



### EXTERNAL REGULATION

- 70's technology
- Printed circuit board
- Individual multiple solder joints
- Heat sinks not functional
- No epoxy coating protection
- Individual exposed power transistors
- Individual exposed capacitors
- Individual exposed resistors
- Heat sensitive components
- Shock sensitive components
- No moisture protection
- No condensation protection
- Long control wires to/from alternator
- Not used in military or NASA
- Solder composition prone to melting

### INTERNAL REGULATION

- Born from the NASA space program
- Single integrated chip
- Etched circuits, not solder joints
- Heat sinks functional
- Epoxy coated/sealed protection
- No exposed components
- Temperature compensated for optimum performance
- Moisture proof
- High temperature proof
- Vibration proof
- Condensation proof
- Connections to alternator are internal
- Used by military, NASA and all OEs
- No solder joints

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AAI - EXT - 2006