap upper contact points .008" - .016"

Air gap coil to armature .032" - .048"

In operation:

Air gap coil to armature .008" minimum

TESTING OF GENERATOR (removed from motorcycle)

TEST ARMATURE ON A GROWLER

To test field coils: connect the ammeter to terminal No. 61 and to the positive pole of a 6-volt battery. Connect the negative pole of the battery to the field frame. The ammeter should then indicate 2.7 amps and a screw driver should be evenly attracted to each poleshoe (field core).

To test the resistor: press the regulator down, the resistor is O.K. if the ammeter recedes slightly during this test. The resistor is defective if the ammeter goes to zero.

Grounded coil is indicated if the ammeter shows substantially more than 2.7 amps.

Short circuit within a coil is indicated if the ammeter reads slightly more than 2.7 amps.

Open circuit in one of the field coils is indicated if the ammeter shows current only when the regulator is depressed (unless the resistor is also defective).

GENERATING SYSTEM FOR TWINS 1954 - 1969