

Regulator/Rectifier Inspection

• Wire Harness Inspection

Disconnect the 6P(WHITE) and 3P(WHITE) regulator/rectifier connectors.

Check the connectors for loose or corroded terminals.

| Item | Terminals | Specification |
|-----------------------|------------------------------|----------------------------------|
| Battery charging line | Red/White (+) and ground (-) | Battery voltage should register. |
| Ground line | Green and ground | Continuity exist. |

Regulator/rectifier Unit Inspection

If the circuits on the wire harness side are normal and there are no loose connections at the connector, inspect the regulator/rectifier unit by measuring the resistance between the terminals.

NOTE

- You will get false readings if the probes touch your fingers.
- Use the specified multimeters. Using other equipment may not allow you to obtain the correct results.
- This is due to the characteristic of semiconductors, which have different resistance values depending on the applied voltage.

Specific Multimeters:

- 07411-0020000 (KOWA Digital type)
- 07308-0020001 (SANVA Analogue type)
- TH-5H (KOWA Analogue type)

- Select the following range:

SANVA: k Ω

KOWA: $\times 100$ (Digital type: CDI Ω , R $\times 100$)

- An old battery stored in the multimeter could cause inaccurate readings. Check the battery if the multimeter resistance is incorrect.
- When using the KOWA multimeter, remember that all readings should be multiplied by 100.

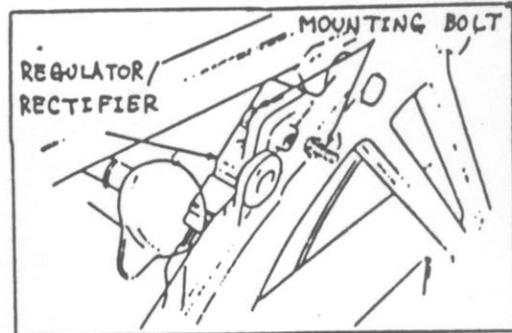
Replace the regulator/rectifier unit if the resistance value between the terminals is abnormal.

Alternator Inspection

Measure the resistance between the yellow wire terminals of the alternator 3P connector main harness side.

Standard: 0.1-1.0 Ω (20°C/ 68° F)

Make sure that there is no continuity between the yellow terminals and ground.



| Multimeter | SANVA | k Ω range |
|------------|-------|----------------------|
| | KOWA | R $\times 100\Omega$ |

Resistance

Unit: k Ω

| Tester Probe (+) Tester Probe (-) | Red/White | Green | Yellow | Yellow | Yellow |
|--------------------------------------|-----------|--------|--------|--------|--------|
| Red/White | ~ | ~ | ~ | ~ | ~ |
| Yellow | 1-20 | 0.5-10 | 0.5-10 | 0.5-10 | 0.5-10 |
| Yellow | 0.5-10 | ~ | ~ | ~ | ~ |
| Yellow | 0.5-10 | ~ | ~ | ~ | ~ |
| Yellow | 0.5-10 | ~ | ~ | ~ | ~ |

