

BOSCH INJECTION PUMP TEST SPECIFICATIONS | ELECTRICAL TEST

Observe notes in remark column

Test sheet : ROW
 Date of manufacture :
 Edition : 08.07.1994
 Replaces :
 Test oil : ISO 4113
 Injection pump : VE4/11E2250L580
 Type No. : 0 460 414 995
 Customer Ident.No. :

Customer-specific details
 Customer : ROVER

Engine : TCIE

Output kW :
 Speed 1/min :

TEST BENCH PREREQUISITES

Inlet pressure, bar: 0.30...0.40

Calibrating nozzle-
 holder assembly > : 1 688 901 114

Opening
 pressure > bar : 207...210

Test pressure line : 1 680 750 085

Outer diameter : 6.00
 x wall thickness > : 2.20
 x length > mm : 350

Overflow valve :

Test line : 0 986 612 437
 (fuel-delivery actuator)

Test line : 0 986 612 438
 (solenoid valve
 start of injection)

TEST PRECONDITIONS

Test oil
 return temp. > °C
 with thermometer : 55

Test oil supply
 temperature > °C : 42...47

Hold-up
 revolutions >1/min : 1200
 Feedback
 voltage mV : 2500

Actuator
 Connections 5 and 6
 Test temperature:
 15°...30°C, ohms : 0.4...1.0
 50°...70°C, ohms : 0.45...1.1

Connections 5 and
 ground, Mohms min. : 1.0
 Connections 6 and
 ground, Mohms min. : 1.0
 Connections 3 and 5
 Mohms min. : 1.0
 Connections 6 and 7
 Mohms min. : 1.0

High-pressure compressor sensor
 Sensor coils
 Connections 1 and 2
 Ohm : 4.9...6.5
 Connections 2 and 3
 Ohm : 4.9...6.5
 Connections 1 and 3
 Ohm : 9.8...13.0

Connections 1 and
 ground, Mohms min. : 1.0
 Connections 2 and
 ground, Mohms min. : 1.0
 Connections 3 and
 ground, Mohms min. : 1.0

Temperature sensor, fuel
 Connections 4 and 7
 Test temperature:
 15°...30°C, kohms : 1.2...4.0
 50°...70°C, kohms : 0.3...1.2

Connections 4 and
 ground, Mohms min. : 1.0
 Connections 7 and
 ground Mohms min. : 1.0

Solenoid valve, start of injection
 Connections 1 and 2
 Test temperature :
 15°...30°C, ohms : 14.3...17.3
 50°...70°C, ohms : 15.5...21.0

Starting stop mV : 4120...4650

Shutoff stop mV : 650...850