

172 MAINTENANCE

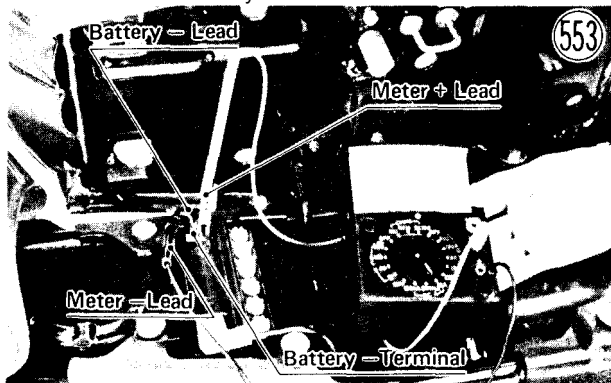
Table 104 Dynamo Output Voltage

Output Voltage @1,100 rpm
More than 14V

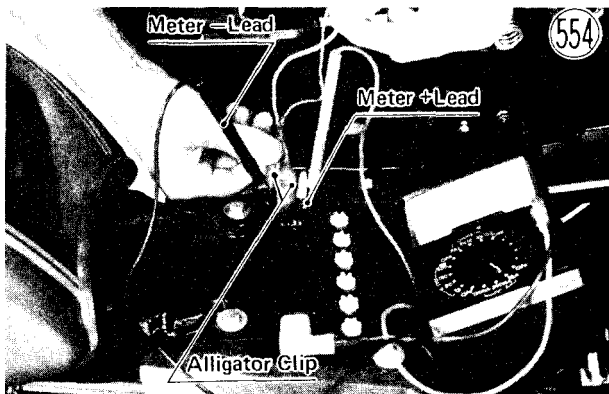
- Turn off the ignition switch to stop the engine.
To check the output amperage:

NOTE; Two multimeters are necessary for this test.

- Connect the 9-pin connector in the headlight housing, and install the headlight unit.
- Connect the rectifier white lead to the battery + lead.
- Disconnect the battery — lead from the battery — terminal. Set the multimeter to the 12A DC range, and connect the meter — lead to the battery — lead and meter + lead to the battery — terminal.



- Connect a temporary lead, such as an alligator clip, to the battery — terminal and meter - lead. This works as a bypass and prevents damage to the multimeter from back current when starting the engine.

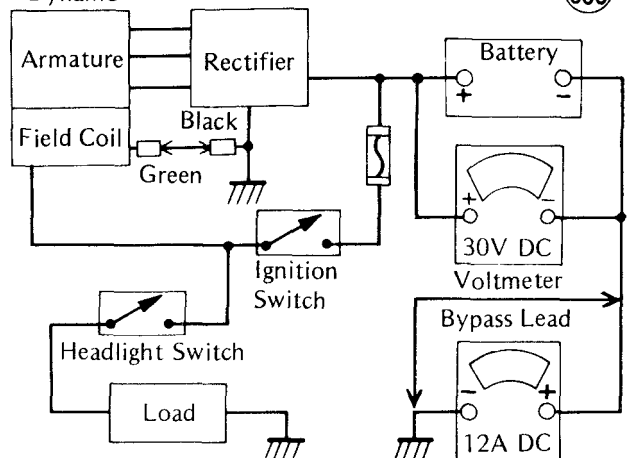


- Set the multimeter to 30V DC, and connect the meter + lead to the battery + terminal and the meter — lead to the battery — terminal.

- Start the engine with the kick starter.

Caution 1- Make sure that all connections are firm. A loose connection allows the generator output voltage to increase instantly. This

Dynamo Amperage Test



Ammeter

may cause damage to the rectifier or other electrical components.

2. To prevent damage to the multimeter caused by reverse starting current, DO NOT use the electric starter when starting the engine.

- Turn on the headlight switch with the headlight on high beam.
- Disconnect one end of the bypass lead.
- Run the engine at the rpm in Table 105, and note the readings of voltage and amperage. A lower reading indicates that the dynamo is defective.
- Turn off the ignition switch to stop the engine.
- Disconnect the green and the black leads.

If the dynamo was found to be defective, carry out the following checks to determine which part is defective.

- Disconnect the 4-pin connector on the electrical panel.
- Set the multimeter to the R x 1 range, and measure for continuity between each of the three armature yellow leads (3 measurements). If there is more resistance than shown in Table 106, or no meter reading (infinity) for any two armature leads, the armature leads, the armature has an open and must be replaced.

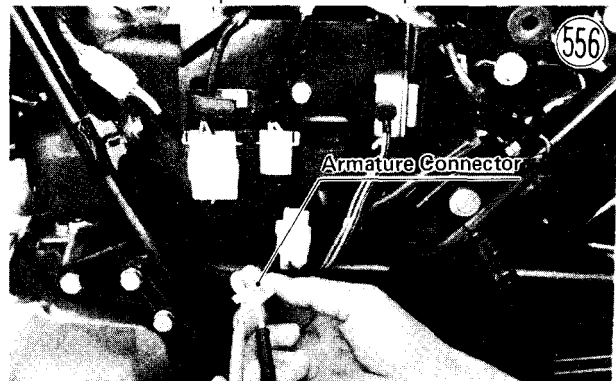


Table 105 Battery Charging Voltage and Amperage

Meter	Connection	Read @5,000 rpm
30V DC	Meter + Lead <* Battery + Lead, Meter — Lead <* Battery + Terminal	More than 16V
12A DC	Meter + Lead <* Battery + Terminal, Meter — Lead *• Battery—Terminal	More than 6A