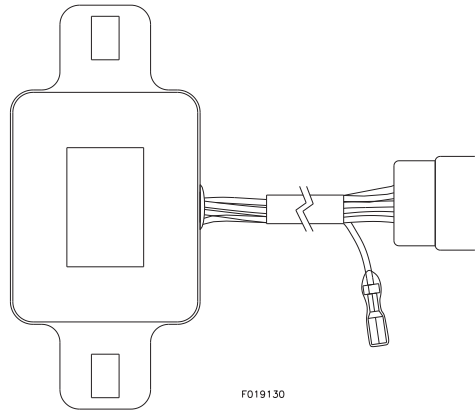


**PRODUCT DATA SHEET
IN551-1**



| REVISIONS | | | | |
|-----------|-------|---|----------|-------|
| REV | ECO # | DESCRIPTION | DATE | APPVD |
| 0 | N/A | Initial Release | 11/20/02 | NTR |
| A | 6503 | Added dash number to part. (JRB 5/2/2005) | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| | ORIGINATOR | MECHANICAL ENGINEER | ELECTRICAL ENGINEER | MARKETING | APPROVED ENGINEERING |
|------|------------|---------------------|---------------------|-----------|----------------------|
| NAME | JMC | DEW | GEM | HEJ | GEM |
| DATE | 10/28/02 | 10/31/02 | 11/19/02 | 1120/02 | 11/19/02 |

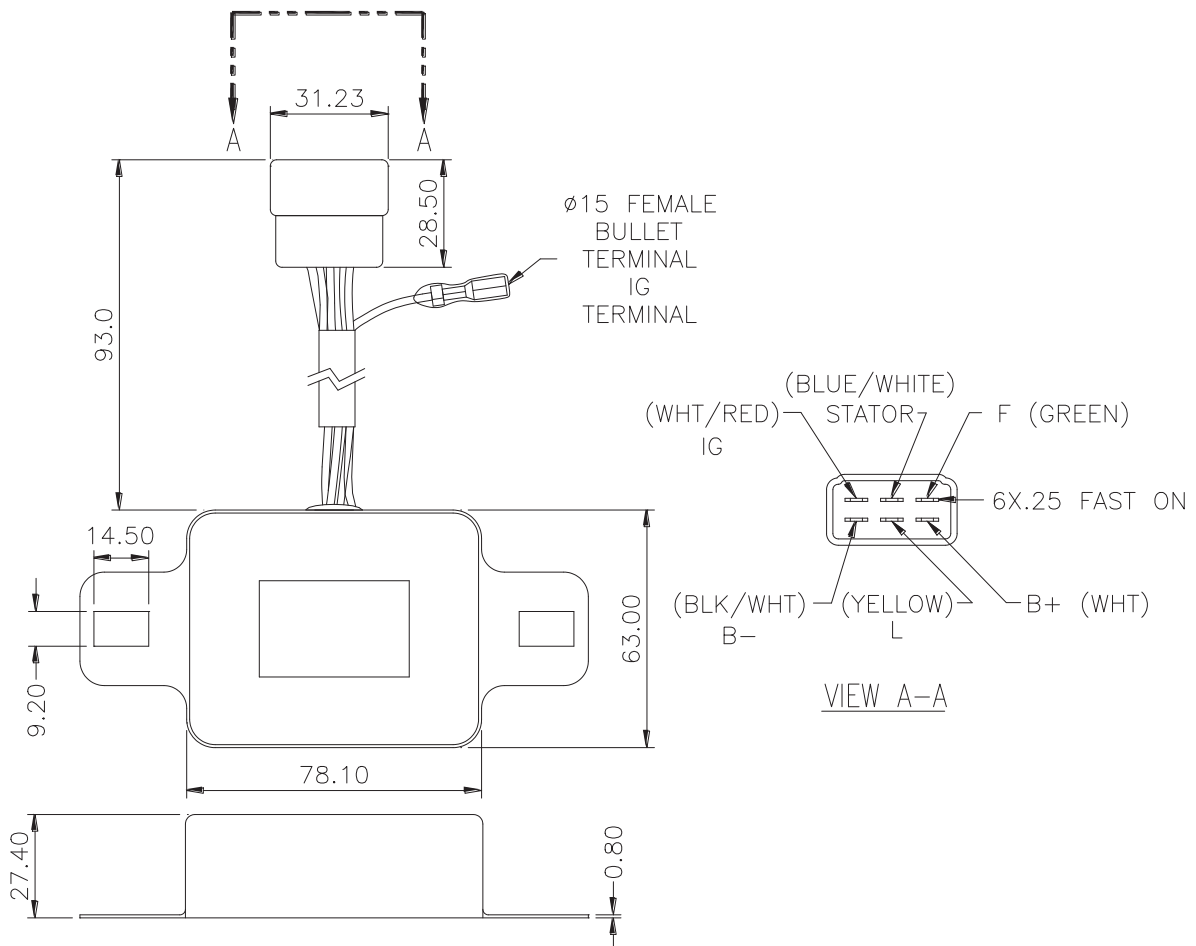
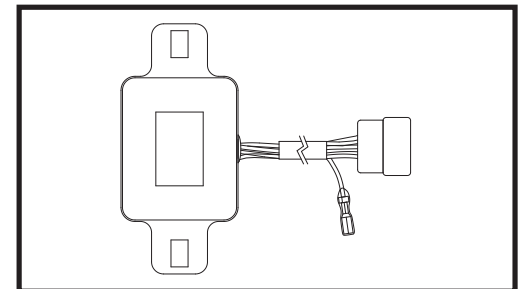
NIPPONDENSO REPLACEMENT REGULATOR

