

Motorola 1963-75 S.E.V. Alternator Regulators Wiring Diagrams

For:

- Renault
- Simca
- Volvo
- Alfa Romeo
- Porsche

CHANGES, CAUTIONS, CORRECTIONS

SERVICE 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. 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

SEV Motorola alternators use either on electronic or mechanical type voltage regulator. The electronic unit contains neither mechanical contacts or relays, and requires no adjustments or maintenance. It is sealed, and if found to be defective requires replacement. The mechanical voltage regulator has fixed upper and lower contacts and the center contact is moveable.

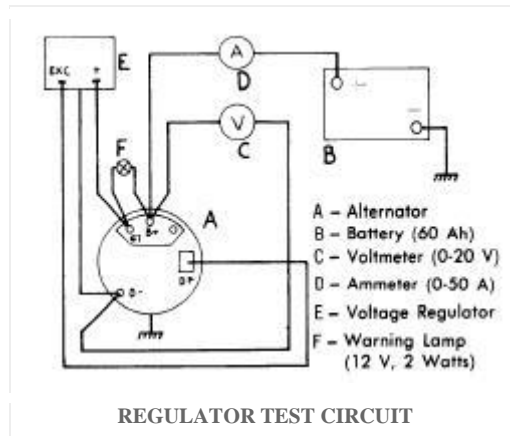
APPLICATION

Model	Part No.
Renault	
R-12	
1971-73.....	77 00 544 686
R-15	
1972.....	77 00 523 264
1973.....	77 00 544 686
R-16	
1969-70.....	E. 144
1971-72.....	77 00 523 264
R-17	
1972.....	77 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
Alfa Romeo.....	
Porsche.....	901 603 206 11
911S & Carrera.....	901 603 206 13
Renault.....	77 00 544 686
Volvo	

SPECIFICATIONS

Application	Voltage Setting @ 77° F
Alfa Romeo.....	
Porsche.....	

Renault..... 13.8-14.8
 Volvo..... 13.1-14.4



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 mins 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 Volvo regulator, the following chart gives voltage values for other ambient temperatures. If voltage is outside tolerance limits, regulator must be replaced.

