

Alternator Regulators

S.E.V. MOTOROLA

Renault (1969-73)
 Simca (1969-70)
 Volvo (1968-73)

CAUTION — When servicing alternator or regulator, note following precautions to avoid damage to components:

Field Terminal — Never ground field energizing terminal on alternator, regulator or connecting lead.

Voltage Regulator — Never operate voltage regulator without a good ground connection as immediate damage will result.

Alternator — Do not ground output terminal. Always disconnect battery negative cable before removing wire from alternator output terminal. Do not attempt to polarize alternator as polarization is not required and any attempt to polarize will damage voltage regulator and wiring harness.

DESCRIPTION

S.E.V. Motorola alternators use either an electronic or mechanical type voltage regulator. The electronic unit contains neither mechanical contacts nor relays; it requires no adjustments or maintenance. Unit is sealed, and if found defective, it should be replaced. The mechanical voltage regulator is a dual contact unit with upper and lower moving contacts. Regulator also contains three resistors and one thermistor.

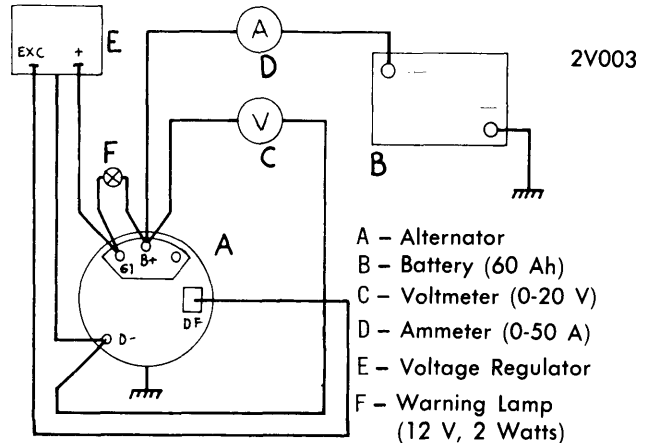
APPLICATION

Model	Part No.
Renault	
R-12	
1971-73	77 00 544 686
R-15	
1972	②77 00 523 264
1973	77 00 544 686
R-16	
1969-70	③E.144
1971-72	77 00 523 264
R-17	
1972	②77 00 523 264
1973	77 00 544 686
Simca	
1204	
1969-70	S30201
Volvo	
4 Cyl.	
1968-73	14V-33525
6 Cyl.	
1969	14V-33525
1970-73	14V-33544

- ① — Each part number listed is either Renault part number, Simca part number or Volvo part number.
- ② — Standard, optional part number is 77 00 530 749.
- ③ — Type number

SPECIFICATIONS

Application	Volts @77°F
E.144	14.4-14.5
S30201
14V-33525	13.1-14.4
14V-33544	13.1-14.4
77 00 544 686	13.3-14.4
77 00 523 264	14.2-14.6
77 00 530 749	13.4-14.4

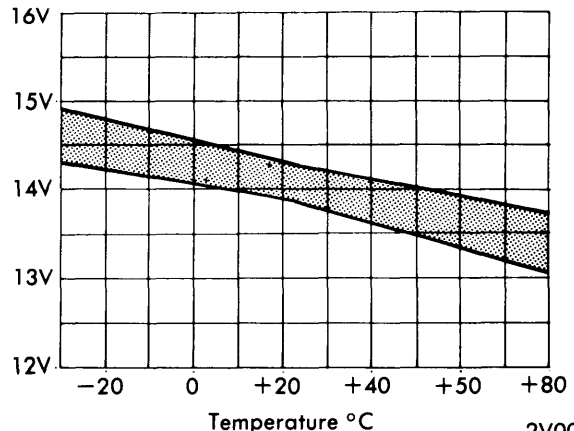


REGULATOR TEST CIRCUIT

TESTING

ON CAR TEST

- 1) Connect alternator and regulator as shown in illustration. For an accurate test, drive vehicle or operate system (on bench) for about 45 minutes at 30 miles per hour or more. This will allow regulator to reach its normal operating temperature.
- 2) Run alternator at 5000 RPM (engine speed 2500 RPM) for 15 seconds. Voltage with no load should be as shown in specifications.
- 3) Load alternator with 10-15 amperes (for example, high beam headlights). Record voltage reading. The voltage should also be as shown in specifications.
- 4) For the 33525 and 33544 regulators, the chart gives voltage values for other ambient temperatures. If voltage is outside the tolerance limits, regulator must be replaced.



VOLTAGE-TEMPERATURE VARIATION WITH VOLTAGE REGULATOR WARM

2V004