The IN551 functions to keep the battery at full charge, by maintaining the proper output of the alternator under changing load conditions and varying speeds.

KEY FEATURES

- "B circuit, Hide side drive regulator.
- Voltage Setpoint is 14.30 Volts.
- Stator activated.

1.0 MECHANICAL CHARACTERISTICS



All dimensions are nominal and in mm. Tolerance is $\pm .50$ mm.

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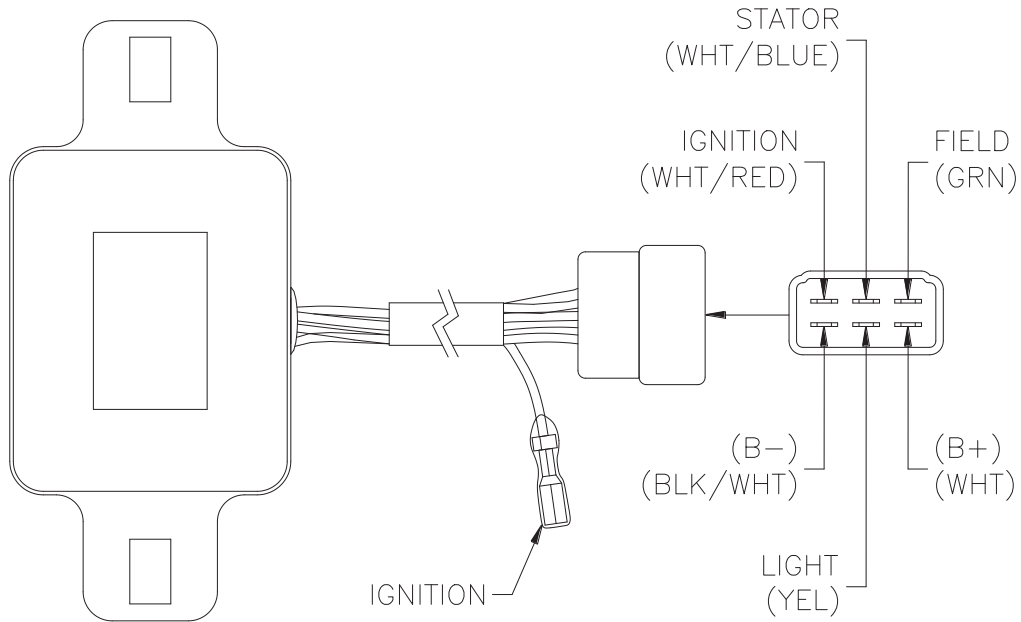
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2.0 Pinouts



3.0 Summary

| PARAMETERS AND CONDITIONS | SYMBOLS | MIN. | TYP. | MAX. | UNITS |
|---|------------|-------|-------|-------|-----------------|
| Operating Temperature Range | T_{OP} | | | | $^{\circ}C$ |
| Field | I_F | | | | A |
| Voltage Set Point (4000 RPM with no load) | V_{SET} | 14.00 | 14.30 | 14.60 | V |
| Computer Set Point (4000 RPM with no load) | V_{SET} | | | | V |
| Regulation vs. Speed (1500 to 4500 RPM with no load) | V_{SPD} | --- | 0 | --- | V |
| Regulation vs. Load (6000 RPM with no load to 90% full load) | V_{LOAD} | | | | V |
| Saturation Voltage @ 5A, 12Volts | V_{SAT} | --- | 1.00 | --- | V |
| Standby Current Drain (Key off, $V_{BAT} = 12V$) | I_D | | | | mA |
| Temperature Coefficient | T.C. | --- | -3.5 | --- | mV/ $^{\circ}C$ |

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